

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

June 10, 2015

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-5101827, issued to SWN PRODUCTION COMPANY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

Chief

James Martin

Operator's Well No: BONNETTE MSH 1H

Farm Name: BONNETTE, ROBERT & LINDA

API Well Number: 47-5101827

Permit Type: Horizontal 6A Well

Date Issued: 06/10/2015

API Number: 5101827

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW-6B (10/14)

API NO. 47- 69 -		
OPERATOR WELL	NO.	Bonnette MSH 1H
Well Pad Name:	Bonne	tte MSH Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Pro	duction Co., LLC	494512924	51-Marshall	5-Meade	681- Wileyville
		Operator ID	County	District	Quadrangle
2) Operator's Well Number:	Bonnette MSH 1H	Well Pa	d Name: Bonne	ette MSH F	Pad
3) Farm Name/Surface Owner	Robert and Linda Bo	onnette Public Ro	ad Access: Fish	Creek	
4) Elevation, current ground:	1429.6 EI	evation, proposed	post-construction	on: 1429.6	5
5) Well Type (a) Gas <u>x</u> Other	Oil	Und	lerground Storag	е	-44
(b)If Gas S	hallow X	Deep			
6) Existing Pad: Yes or No y	orizontales				
7) Proposed Target Formation Target Formation- Marcellus, Target	(s), Depth(s), Antic	· · · · · · · · · · · · · · · · · · ·			
3) Proposed Total Vertical De	pth: 7077'				
) Formation at Total Vertical	Depth: Marcellus	i			
0) Proposed Total Measured	Depth: 13,900'				
1) Proposed Horizontal Leg 1	ength: 5656'				
2) Approximate Fresh Water	Strata Depths:	645'			
3) Method to Determine Fres	h Water Depths: f	rom log analysis	and nearby wa	ter wells	
4) Approximate Saltwater De	pths: 1104'				
5) Approximate Coal Seam D	Depths: 1110'				
6) Approximate Depth to Pos	sible Void (coal mi	ne, karst, other):	None that we a	ire aware o	of.
7) Does Proposed well location in the contract of the contract		ns Yes	No.	Х	
(a) If Yes, provide Mine Info	: Name:				
	Depth:				
	Seam:				
	Owner:			RI	ECEIVED
				Office o	of Oil and Ga

JUN 1 2015

WW-6B (10/14) API NO. 47- 69

OPERATOR WELL NO. Bonnette MSH 1H

Well Pad Name: Bonnette MSH Pad

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	100'	100' %	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	1160 7001	1160700	1050 sx/CTS
Coal	9 5/8"	New	J-55	40#	2757'	2757'	1000 sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	13,900'	13,900'	Lead 1070sx 1580 tall 5x/100 inside l
Tubing	2 3/8'	New	P-110	4.7#	Approx. 7561'	Approx. 7561'	
Liners							

Je 1/20/18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	0.020	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	0.020	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	0.020	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	0.020	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	0.020	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

Kind:	10K Arrowset AS1-X	
Sizes:	5 1/2"	Received
Depths Set:		Office of Oll & Gas

FEB 2 6 2015

WW-6B (10/14)

API NO. 4769	
OPERATOR WELL NO.	Bonnette MSH 1H
Well Pad Name: Bonne	tte MSH Pad

19)	Describe	proposed	well wor	k. inch	iding the	drilling a	and pl	lugging	back of	any nilo	t hole:
,	D 0301100	0100000	*****	.,	401115 UIV	, ammining (una pi	MEETINE	DUCK OI	any pino	L MOIC.

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.4
- 22) Area to be disturbed for well pad only, less access road (acres): 11.6
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

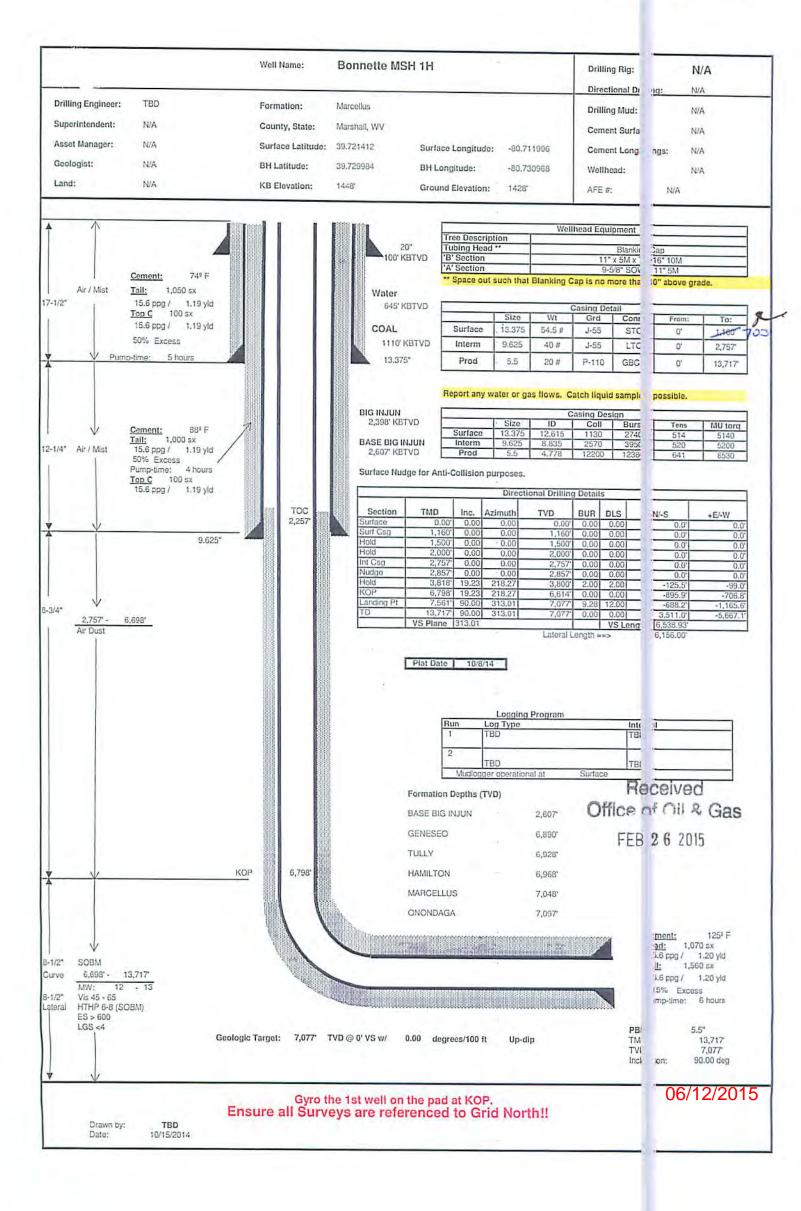
25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

Received
Office of Oil & Gas

FEB 26 2015

^{*}Note: Attach additional sheets as needed.



SLB C	ement Additives Product Name	***Ref: 2013-78 Product Use	Chemical Name	CAS Numbe
		- witness	Fuller's earth (attapulgite)	8031-18-3
	D046	antifoam	Polypropylene glycol	25322-69-4
	D130	polyester flake - Icm	polyethylene terephthalate	25038-59-9
	S001	calcium chloride	calcium chloride	10043-52-4
8	SPACER			
ta .	D130	polyester flake - lcm	polyethylene terephthalate	25038-59-9
Surface	D020	bentonite extender	bentonite .	1302-78-9
-	2010	antifoam	Fuller's earth (attapulgite)	8031-18-3
	D046		Polypropylene glycol	25322-69-4
	D130	polyester flake - lcm	polyethylene terephthalate	25038-59-9
	D044	granulated salt	sodium chloride	7647-14-5
e	D153	Anti-Settling Agent	chrystalline silica	14808-60-7
Intermediate	SPACER			
E	D020	bentonite extender	bentonite	1302-78-9
Ĕ	D130	polyester flake - lcm	polyethylene terephthalate	25038-59-9
	D080	cement liquid dispersant	product classified as non-hazardous.	
	D801	mid-temp retarder	product classified as non-hazardous	
	D047	antifoam agent	polypropylene glycol	25322-69-4
	SPACER			
	B389	MUDPUSH* Express	Carbohydrate	proprietary
	D206	Antifoaming Agent	Silica Organic Polymer	proprietary
g	D031	barite	barium sulfate	7727-43-7
급		-	fatty acid amine	proprietary
Kick Off Plug			ethoxylated alcohol	proprietary
×	The same of the sa		glycerol ·	56-81-5
Ž	B220	surfactant	2.2'-Iminodiethanol	111-42-2
_	D167	UNIFLAC* S	aliphatic amide polymer	proprietary

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% Concentration Used
0.2% BWOC
0.125 lb/sk
2% BWOC
1 lb/bbl
20 lb/bbl
0.2% BWOC
0.125 lb/sk
10% BWOW
0.15% BWOC
20 lb/bbl
1 lb/bbl
0.05 gal/sk
0.01 gal/sk
0.02 gal/sk
1 lb/bbl
0.1 gal/bbl
310 lb/bbl

4 10-bl
1 gal/bbl
O SERV DIMOC
0.35% BWOC

i	D154	low-temperature extender	non-crystalline silica	7631-86-9
	D400	EasyBLOK	boric acid	10043-35-3
Lead		antifoam	Fuller's earth (attapulgite)	8031-18-3
	D046	anuioam	Polypropylene glycol	25322-69-4
Production -	2004	basic cements enabler	chrystalline silica	14808-60-7
'ਚੁੱ	D201	basic cements enabler	metal oxide	proprietary
퓧	2000	low-temperature solid	sulphonated synthetic polymer	proprietary
٦ <u>۲</u>	D202	dispersant	formaldehyde (impurity)	50-00-0
	20.40		Fuller's earth (attapulgite)	8031-18-3
	D046	antifoam	Polypropylene glycol	25322-69-4
	D167	UNIFLAC* S	aliphatic amide polymer	proprietary
	D065	TIC* Dispersant	Sodium Polynaphthalene Sulfonate	9008-63-3
			Sodium Sulfate	7757-82-6
	-		chrystalline silica	14808-60-7
	D201	basic cements enabler	metal oxide .	proprietary
	D153	Anti-Settling Agent	chrystalline silica	14808-60-7
ļ				
	SPACER			
1	B389	MUDPUSH* Express	Carbohydrate	proprietary
l .	D206	Antifoaming Agent	Silica Organic Polymer	proprietary
	D031	barite	barium sulfate	7727-43-7
			fatty acid amine	proprietary
		İ	ethoxylated alcohol	proprietary
			glycerol	56-81-5
Į .	B220	surfactant	2.2'-Iminodiethanol	111-42-2

00/ DM00
6% BWOC
0.8% BWOC
0.2% BWOC
in the second se
0.2% BWOC
0.3% BWOC
0.2% BWOC
0.35% BWOC
0.35% BWOC
O DESC. DIMIGO
0.25% BWOC
0.2% BWOC
0.2% BWOC
proprietary
proprietary
7727-43-7
proprietary
proprietary
56-81-5
111-42-2
111.45.7

RECEIVED Office of Oil and Gas WW-9 (9/13)MAY 2 2 2015

API Number 47 - 69	
Operator's Well No.	Bonnette MSH 1H

WV Department of STATE OF WEST VIRGINIA Environmental Protection OFFICE OF OIL AND GAS OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? **TOTO, 85 Grofing SWF- 1026, Stort Creek 1024/WY0109517/CID028726, Cacton Livestone 287/26/CID028726
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used? Yes No V No V If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill. Will a synthetic liner be used in the pit? Yes No V If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 200072539/200413175/200610306/200610317) Reuse (at API Number at next anticipated well, APIB will be included with the WR-34/DDMR &for permit addendum.) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe: Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number?** Landfill or Offsite Disposal number?** Landfill or Offsite name/permit number?** Landfill
Will a pit be used? Yes No V If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill. Will a synthetic liner be used in the pit? Yes No V If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 200072539/ 200413175/ 200610308/ 200610317) Reuse (at API Number at next anticipated well, APIB will be included with the WR-34/DDMR &/or permit addendum.) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe: Yes Orilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base Additives to be used in drilling medium? See attached sheets Orill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? Synthetic Starting SWT-102, 55 (colong SWT-102, 55 (c
Will a synthetic liner be used in the pit? Yes No If so, what ml.? Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317) Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back flulds will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe: Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number/Presides DW-1028, 55 Geology SWF-1028, 55 Geology SWF-1028, 550
Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317) Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum. Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe; Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. londfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number?** -Landfill or offsite name/permit number?** Argen Landfill TUU1/2, American U2-12954, Country Wide 3839U/CID3839U, Pine Grove 13588
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Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317) Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.) Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe: Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? President DWT- 1020, 55 Greeting DWT- 4502, Northwestern DWT- 1025, Shed Creek 1024-WYG 102617/CID28726, Cacton Linealing 22776/CID28726 Argen Landfill TUU1/2, American U2-12954, Country VVIde 3839U/CID3839U, Pine Grove 13588
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Other (Explain_flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility. Will closed loop system be used? If so, describe; Yes Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number?
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Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud -If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? -Landfill or offsite name/permit number? -Landfill 10U1/2, American U2-12954, Country Wide 3839U/CID3839U, Pine Grove 13588
-If oil based, what type? Synthetic, petroleum, etc.Synthetic Oil Base Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? 1002, 85 Grading SWF- 1002, 85 Grading SWF- 1002, Stort Creek 1034WV0109517/C0028724, Cauton Landfill TUU1/2, American U2-12954, Country Wide 3839U/CID3839U, Pine Grove 13588
Additives to be used in drilling medium? see attached sheets Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? TOO, 55 Grading SWF- 1020, Stort Creek 1024-WOODS/STOR, Carbon Lieuthow 287/2000200728 Argen Landfill TUU1/2, American U2-12954, Country Wide 3839U/CID3839U, Pine Grove 13588
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? *** 1002, 85 Grading SWF-
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? ************************************
-Landfill or offsite name/permit number? ************************************
Arden Landfill 10072, American 02-12954, Country Wide 38390/CID38390, Pine Grove 13688
on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other application can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted of application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible obtaining the information. Delieve that the information is true, accurate, and complete. I am aware that there are significantly penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature
Company Official (Typed Name) Dee Southall
Company Official Title Regulatory Supervisor

Operator's Well No. Bonnette MSH 1H Form WW-9 SWN Production Co., LLC Proposed Revegetation Treatment: Acres Disturbed 18.4 Prevegetation pH s determined by pH test min. 2
Tons/acre or to correct to pH

6.5 10-20-20 Fertilizer type Fertilizer amount 600 lbs/acre Mulch Hay/Straw 2.5 Tons/acre **Seed Mixtures** Permanent Temporary Seed Type lbs/acre Seed Type lbs/acre 15 White Grove 15 White Grove 15 **Red Top Red Top** 15 **Orchard Grass** 20 **Orchard Grass** 20 Attach: Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided) Photocopied section of involved 7.5' topographic sheet. Plan Approved by: Comments: Received Office of Oil & Gas FEB 26 2015 Title: Oil and Gas Inspector 1/26/15-Field Reviewed?) Yes

Marcellus Well Drilling Procedures And Site Safety Plan

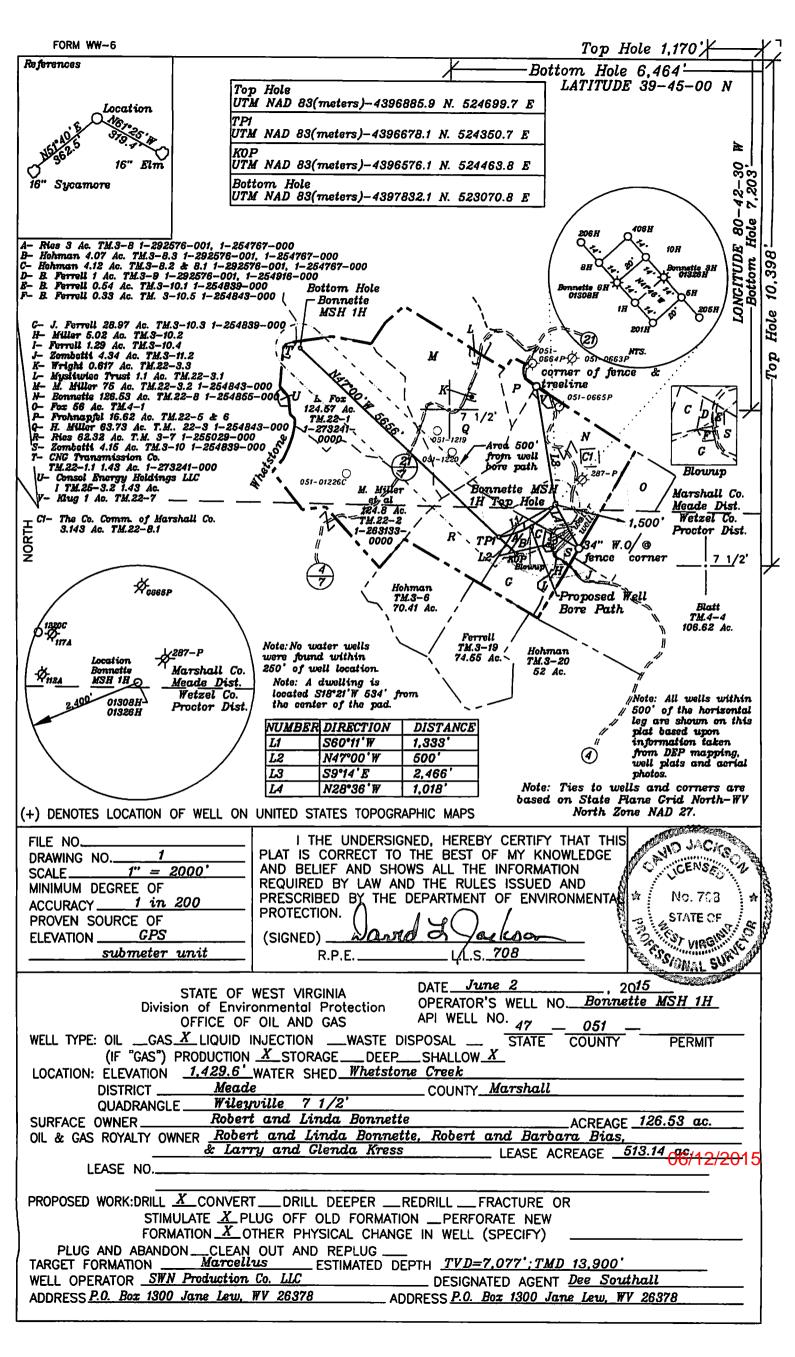
SWN Production Co., LLC

47 - 051 - 01827 Well name: Bonnette MSH 1H Wileyville, Quad Meade, District Marshall County, West Virginia

Submitted by Danielle Southall	1/15/2015 Date:
Title Regulatory Supervisor	SWN Production Co., LLC
Approved by: Title: 0 4 Gas luspert	Date: 1/26/15
Approved by:	
	Date:
Title:	
SWN Production Co., LLC - Confidential	

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WW-6A1 (5/13) Operator's Well No. BONNETTE MSH 1H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition of the DEC Office of Oil and Gas, including but not limited to the following:

Office of Oil & Gas

WV Division of Water and Waste Management

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- · WV Division of Natural Resources WV Division of Highways
- · U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator:	SWN Production Company, LLC.
By:	Tuil Him
Its:	SENIOR LANDMAN, WEST VIRGINIA DIVISION
Its.	SENIOR LANDMAN, WEST VIRGINIA DIVISION

Page 1 of

Bonnette MSH 1H

ID#	TAX-MAP-PARCEL	LEASE NUMBER	GRANTOR, LESSOR, ETC	GRANTEE, LESSEE, ETC	ROYALTY	BOOK/PAGE
1	9-22-8	1-254855-000	Andrew Stein, widower	The Manufacturers Light and Heat Company	12.500%	272/265
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	+	422/204
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110
2	12-3-10	1-254839-000	Charles E. Miller, Widower; Robert H. Miller and Bernadine B.	The Manufacturers Light and Heat Company	12.500%	45A/431
			Miller, his wife; Dorothy M. Ferrell and Carl S. Ferrell, her			
		}	husband; Charles E. Miller, Jr., and Glenda R. Miller, his wife;			
			John B. Miller and Lorna R. Miller, his wife; Dolores A.			
			Zombotti and James J. Zombotti, her husband			
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		663/542
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
3	12-3-10.1	1-254839-000	Charles E. Miller, Widower; Robert H. Miller and Bernadine B. Miller, his wife; Dorothy M. Ferrell and Carl S. Ferrell, her husband; Charles E. Miller, Jr., and Glenda R. Miller, his wife; John B. Miller and Lorna R. Miller, his wife; Dolores A. Zombotti and James J. Zombotti, her husband	The Manufacturers Light and Heat Company	12.500%	45A/431
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		663/542
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
4	12-3-9	1-292576-001	BRC Minerals LP, a Texas limited partnership and BRC Appalachian Minerals I LLC, a Delaware limited liability	BRC Working Interest Company LLC		
			company		16.000%	103A/320
		ļ	BRC Working Interest Company LLC	Chesapeake Appalachia, L.L.C.		103A/470
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
		1-254916-000	Carl S. Ferrell, Dorothy M. Ferrell, Adaline V. Gollner, Anna T. Knorr, Margaret F. Cornez, Oscar F. Cornez, Hilda C. Slater, Charles F. Trein, Edith Trein, Homer E. Trein, Olive Naomi Trein, Walter J. Trein, Virginia F. Trein, Roy L. Trein, and Mary	The Manufacturers Light and Heat Company		
	l	acelved C	J. Spoon		12.500%	48A/124

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			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		
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	 					263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.	_ _	90/242
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	-	157A/540
						Total:
5	12-3-8.1	1-292576-001	BRC Minerals LP, a Texas limited partnership and BRC	BRC Working Interest Company LLC	16.000%	103A/320
	12-3-8.2		Appalachian Minerals I LLC, a Delaware limited liability company			
			BRC Working Interest Company LLC	Chesapeake Appalachia, L.L.C.		103A/470
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
		1-254767-000	B.G. Weigand, single, aka B.G. Wiegand	The Manufacturers Light and Heat Company	12.500%	45A/290
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90/242
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
						Total:
6	12-3-10.3	1-254839-000	Charles E. Miller, Widower; Robert H. Miller and Bernadine B.	The Manufacturers Light and Heat Company	12.500%	45A/431
			Miller, his wife; Dorothy M. Ferrell and Carl S. Ferrell, her		j	
	}		husband; Charles E. Miller, Jr., and Glenda R. Miller, his wife;		İ	1
			John B. Miller and Lorna R. Miller, his wife; Dolores A.		ŀ	!
	}		Zombotti and James J. Zombotti, her husband			
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		663/542
	1	eived	Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540

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7	12-3-8.3	1-292576-001	BRC Minerals LP, a Texas limited partnership and BRC Appalachian Minerals LLC, a Delaware limited liability	BRC Working Interest Company LLC	16.000%	103A/320
			company			
_			BRC Working Interest Company LLC	Chesapeake Appalachia, L.L.C.	- -	103A/470
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
		1-254767-000	B.G. Weigand, single, aka B.G. Wiegand	The Manufacturers Light and Heat Company	12.500%	45A/290
8	12-3-8	1-292576-001	The Manufacturers Light and Heat Company Columbia Gas Transmission Corporation Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. BRC Minerals LP, a Texas limited partnership and BRC Appalachian Minerals I LLC, a Delaware limited liability company BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C. B.G. Weigand, single, aka B.G. Wiegand	Columbia Gas Transmission Corporation Columbia Natural Resources, LLC Chesapeake Appalachia, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC BRC Working Interest Company LLC Chesapeake Appalachia, L.L.C. SWN Production Company, LLC The Manufacturers Light and Heat Company	16.000%	263/164 84A/129 90/242 402/446 157A/540 Total: 103A/320 103A/470 157A/540 45A/290
			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC	- -	84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90/242
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		157A/540
			спезареаке Аррагаста, с.с.с.	SWN Floudction Company, LLC		Total:
_	12-3-7	1-255029-000	Clem J. Hohman and Hilda Hohman, his wife	The Manufacturers Light and Heat Company	12.500%	47A/72
9	12-3-/	1-255029-000			12.500%	
			The Manufacturers Light and Heat Company Columbia Natural Resources, LLC	Columbia Gas of West Virginia Chesapeake Appalachia, L.L.C.		258/460 402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC	+	
	0.22.2	1 254042 000	N.G. Miller and Mary E. Miller, his wife	The Manufacturers Light and Heat Company	12 5000/	157A/540
เก	9-22-3	1-254843-000	The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation	12.500%	353/240
				Columbia Natural Resources, LLC		422/204
			Columbia Gas Transmission Corporation			642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.	+	650/63
	1		Columbia Green Smission Corporation	Chesapeake Appalachia, L.L.C.		662/332
			Hope Make Alpalachia, L.L.C.	CMA Draduction Communication		663/592
			торыроже-Арраіаспіа, с.с.с.	SWN Production Company, LLC	10 5000	33/110
11	9-22-2	1-263133-000	Catherine L. Bakens	The Manufacturers Light and Heat Company	12.500%	353/244

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			The Manufacturers Light and Heat Company	Columbia Gas Transmission Corporation		422/204
			Columbia Gas Transmission Corporation	Columbia Natural Resources, LLC		642/281
			Columbia Natural Resources, LLC	Chesapeake Appalachia, L.L.C.		650/63
	1		Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/332
						663/592
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110
12	9-22-1	1-273241-000	Charles L. Kernan and Agnes G. Kernan, his wife	Chesapeake Appalachia, L.L.C.	12.500%	680/371
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110
13	9-22-1.1	1-273241-000	Charles L. Kernan and Agnes G. Kernan, his wife	Chesapeake Appalachia, L.L.C.	12.500%	680/371
			Chesapeake Appalachia, L.L.C.	SWN Production Company, LLC		33/110

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OIL & GAB SUBLEASE AGREEMENT

This Subjects Agreement made this 100 day of of other hand 2004, by and between COLUMBIA GAS TRANSMISSION CORPORATION, a Delaware corporation, 1700 Minc Could Avanue, S.H., P. O. Box 1273, Charleston, West Virginia 25325-1273 (herokather COLUMBIA) and COLUMBIA NATURAL RESCURCES, LLC, a Delaware Similad Hisbility company, 900 Pennsylvania Avenue, P. O. Box 6070, Charleston, West Virginia 25362 (herokather "CNR").

WHEREAS, COLLIMBIA and CNR desire to enter into a Subleme Agreement for purposes of exploring for native oil and gas reserves in all formations in the Victory Storage Arm, excluding the formations being reserved or operated by COLLIMBIA for storage, shaste in Marshall and Wetzel Counties, West Virginia; and

WHEREAS, the terms and conditions of this Sublease Agreement pertain to the Victory Storage Area, which is comprised of those certain leases held by COLUMBIA and described on Bullibil A. etteched bareto ("COLUMBIA Leases").

NOW, THEREFORE, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and for the materi coverages and agreements herebusher act forth, COLUMBIA and CNR hereby agree as follows:

SUBLEASE: COLLIMETA does hereby sublease exclusively to CNR all the oil and gas and their countiness, including coal bed mechane, insufer as COLLIMETA has the right to do so, found in all formations, explaining the formations currently being reserved or operated by COLLIMETA for a turning as a specifically described in this Sublease A gracument, in the Victory Storage Area turning tone certain leases located in Marshall (Liberty District) and Wetzel (Proctor District) Counties, West Virginia, and more particularly described on Embilit A herea (Proctor) the CNR, at its glocing, to explore for, develop, produce, measure and market production from the Subleased Promises, and from edjoining lands for which COLLIMETA has the legal right to affilize and subsenting, using suchods and techniques which are not restricted to current technology, including the right to conduct geophysical and/or solumic surveys and other exploratory tester to drill, maintain, operate, cases to operate, puls, sheaden and recover wells; to me or leastall reads, electric power and telephone facilities and to construct products and appurtures facilities, including data acquisition, compression, measurement and collection the Subsect of Premises and from neighboring lands across such Subtaced Premises as is necessary, for which COLLIMETA has the longel right to utilize and subsensing; to use oil, gas and condition where sources free of our and to operate, maintain, repair and remove material sequences.

EXCEPTING AND RESERVING Inverver, unto COLUMBIA, its assessmen, assigns, secures, and other authorises, the known from 250 feet above the top of the Grandster Limentone (inclusive of all Maxton sands) to 50 feet below the base of the Posono Big Injun

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formation being reserved or operated for storage and all other access of said COLUMBIA properties not emptously midels forcine and the full and free use of all rights, privileges, and essentiates which COLUMBIA owns or may use with respect to the satisfice and formations overhing, anderlying, adjacent, contiguous and/or vicinal to the Sublement Promises.

NOTWITHSTANDING ALL OTHER PROVISIONS OF THIS SUBLEASE AGREEMENT. IT IS AGREED, UNDERSTOOD, AND STRULATED BY AND RETWEEN THE PARTIES THAT:

- (A) This Subleme: Agreement and said Sublemed Pression, operating rights, privileges, and consupers herein sublet and densired are subject and limited to and reprinted by (i) those limitations, inservations, provisions, comprises, and substituted to suit rights, interest, and/or contain of record which now encounter and bind COLLINGIA in the tide to sum:
- (B) Sald Sublessed Premises, operating rights, privileges, and executes are herein sublet and densited unto CNR unity to the extent of COLUMBIA'S power to stablet and densite same and are limited to such as COLUMBIA poissesses and has the lawful right to sublet and densites
- (C) CNR shall perform and observe the terms and confidence of said COLUMBIA.

 Leases as they person to the Sublested Providence and
- (D) CRR accepts the Subinesed Premises in its now existing condition. COLUMBIA testing as warranties, expressed, implied, or otherwise, as to title to the COLUMBIA Leans, COLUMBIA'S rights thereasider, or to the existence, quantity, title to, or quality of all or gas within the Subileased Premises.
 - The parties incogains that COLLIMBIA has extered into a certain self-tenent agreement entitled "Battlement Agreement Between Columbia Gas Transmission and Councildatibis Cell Company" and McElroy Coal Company" dated as of September 18, 2002, ("Council Bettlement Agreement") that relates to the Victory Storage Acea. The Council Settlement Agreement has been made available to CNR through the computer intense web site of the Federal Energy Regulatory Commission (FERC), and CNR agrees that its operations pursuent to this Subleme Agreement shall, in no way, cause COLLIMBIA to be in breach of the terms of the Council Settlement Agreement. CNR agrees that the terms of the "Indomnification" classes of this Subleme, Agreement shall spirty to any settlement, or estimate to the, in breach or violation of the Council Settlement Agreement, and CNR agrees, to indemnify, hald introduce and COLLIMBIA for sky breach or violation, or claim of breach or violation, of the Council Settlement Agreement, on the Council Settlement Agreement, or who had not been and the "Indomnification" classes of this Subleme Agreement.

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SUBLEASH AGREEMENT TERM AND TERMINATION: This Subleme Agreement shall remain in force for a primary term of two (2) years from the date of execution of this Agreement, and as ledge thereafter as there are continuous operations on the Subleme Premises, the presented payments are being made and the other previous of this Subleme Agreement are estimated. Continuous operations is defined as the drilling to target formation of a new well on a yearly basis.

During the princery term and each year thereafier, CNR agrees to defill to target formation one (1) oil antiver gas well on the Sublemed Pramises. In the event CNR does not defill to target formation at least one (1) well during the princary term and each year thereafter this Subleme Agreement shall invariant as to all tendrilled corongs. However, until the tennisation of this Subleme Agreement as contemplated by this paragraph, this Subleme Agreement shall nevertheless remain in full faces and effect as to say and all wells defiled and capable of producing in commercial quantities upon the Sublemed Promises and CNR shall have rights of operation, production and impress and agrees to the same. Each well defiled and capable of producing in commercial quantities on the Sublemed Pramises shall hald and maintain this Subleme Agreement in full faces and effect as to each handled and maintain this Subleme Agreement in full faces and effect as to each scale of the seath of the Sublemed Agreement in full faces and affect as to each scale of the outst to this top of the Connecting at a more specifically defined as to more specifically defined as former positional producing to the beaution as is more specifically defined as below the top of the Connecting to the beaution as is more specifically defined as Newt Virginia Code Scatters 22C-9-2 (a) (12) (Theop Well"). For wells first see peoled with other acrossys, the total acrossys shall be the number of across of the Sublemed results included in the prolete with A plat showing the well and the hold Sublemed results related in the pooled with other acrossys of one launded stary (160) across or the hold Sublemed results or they consisted as COLLIMBIA's and COR agree that only one (1) well shall be defiled on the respective designated account of COLLIMBIA's spon termination. COLLIMBIA shall have so obligation to maintain the base leases referenced in Bethlift As provided, however, that COLLIMBIA shall notify CNR of the Intention to increase the holds of the condition to the

<u>INITIAL PAYMENT:</u> CNR shall pay to COLUMBIA the amount of one hundred thousand delies (\$100,000.00), on the effective date of this a groupost. The initial-physical of \$100,000.00 shall be in addition to all other payments due and owing pursuant to this Subleme Agreement.

ANNUAL PAYMENT: CNR chall pay to COLUMBIA to an address identified by COLUMBIA, by writing; from these to time, the term of Pitro Dollars (\$3.00) per sore securally in advance ("Armed Payment") bentuning on the effective date of this Subleman

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Agreement for the Sublessed Premises; provided that the annual payanent for the liest two years of the sublesse shall be paid in advance by CNR to Columbia upon extension of this Agreement and shall be non-redundable. Calculation of the Annual Payment shall be reduced each year by one handed staty (160) acres for each shallow well scaller ste hundred facty (640) acres for each deep well deliled, except for wells which are pooled with other accurage, in which case, the total across shall be reduced by the number of screen of the Sublessed Premises included in the pooled unit.

UNITIZATION: CNR is hereby given the right at its sole option to pool, smitter or combine all or parts of the Subbased Premises, or any part thereof, with any other band, bease or lease, or parts thereof, regardless of concentral thereof so long as CNR warrants to COMAMBIA it has the legal right to do so, either adjecting the Subbased Premises or other leads which may be included in sed from part of the same operating tents on to create by such combining or pooling one or more operating units, said units not to exceed six bandrof firsty (640) some, for the production of oil smiler pan or other constituent products. Such right may be exercised from these to time whether before or called the actual spatiding of a well for the production of oil smiler gas or other constituent products on the particular area to be pooled.

ROYALTERS: CNR agrees to pay the owner(s) of the oil and gas and their constituent products personnt to the terms of the COLUMBIA Leases for all oil and gas constituent products produced and cracketed from the COLUMBIA Leases haveln solute and to indexently and hold COLUMBIA harmless for CNR's fallers to jusy such coyalties in accordance with the terms of the COLUMBIA Leases.

OVERREDING ROYALTY: COLLIMBIA does hereby reserve unto itself, in successors and sestions, an undivisiod con-electronic (1/16°) of eight-eighths (8/8°) overriding royalty in all oil and gas and their constituent produce that are produced from the Published British reserves into least, its successors and sestion, an undivision con-electronic (1/160) of eight-eighths (8/8°) overriding royalty in all oil and gas and their constituent produces that are produced from the Sublessed Premises or from produced their constituent produces that are produced from the Sublessed Premises or from produced their constituent produces that are produced from the Sublessed Premises or from produced their constituent gradient acceptance including but not Boshed to operational capacities, patheting flow, marketing first, processing flow and all taxes. Subject to the foreigning, CNR shall pay overriding royalties to COLLIMBIA each month to an address them their their contribution of the produced overriding royalty payments until such t time as the total withhold expects one b undered (5100.00) dollars.

PROPORTIONATE REDUCTION: The overriding ropely provided for in this Sublesse Agreement is based on the whole of the oil and gas rights in the Sublessed Francisco. If COLUMBIA owns less than the whole of the oil and gas rights in said icases, overriding ropelites according horsunder shall be reduced in direct proportion to COLUMBIA'S overcable interest.

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FREE CIÁE OBLIGATION: If may activities by CNR trigger a free gas obligation, thin CNR will be fully responsible the the free gas obligations, provided that if COLLIMBIA purchases the well restord to the free gas obligation, COLLIMBIA shall reason the free gas obligation to the extent, if may, that COLLIMBIA would have that obligation under the applicable COLLIMBIA Learn.

COMPLIANCE WITH LAWS: CAR warmers and agrees that it will conduct all activities under this Rubiness Agreement in compliance with all local, state and federal laws and regulations and all confidence, authorizations, parents or licenses faund to CNR for the activities under this Schlesso Agreement. CNR further warrants and agrees to conduct all antivities in an environmentally responsible measure and to comply with all local, state and federal environmental laws and regulations.

DRILLING. COMPLETION AND MONITORING PROVISIONS: For each well drilled, CNR agrees to follow COLUMBIA'S "Procedure for Delling, Completing and Plagging Production Wells" and COLUMBIA'S " Integrity Monitoring Provisions" decomments. These documents are attached as Exhibits B and C, propertively.

RESPATE OPERATIONS: During the term of this Sublemes Agreement COLLINGHA greats to CNR, to the orderd provided for in COLLINGHA'S Leave, a exclusive right to conduct selection/prophysical operations on the Sublemed Promites provided for in the Sublemed Promites, including adjacent lands where CNR dome reasonable and accountry on the Sublemed Promites, including adjacent lands where CNR acquires the acceptance of the Sublemed Promites, including adjacent lands where CNR acquires the acceptance of the Independent contractors hired by CNR shall be at CNR's sole this, cost and capenae. The methods and conformed utilized in these operations shall be the usual and contourny methods and equipment utilized in these operations shall be the usual and contourny methods and equipment generally employed in conducting similar prophysical and/or selection surveys and investigations Netwithstanding the forgating, all data and documents reaching from past and fature CNR selection and/or prophysical surveys this be provided to COLLIMERA without out of fature the column and documents by CNR in the case of fature the fature of the data and documents by CNR in the case of fature the surveys and within thirty (30) days of the data and documents by CNR in the case of fature the surveys. All such data and documents are subject to the terms of the Confidentiality Agreement between the parties dated March S, 2004. However, in the event that CNR acquires minute data from a United party, the availability of much data that CNR shall, in such event, seek the consent of much third party to release the science data to COLLIMBIA.

At least one (1) week prior to conducting its operations, CNR shall advise the COLLINGIA Operation. Town Louder in writing of its intent to begin its scientistic prophysical operations setting farth the starting date and the approximant location of such operation. The Columbia Operations Team Loudez, Scott S. Polen, can be reached as follows:

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Address

Scott 8. Pelén
Tunn Lender, Field Services
Cobushis Ges Transmission Conversió
70 Majarsville Read
West Finley, PA 19377
Office Finnes No: (724) 428-3503
Fax No: (724) 428-4816

CNR agrees that in the event of spicodo testing activity, no shot will be permitted (1) on COLIDERIA rights-of-way; or (2) closer from twenty-five (25) feet from a COLIDERIA pipeline or (3) within three hundred (300) feet of any COLIDERIA well under a blanking plan is submitted and approvied in advance for evaluation.

DAMACES: CPR will endow emportanty equipment and teclaim distanced inches the completion of activities and CNR agrees to repair or pay the acted cost to repair any dismage counsed by CNR within minety (90) days of the demage occurring.

COLIMBIA'S RESHT TO PERCHASE CHR'S WELLS: Prior to plugging and standoning a dry hole well(s) when CMR determines, at he discretion, that CMR does not have commercially producible potential chilled in or near the Sublemed Premises, CMR shall give written action of he proposed action and COLIMBIA shall have the right, but not the obligation, to perchain the well(s) at CMR's ast salvage value.

COLUMBIA will have twenty-four [24] hours from sed after actual notice of any well to be plugged and abundance to COLUMBIA'S Storage Menager, Emphasizing Services Department, to make a decision to purchase the well(s) when a drilling rig is on the a lin, and thirty (30) days from and a flor written a price to COLUMBIA to make a decision if there is no drilling rig on the site. If COLUMBIA elects to parchase any well(a), CRR will assign: (1) all rights CRR has to the well here, and (2) any and all apprecionances COLUMBIA may check to obtain from CNR.

Columbia agrees that he right to introduce a well is subject to the purchase rights of a party owning a working interest to the well if said party's pinchase rights are included in the party's prior agreement with CNR. In the event any party owning such working interest parchases any well from CNR pursuant to this paragraph, such party definition of the paragraph of the paragra

CHANGE IN OWNERSHIP: CNR shall not be bound by any change in the ownership of this Subleam Agreement until furnished with such documentation on CNR stay reasonably couples. Peculing the proofet of documentation, CNR stay elect to either continue to might or withfield payments at if such a change has not occurred. In addition, COLLISCHIA shall forward a copy of such documentation to CNR.

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TITLE: If CNR receives evidence that COLUMBIA does not have title to all or any part of the rights haveln lossed, CNR may immediately, withhold payments us to the losses for which title is in dispute that would be otherwise due and paymin becoming to CNLIMBIA until the adverse claims are fully resolved.

COLUMBIA'S FACILITIES AND NOTIFICATIONS: CNR shall be observed of the location of COLUMBIA'S wells, pipelines, access roads and other facilities and excipenent and CNR agrees to maintain its operations at a tricinate distance at facts in COLUMBIA'S then current well asthest polloy and COLUMBIA'S then current pipeline right-of-way accessedment policy. COLUMBIA's current well suback policy and current pipeline right-of-way encountement policy are not forth in their entirety in Exhibit. D attached hereto:

CNR'S FACILITIES: COLLIMBIA shall not improve, modify, degrade or restrict roads and facilities built by CNR without CNR's written occased, except as is reasonably recovery in emergency situations where such activity is reconstry to preserve or protect human life, property and/or the covinement.

INDEMNIFICATION: CRR agrees to indemnify and hold hamsless COLLIMBIA, its agrees, exployee, officers, directors, subdiscises, and perent from and against any and all less, damage, liability, and from any and all chines for damages on account of or by reason of injury, including drafts, which may be sortained or claimed to be metalened by any person; including the employees of CNR and of any subcontractor to CNR, and from and against all damages to property, including less of use, and including property of COLLIMBIA, to the extent caused by or arising out of an of or or contained in connection with the Sublease Agreement, or any other theories of liability in connection with the operators contemplated herein, whether hearest against; provided, however, that the CNR shall faily indomnify Columbia for all less, damage or liability arising in whole or in part from the gross negligence or willful misconduct of CNR, its egents or cuployees. The foregoing indomnification will not cover loss, damage or itsidity string from the gross negligence or willful misconduct of COLLIMBIA, its agents and employees. This indomnification provision shall survive expiration or termination of this Subleme Agreement and shall leave to the benefit of the partice, successors and earliers. CNR's obligations presents to the terms of this Indomnification provision shall leaves to violation of the Council Settlement Agreement by Columbia nument by CNR's action or function.

DESURANCE: CNR shall procure and maintain, solely at he own cost and exponen, the types of insurance specified below. Prior to commencing any work on or gaining any scoose to the Robbetted Promises, CNR shall submit a certificate of insurance giving evidence of these required coverages. All insurance shall be precured from insurers authorized to do business in the justicitation whose operations are to be performed. CNR shall require all emitted permitted access to the Sublessed Promises to carry the insurance required herein, or CNR strip, at its option, provide the coverage for the strip performed access to the Sublessed Promises to carry the insurance required herein, or CNR strip, at its option, provide the coverage for

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I no insurance policies shall provide for thirty (30) days prior written notice to be given to COLUMBIA in the event coverage is substantially changed, executed as your province.

WORKERS COMPENSATION INSURANCE: CMR shall provide a policy complying with the requirements of the laws of the Jurisdiction in which any work by CMR or its again will be performed, covering all employees of CMR. Buriloyer's Liability covering with limits of liability of not less than One Million (51,000,000,000) for each accident or librars shall be included.

GENERAL LIABILITY INFORMANCE: CNR shall provide a policy based to, and covering liability imposed upon CNR with respect to all activities to be performed on the Subiessed Francises and all obligations assumed by CNR under the tensu of this Subiesse Agreement. COLLIMINA is to be caused as an additional immend with respect to all activities to be performed on the Subiessed Francises, and the policy shall conside a waiver of subregation against COLLIMINA, he employees and agents. Coverage under this policy or policies shall have limbs of liability of not less than Tun Million Dollars (\$10,000,000) per accurrence, combined single limbs for bodily injury (including discusse or death), pursual injury and property damage (including ions or use) liability

SIRRENDER: CNR may secrender and cancel this Settimes Agreement as to all or say part of the Sublesses by receiving a Servender of Sublesse, and if a partial secretar, the Aspeal Restal provided in the Asseal Restal clients shall be redeced in direct proportion to the accept currendered. A copy of the Secrender shall be promptly provided to COLLEGISA.

ASSIGNATIVE: This Subjence Agreement may not be assigned in whole or in part without the captest withen consent of COLUMBIA, said, consent not to be assumed with the captest within consent of COLUMBIA's consent shall not be accounted in those cases where CNR desires to dispose of its interests by merger or by said of all or substantially all of its oil and gas known to may party, or by transitive of fifty persons or loss of its working interest in a portion of the Subleme Agreement parameter to a joint operating agreement under which CNR is operator. CNR agrees that it will not workstarily relicquish its rights in operator under any such joint operating agreement with some of COLUMBIA; provided, however that the joint operating agreement will govern any convoluntary relicquishment of operatorship and COLUMBIA's connect will not be necessary.

COMPLIANCE WITH LEASE PROVISIONS: CNR hereby a grees to examply with all provisions contained in the COLUMBIA Leases barely subjet. In the event of conflict between the provisions of this fields a provision and the COLUMBIA Leases barely subjet, the provisions of the COLUMBIA Leases that contains.

ACCESS TO ITTLE RECORDS: COLLIMETA agrees to cooperate with CNR in good faith to allow CNR mesonable access, upon request, to non-privileged and non-privileged and non-privileged and non-privileged and non-confidential records maintained by COLLIMETA in the confidential records

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course of business which are necessary to adequately inform CNR of the status of title to the Schlessof Province.

ENTIRE CONTRACT: The soline agreement between COLIMBIA and CNR is scaleded lambs. No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Sublesse Agreement.

AMENDMENTS: Any amendments to this Subleme Agreement shall be in writing and signed by duly authorized representatives of both parties.

SUCCESSORS: The terms and provisions of this A proment shall be hinding upon and term to the breefit of the parties hereto, their successors, entires, personal representatives and helm, agents, stillates, and any other party parluming operations personal to this Agreement in partnership with or in susception with CNR or at the direction of CNR.

IN WITNESS WHEREOF, the Parties bards have concernd and delivered this Agreement as of the day and year first above written.

CULUMBIA GAS TRANSMESSION CORPORATION

y. VINNE DONA DONAL

Name: Sheree Porks Summer

Re Hennger, Pield Services

COLIMEIA NATURAL RESOURCES, LLC

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STATE OF WEST VIRGINIA COUNTY OF KANAWHA, TO-WIT:

1, Gwen Num, a Notary Public of said County, do certify that Sheree Parks Downey, Manager of Columbia Gas Transmission Corp., who signed the writing hereto annexed, bearing date as of the day of spheroles, 2004, for Columbia Gas Transmission, has this day in my said County, before me, acknowledged the same to be the act and deed of said corporation.

Given under my hand this 2 day of September 2004.

My commission expires: Onlett 4, 2004

Surandologia Dunn

Notary Public in and for said State and County



STATE OF WEST VIRGINIA COUNTY OF Kanaucha TO-WIT:

I. Audia Beirne a Notary Public of said County, do certify that Chaume County. L.C. who signed the wifting hereto amerced, bearing date as of the 202 day of Lecture L.C. as this day in my said County, before me, acknowledged the same to be the set and deed of said company.

Given under my hand this 2nd day of Scotten be 2004.
My commission expires: YThough 14, 2005

Notary Public in and for said State and County

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OIL & GAS SUBLEASE AGREEMENT

This Sublease Agreement made this 2nd day of Joseph Day 2004, by and between COLUMBIA GAS TRANSMISSION CORPORATION, a Delaware corporation, 1700 MacCorkle Avenue, S.E., P. O. Box 1273, Charleston, West Virginia 25325-1273 (hereinafter "COLUMBIA") and COLUMBIA NATURAL RESOURCES, LLC, a Delaware limited tiability company, 900 Pennsylvania Avenue, P. O. Box 6070, Charleston, West Virginia 25362 (hereinafter "CNR").

WHEREAS, COLUMBIA and CNR desire to enter into a Sublease Agreement for purposes of exploring for native oil and gas reserves in all formations in the Victory Storage Area, excluding the formations being reserved or operated by COLUMBIA for storage, situate in Marshall and Wetzel Counties, West Virginia; and

WHEREAS, the terms and conditions of this Sublease Agreement pertain to the Victory Storage Area, which is comprised of those certain leases held by COLUMBIA and described on Exhibit A, attached hereto ("COLUMBIA Leases").

NOW, THEREFORE, that for and in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and for the mutual covenants and agreements hereinafter set forth, COLUMBIA and CNR hereby agree as follows:

SUBLEASE: COLUMBIA does hereby sublease exclusively to CNR all the oil and gas and their constituents, including coal bed methane, insofar as COLUMBIA has the right to do so. found in all formations, excluding the formations currently being reserved or operated by COLUMBIA for storage as a pecifically described in this Sublease A greement, in the Victory Storage Area underlying those certain leases located in Marshall (Liberty District) and Wetzel (Proctor District) Counties, West Virginia, and more particularly described on Exhibit A hereto ("Subleased Premises"), together with such exclusive rights as may be necessary or convenient for CNR, at its election, to explore for, develop, produce, measure and market production from the Subleased Premises, and from adjoining lands for which COLUMBIA has the legal right to utilize and subassign, using methods and techniques which are not restricted to current technology, including the right to conduct geophysical and/or seismic surveys and other exploratory tests; to drill, maintain, operate, cease to operate, plug, abandon and remove wells; to use or install roads, electric power and telephone facilities and to construct pipelines and appurtenant facilities, including data acquisition, compression, measurement and collection facilities for use in the production and transportation of oil and gas and constituent products from the Subleased Premises and from neighboring lands neross such Subleased Premises as is necessary, for which COLUMBIA has the legal right to utilize and subassign; to use oil, gas and non-domestic water sources free of cost; and to operate, maintain, repair and remove material equipment.

EXCEPTING AND RESERVING, however, unto COLUMBIA, its successors, assigns. licensees, and other sublessees, the interval from 250 feet above the top of the Greenbrier Limestone (inclusive of all Maxton sands) to 50 feet below the hase of the Pocono Big Injun

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formation being reserved or operated for storage and all other areas of said COLUMBIA properties not expressly sublet herein and the full and free use of all rights, privileges, and easements which COLUMBIA owns or may use with respect to the surface and formations overlying, underlying, adjacent, contiguous and/or vicinal to the Subleased Premises.

NOTWITHSTANDING ALL OTHER PROVISIONS OF THIS SUBLEASE AGREEMENT, IT IS AGREED, UNDERSTOOD, AND STIPULATED BY AND BETWEEN THE PARTIES THAT:

- (A) This Sublease Agreement and said Subleased Premises, operating rights, privileges, and easements herein sublet and demised are subject and limited to and restricted by (i) those limitations, reservations, provisions, exceptions, and restrictions set forth in said COLUMBIA Leases and (ii) any and all rights, interest, and/or estates of record which now encumber and bind COLUMBIA in its title to same;
- (B) Said Subleased Premises, operating rights, privileges, and casements are herein sublet and demised unto CNR only to the extent of COLUMBIA'S power to sublet and demise same and are limited to such as COLUMBIA possesses and has the lawful right to sublet and demise;
- (C) CNR shall perform and observe the terms and conditions of said COLUMBIA Leases as they pertain to the Subleased Premises; and
- (D) CNR accepts the Subleased Premises in its now existing condition. COLUMBIA makes no warranties, expressed, implied, or otherwise, as to title to the COLUMBIA Leases, COLUMBIA'S rights thereunder or to the existence, quantity, title to, or quality of oil or gas within the Subleased Premises.
 - The parties recognize that COLUMBIA has entered into a certain settlement agreement entitled "Settlement Agreement Between Columbia Gas Transmission and Consolidation Coal Company and McElroy Coal Company" dated as of September 18, 2002, ("Consol Settlement Agreement") that relates to the Victory Storage Area. The Consol Settlement Agreement has been made available to CNR through the computer internet web site of the Federal Energy Regulatory Commission (FERC), and CNR agrees that its operations pursuant to this Sublease Agreement shall, in no way, cause COLUMBIA to be in breach of the terms of the "Indemnification" clause of this Sublease Agreement shall apply to any actions deemed, or claimed to be, in breach or violation of the Consol Settlement Agreement, and CNR agrees, to indemnify, hold harmless and defend COLUMBIA for any breach or violation, or claim of breach or violation, of the Consol Settlement Agreement caused, in whole or in part, by CNR, in accordance with the terms of the "Indemnification" clause of this Sublease Agreement.

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SUBLEASE AGREEMENT TERM AND TERMINATION: This Sublease Agreement shall remain in force for a primary term of two (2) years from the date of execution of this Agreement, and as long thereafter as there are continuous operations on the Subleased Premises, the prescribed payments are being made and the other provisions of this Sublease Agreement are satisfied. Continuous operations is defined as the drilling to target formation of a new well on a yearly basis.

During the primary term and each year thereafter, CNR agrees to drill to target formation one (1) oil and/or gas well on the Subleased Premises. In the event CNR does not drill to target formation at least one (1) well during the primary term and each year thereafter this Sublease Agreement shall terminate as to all undrilled acreage. However, until the termination of this Sublease Agreement as contemplated by this paragraph, this Sublease Agreement shall nevertheless remain in full force and effect as to any and all wells drilled and capable of producing in commercial quantities upon the Subleased Premises and CNR shall have rights of operation, production and ingress and egress to the same. Each well drilled and capable of producing in commercial quantities on the Subleased Premises shall hold and maintain this Sublease Agreement in full force and effect as to one hundred sixty (160) acres for each shallow well drilled and, shallow being defined as surface of the earth to the top of the Onondaga as is more specifically defined in West Virginia Code Section 22C-9-2 (a)(11) ("Shallow Well"), and six hundred and forty (640) acres for each deep well drilled, deep being defined as below the top of the Onondaga to the basement as is more specifically defined in West Virginia Code Section 22C-9-2 (a) (12) ("Deep Well"). For wells that are pooled with other acreage, the total acreage shall be the number of acres of the Subleased Premises included in the pooled unit. A plat showing the well and the held Subleased acreage or the pooled unit shall be submitted to COLUMBIA's Land Section within sixty (60) days of the completion of the well. U nless required a therwise by a ny applicable regulatory body, COLUMBIA and CNR agree that only one (1) well shall be drilled on the respective designated acreage of one hundred sixty (160) acres or six hundred forty (640) acres. All other acreage comprising the Subleased Premises not so drilled shall be released and forfeited by CNR and not subject to this Sublease Agreement and shall revert to the possession of COLUMBIA upon termination. COLUMBIA shall have no obligation to maintain the base leases referenced in Exhibit A; provided, however, that COLUMBIA shall notify CNR of its intention to terminate the base lease(s) at least six (6) months prior to COLUMBIA's proposed termination date. The parties further agree that any wells drilled under the aforementioned drilling commitment shall be credited toward future drilling commitments.

INITIAL PAYMENT: CNR shall pay to COLUMBIA the amount of one hundred thousand dollars (\$100,000.00), on the effective date of this a greement. The initial payment of \$100,000.00 shall be in addition to all other payments due and owing pursuant to this Sublease Agreement.

ANNUAL PAYMENT: CNR shall pay to COLUMBIA to an address identified by COLUMBIA, in writing, from time to time, the sum of Five Dollars (\$5.00) per acre annually in advance ("Annual Payment") beginning on the effective date of this Sublease

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Agreement for the Subleased Premises; provided that the annual payment for the first two years of the sublease shall be paid in advance by CNR to Columbia upon execution of this Agreement and shall be non-refundable. Calculation of the Annual Payment shall be reduced each year by one hundred sixty (160) acres for each shallow well and/or six hundred forty (640) acres for each deep well drilled, except for wells which are pooled with other acreage, in which case, the total acreage shall be reduced by the number of acres of the Subleased Premises included in the pooled unit.

<u>UNITIZATION</u>: CNR is hereby given the right at its sole option to pool, unitize or combine all or parts of the Subleased Premises, or any part thereof, with any other land, lease or leases, or parts thereof, regardless of ownership thereof so long as CNR warrants to COLUMBIA it has the legal right to do so, either adjoining the Subleased Premises or other lands which may be included in and from part of the same operating unit so as to create by such combining or pooling one or more operating units, said units not to exceed six hundred forty (640) acres, for the production of oil and/or gas or other constituent products. Such right may be exercised from time to time whether before or after the actual spudding of a well for the production of oil and/or gas or other constituent products on the particular area to be pooled.

<u>ROYALTIES</u>: CNR agrees to pay the owner(s) of the oil and gas and their constituent products pursuant to the terms of the COLUMBIA Leases for all oil and gas and constituent products produced and marketed from the COLUMBIA Leases herein sublet and to indemnify and hold COLUMBIA harmless for CNR's failure to pay such royalties in accordance with the terms of the COLUMBIA Leases.

OVERRIDING ROYALTY: COLUMBIA does hereby reserve unto itself, its successors and assigns, an undivided one-sixteenth (1/16th) of eight-eighths (8/8th) overriding royalty in all oil and gas and their constituent products that are produced from the Subleased Premises or from pooled units containing subleased acreage from a Deep Well. COLUMBIA further reserves unto itself, its successors and assigns, an undivided one-sixteenth (1/16th) of eight-eighths (8/8th) overriding royalty in all oil and gas and their constituent products that are produced from the Subleased Premises or from pooled units containing subleased acreage from a Shallow Well. Said overriding royalty interest shall be free from all costs and expenses including but not limited to operational expenses, gathering fees, marketing fees, processing fees and all taxes. Subject to the foregoing, CNR shall pay overriding royalties to COLUMBIA each month to an address identified by COLUMBIA, in writing, from time to time. CNR may withhold overriding royalty payments until such time as the total withheld exceeds one hundred (\$100.00) dollars.

PROPORTIONATE REDUCTION: The overriding royalty provided for in this Sublease Agreement is based on the whole of the oil and gas rights in the Subleased Premises. If COLUMBIA owns less than the whole of the oil and gas rights in said leases, overriding royalties accruing hereunder shall be reduced in direct proportion to COLUMBIA'S ownership interest.

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FREE GAS OBLIGATION: If any activities by CNR trigger a free gas obligation, then CNR will be fully responsible for the free gas obligations, provided that if COLUMBIA purchases the well related to the free gas obligation, COLUMBIA shall assume the free gas obligation to the extent, if any, that COLUMBIA would have that obligation under the applicable COLUMBIA Lease.

COMPLIANCE WITH LAWS: CNR warrants and agrees that it will conduct all activities under this Sublease Agreement in compliance with all local, state and federal laws and regulations and all certificates, authorizations, permits or licenses issued to CNR for the activities under this Sublease Agreement. CNR further warrants and agrees to conduct all activities in an environmentally responsible manner and to comply with all local, state and federal environmental laws and regulations.

<u>DRILLING, COMPLETION AND MONITORING PROVISIONS:</u> For each well drilled, CNR agrees to follow COLUMBIA'S "Procedure for Drilling, Completing and Plugging Production Wells" and COLUMBIA'S "Integrity Monitoring Provisions" documents. These documents are attached as Exhibits B and C, respectively.

SEISMIC OPERATIONS: During the term of this Sublease Agreement, COLUMBIA grants to CNR, to the extent provided for in COLUMBIA'S Leases, an exclusive right to conduct seismic/geophysical operations on the Subleased Premises. CNR shall conduct its scismic/geophysical operations where CNR deems reasonable and necessary on the Subleased Premises, including adjacent lands where CNR acquires the necessary rights to do so, as to determine if the lands are prospective for vil and/or gas exploration. O perations conducted by CNR or independent contractors hired by CNR shall be at CNR's sole risk, cost and expense. The methods and equipment utilized in these operations shall be the usual and customary methods and equipment generally employed in conducting similar geophysical and/or seismic surveys and investigations. Notwithstanding the forgoing, all data and documents resulting from past and future CNR seismic and/or geophysical surveys shall be provided to COLUMBIA without cost within thirty days (30) days of receipt of the data and documents by CNR in the case of future surveys and within thirty (30) days of the date of this Agreement in the case of past surveys. All such data and documents are subject to the terms of the Confidentiality Agreement between the parties dated March 5, 2004. However, in the event that CNR acquires seismic data from a third party, the availability of such data may be subject to proprietary restrictions with which both COLUMBIA and CNR shall comply; provided that CNR shall, in such event, seek the consent of such third party to release the seismic data to COLUMBIA.

At least one (1) week prior to conducting its operations, C NR shall a dviso the COLUMBIA Operations Team Leader in writing of its intent to begin its seismic/geophysical operations setting forth the starting date and the approximate location of such operations. The Columbia Operations Team Leader, Scott S. Polen, can be reached as follows:

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Address: Scott S. Polen

Tourn Leader, Field Services

Columbia Gas Transmission Corporation

70 Majorsville Road West Finley, PA 15377

Office Phone No: (724) 428-3503

Fax No: (724) 428-4816

CNR agrees that in the event of seismic testing activity, no shot will be permitted (1) on COLUMBIA rights-of-way; or (2) closer than twenty-five (25) feet from a COLUMBIA pipeline or (3) within three hundred (300) feet of any COLUMBIA well unless a blasting plan is submitted and approved in advance for evaluation.

<u>DAMAGES</u>: CNR will remove unnecessary equipment and reclaim disturbed lands at the completion of activities and CNR agrees to repair or pay the actual cost to repair any damage caused by CNR within ninety (90) days of the damage occurring.

COLUMBIA'S RIGHT TO PURCHASE CNR'S WELLS: Prior to plugging and abandoning a dry hole well(s) when CNR determines, at its discretion, that CNR does not have commercially producible reserves drilled in or near the Subleased Premises, CNR shall give written notice of its proposed action and COLUMBIA shall have the right, but not the obligation, to purchase the well(s) at CNR's net salvage value.

COLUMBIA will have twenty-four (24) hours from and after actual notice of any well to be plugged and ahandoned to COLUMBIA'S Storage Manager, Engineering Services Department, to make a decision to purchase the well(s) when a drilling rig is on the site, and thirty (30) days from and after written notice to COLUMBIA to make a decision if there is no drilling rig on the site. If COLUMBIA elects to purchase any well(s), CNR will assign: (1) all rights CNR has to the well bore, and (2) any and all appurtenances COLUMBIA may elect to obtain from CNR.

Columbia agrees that its right to purchase a well is subject to the purchase rights of a party owning a working interest in the well if said party's purchase rights are included in the party's prior agreement with CNR. In the event any party owning such working interest purchases a ny well from CNR pursuant to this paragraph, such party shall assume CNR's obligations to provide COLUMBIA notice and the right to purchase such wells.

CHANGE IN OWNERSHIP: CNR shall not be bound by any change in the ownership of this Sublease Agreement until furnished with such documentation as CNR may reasonably require. Pending the receipt of documentation, CNR may elect to either continue to make or withhold payments as if such a change has not occurred. In addition, COLUMBIA shall forward a copy of such documentation to CNR.

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The insurance policies shall provide for thirty (30) days prior written notice to be given to COLUMBIA in the event coverage is substantially changed, canceled or non-renewed.

WORKERS' COMPENSATION INSURANCE: CNR shall provide a policy complying with the requirements of the laws of the jurisdiction in which any work by CNR or its agents will be performed, covering all employees of CNR. Employer's Liability coverage with limits of liability of not less than One Million (\$1,000,000.00) for each accident or illness shall be included.

GENERAL LIABILITY INSURANCE: CNR shall provide a policy issued to, and covering liability imposed upon CNR with respect to all activities to be performed on the Subleased Premises and all obligations assumed by CNR under the terms of this Sublease Agreement. COLUMBIA is to be named as an additional insured with respect to all activities to be performed on the Subleased Premises, and the policy shall contain a waiver of subrogation against COLUMBIA, its employees and agents. Coverage under this policy or policies shall have limits of liability of not less than Ten Million Dollars (\$10,000,000) per occurrence, combined single limit for bodily injury (including disease or death), personal injury and property damage (including loss or use) liability

SURRENDER: CNR may surrender and cancel this Sublease Agreement as to all or any part of the Subleases by recording a Surrender of Sublease, and if a partial surrender, the Annual Rental provided in the Annual Rental clause shall be reduced in direct proportion to the acreage surrendered. A copy of the Surrender shall be promptly provided to COLUMBIA.

ASSIGNMENTS: This Sublease Agreement may not be assigned in whole or in part without the express written consent of COLUMBIA, said consent not to be unreasonably withheld; provided, however, that COLUMBIA's consent shall not be required in those cases where CNR desires to dispose of its interests by merger or by sale of all or substantially all of its oil and gas assets to any party, or by transfer of fifty percent or less of its working interest in a portion of the Sublease Agreement pursuant to a joint operating agreement under which CNR is operator. CNR agrees that it will not voluntarily relinquish its rights as operator under any such joint operating agreement without the express written consent of COLUMBIA; provided, however that the joint operating agreement will govern any nonvoluntary relinquishment of operatorship and COLUMBIA's consent will not be necessary.

<u>COMPLIANCE WITH LEASE PROVISIONS</u>: CNR hereby a grees to comply with all provisions contained in the COLUMBIA Leases herein sublet. In the event of conflict between the provisions of this Sublease Agreement and the COLUMBIA Leases herein sublet, the provisions of the COLUMBIA Leases shall control.

ACCESS TO TITLE RECORDS: COLUMBIA agrees to cooperate with CNR in good faith to allow CNR reasonable access, upon request, to non-privileged and non-confidential title abstracts, if any, pertaining to the Subleased Premises and non-privileged and non-confidential records maintained by COLUMBIA in the ordinary

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WV Department of Environmental Protection

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course of business which are necessary to adequately inform CNR of the status of title to the Subleased Premises.

ENTIRE CONTRACT: The entire agreement between COLUMBIA and CNR is embodied herein. No oral warranties, representations, or promises have been made or relied upon by either party as an inducement to or modification of this Sublease Agreement.

<u>AMENDMENTS</u>: Any amendments to this Sublease Agreement shall be in writing and signed by duly authorized representatives of both parties.

SUCCESSORS: The terms and provisions of this A greement shall be binding upon and inure to the benefit of the parties hereto, their successors, assigns, personal representatives and heirs, agents, affiliates, and any other party performing operations pursuant to this Agreement in partnership with or in association with CNR or at the direction of CNR.

IN WITNESS WHEREOF, the Parties hereto have executed and delivered this Agreement as of the day and year first above written.

COLUMBIA GAS TRANSMISSION CORPORATION

ву: <u>Vиши Уши</u> Краши

Name: Sheree Parks Downey

its: Manager, Field Services

COLUMBIA NATURAL RESOURCES, LLC

Name: SHAWN E. CAS

118: VICE PERSIDENT ___.

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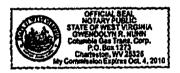
STATE OF WEST VIRGINIA COUNTY OF KANAWHA, TO-WIT:

I, Gwen Nunn, a Notary Public of said County, do certify that Sheree Parks Downey, Manager of Columbia Gas Transmission Corp., who signed the writing hereto annexed, bearing date as of the Add day of Splenber, 2004, for Columbia Gas Transmission, has this day in my said County, before me, acknowledged the same to be the act and deed of said corporation.

Given under my hand this 2 day of September, 2004.

My commission expires: October 4, 2004.

State and County



STATE OF WEST VIRGINIA COUNTY OF Kangusha TO-WIT:

1. State Beine a Notary Public of said County, do certify that Shaunt for Columbia Natural Resources, LLC, who signed the Witing hereto annexed, bearing date as of the Atla day of Septimber 2004, for Columbia Natural Resources, LLC, has this day in my said County, before me, acknowledged the same to be the act and deed of said company.

Given under my hand this and day of Gratember 2004.
My commission expires: 47 and 14, 2005

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Notary Public in and for said State and County

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		1		1	Exemples		Digitali		Recording
ane No.	Suffis	Lessor	_ Farm	Lease Pale	Date	ASDA	Immilie	State Marshall	Bost/Po.
3002148	000	Wm. Mems Howard et un	Wheeling Natural Gas Cu	261803	5.6/1623	108	Liberty	w	117/120
3002160	<u></u>	V. A. Watton et us	Wheeling Hattral Qas Co	6/13/1904	8/13/1974	136	Liberty	Maranatti WV	117/110
30072161	000	LOCA M. HOUR, OI A	тсо	3/201977	ีกเบล <u>ร</u>	105	Libonty	Marshall	4 <u>50/553</u>
3002176	000	Franta Christian, et an	T L. Dava	1/4/1906	114/1928	30	Liberty	Manshat/ W/	132/551
300218	033	W. J Bother, et al	Wheeling Natural Gas Co	3/23/1908	"3:53\103g"	 	Uberry_	Morstudi VIV	129/221
300219	000	Joseph R. Jones, et us	Wheeling Natural Gas Co	N. 1902	 <u> 4 4</u> 1926 	97	Liberty	Marshall/ VVV	129/199
300220	 	William Herble, et ux	Wheeling Natural Gas Co	6.16.18CB	guenasê Î	- - - - -	Libony	Marshell/	130/245
300222	1 000	John P. Reid, et ut	Wheeling Historia Gas Co.	i 10/8/1900	10/8/1925	i 93	2 Liberty_	Marshall WV	130/28
30022	1	Althed Yumes, et .c.	(Wheeling Natural Gas Co	11/25/1908	11/29/1920	1 14	0 Liberty	Mershou	13692
10022	1 1000	Many Hicks, et at	Wheeling Natural Gas Co	12777.900	12/17/1920	! 1 <u>1 10</u>	6 <u>.1</u> Sperity	Meraneti IVV	120/36
30022	4 <u>2</u> 000	Elijah Aliman et uz	Wheeling Natural Gas Co	12/0/1908	12/9/1928	<u>.</u> 2	is County	Manchell VV	130/43
30022	67 000	jj R. Jones, et us.	Wheeling Hazaral Ges Co	1/2/-810	1127/1830		10 Lapedar _ 	Maretrali WV	132/52
30022	73 coo	George E. Fran, et al	MLGH	G/19/1959	- ยนละอย่อ	, ⊣ !	Liberty	Marenat	326-72
		•	:		•	1	i	Marchal	اں

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LEPSO NO.	Suffia	Feeror	Lesses	Lesse Date	Pale		ewnship	County/ State	Becord!
3302263	<u>000</u>	James M. Rine et a	E C Gestatio.	10/20/1909	10/20/1924	131 <u>L</u>	Derty	Marshall' WV	137/42
3032265	000	George Chambors et ux	Chritish Ou & Gas Co	12/10/1908	12/10/1918		deity	Marakatir WV	13742
3902296	000	J.P. Rend, et si	MLSH	10/16/1919	7/25/1920	80 L	berty	Material/	160/35
3002304	0:00	Lindsey Burlay, et ax	W. C. Dawson	7/24/1502	7/ <u>24/1917</u>	438 <u>;[</u>	berty	Merchall/ W/V	38141
1003568	000	Ota Gordand	Wheeling Historia Ges Co	5/17/1698	<u>5/17/19</u> 03	105 1		Marshab' WV	397186
3002570	000	Thorras Howard, et us	M C. Egbert	7/13/1898	7/13/1910	17714		Marshadi WV	67/63
3002876	<u> </u>	Harry A. Brown, et us	MASH	1/30/1950	57/1990	57 C		Indiana/ PA	391/30
3002681		Whey Lowe, et al	J L Fisher	2/23/1903	2/23/1908	104 U		Maretest/ WV	103/38
3003920	000	F.D. Emery, et ux	Wheeling Netural Gas Co	B/13/19:2	6:13/1917	50 11		Manhair VVV	132/44
2001736	000	W H Loper, et us	Wreeling Natural Gas Co	<u>- 8/14/19</u> 12	6/20/1923	104 (1		Morehall' WV	133/40
3604830	999	W C F.sh, et.ex	Vinening Nature Gas Co	ำเนลายาว	1/20/1919	<u> </u>		Mershall/ WV	146-39
3004631	000	W C Fish, et as	White ing Hatural Gas Co	11/1R(B13	1/20/1919	<u>64 Lu</u>		Manshaur WV	140-707
3035130	000	P. L. Reid, et us	MLSH	*1/13/ <u>1914</u>	11/13/1924	_ 100 <u>L2</u>		Marshall/ VVV	143/246
3006443 0	2000	A L Evens et us	Y/hexing Natural Gas Co	416/1915	56/1930	80jLA		Mounten	144/901
3303450	<u> </u>	Louise A. Pyles, of vir	Wheelero Natura Gas Co	3/2/1915	9/13/1920	183 U:		Morshald WV	144/494
3005588	100	Many J. Riggs, woow, et al.	Wheeling Natural Gas Co	34/1915	B/5/1925	40,1±		Merahatir W	139/324 164/161
3005766 0	00	Hope Reig, single	WL8H	4/26/197:	4/28/1981	115 LO		Varshati .	421/39

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		<u> </u>	<u> </u>	!	Expiration			County	Resenting
Lesso No.	Suffix		Lersen	Lease Date	Date	Actor	Isomable	State	Book Pa.
3006170	. <u>060</u>	J P Reig, et al	MEH	ารนอนองล์	15น 2 .1819์	120	l Derty	Marshall WV	147/440
3008537	600	J. H. Teogarden, et ux	MLBH	6/31/1917	8/4/1822	100	Liberty	Mershell/	150/218
3006843	0000	J. G. Grey et at	\$41,814	1/19/1618	2527,010	<u>14</u>	Liberty	Marshall/ VW	150/658
3017157	000	Elizabeth Blad, widow	MLSH	10/19/1934	11,611938	100	Proctor	Weize,	29A/355
3018340	000	Rachal Yester, et al	MISH	2/6/1937	4/10/1947	_40	Liberty	Marshadi WV (Welzeli	203/457
3618538	000	Raton Montgomery, et ux	MESH	10/7/1037	11/12/1941	40	Proster	W	324/198
3018500	000	Mary G. Hohman, widow	MISH	3/12/1964	3/1 <u>2/1974</u>	187	Proctor	Wetred	48/120
301879	000	Harry E. Hoffman, et al	MLAH	' - 4/16/1938	7/1/1943	 _ <u>ss</u>	Liberty	Marshall/ WV	209/184
301881	000	I, D. Frenkön, et ux	MLEH	\$191938 	6/3/1948	100	1 iberty	Marshall WV	209/188
301951	1000	Mane Howard, et al	мавн	11/7/1963	113041853		Liberty	Moranati WV	363/367
	:		<u> </u>	1		i		1	
301970	000	Frank J Estep, et al	auren	10/19/1960	<u> </u> <u> 182897</u> 1	l , 21	Proctor	Wetzoa	4447250
302024	5 000	D Frankfir, et al	MLSH	<u>5/31/196</u> 1	11/2/19/1	2	Liberty	Marshall WV	342748
302033	6000	Security Trust Company	MLSH	12/1 <u>2/1961</u>	1/5/1972	5	Liberty	Morshall WV	354/35
302063	8,000	Joseph J. Wagner, AIF, et al	MLSH	12/4/1902	1/12/1973	<u> </u>	5 Proctor	Wetsey	. 47A/218
302103	T' '	Russell Gilbert, et al	MLBH	4/3/1903	4/13/1973		Proctor	Westel	47A/373
302119	2 000	F E Buchner, single	MLBH	11/7/1983	4/26/1073	<u> </u> 2	9 Proctor	Welter	478/190

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WV Department of Environmental Protection

rase No.	Buffix	Leesar	Lenne	Lease Date	Excitation RMs	Acres	<u>District/</u> <u>Township</u>	County/	Book/P
			:				;		
	j			i	;			ļ	: !
	!	•							,
<u>332119</u> 3	000	F. E. Buchner single	NI SH	1/7/1963	4/26/1973	258	Proctor	Morror.	47A/20
		•						!	
	•			! :	i				
3021437	000	Reymond Burge, et al	M.SH	12/4/1955	4/20/1970	50	Liberty	Warshall WV	328/51
	!	!		! : :					
3021451	_000 _	Crezen's Savings & Lean Co	MLSH	3/22/1805	5-24/1975	58	Liberty	Manshati' W	3/6/27
*****								Marshat!	
3021458	, DG0	Sadie M. Spragg, wdow	MLEH	11/23/1959	1/22/1070	82	Liberty	w	326-61
302:408	000	Olivo P. Prendergast, widow	МЕВН	0:5/1985	U18/1976	42.	Liberry	Marsha@ VW	375/41
3321735	<u>00</u> 0	F B. Street, et us	MAIM	10/18/1960	1/25/1971	10	Proctor	AMITGA AMITGA	448/21
3C21780	000	Richard E Watter, et al	MLEH	7/1/1983	.7!1/1973	57	Liberty	Marshall/ WV	383/19
3071817	 - 	E. J. Gump, et ux	MLSH	1/31/1968	6/15/1976	54.	Cameron	! Marsha];' WV	351/249
3021902	000	Ocia Neely, divorced	Halam	2/27/1951	9/12/19/1			Marshaly	
	_				· · · · · · · · · · · · · · · · · · ·		Meade	Manuser	342/30
3026356	cot	Charenco Yoho, et ux	MLSH	1/3/1962	2/13/19/7	73	Liberty	Wetzey	353/87
3026373		B C Medina stube	ML8H	2/19/1962	3/26/1972	37.	Proctor	Wolzel	45A/28
3026374		B. G. Welgard, angle	MLBH	2/19/1882	3/26/1972	10	<u>roctor</u>	Wotzel	45A/29
3026370	<u>000</u>	Hamid R. Stansberry, widower	MLSH	1/9/1962	2/9/1972	30	Center	Weizer	454/17
3026380	000	Vorr. Stansberry, et ux	MLSH	1/9/1902	2/8/1972	go:		VVCIZEI/	45A/*73

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		k	Leases	1	Date		District/ Township		Book/Pa
	Suffix	<u> </u>		1/9/1067	2/1972	68	Certer	Wessel 1	454349
3026381		Harold H. Stanzberry, widower	MAH	1/1/1982	212/1972	110	Center	Wetze	47A/161
2026383	1	J. H. Pyles, et ur	MALEH	12/27/1981	51. N.1813	143	Certer_	Wolzel	464/157
3026384	-	IV H. Hinkle, et al	шм		2/12/1972	63	Centor	m -	4547983
	i—–	Georga N. Yoho, exclosivar	MIGH	 <u> 1/3/1962</u>	31311613	103	Liberty	Marehell/	353/91
202836	Ī	IJ. H. Pyles, et us	MILEH		บา <u>เกเล</u> นร์	¦ } ⁴⁴	; Sileberiy	interestation i	353/70
302038	1	lire B. Pytes, eldow	MLAIL	\$/25/1970	6594.890	1 <u> </u>	Liberty	Manerall WV	401/433
302538	T	Carence Yorks, et un	MLGH	1/2/1962	2/13/19/2	! !—4	 6 <u> 13001</u> 07 _	Marsholf	353/95
302631		Clarence Yono, et ux	INTLESS	11/3/1805	ا <u>21972 موالد</u>	. <u></u>	2 Liberty	IMA Montavery	333-99
		George N Yoho widower	MEN	11/3/1982	2/13/1972	2	Proctori 0 Liberty	A lessessor	_22V103
	83'000 85'000	George N. Yoho, widower	Mana	2m3/1982	2)13/1962	·	o Proctor		39A/463
· · · ·	84,000	George N Yohn widower	MULLI	1/3/1962	Suzusis	╬	05 Proctor	<u> wv</u>	454/238
	250 000	Rhods McDowell, et a'	MALES	1/22/1882	31(0/1972	, '	39 Words	Marsh33	35440
T -	!	George N. Yoho, of a	MLSH	2/13/1952	31.3.1023	L	32 <u> Loo</u> gy	Moretel	1! <u>272</u> 1174
\ \	400 000	O C York, in us	MALAH	1401682	2/20/1977	+	ool Produ	- WOLEN	45A(200
h —	402,000	George N. Yoho, et al	Han	V3V1962	2/19/107	+	75 Procto	Wester	45A/293
- -	403,000	O. C. Yoho, et ux	MIRH	11401882	2/20/197	· •	10 Procto	Welco	45A/202
1	5404;000	O. C. Yono, et ux	MISH _	<u>1,4/1982</u>	- '5 <u>'3C'</u> 197	<u>.</u> .+	155;Procto	i	45A/235
	0421 000	Hazers H. Fasz, et et	iwrni !	1371171861]avi4nyi	² <u>.</u>	185 Libert	· • • • • • • • • • • • • • • • • • • •	343/215
Γ	0422:000	Hazen H. Fair et al	IMAH	12/11/1981	3/14/197	<u>, l</u>	140 1.000	, IVN	353/07

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Expiration District County Recording Lease No. Suffia Date Acres Township State Lessor Lessee Book/Pa. Losse Date Marshall' 3026425 000 Raymond Burge et ux M.AH 1/18/1082 3/19/1972 wv 353/121 36 Liberty Marsheav 3020424 000 Ray Lough, et at MLSH 2/19/1952 3/19/1962 w 144 Liberty 342/297 .Marshat/ 3026425 000 w Flay Lough, et at MLSH 17811810 11/9:1980 68 Liberty 42'/1 Marshati 124 Liberty 3026426 000 David Bonar, et at ML&H 371971567 w 1/31/1957 209/354 Wetzel 3026427:000 Kerms W. Mason, et al MLBH 2/14/1982 2/28/1972 11-34 Center w 46A/407 Wetzel 3025429 DOG Elds O Miller, et al MLSH 1/9/1982 2/27:1972 45A/176 93 Center Wetze 3026430 000 Estel Mater, et al 1/9/1962 MERK 2/25/1972 86 Center 47A/171 Wetzel 3026431 000 Elits O. Miller, et un MLBH 1/9/1662 2/27/1072 40 Center 40A/317 Wetel 3026432 000 ETH O METER, et al. MLAH 1/0/1902 2/27/1972 45A/163 20 Center Victor 3026433 000 Kermit W. Mason, et al MEAH 2/14/1902 2/28/1072 37 (Conter W 48A'128 Wetzel 3025434 D00 ERIS O Milter, et al MLAH 1/9/1962 2/2//196/ BB Center w 48A/187 **Vvetzel** 3026455 000 James J. Postewalt, et al ML&H 1/17/1982 2/25/1972 66 Proctor w 45A/255 3026436 000 F. C. Emph et al. MLAIM 2/1/1982 2/27/1972 93 Proctor :WV 47A48 Wated 3020437:000 Ella Postethwan widow WESH 2:1/1962 2/25/1972 132 Proctor w. 45A/231 Marshell 3328439 000 Mildred Pyle Strausser, et ve MIEH 12/28/1981 2/25/1977 363/88 73 66 Liberty Victor 3020440 005 Carrie E. Nacly, divorced MLBH 8/10/1970 125 5 Conter w Pilousso 52A/321 Welter 2/28/1972 3028441 000 Test A. Hasty, et us MISH 1/17/1982 w 29.5 Proctor 45A/228 Marshall 3026443 000 MLAH 1/22/1982 w Samh Jane Kingree, of vir 3/10/1972 120 Liberty 353/220 Marshall! 3026444 000 ML&H 3/72/1957 3/10/1072 W Sarah Jane King:ee et vir 35 Liberty 353/273 Maranativ 3026445 000 Sereh Jane Kingree, ot vir MEH 3/32/1962 3/10/1872 60 Liberty w 353/277 :Marshall/ Salah Jane Kingree, e; vir 2028448 000 IM1 BH 3/22/1962 3/10/1972 iw 13 LOSTO 353.774

VICTORY STORAGE

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BExhibit A to Victory Bublease #18

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Lersa Ho.	<u>Suffix</u>	Lessor	Lesus	Leave Date	Date	Acres	Township	State	BeckPe.
-					•				1
				:				Manahasi	
3078448	000	Sarah Jane Kingros, di vir	MLSH	3-22/1962	3110/1972	- 54	Liberty	Watter.	323/350
			ļ.,, .	147a D47	3/2//1972	170	Proctor	WV	45A/297
3026451	000	trez Durig, et vir	MIEH	1/17/1902	25111014	120			
		. .			•		ļ	Marshaff	! [
3026453	nna	O. E. Burge, et ux	MEH	2/14/1962	45/1977	85	Liberty	w	353/125
		5. F. 55. 54. 54. 5.	1			i .		i——	
	!	ľ	i		ì	ı		Marsratt	
3078495	000	Clarence Hohman, et ux	MLSH	215/962	3/6/19/2	92	Mado	W	353/129
		T .		:	!	١		Wetzey	l l
30 <u>20457</u>	000	Obs Scoreors, et al.	44.811	2/1/1982	3/1/1972	12.4	Proctor	.WV	45A/224
l	1		th die	3/M952	3/8/1062	! **	Proctor	w	30A/499
3026458	COD	One Simmons, of al	MLCh	301924				Worzel	
3026459		Otio Simmons, et al	MLAH	3/8/1992	3/8/1962	75	Proctor	w	39A4198
3020432		On on one						Wetzel	1
3026480	000	Harold S. Simmons, et un	, salt also	U31/196Z	38/1972	DK	Proctor	W	45A/220
	-		-					Weteel	
3026483	000	Austin Miller et el	MLSH	2/0/1952	2/76/1972		Proctor	Weizeu	450472
1		.		17/27/1970	7/27/1880	. 444	Proctor	W	52A/203
3020484	000	Obs Simmons, et al	MLSH	1//2/19/0	172771000	, ::		Wetzel	
3026467		Joseph S. Doptor, et ux	MLEH	2/12/1902	3/10/1972	l e:	Proctor	w	45A/300
3020						;		Weize	
302647	L:000	Ambrose Statt, et et	MLSH	2/1/1962	3/10/1972	4	Proctor	w	48AV290
	 		1		i	1 .	.i	Vietzal	1
302647	sicoo	Cora A. Schebehood, widow	MUSH	3/13/1085	311341812	- 3	Proctor	Webset	40A/49
1				2/15/1862	3/12/1972	١.,	Proctor	w	45A/251
302647	1,000	Attest W. Herrick, et al.	MLAH	12/13/1002	13/2/4/4		/ FIGURE	Wester	
302047	1000	Glen M. Hentick, et vs.	MLSH	2/13/1962	3/13/:972	19	4 Proctor	w	458/248
		Control Inches		7.2322		1	-		•
į.	į	1	!		i	1	į.	Marshaf	
302046	3:000	Hazel Core Teaganten, et vir	NLSH	3/20/1932	3/20/1962	. 10	D Liberty	im	272/209
1	i		}	1			1	:04	.!
1		· •			3/5/1972		6 Liberty	Marshall VAV	353/133
202041	4 000	R. W. Evens, 42 et	MEN .	2/19/1962			O COCH	V/cze/	303.33
	2 000	Frod Estep, et al	MLSH	2/9/1002	31191973	١,	3 Proctor	w '	464/381
302046	1,000	. Fried East Cont.					-	Wetrey	1
332648	alaco	Joseph C. Yhayand, et al	WLSH	3/7/1062	3/18/1967		1 Proctor	w	45A/377
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2 222			:	•			Wetzel	
302844	9,000	Leonard Weicard single	M 8H	2/20/1902	3/10/1972	و: . بر	O Procipi	W	+ 45A/107
	1		1	L. CHILDRE	-		e	AN Metres	444777
30264	10 020	Joseph C. Weigend, et al	MLSH	3/7:1982	3181 <u>667</u>	· '	S.Proces	Vielrat	45A/373
	24. 86s	ilda Basa er ti	MLSH	2/20/1962	3121972		8 Proctor	W	458/423
307641		ida Bese, et al	in the second	:	. =			Wetzev	
30254	H ¹ C00	Edward V Blatt clist	MLBH	2/20/1982	3/16/196/	, "	2 Proctor	iw	45A/310

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WV Department of Environmental Protection

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Lease No.	(Buffia	Lessor	Leasee	Lesse Date	Expiration Date	District Acres Township	County/	Recording Book/Pa
3028498	200			·			Wotte	
	 -	F. S. Styort, et ux.	MLSH	3/1/1852	13/16/19/2	140 Proctor	Wetzer	45A-3/0
3026407	000	Fred Estep single	Wrah	2/8/1962	J/16/1972	6 Proctor	W	45A:241
3026498	30 0	Fromk J. Estep et al	MLSH	2/8/1952	3/16/:072	30 Proctor	Wetres	45A/217
3028500	369	George N Yoho, widower	iM-8H	3/19/1852	3/19/1962	126 Liberty	Marshall/ WV	272/210
3026503	000	Hobson Teagardan, et al	Ман	2/25/1852	2/25/1902	150 Liberty	Marshall WV	272/222
3026504	000	Ray C. Herman, et al	мьян	1/10/1982	3/8/1972	76 Proctor	Wetzel/ WV	45A/314
3026507	630	Frank J Estep, et a:	MLSH	2/2/1982	3484815	25 Proctor	Welten,	45A/214
3026500	630	Lovina Clark, et al	MLEH	3/16/1982	4/19/19/2	34 Liberty	Marshall WV	353/232
3026510	000	Jack Burzard, et el	*TCO	15;1\1663 !	12/1/2023	50 LEERY	Morshallr WV	566/318
3026511	000	L. F. Earnest, et et	MLBH	. nin. 685	4/23/1972	SE LIBERY	Westelf Westelf	353/205
3026512	000	B. G. Weigand, single	Mah	2/10/1982	3/20/1972	38 Proctor	MACTON	46A/317
3026515	000	B. G. Weigand, et et	IMOLBH	2/10/1002	2/29/1972	78 Meses	Morehelf WV Westelf	3 <u>\$</u> 3/137
3336216		Russell Gident, et ux	:ML&H	3/14/1052	43/1972	32 Proctor	W	458,427
3028517	000	Charles E Mider, et al	MEN	3/9/1062	4/2/19/2	40 Proctor	Morren.	458/431
3026529		T. J. Yoho, et al	.M. BH	1/3/1902	3/10/1972	100 Liberry	Marshall WV Wetzell	353/141
3028533	000	G. T. Durig, et a	MLSH	1/4/1982	3/29/1972	77 Proctor	Wetzel	45A/442
3026531	000	Botha M. Kelley, et al	TCO	5/8/1994	6/8/2004	6/-Proctor	Wetzer	. <u>?!\/?</u> .
3026532	000	Albert Kelley, et al	изм	3/14/1982	3/4/1072	129 Proctor	MA MERGS	45AV448
3028533	ööö	H. G. Macr. of th	Mari	3/14/1952	4/6/1072	141 Meade	Marshall IVV	353/240
3036338	<u>000</u>	Estates of Joseph Shiben, etal	, ratan	2/20/1962	4/10/1972	38-34 Proctor	Welze!	45A/451
3026537	000	Catherine L Baker single	M8 BH	3/22/1962	4/18/1972	125 Manue	Marshall: WV	353/244

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#139 No.	Buffitz	Leasor	Lensve	Lease Date	Excitation		District/ Lownship	County	Recording Book (Pg.
3026539	000	Joseph Mr. Estap, 61 Al	MLSH	112711970	7/27/1980	40	Proctor	MATZer,	52A/259
3026540		Estates of Joseph Shiben, etal	MLBH	2/20/1982	4/5/1672	35	Proctor	Wetzer	454/465
- main 17								Marshatz	!
3028541	<u>600</u>	Effe M Wattace, of d	MARH	49/1962	באפורניק.		Liberty	Weball	253761
3026545	000 1	George N. Yero, et al	MIAH	1/3/1902	3/19 <u>/1972</u>	35	Proctor	Watzell	45A/321
3026546	000	George H. Yoho, et al	MLSH	1/3/1902	3/18/1972	6 <u>e</u>	Proctor	Wortzey	45A/325
3026547	, 600	George N. Yor's, et al	ML8H	3/18/1952	3/19/1963	30	Proctor	w	434/119
3026548	000	George N. Yoho, et al	IMT8H	[1/3/1962	<u> 2191072</u>	39	Proctor	Wetzol'	45A/329
3026556	000	T, J Yoho, et al	MI 231	43/1 <u>662</u>	มา <u>ตาย72</u>	30	Liberty	Marchael W	353/145
3028531		Charles W. Carr, et un	Hrzu	3/22/1962	4/25/1972	 140	Meade	W W	<u> 333/2</u> 48
302858	900	June Mockey, et al	мелн	4/2/1952	 - 6/2/1962	<u> </u> 	Liberty	Marshall/	<u>2</u> 722241
302656	1000	D.E. Burge et al	MA.SH	3/29/1982	931/1972	! 199	Liberty	Warshot/	353/238
302656	5 000	Altraca Pyles, of vit	MLBIS	3/13/1682	4/29/19/7	2	Liberty	W	3 <u>53/571</u>
302657	2 000	Clas G. Howard, et ver	MAN _	4/30/1952	5/15/1962	20	Fiberry	Worseli WV:	272/250
302637	3 000	Zorus Taylor, widow	WITH -	45/1987	_ <u>:5:5:19</u> 72 _	<u> </u>	5 Proctor	Weize	458/475
302038	6 200	Tacas Jackson, widow	MA BH	4/20/1962	S181972		8 Proutor	w	454/479
302050	7 000	Andrew Stein, widower	MLSH	9494983	916(1902	13	al Mando	Marehali hwy	<u> 272/76</u> 5
- 303 <u>641</u>	500	Page Yoho, et al	MLSH	4/28/1962	ลับลังเอเรี	_ ; 13	3 Manda	Marsha6i 	: 380/232
30265	9 <u>000</u>	James P. Rust, et un	MR.SH	8/1/1 <u>952</u>	6'16 <u>'1972</u>	+ 4	ojumty.	Mershot. WV	353:363
30265	50 <u>000</u>	Asmes P. Red et us	MLAH	E-1/1802	616/1 <u>972</u>	_ ,	Liberty	Maranell WV Welzer	1 3537387
30268	000	C F Herman, et ux	MAN	3/1/1962	·5/27/1972	<u> </u>	00 Proctor	·w	1 45A/367

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Lease No.	Suffix	Lessor	Losess	Lease Date	Cate			State	Recording Book/P.a.
3026601	200	Witard C. Homen, single	MLSH	71/1803	5/27/1872	4C	Proctor	Weizek Weizek	45/459
3036803	300	Notson M. Richards, et us.	WT#H	5/2/1962	<u>อนอน่อนร</u>	.04	Licenty	Marshalli W Watzeli	333463
3036904	oco	Curtis E. Taytur, et al	ML6H	4/5/1952	1972 هيڪ	<u>so</u>	Proctor	WW	46A/327
3026523	ōċo	Russell G. Simmors, et al	MLSH	5/7/1962	6/12/1972	51	Carter	Wetzell	46A/322
3026624	000	Clyde F Miler, et al	ML8H	3/22/1982	4/30/1972	14	Conto	Welzel	45A/482
3C26625	000	Clyde E. M.Ser, et al	MLBII	372/1952	4307873	. 44	Center	IW.	43A/457
3020647	200	Jessie F. Bertsforu, et al	Wreh	5/15/1962	6/36/19/2	17	r psil	Marshall' WV Vietzeli	387393
3026680	000	Codne Judy Scrasfer, wedow	MLEH	5/26/1962	6/14/1972	25	Proctor	WV Water	46A/411
3026681	· .	Edward A. Neuman et el	ML&H	8/28/1963	7/3/1972	150	Proctor	Wetrel	47A/67
3026698	000	Withort A. Höhman, et uz	MLEH	8/13/1962	5/20/1967	15	Proctor	WV Univan	46A/314
3029708	000(0)	MyTE GENET ET LE	MISH	1/10/1958	N/A	: - 2 1.	Meado	w	3363.4
3020714	656	Lee E. McCleary, or at	ML&H	7/23/1962	9/35/18/2	500	Liberty	Marshall WV Wotzeli	363/465
3026728	000	J.O. Rust, et al	MLSH	4/26/1962	0/26/1072	18	Proctor	WV	47A/58
3026729	òòó	mabel Fowler, et al	ML&H	9/29/1962	10/10/1972	13	Liberty	Marshall/ W/	361:573
3026731	: <u> </u> 000	Olive Prendergasi, widow	MLSH	11/5/1952	10/17/1972	58	Liberly	Marshadi WV	368/341
3026745	600	Thomas Lamont Buzzerd et el	MLSH	\$/14/1067	7 <i>/2/</i> 1972	104	Liberty	Marchell WV	353/450
3026746	000	Elsa Welling, at al	WEBI	9r11/1962	10\52\16\5	138	Liberty	Maishat/ WV	350/2:9
3026747	,	Agnes Prendergast, widow	WISH	1/15/:884	2/5/1 <u>974</u>	72	Liberty .	Marshall/ Marshall/	371(10
3026751		Mrd E Gibert et us	MLBI	3.10.1026	NEA	<u> </u>	Moade .	Welzen	329/214
3026/58		J D Rush, et a.	wreii	4/26/1962	0/25/1972	50	Proctor	Wotzeli	.47A/113
3026759	000	C.T White, et al	MLSH	6/15/1682	61-341815	53	Proctor	w	47A/63

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			!		Expiration	District	County Record	
nase No.	Buffly .	Lessor	Legate	Lossa Dire	. <mark>Ωεξο </mark>	Acres Invostio	State Book/P	╩┤
		1					Marshalf	1
3026760	000	Cora Goaney, et al	MILES	6/10/1960	10/30/1070	156 Liberty	W 342/26	* -
		<u> </u>	T :	i	1 (İ	Mananew	
3076760		G. W. Mainews, et as	ML8H	67/1902	7/26/1972	49 Liberty	<u>w 35341</u>	18_
- 3010104	 -	1	1		1		Marshall	
			MLSH	7/2/1954	7/3/1964	91.05 Liberry	W 20010	00
3038803	000	Entre IT Shudes Co C .		1412 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			Jan	
	•		ļ	9/18/1982	11/28/19/2	81 cherty	Manhali 360/21	34
3026807	000	Withur Whickey, et al	inreh	Albulant		i <u></u>		•
			1			- anti-ana	Marahahi	147
3026811	.000	Otne Parnett et al	MLSH	11401825	11/16/1882	SALLOSTY	WV 2723	7'
	T-	1		1	:	:	Marshall :	
302481	2 200	Thomas Lamont Buzzard, et a	MISH	5/14/1962	8/20/1972	170 L berry	W 323.0	151
	- T				1	! :	Marshelf I	
	1	Married Married and Arm	MILEH	10/2/1982	(2/5/1972	75 Liberty	W 360/2	239
302933	5,000	Harold Koordz, et us					Wetter 47A/1	- 1 0
302087	<u>, 000</u> 0	Jacon Baker, et al	MLSH	10/23/1907	11/21/1972	85 Centar	Wetzel	. 14
	-	Athent F. Estep	WAH	12/6/1902	1/2/1973	3.44 Proctor	W	213
302889	7.000	COURT CAND		<u> </u>	T	Liberty &	Marshall	
	1	li i a man	142311	3737/1983	11/5/1972	: 153 Meade	WV 363	718
303630	9 000	Austro Cerrey of 24			—	<u> </u>		
	į			12/11/1962	2/3/1973	, 12 Liberty	Marshall WV 380/	/345
30269	15 000	Pauline V. Dever, widow	- Fresi	127111002	100 12.10	T-::	(Wetzes	_
20269	17 000	Roy J. Goddard, et al	MLSH	1/8/1983	2/7/1973	172 Proctor	W 47W	7197
·			i	1	ì	1 1	Maryhou!	
	أ	Omer Vitison Bonar, et al	MLSH	11/4/1970	11441960	133 Liberty	WV 411	7/8
30160	31 <u> 000</u>	(i	T	!	(Matshall)	
i			MALAH	12/17/1 982	24/1973	14!Legaty	WV360	/33
70209	73,000	John A McChrisno, of al			1			
1	1	1	1	12/10/1962	 2/27/11973	10,1-5619	'MarstalV VVV 360	33 3
3026	39: 300	Witten II Imple of ut		12/12/1902		. :		- 21
	t	(See 3020953 001 below)	ł	Í	1		Marshalf 186	8/43
3020	53 060	Marriso I. Howard, et al	Guy S. Perterson	2/20/1928	:2/20/1927	1 10C (perif.		243
\	_{{			i	1	1 1	Marshati ,	
3020	956 000 _	Clare Connety	Our B & A D Patterson	6(13/1943	ดาวาเจร	S Tabilit		7725
				1	•	•	Marshadi	
1		Alla Quidey, et at	MLAH	. 214/1953	3/14/1985	4 Liberty		7/39
3070	962 000	AAN Anthal' at a						

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	'nöö .	F. E. Buctiner, et al	MLAH			_ Arres	Jownship	State	BoptiPo
3020967	000	i L		1/7/1965		. 120		Welzel	47A/275
1		Herbert Mathews el a	Lucii	1	,				
3020978	<u></u>	Raymond D. Harton, e		2/5/1963	:3/14/1673	40		Astenati NV	361/483
3027152	l l	Macedon a Methodist Episcopai Church Tru		\$/20/197 <u>0</u>	\$/20/198n	1 10'		Villed/	1
- 1.	1	The street live	igie - 'Wroll	7/3/1953	0/25/:073			ASCERT.	₹ <u>25</u> 15.56 à
302/261 0	>o .\	Water Moogonir et n	T 1		A147.012	19		<u>~</u> _	48A-08
3027296 O	F		<u> : ;иівн</u>		3/2/1977		ļ,	Market !	 i
- 1		Wales Herman, Stroke	JML6H		- 221077	1.45-1/31:	Per IV	V	381/385
3037339 01	OLDI. TH	larry Ebert single		ˈṣri\u^a	8-27/1873	910	M TEN	reer i	430.00
3027440100	1	J Yoho, et ux	- rath		'N/A	18 P		erzew/	47 <u>A479</u>
	_i `.		<u>'estani</u>	- 10/15/1866		f i	ive	trei !	
3027441 00		F. Herrick, single	LARH	,	7/1 <u>0/1975</u>	<u>יין 20ן יין 20ן יין </u>	potor W	<i>,</i> 1	48A/461
3027442 00:	! _ <u> </u> E	ward Bart et at		10/19/1950	<u>4174971</u>	<u>131 P</u>	octor IAV	ree	
3027444 000	*		- MI SH		_4/17/1971	150,Pm		tzel	444/210
3027445 000		Louisa Rose Els Qu	MEN MISH	2/3/1966	7/:2/19/6	7			144220
24:24:000	· 'ijaā	Oray, et at	MLAH	,		<u>30C</u> e	mer - IW	,	494/157
027447.000	i_			<u>15/5/1960</u>	- 13/13/1870	53 Pro	ctor WV	- FEET	4441
		Ear McDowell of on	HNG	i America	1	i	_ 7 _		<u></u> .
27448 000	<u>.</u>		——————————————————————————————————————	4/17/18:0	4/17/1978	198 440	Mari WV		147/321
		A Vain time	HI/20	19/17/1916		•	Van		
G27451 200	Win	am Scheler, widower	IING	<u>- :2005</u>	417/1926	160;Mo	de wv		147/207
027494,000		Jannson, et ux		111441836	4/17/1908	75 Proc	Wetz	## : `	
1			Englis Henren	4/9/1916	4/9/1926			<u>-</u> ا -ري	CA460
274601000	<u>.</u> _ <u>.</u> _ o	Logadun, et at	!_	1	·	67 Ceril	"	4	M248
27481 000	Mary or at	Louise Stage Atholics	Thomas D Constru	4/17/19:6	4/17/1926	l	Januar	أيهي	ı
- <u>-</u>	. !	·· · · · ·	" WITEN	17/13/1905	·	8. F00.	W.	<u> 1</u>	47/292
77533,00C	ha		•		1/29/1976	_17 Cente	1 1W	•	19A7
- 4:		Los Richmond, et au	IM BH	11/6/1963	laa	1	Marsh		
77534,000			1	1	12:7/1973	37 Mead	_ W_	•	3/38:
		Tio Uramend of his	MLSH		!	1	Marah	T -	
27 <u>501,00</u> 0	Cens	Fores, et al	MLEH	;	12/17/1973	36 Moade	. YAY		וקפב
	i		4-4-1	12/70/1963	1/27/19/4	.1 Procto	Wetzel	' _	
7574 000	V/d/a-	If Hinkle, et us	I ML&H	·	- :-				<u>√134</u> .
				1/21/1984	2/24/1574		[Marshall	• •	I

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			, 		Expiration	District	County	Recording
	W-1041-	II asset	Leasee	Lease Date	Date	Acres Township	State	Book/Po.
<u>Lause No.</u>	Buffix.	Lessor	i				Marshall/ WV	272/497
3627578	000	W R. Kincold, ct al	Hank	1/14/1854		10 Liberty	***	110001
3027584	000	Herma R. Yester et al	<u>INTE</u> H	1/15/1984	. <u>322</u> 1974	10 tuenty _	Warshead WV	363/451
3027594	1	i Hide Pell Sinco, et al	Ман	1/15/1 584	2/26/1974	24 Liberty	Mareheli WV	363/435
3027300	1	C. A. Ramsey, et al	MLAH	,12/6/1963	12/7/1973	3 Center .	Wetzel	482487
332739	•	Austie Roamson, widow	MUTH	7/17/1963	8/3/1973	16 Proctor	MA	478476
3027617	1000	Hernit R. Yealer	AR BH	1/15/1984	5/8/1974	314 Liberty	Morshall WV	363/459
302761	i :000	Henri R. Yester	ML&H	1/15/1984	5-8/1974	40 Liberty	VERTENAM NY	; 3634 <u>63</u>
302762	2 000	J. N. Pyles, et al	MLSH.	6/B/1864	ens:1074	10 Liberty	Marshall WV	271/139
302764	1	George N. Yaho, widower	hean	111/20/1903	5/31/1974	! 1 <u>13 LBCTY</u> .	W. Marshay	367/17
332764	5,000	George N. Yaho widower	MLEH	11/26/1983	5/31/1974	142 Liberty	Marehes VAV	357/13
302764	s coo	George N. Yoho	MLBH	5/31/1954	5/31/1964	28 Leseny	Marsho2	299/03
302764	i	George N. Yoho	MLBH		5/31/1964	140 Liberty	Marshah WV	/ 209/56
30276	i	George H. Yoho, widower	M2 8H	รอานอรร	P3111864	54 Liberry	Marshel WV	799/71
1	89 000	'G. M. Earnest, et us	MEAH	,8/30/1954	7/15/1074	:1 Liberty	Marsha	y
	74,000	Nette M Chambers, et al	ML&H	7/8/1964	7/20/1974	7 Libariy	Marshel WV	บ. : 37 บ <u>วิวิ</u>
	<u> </u>	W J. Booker, edus	MLBH	7/22/1970	7/ <u>72</u> 2/1980	ED Liberty	Marsha W	₩ ; <u>491/473</u>
			•		:	Liberty 8		₩ 208/327
302/7	01 600	Raph W Evans, et al	ML&H	<u>619193</u> 4	5/19/1964	225 Carle:	Viewel	
30277	29,000	iture E. Lyon, et al	ML&H	8/9/1984	8/15/1974	53-Cernor	'VV'	48A/109

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55575-11-5-	EEIIO	10000	Lenseo	Lease Date	Date	ESTRE	<u>Tawnshia</u>	State	Book/Pa
3027733	DOC	Irma E. Lyan, et al	HADA	8/5/1984	0/15/:974	60	Liberty	Mars nat/	371/335
	j	•	:			🛥	Liberty	'Wetzet	21.1334
3027744	000	Frod R. Adams, of ux	Mah	.B/17/1964	0/20/1974	ęò	Ceutai	Wetzet	48A/211
3027745	009	Fred R. Adams, et an	MLSH	8/17/1964	8/20/1974	70	Conter	w	48A/237
302/746	000	Fred R. Adams, or ux	ML&I1	B/17/1984	8/20/1974	8	Centur	Weizel/ WV	48AJ207
	[7					Wetzel	•
3027747	000	J. N. Pyica, et ux	MLEH	8.9/1954	8/20/1974	44	Center	<u>w</u>	48A/203
202750	***	Dendelsh Sharehare and						Marshall	
3627759	<u> </u>	Rondolph Chambers et al	ML&H	5/21/1864	6/21/1974	48	Liberty	w	371/135
4547704	***	Numbel Warmer as a			İ			Marchall/	
3027782	080	Harold L. Koontz, et al	ML&H	4/26/1965	&15/1976	15	Finanth	<u>w</u>	375/269
3027773	000	· 'Yathun (i'theebase of al				_		Marshali/	
302/1/3	<u> </u>	Kathsyn Glängham, et al	- Mrsh	9/8/1964	0/15/1974		Froesak	<u>;₩</u>	: <u>371/525</u>
1527702	.000	Josephine F. Faust, et at	МГВН					Marshalli'	475/545
272/:75	بببي	Josephine F. Februar C. a.		111/18/1984	11/16/1974	- 10	Liberty	1	<u> </u>
3027806	i inno	Flore Grettines, et al	I MLBH	11/16/1984	11/15/1974			Marshall' WV	373/581
	•				717107-574		Liberty	Wetzeli	1
3027820	000	Ahon Bruce M.Der, et st	MLSH	10/5/1984	10/10/1974	40	Center	Wetzel	48A/325
3027821	000	Alton Bruce Moer, et al	MLBH	10/5/1964	10/10/1974	70	Center	w	45//332
					•	,	i i	Mershall	
		John D. Providence of all	******		İ.		Liberty &	& Wetzel	
3077832	000	John P Frankton, et al	ML&H	12/10/1964	12/15/1974	30	Center	'W'	48A/375
3027862	000	R. G. Cumpsion, et ux	·MI &H	1.000000				Marshall	
3027002		r. u. company, et ut	· WILDE	12/9/1984	12/20/1974		I berry	:wv	371/586
			•	i !		!		:	
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			.	!			•	Marshalif	l
3027860	:	(C'arence Chambers, et al	MLSH	1/11/1985	2/15/1975	33 77	Liberty		375/184
*****	!			-	1		i	Marshall	!
7051661	.020	Chrence Chembers, et al	ML&H	1/1/1/1885	54241818	53	Liberty	<u>.w</u>	375/154
	<u></u>		48.814		;			Marshali	!
3027862	1000	Clarence Chambers, et al	MAJA	j1/11/1958	2/15/1975	44	Liberty	w	375/149

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Lease No.	Suffix	T01191	Lesses	Learne Date	Date	Астия	Township	State	BooMPa
3027908	:000	 Emer Ressagar, bl ux	MEM	2/2/1965	ַנְיּפָר/ִוע.	2-114	Liberty	Marshell' W	375/189
3027908	035	Elmar Resseger, et ux	MUSH	28:1605		<u>.</u>	'Nibesila ''''	Marenati/ WW Marehaty	376/173
302/945	DOC(LD).	Wante F. Bramer, et a	MLSH	7/6/1959	N/A	97.068	Liberty	w	340/263
3027959	000	J. N. Pyles, et si	MLSH	1/5/1955	-37511964 -	42	Liberty	Marchally	299465
3027960	G00 .	Olda J. Yoho, et al	MLSH	¥16/1955	4/1/1975	122	Liberty	Marshat/ W/	375/211
3027981	000	Okla J Yoro, et el	MLSH	3/15/1965	4/1/1975	ļ 44	Liberty	Marsheld WV	378/215
303803	000	George N. Yorko, et us	Valley Run Oil and Gas Co	1/:01929	ivievosi	<u>107</u>	Liberty &	Marsital/ W	167/516
303802	: 3:000	Goarge N. Yoho, wistower	MORH	B/30/1955	8/33/1965	.37.0	L berty	Warshall/ W/	309/61
302603	, 0000 	Valley Run Oil and Gos Co	MLSH	. erser 1882	G\3-4.1862	<u>.</u>	Liberty	Marshall	209/492
302802	000	: I. R. Crim, et ux	E. H. Currenings & Bros.	issuess:	1/5/1908	120	1 Aberty	Marshall	85/259
302804	3 000	Eone Whatelch, et vis	MLEH	1827 1827	6/30/1975	<u> 5</u>	Liberty	Marstell/ W/	875/223
302616	8 OC0	Vr. J. Booher, et al	MLEH	11/2/1965	1216/1975	! ;	2 Liberty	Marshall IVVV	381/2:7
302023	5 000	W J. Booher, et al	MLSH	<u>:11/2/1905</u>	12/15/1975		O L berry	W	381/204
30253?	5 000	W J Rooher, et al	MC-811	11/2/1965 .	3111976	2	Z rpocut.	Marshall WV	381/231
302638	2 000	James B Whitlatch, et ux	MI SH	11/1/1985	2/7/19/19	i —	5 Liberty	Merehedi WV	281/193
302890	000	T. C. Ploes, et al	S. B. Kelly	2/8/13/13	<u>2/</u> €/1923	13	9 Liberty	Manuful. VVV	148491
302890	11 650	W. H. Loper, et ux	T. L. Clavis	1/28/1913	1/28/1923	, 10	OLICETY	JWV Mareholi	148/480

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esse No.	Buffit	Lessor	1 cases	Lease Date	Expiration Date	Acres Township	County!	Boox/P
3028902	000	C.F Corristly et ux	T L. Davis	1/20/1913	1/20/1923	70 Liberty	Marshe'l	146/48
3028904	<u>000</u>	Levi Rah, et et	Camegie Natural Gas Co	7/3/1916	7/3/1921	30 Liberty	Marshat/	<u> 150/4</u> 26
3028935	<u>0</u> 00	Tom Geno, et ux	Thomas D. Consway	10/13/1918	:0/1 <u>2/1918</u>	26 L bany	Narsnati WV	150/435
3028908		Mrs. 1. J. Cole. ct al	Edmand M Consway	12/22/1016	12/2 <u>2/192</u> 6	70 Liberty	Maretuil/ :WV	150/454
3028909	<u>,,</u>	Wilson Gorby, et ux	J. L. Prillips	2/17/1917	2/17/1927	50 Liberty	Marshall/ WV	150-454
3328910	200	F R Raynolds of al	J W. Maer	11/1 <u>5/1916</u>	11/15/1925	69 Liberty	Mareheav WW	149/33
3028911	<u>.</u>	Mary M Marenas et al	Camegie Natural Gas Co	4/20/1017	4/28/1922	60 Центу	Marshali/ WV	160/451
3026912		C. E Yealer, et un	Carnegro Matural Gos Co	4/30/1917	4/30/1922	70 Liberty	Marshallr WV	43/481
3028914 C		S. N. Cole. extus R. E. S. Simmons, et us	Carnegie Natural Gas Co	10/14/1025 -3/30/1932	10/14/1930 :	27.5 Liberty	Warshaav WV Wetzni	C3-83.
3028919		Austre Rotonson, widow, et al	MEH	1/28/1960	3/30/1937 7/16/1970		Marshesv WV	274/150
3 <u>028620 0</u>	90	Stella Robinson, widow, et al	MLSH	1/28/1960	7/16/1970		Marshalli WV	342/47 342/51
3026921	! ! !	Millord Richmond undower	MEH	2/10/1980	17/10/1970		Morst.ell	. 342/65
30 <u>28922</u> 0	ز ه	Millota Richmond, widower	M. 8H	<i>2/</i> 10/1960	7/10/1870	7	Marahas/ '	342/92
	<u> </u>	Glenn W. Hamdion, et car (undivided 117/288)	Man	11/27/1964	11/27/1974		Marehaly !	375/C1
3628416 Q	90 ' (D. E. Burge, et at	MLSH	<u>5/27/1968</u>	5/29/197e		Marshall :	395/585
3029418 C	i <u>e</u>	A A	Ман	5/6/1967	19/5/1977		Mutzel'	
3029781 00	<u> </u>	conuel F. Goddard et ux	MI 012	6/14/1968	B/14/1978		Metzeli T	48V/363
3029843 00	O. E	I. E. Matthews		9:17/1958	9/17/1968		M Marshalir	51A/31 <u>3</u>

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Lease No.

Sulfix

Curto Rush, et al

3029999 000(0)

3032053 000

Madge Moore et au

3038249 000

Acres Township Russ BookPo.

50 Liberty

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333/75

48A/124

Marshall 309/293

16.46 Liberty

7/31/1966

Expiration Data

3/17/1972

Lease Date

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3230500 000	Oscar Goodnight, et ux	MESH	8115/1959	841/1888	43 Liberry	WV 326/30	ş.
3030507 000	exaude Howard, et al	MISH	8/18/1959	9111099	16 I County	Marshalli WV 126/30) ,
	Evanna Clouston Bernington	MISH	9/11/1959	10/1/1969		Marshall/ WV 126/4	
3030512[000	Evanta Clouston Bennington.	<u> </u>		:		Marshall 329/4	
20308131000	<u>et et</u>	MLSH	ourueze _	10414909	66 Liberry	Vietze/	1
2030362 000	James J. Postowski, et al	MLSH	9/7/1950	: 8131369	60,Prector	 	
3030012 000	Edward C Walker, et al	MLSH	4/23/1950	คนรมออง	53 Liberty	Marehali/ IWV 328/5	25
3030013 000	(Withou H. Hirake, et al	MLAH	4101859	concur:	20 Libety	Marshott/ WV 326/5	29
3230614 000	Roy W. Dowler, et al	NLSH	2/17/1960	11/13/1970	35 Uberry	Marshall 342/1 Wanshall	193
303091A 003(D).	Athen Johnson et al	MLSH	i 9/17/15/47	N'A	Liberty & 117 Censez	Western 3525	143
2031030 001	Theims L. McEhwas, of al	MASH	าาเรยาอย	1/2/1971	16 Uberty	Marshall W 3425 Marshall	3/8
203:490:000(D)	John Ean Buildy, widower	MLSH _	11/8-1967		112 Liberry	WesterW	<u> </u>
3031620 000(D)	Array F Arrest et UX	јшан	8/26/1988	M/A	267 Proctor	WeizeW 231/	419 .
2331670 00C(D)	Lawrence Simmons, widown	i learen -	10/2/1903	N'A	Prodor	WeizelW 211/	316.
2031621 000(0)	Robert Blas Sittemens, et un	MLSH	9/25/1985	NA _	31 Proctor	Westell,	
<u> 202</u> 1821 <u>000(</u> D:	Arry F. Arres, Mus	MANH	8/26/1965	NA	Proctor	V 231/	415
3031821 000(0)	Lawrence Services, widows	MASH	10/2/1963	NA	Proctor	Marshadi 211	7 <u>12</u> .
2012051-000073	r IVV. E Franklin, et et	F. Burley	2/7/1924	2/7/1927	100 Liberty		389

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Lease No.	Suma	Leasor	Lessee	Lease Date	Date	Acres	District/ Igwnship	County/ State	Record Boot/P
3030025	000	Catherine A Rush, welcow	ML&H	11/17/1959	11/30/1969	11	Liberty	Marahali/ WV	326/53
3030839	000	Berto U. Popos, et at	MLEH	1/5/1960	11/30/1559	11	Liberty	Marshaliv WV	326/67
3036 <u>681</u>	000	Nettio Buzzard et al	MLBII	6/7/1950	1/1/12/0	43	Liberty	Marshall/ WV	342/217
3030956	000	Merritt G. Alen, et al	ML&H	11/15/1960	9/30/1970	12	Cente:	Wolzet W	44A/Z4
3031018	<u> 200</u>	D. E. Richmond, et inc	MLBIE	11/17/1980	12/1/15/10	80	Liberty	Marshall/ W	24254
3031028	ō00	Theims L. Mchilwee, et al	ML&H	11/4/1960	1/2/1971	11.	<u>Libe</u> rty	Manshgili WV	342/37
3031030	ēco —	United National Bank (50%)	700	10/1/19 3 9	10:1/2009	15 62	Liberty _	Morshall/ WV	612725
3331049	<u></u>	Therma L. McElwee, et al	MLBH	11/4/1960	1 <i>1771</i> 1971	34	Liberty	Marshall/ W	342/38
3031092	Dās .	Moud Davis Gregory. Committee	The Company Ught Company	7/10/1930	7/10/1933	150	Liberty	Marshall , WW	190/56
3031093		H. H. Prpos, at ux (1/2 Interest)	MLBII	3/6/1933	3/8/1943	45		Marshatl/ WV	108/34
3031095	coo	Hanna Svicium	The Company Light Company	11/14/1907	12/14/1907	5		Marshali/ WV	130/74
30 <u>31195 (</u>	000	Eleanor Reynolds Himerman,	MEBH	6/19/1 9 81	8/33/1971	27	berty	Marshall/ WV	34242
3031309	000	Elis O. Miller, et ux	ML&H	7/1/1961	8/1/1971	100		Watrer WV	44A/47
3031243	200	Marvin L. Fax et 81	ML <u>8H</u>	7/14/1961	10/30/1071	22.54		Marshall/	342/46
3031263	<u> 100</u>	James H. Watte, of at	ML&H	8/22/1981	D/15/1971	7:L		Manshall! WV	_ 3 42/47(
302126710			ML&H	B/22/1991	91 <u>51971</u>	54 [bety	Marshall/ WV Wetzel/	342/49
			MLBH	1/16/1867	1/16/1973	55	enter	Wetzel	45A/33
3031348 0		1	HAM.	1/16/1965	1/18/1972	12:0	enter 1	Motzou	45A/353
3031350 0	60	Become L. Stansberry, et vu	ML&H	1/16/1962	1/15/1972	5.0		Motzov M	45//338

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		i e			Expiration !		District	County	Recording
Leage Ho.	Suffix	Lesses	Feates _	Lease Date	Date	Ason	Township	State	Hool/Po.
	***	Bassis I Charles at at			!		Center	Wetzel	45A/339
3031351	000	Bessie L. Stansberry, cl vir	ML&H	14.641885	ineu <u>1072 -</u>	"	Cenne .		49.7939
i	ļ	1	i	•	i :			Marshall	١ .
3031370	000	O. E. Burge, et al	MAN	2/14/1002	3/10/1972	14	Liberty	W	353/201
i		1			!			Marshatt	1
3031373	-000	t.uc#e Alten, et at	(ML&H	11/00/1961	1/2/1972	18.15	Liberty	w	353/252
		:	Ţ				r		
		<u></u>	l	*	*******			Marshalf	
3031374	000	Roscoe Fair, et al	MLSH	11/27/1961	1/2/19/2	21 03	Liberty	Webiel *	353/259
3031375	000	Ernie J Ramsey, et al	MLSH	2/20/1962	2/26/1972	16-5/15	Center	w	45A/363
["	T				1			Weizer	
3031376	<u> 000 </u>	Erio J. Ramsoy, et al	MLAH	2/20/1962	2/26/1972	15	Center	Wetzer	45A/350
3031496	600	Edwin Holman, single	MAH	10/16/1962	11/10/1072	25	Proctor	w	47A/79
. 222:137	l ^{::}			····	 -	· ·	· ·	Welsey	
3031497	000	Edwin Hohman, single	MAH	10/10/1003	11/10/1972		Proctor_	W	47A/76
3031499	~~	Clem J. Hohman, et ux	MLSH	10/10/1962	11/10/1972	J 61	Practor	Wezel	47A/72
302:338		Total a state of the state of t	- re-cury		1.010.0.0	· :-		Westel	i ''' '''
3031499	000	Clern J. Hohmen, et ux	MILBH	10/18/1082	11/10/1972	71	Proctor	'wv	47A/43
	:	•	_	ŀ		1	Proctor &	Wetre &	
3031503	.000	Joseph J. Wagner AIF, et st	MLSH	12/4/1982	1/12/1973	90	Moada	Marshall	47A/124
	1		1	<u> </u>	.1	ī		1	
	1	1	!		i	: .		Marshail	;
. 1040331	000	Jack R. Buttard, et al	TCO	37/2000	3/1/2010	<u></u> - •	Liberty	w	619/8C2
1	ĺ	•			•	•	i	Monthall	
3175685	1000	Harold L. Koantz, et el	TCO	17/3/1974	7/3/1984	1. 94	Cameron	WY	440/73
	1	ľ	!	•		ļ	i	.Marshall	į
3175732	ticno	Ratph W Evens, et al	TCO	B/15/1974	E/15/1984	. 2:	Liberty	w	448/121
2112131	-							•	i
į.	•	i		ŧ		i	l	Marshatt	
317573	1.000	Ratph W Evans, et al	TCO	B/15/1974	8/15/1984	١ ,	Liberty &	S WOULD	448/125
.31:5/2	متتا	Rednes Even, et al			10100		100.00		110123
ŀ	ţ	:		į	.	:		Marshatt	
318347	000	O. E. Burgo, et al	,ICO	10/9/1979	10/9/1009	161	r-peny	<u>lw</u>	. 476/583
	1	•	1	:		•	i	Marshall	,
319416	5000	Sarah Joan Chambers et al	TCO	5/28/1992	5/28/2002	20.	Liberty	,wv	. 566/134
		7	·	•		:	•		. i
l	-!	Charles and the second	тсо	; 12/14/1994	: 12/14/2004	١.,	1 // Darme	Mershed W	568/572
219836	واحجا	Physics J, Hote et al		14141199	141 147 2404	2400	Liberty		900r312

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Exhibit B

COLUMBIA GAS TRANSMISSION CORPORATION

PROCEDURE FOR DRILLING, COMPLETING AND PLUGGING PRODUCTION WELLS IN THE VICTORY A AND B STORAGE FIELDS

- The Sublease Zone referred to in this agreement is all formations, excluding the formations currently being reserved or operated by COLUMBIA for storage.
- The Storage Zone, or reservoir, referred to in this agreement is known as the Big Injun and Maxton formations, being more particularly described as that stratigraphic interval from 250 feet above the top of the Greenbrier Limestone (inclusive of all Maxton sands) to 50 feet below the base of the Pocono Big Injun formation.
- 3. Operator agrees that, thirty (30) days prior to drilling a well on any subject lease, he will notify the Manager, Engineering Services-Storage, Columbia Gas Transmission Corporation, P. O. Box 1273, Charleston, West Virginia 25325-1273, by certified mail, with a plat showing the well's surface and bottomhole locations, surface elevation and its projected total true vertical depth.
- 4. For all wells drilled on subject leases, Columbia must agree to, and approve, ell locations (both surface and bottom hole) and operator's well(s) must remain within the approved locations. Any changes to a pre-approved location must be agreed to by Columbia in writing prior to drilling any wells. If any well is found to be located outside of the approved location (both surface and bottom hole), the operator may be required to plug the well or sell the well to Columbia at cost.
- In the event that Operator proposes to drill any well to the sublease zone, the following procedure will be in effect:
 - a. Operator will furnish Columbia a well drilling and completion procedure, thirty (30) days in advance of drilling, for approval by Columbia on that portion of the well that affects the sublease zone and Columbia's storage zone.
 - Forty-eight (48) hours prior to spudding a new well, as well as 48 hours
 prior to the dritting reaching the storage zone, the Operator is to notify, by
 telephone, both of the following Columbia Gas Transmission Corporation
 representatives:

(1) John V. McCallister

Work: 304-373-2412 Home: 304-863-0045 Cell: 304-549-9894

(2) Paul C. Amick

Work: 304-357-3445 Home: 304-755-5052

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Page 1 of 3

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WV Department of Environmental Protection Cell: 304-545-5052

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Columbia plans to have a representative present during the period the sublease zone and Columbia's storage zone are being drilled and the casing is being cemented.

- c. Operator shall have a minimum 2000 psi working pressure double ram blow out preventer (with a remote hydraulic closing unit) installed and tested before penetrating the sublease zone and Columbia's storage zone. Operator may encounter pressures in the storage zone as high as 800 psig (surface).
- d. Operator shall make every reasonable effort to prevent the loss of excessive drilling fluid into the sublease zone and Columbia's storage zone.
- e. At Columbia's expense, Columbia reserves the right to run logs, test, core, and otherwise evaluate the storage zone and sublease zone interval described above. Operator will be reimbursed for the contracted day rate associated with the formation evaluation.
- f. Operator shall have sufficient casing cemented in the well to control the estimated maximum storage zone pressure of 800 psig (surface). Centralizers will be run every 40 feet from the bottom of the casing to 200 feet above the storage zone. The casing shall be cemented with expandingtype cement, which, at 110 degrees Fahrenheit, will reach a calculated compressive strength of 2000 PSi prior to resuming drilling operations. Cement fill required to provide minimum protection of the storage zone would be 500 feet above the storage zone. Operator will walt on cement to cure the minimum amount of time required for the slurry used to reach a compressive strength of 2000 PSI. Operator will demonstrate by cement bond log evaluation that cement integrity exists over the cemented interval and the storage zone is adequately protected. Cement bond log (CBL) analysis will minimally include a gamma ray collar locator log for depth control, an attenuation-type log to measure cement-to-pipe bond, and a variable density log (VDL) to measure cement-to-formation bond. Operator will run the CBL prior to resuming drilling operations; the CBL will not be run until the cement slurry used reaches a compressive strength of 2000 PSI at 110 degrees Fahrenheit. Should the CBL show unacceptable cement quality. Operator will wait an additional six (6) hours on cement, and then rerun the CBL. If at this time cement quality is still unacceptable, re-cementing the casing may be required. Consultation between Operator and Columbia's on-site representatives will determine remedial procedures to be used, if any.
- g. New casing will be run from surface to a point in the top of the sublease zone for the flow string. Casing run will have a minimum burst pressure of 3500 psig and minimum collapse pressure of 2000 psig (if the sublease zone is deeper than the storage zone). Operator may run a back-off collar, nipple or equivalent to recover uncernented casing in wells.
- h. Daily drilling reports and other pertinent data while the well is being drilled is to be provided to Columbia in a timely manner. Any final report must also be

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Page 2 of 3

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84745369 URE FOR DRILLING AND PLUGGING PRODUCTION WELLS IN THE VICTORY A and II STORAGE FIELDS

delivered to Columbia after completion of all drilling operations. Columbia's storage contacts for receiving the information are John V. McCallister, 304-373-2412 jmccallister@NiSource.com; Paul C. Amick 304-357-3445, pamick@NiSource.com. The Columbia Storage Department fax number is (304) 357-3585.

- 4. Columbia reserves the right to monitor any well completed on the subject lease(s) as more fully described in the monitoring provision document.
- 5. Any well that is to be plugged and abandoned by the Operator will be done so in accordance with the current laws of the State of West Virginia Department of Environmental Protection, Division of Oil and Gas. In addition, an expanding-type cement plug will be installed from the bottom of the well to a point two hundred (200) feet above the top of the sublease horizon. The same requirement will be adhered to on a well that is a dry hole or for a well that is drilled, completed, produced and abandoned at some future date.
- 6. During the drilling of any well on subject leases, operator must run directional surveys (gyroscopic survey and/or directional log) showing the magnitude and direction of the inclination of the well bore, as well as the calculated bottom hole location. These data must be provided to Columbia as part of the daily drilling reports. This requirement can be waived if the sublease zone is shallower than the storage zone.
- 7. Copies of all electric, geophysical and mud logs, reports, well cuttings and measurements must be provided to Columbia in a timely manner. Measurements include, but are not limited to, flow tests, gas samples, pressure tests, and fluid levels. If operator takes formation core samples (whole or plug) from wells on subject leases, one-foot interval core chips (whole cores only) and final core analyses reports must be provided to Columbia.
- 8. In all wells drilled on subject leases, operator must run (a minimum of) gamma ray/ neutron and directional (gyroscopic survey and/or directional log) logs to surface. Density and resistivity logs should be run from total depth to production casing point. Additionally, if this is a naturally fractured reservoir, an imaging tool/dipmeter should be run at minimum across the entire producing/larget formation penetrated by the wellbore.

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Page 3 of 3

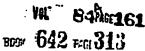


Exhibit C Columbia Gas Transmission Corporation Victory A and B Integrity Monitoring Provisions

- Columbia reserves the right to monitor any well completed on the subject lease(s).
 Monitoring includes, but is not limited to, periodically obtaining gas samples from all producing strings and annuli, engineering analysis of the production history, and access to any well for Columbia to conduct pipe inspection logging.
- The production history is to be provided by Operator upon request by Columbia. The information to be provided by well will include, but not limited to, monthly gas production volumes, number of days on line, flowing wellhead pressure data, shut-in pressure data, water production data volumes and well testing data.
- Columbia will have the right to periodically run open-hole or cased-hole well logs in any or all wells drilled on the subject leases acreage. Any such logging will be at Columbia's expense. Such logging will be at a mutually convenient time for both parties and Columbia Natural Resources, a Triana Energy Company, has the right to have a representative on site.
- Columbia representatives will have access at all times to all facilities and operations (including but not limited to drilling, recompletion, well stimulation, well testing, and well logging) occurring on the subject leases.
- 5. Two (2) day shut-in pressures will be recorded simultaneously on each well every spring and fall (April and October). Columbia may from time to time require other pressure tests or flow tests to be taken on any or all of the wells drilled on the subject lease acreage. This could also include shutting in more than one well at a time to determine whether the pressure communication is between another production well and/or the Victory A or B Storage fields.
- Columbia will have the right to sample the gas or liquids produced or encountered by any well bore drilled on the subject lease. Any such testing will be at Columbia's expense.
- 7. At Columbia's sole reasonable discretion, any well or wells drilled on subject leases that are believed to be adversely affecting the Victory A or B Storage reservoir, or in pressure communication with the Victory A or B Storage reservoir, will be shut in until such time that additional testing proves that Victory A or B Storage fields' gas is not being produced or in pressure communication. Proceeds from the sale of any and all gas produced after notification of shut-in or during testing will be escrowed until the ownership of the gas is determined.
- While the cost of monitoring shall be at Columbia's expense, Columbia will not be responsible for any of operator's expenses, including value of gas not produced during the time the well is shut-in for such monitoring.

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Page 1 of 1

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EXHIBIT D

PROCEDURE NUMBER: 220.003.010 PROCESS OWNERSHIP: Pipeline

VERSION NUMBER: 3
RELATED PLAN: 220.03.09

Pipeline Right-of-Way Encroachment

Component
Task ID
Equipment Group
Task

1.0 Scope

Columbia Gas Transmission Corporation ("TCO") is committed to providing high quality services to its customers while protecting the environment, health and safety our employees and the public in areas where we operate. Consistent application of pipeline encroachment policies are directly linked to operating the company in an operationally excellent fashion. The procedures for addressing encroachment are included in this document and shall be adhered to as outlined.

2.0 Procedures

Unless otherwise provided for by the specific right-of-way document, Rights-of-Way (ROW) width shall be no less than 50 feet for a single pipeline or, in instances of multiple pipelines, no less than 50 feet for each pipeline with a minimum of 25 feet outside the two outermost pipelines. This is the minimum width necessary for safe operation and maintenance of TCO pipelines. In order to preserve integrity of pipeline facilities and to insure safety of the general public, it is necessary for TCO to prohibit placement of objects or structures (aboveground or belowground) upon TCO pipeline ROW except the permissible objects listed in Section 2.1.

2.1 Permissible Objects

2.1.1 Fences Constructed Within TCO ROW

Fences that block visual inspection or interfere with access to TCO facilities are prohibited within TCO rights-of-way. Fences permitted by TCO to cross its rights-of-way must be designed with 12 foot gates centered on the pipeline and must cross at as near to 90 degrees as possible. Regardless of design of fences, the gates must allow access by equipment and personnel.

2.1.2 Grading Within TCO ROW and Total Earthen Cover Over Pipelines

The amount of carthen cover over a pipeline and right-of-way must be limited in order to safely and efficiently operate the pipeline. The guidelines for earthen cover are as follows:

PROCEDURE NO. 220.003.010

VERSION NO 3

EFI ECTIVE DATE: 1/31/2004

RECEIVED RECEIVED Page 1 of Oil and Gas

DOCUMENT CONTACT: Jack White

APPROVAL: Reed Rebinson

MAY 2 2 2015

WV Department of Environment of Environment MARCHARA

- Minimum cover will be set by DOT pipeline safety regulation 49 CFR Section 192.327 (OEP-104, Pipeline Cover Requirements).
- Typically, 4 feet of total earthen cover, measured from the top of the pipeline, will be the maximum allowable cover.
- In special situations where total earthen cover in excess of 4 feet is
 required, including but not limited to, road crossings, stream crossings,
 railroad crossings, and crossings for heavy equipment, plans and/or
 designs must be submitted to TCO's local operations field staff or
 other technical services departments as needed for approval prior to
 construction.

2.1.3 Cables, Pipelines and Other Facilities Crossing TCO's ROW

All water valves, curb boxes, manholes, and similar structures must be outside the pipeline ROW. Utilities and fiber optic lines shall cross TCO's pipelines at or as near to 90 degrees as practical to limit the length of pipeline effected by the crossing. The utility or fiber optic line shall maintain a minimum of 12 inches vertical clearance to protect the pipeline and to allow TCO unrestricted access to its facilities. All crossings must be installed below TCO's pipelines unless prior written consent (Columbia Gas Transmission Location of Buried Facilities Form - Form 1050-P17) is obtained for conditions including, but not limited to, the presence of massive rock beneath the pipeline, excessive pipeline depth, and the presence of other facilities below the pipeline. All crossings (excluding single telephone and single television drops) of TCO facilities by cable and/or wire utilities, including, but not limited to, fiber optic, electric, telephone and television must be encased with a minimum of 2 inch schedule 80 PVC pipe, or equivalent if approved by TCO, for the complete width of the ROW. For safety reasons, all electric and fiber optic lines crossing TCO's pipelines shall also be surrounded with a minimum of 6 inches of concrete or eneased in 4 inch minimum diameter, .250 wall, coated steel pipe for the full width of the right-of-way. Metallic warning flags shall also be buried above all cable, wire utility, or fiber optic line crossing a TCO ROW.

2.1.4 Pavement on Pipelines and ROW

TCO's general policy is to keep pavement off its ROW unless the pavement can be altered in such a way so as not to effect the safe and efficient operation and maintenance of its facilities. Consequently, all plans for pavement within a TCO right-of-way must be submitted and approved by TCO's local operations office or other technical services as needed prior to the commencement of any such paving. Pavement will not be allowed any closer than 5 feet of the pipeline except in the case of parking lot "crossovers" and/or driveways which can be no greater than 25 feet in width and must be spaced at a minimum of 50 feet intervals (measuring from the edge of the pavement). Concrete paving in TCO's ROW, except for sidewalks or curbs, is prohibited.

PROCEDURE NO. 120,003,010

VERSION NO 3

EFFECTIVE DATE: 1/31/2004

DOCUMENT CONTACT: Jack White

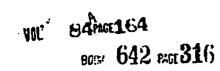
APPROYAL: Reed Robinson

Page 2 of 4

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2.1.5 Trees/Shrubs Within the ROW

The ROW may be planted in lawn and small shrubs (less than 5 feet tall) or may be used for normal agricultural purposes. However, shrubs will not be allowed within 5 feet each side of the pipeline. Shrubs greater than 5 feet tall and trees (including fruit and nut bearing) are prohibited within the ROW.

2.1.6 Roads

Roads shall cross pipelines at or as near 90 degrees as practical, but not less than 45 degrees. Roads are permitted only at TCO's sole determination and election. In the event roads are permitted to cross TCO's ROW, the design must meet TCO's approval and all protective measures for the pipeline must be met. Design and approval of protective measures will be provided by TCO's engineering personnel. The cost of installing protection for TCO's facilities will be paid for by the entity constructing the roads.

2.2 Verification of Pipeline and Facility Location for Third Parties

No excavation shall be made on TCO ROW without prior notification and approval of TCO's local operations office. Excavation within 3 feet of TCO's facilities shall be hand dug until the facilities are visually located or 12-inch vertical clearance is verified. TCO personnel must be on location prior to and during excavation by a third party, even if prior approval has been obtained. (See Plan Number 220.02.06, Damage Prevention Program, for information regarding TCO's participation in applicable state adopted one-call systems and/or any applicable reimbursable cost).

3.0 Drawings

"Left Blank Intentionally"

4.0 Photos

"Left Blank Intentionally"

5.0 Specialty Tools/Equipment

"Left Blank Intentionally"

6.0 Materials

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7.0 Reference Documents/Service Bulletins/Specifications

49 CFR 192.327 - Cover
OEP 104 - Pipeline Cover Requirements
Pl.AN NO. 220.02.06 - Damage Prevention Program

8.0 Definitions

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PROCEDURI: NO: 220.003.010

version no 3

PETECTIVE DATE: 1/31/2004

DOCUMENT CONTACT: Jack White

APPROVAL: Reed Rebinson

Page 3 of 4 MAY 2 2 2015

WV Department of Environmental Protection

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9.0 Responsibilities/Documentation/Records/Forms

9.1 Field Personnel

Field personnel will be responsible for monitoring pipeline ROW for encroachment. If an encroachment is located, it is the task of field personnel to make an elfort to have the encroachment removed. If unable to resolve the matter, they shall report the encroachment to their Operations team leader.

9.2 Operations Team Louder

The operations team leader's first responsibility is to document the encroachment and if possible resolve the matter with the landowner. In the event the matter is not resolved, it is then the operation team leader's task to report the matter to the operation manager and to work with Engineering Services (ES), Operations and Maintenance (OM), Land and Legal to address the encroachment.

9.3 Land Services

The responsibility of Land Services is to act and serve as the liaison between TCO and landowners. This includes all routine written communications and responsibilities referred to in this document.

9.4 ES/Operations

The responsibility of ES/Operations is to support Land Services by expediently providing technical/operational support.

The responsibility of the Law department is to support Land, ES and Operations by providing timely responses to any requests for assistance.

9.6 Records

All correspondence relating to this Procedure shall be forwarded to Charleston Land Services in care of Land Assets for permanent filing in the appropriate file.

EFFECTIVE DATE: 1/31/2004 VERSION NO 3 PROCEDURE NO: 220.603.018 Page 4 of 4 APPROVAL: Reed Rebisson DOCUMENT CONTACT: Jack White

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> > MAY 2 2 2015

WV Department of **Environmental Protection** PROCEDURE NUMBER: 220.005.001
PROCESS OWNERSHIP: Pipeline

VERSION NUMBER: 2 RELATED PLAN: 220.03.09

Storage Well Setback

Component
Task ID
Equipment Group
Task

1.0 Scope

Columbia Gas Transmission Corporation ("TCO") is committed to providing high quality services to its customers while protecting the environment and health and safety of our employees and the public in the areas where we operate. The commitment ensures the safety, reliability and integrity of our storage reservoirs, wells and pipelines. Any third party activity or development, which impedes TCO's ability to safely, efficiently and legally drill, operate and maintain storage wells will be prohibited. TCO's procedures for setback from storage wells are within the confines of applicable leases and laws and allow TCO access to potential and existing storage well operations while ensuring the safety of employees and the public.

2.0 Procedures

2.1 Notification Requirement

In order to safely and efficiently operate and maintain its wells, TCO requires up to 300-foot or larger clear area around the wellhead. Accordingly, the company requires notification of any proposed aboveground or belowground construction activities or placement of objects closer than 300 feet in any direction of a wellhead.

The company reserves the right to object to above ground or below ground construction activities and the placement of objects closer than 300 feet from any wellhead when certain topographical and/or safety concerns exist. Those topographical features and pennanent structures include, but are not limited to, wellheads situated near significant changes in elevation, rivers, ponds, streams, existing roads, railroad rights-of-way, power line rights-of-way, high pressure wells and safety concerns such as the presence of hydrogen sulfide. Additional distances over 300 feet may be necessary for certain company activities, including but not limited to, the presence of hydrogen sulfide, flaring of wells under unusual circumstances, horizontal or directional drilling, drilling of multiple wells from a single location, salt covern development, aquifer storage development, high pressure and high deliverability wells.

PROCEDURI: NO: 220,005,061

VERSION NO. 2

HEFERTIVE DATE: 01/31/2004

DOCUMENT CONTACT: Roy Fullacer, Jr.

APPROVAL: Reed Hobinson

Page 1 of 4

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WV Department of comment of 06/12/2015

900# 642 PAGE 319

However, except as otherwise provided in the applicable lease, there shall be no aboveground or belowground construction activities or placement of objects within 200 feet in any direction from a wellhead, excluding those activities and equipment necessary for TCO maintenance and operation.

2.2 Notification Process

The individual or entity desiring to construct or place an aboveground or belowground object closer than 300 feet of a wellhead will be required to notify the appropriate Land Services Team Leader or his or her designee. The information provided will include a description of the proposed construction or placement of the object, dimensions, location and distance from the wellhead.

2.3 TCO Review

The Land Services Team Leader or his or her designee will then forward this information to the Operations Manager and the ES Storage Team Leader, or their designees. They will review the request and all information, including terms of the lease. If the proposed aboveground or belowground construction or placement of the object is 200 feet or less from the wellhead, the Land Services Team Leader will issue a letter stating that the Company has denied the request.

If the request is within 200 to 300 feet of a wellhead, the Land Services Team Leader will issue a letter stating that the Company does not object to the proposal if the Operation Manager or his or her designee, Land Services Team Leader, and the ES Storage Team Leader determine that the conditions mentioned in paragraph two of Section 2.1 do not exist. If additional information is needed to make a decision within 200 to 300 feet of a wellhead, a Storage Engineer, Land Agent and/or Operations personnel may be dispatched to personally review the request. If a decision is made that the Company does not object to the proposed above-ground or below-ground construction or placement of the object, the Land Services Team Leader or designee shall issue a letter to the person/entity stating that the Company does not object to the proposal.

If the asset team listed above recommends the request be denied, they must document the specific reasons for denial. The responsible Attorney must review this documentation before the appropriate Land Services Team Leader sends a denial letter to the person or entity making the request. Of course, any decision must be consistent with the lease language. If there is a need to defend a distance of greater than 300 feet from the wellhead, the responsible Attorney must be contacted prior to any denial letter being sent to the landowner/developer.

3.0 Drawings

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PROCEDURE NO: 220,095,001

VERSION NO. 2

EFFECTIVE DATE: 01/31/2004

DOCUMENT CONTACT: Ray Fallineer, Jr.

APPROVAL: Reed Robinson

Page 1 of 4

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WV Department of Environmental Protection

4.0 Photos

"Intentionally Left Blank"

5.0 Specialty Tools/Equipment

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6.0 Materials

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7.0 References and Specifications

Most states in which TCO operates dictate a minimum distance that an oil, gas or storage well must be drilled from certain objects or natural conditions. The following is a summary:

New York - No well shall be located nearer than 100 feet from any inhabited private dwelling house without written consent of owner; nearer than 150 feet from any public building or area which may be used as a place of resort, assembly, education, nearer than 75 feet from any public stream. 6 NYCRR 3553.2 (1998).

Ohio - No well shall be drilled nearer than 100 feet of any inhabited private dwelling house; nearer than 100 feet from any public building which may be used as a resort, assembly, education, ...nearer than 50 feet to the traveled part of any public street, road, or highway; nearer than 50 feet to a railroad track; nor nearer than 100 feet to any other well. OAC Ann. 1501:9-1-05 (1998).

Pennsylvania – Wells may not be drilled within 200 feet from any existing building or existing water well without the written consent of the owner. No well shall be drilled within 100 feet from any stream, spring, or body of water. 58 P.S. ∋601.205 (1997).

West Virginia – No oil or gas well shall be drilled nearer than 200 feet from an existing water well or dwelling without first obtaining the written consent of the owner of such water well or dwelling W.Va. Code ∋22-6-21 (1997).

8.0 Definitions

Setback: The distance in all directions from any storage well that must remain free from any construction activities or placement of any objects with the exception of facility related construction and appurtenances.

Storage Well: Any active, special or storage observation well located within the protective boundaries of a federally certificated storage field.

PRIXTERURE NO: 220,005,001

VERSION NO. 2

PETECTIVE DATE: 81/31/2004

DOCUMENT CONTACT: Roy Fullineer, Jr.

APPROVAL: Reed Robinson

Page 3 of 4

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9.0 Responsibilities/Documentation/Records/Forms

9.1 Field Personnel

Field personnel will be responsible for monitoring storage well setbacks for encrocehment. If an encroachment is located, it is the task of field personnel to make effort to have encroachment removed. If unable to resolve the matter, they shall report the encroachment to their operations team leader.

9.2 Operation Team Leader

The operations team leaders' first responsibility is to document the encroachment and if possible resolve the matter with the landowner. In the event the matter is not resolved, it is then the operation team leaders task to report the matter to the operation manager and to work with ES, OM, Land and Legal to address the encroachment.

9.3 Land Services

The responsibility of land services is to act and serve as the liaison between TCO and landowners. This includes all routine written communications and responsibilities referred to in this document.

9.4 FS/Operations

The responsibility of ES/Operations is to support Land Services by expediently providing technical/operational support.

9.5 Law

The responsibility of the law department is to support Land, ES and Operations by providing timely responses to any requests for assistance.

9.6 Re	rcords
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All correspondence relating to this procedure shall be forwarded to Charleston Land Services in care of Land Assets for permanent filing in the appropriate file.

		EFFECTIVE DATE: 4101040
PROCEDURE NO: 321,005,001	VERSION NO. 1	-
ner 1846M CONTACT: Res Publicar, Jr.	APPROVAL: Reed Rectains	Page 4 of

STATE OF WEST VIRGINIA, MARSHALL COUNTY, SCT.:

1, NORMA GLOVER SINE, Glerk of the County Commission	on of said County, do hereby certify that the nancred writing, bearing
date on the ATUL day of AGUINTALL AND Above certificate as to the natios therein named this I. C. In	on of said County, do hereby certify that the agnessed writing, bearing yes presented for shid by me, admitted to record in any affice upon the day of Millian Millian State of 10.51.0°clock In
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STATE OF WEST VIRGINIA, COUNTY OF WETZEL, TO-WIT:
OFFICE OF THE CLERK OF THE COUNTY COMMISSION OF WETZEL COUNTY.

The foregoing paper writing was this day <u>December 3</u>, 2004, at <u>11:06</u> presented for record in my office, and thereupon, together with the certificate thereto annexed, in admitted to record.

Tosto: Carol S. Hought Clork,

County Commission of Wetzel County

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MAY 2 2 2015

WV Department of Environmental Projection



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

February 18, 2015

Ms. Laura Cooper WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed Bonnette MSH 1H in Marshall County, West Virginia, Drilling under Hawkey Hill Road and St. Joseph Baker Hill Road

Dear Ms. Cooper:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Hawkey Hill Road and St. Joseph Baker Hill Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you and should you have any questions please feel free to contact the undersigned at (832) 796-6259 or by email at thill@swn.com.

Sincerely,

Travis Hill

Senior Landman

Toil Him

SWN Production Company, LLC

Chice of Oil & Gas

Rz w/+°

WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

ullucto

Date of Notice Certification:			API No. 47- 69 -			
			Operator's Well No. Bonnette MSH 1H Well Pad Name: Bonnette MSH Pad			
Notice has	been given:					
Pursuant to th	ne provisions in West Virginia Co	de § 22-6A, the Operat	tor has provided the re	quired parties w	ith the Notice Forms listed	
	tract of land as follows:					
State:	WV	UTM	NAD 83 Easting:	524699.7		
County:	51-Marshall	C/TIVI	Northing:	4396885.9		
District: Quadrangle:	5- Meade		Road Access:	Fish Creek		
	681- Wileyville	Gener	ally used farm name:	Bonnette		
Watershed:	Whetstone Creek					
information r of giving the requirements Virginia Cod	ed the owners of the surface des equired by subsections (b) and (c) surface owner notice of entry to of subsection (b), section sixtee e § 22-6A-11(b), the applicant sha have been completed by the appli	, section sixteen of thi survey pursuant to s n of this article were all tender proof of and	s article; (ii) that the re ubsection (a), section waived in writing by	equirement was ten of this artic the surface ow	deemed satisfied as a result ele six-a; or (iii) the notice ener; and Pursuant to West	
Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY				OOG OFFICE USE ONLY		
☐ 1. NO	TICE OF SEISMIC ACTIVITY		T REQUIRED BECA TITY WAS CONDUC		RECEIVED/ NOT REQUIRED	
☐ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ■ NO PLAT SURVEY WAS CONDUCTED				ONDUCTED	RECEIVED	
■ 3. NO	TICE OF INTENT TO DRILL		T REQUIRED BECA TRY FOR PLAT SUR TED or		RECEIVED/ NOT REQUIRED	
		☐ WRITTEN (PLEASE	VAIVER BY SURFA ATTACH)	CE OWNER		
■ 4. NO	TICE OF PLANNED OPERATIO	N			RECEIVED	
	And a second second and second and give an a		Received			
5. PUI	BLIC NOTICE	0	Office of Oil & Gas		☑ RECEIVED	
■ 6. NO	TICE OF APPLICATION		FEB 26 2015		RECEIVED	

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

WW-6AC (1/12)

Certification of Notice is hereby g	iven:
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have read and understand the notice requirements within West Virginia Code § 22-THEREFORE, I 6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. P.O. Box 1300 Address: Well Operator: SWN Production Co., LLC Jane Lew, WV 26378 Dee Southall By: Facsimile: Regulatory Supervisor Its: Dee_Southall@swn.com Email: Telephone: 832-796-1610 Subscribed and sworn before me this NOTARY A BAL SEAL Notary Public, State of West Virginia Notary Public BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My Commission Expires My commission expires November 27, 202

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

> Received Office of Oil & Gas

> > FF9 2 6 2015

WW-6A (9-13) API NO, 47- 69 OPERATOR WELL NO, Bonnette MSH 1H
Well Pad Name: Bonnette MSH Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement	nt: notice shall be prov	ided no later than the filing date of permit application.
Date of Notice:	Date Permit Applica	ntion Filed: 2 24 14
PERMIT FOR ANY WELL WORK		ICATE OF APPROVAL FOR THE RUCTION OF AN IMPOUNDMENT OR PIT
Delivery method pursua	nt to West Virginia C	ode § 22-6A-10(b)
☐ PERSONAL	☑ REGISTERED	☐ METHOD OF DELIVERY THAT REQUIRES A
SERVICE	MAIL	RECEIPT OR SIGNATURE CONFIRMATION
sediment control plan requithe surface of the tract on woil and gas leasehold being described in the erosion and operator or lessee, in the even more coal seams; (4) The owell work, if the surface traimpoundment or pit as deschave a water well, spring or provide water for consump proposed well work activity subsection (b) of this section records of the sheriff require provision of this article to the Code R. § 35-8-5.7. a requirement of the surface of the sheriff requirement of the sheriff requirement of this article to the code R. § 35-8-5.7. a requirement of the surface of the sheriff requirement of the sheriff requirement of this article to the code R. § 35-8-5.7. a requirement of the surface of the sheriff requirement of the sheriff req	ired by section seven of the vhich the well is or is pro- developed by the proposed sediment control plans are the tract of land on whomers of record of the section to be used for the peribed in section nine of the water supply source location by humans or dome, y is to take place. (c)(1) I on hold interests in the larged to be maintained purshe contrary, notice to a lives, in part, that the open	equires a receipt or signature confirmation, copies of the application, the erosion and this article, and the well plat to each of the following persons: (1) The owners of record of oposed to be located; (2) The owners of record of the surface tract or tracts overlying the sed well work, if the surface tract is to be used for roads or other land disturbance as submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, which the well proposed to be drilled is located [sic] is known to be underlain by one or urface tract or tracts overlying the oil and gas leasehold being developed by the proposed placement, construction, enlargement, alteration, repair, removal or abandonment of any this article; (5) Any surface owner or water purveyor who is known to the applicant to cated within one thousand five hundred feet of the center of the well pad which is used to estic animals; and (6) The operator of any natural gas storage field within which the If more than three tenants in common or other co-owners of interests described in ands, the applicant may serve the documents required upon the person described in the suant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. rator shall also provided the Well Site Safety Plan ("WSSP") to the surface owner and any and water testing as provided in section 15 of this rule.
☑ Application Notice ☑	WSSP Notice □E&	S Plan Notice Well Plat Notice is hereby provided to:
☑ SURFACE OWNER(s)		☑ COAL OWNER OR LESSEE
Name: Robert Bonnette		Name: Consolidated Coal Company %Leatherwood Received
Address: MArny Anna Drive Moundsville, WV 26074		Address: 1000 Consol Energy Drive Office of Oil & Gas
Name:		T COAL ODED A TOP
10.00 mm		EER 26 /1115
/ tudi ess		Address:
☐ SURFACE OWNER(s)	(Road and/or Other Di	sturbance)
Name:	30. 13.13 31.15. 12.10. 12.1 12.10. 12.1	
Address:		
Name:		Address:
Address:		
- CLIDE LOE OUGERAL	ar a second	☐ OPERATOR OF ANY NATURAL GAS STORAGE FIELD
SURFACE OWNER(s)		
Name:Address:		Address:
riduicss.		*Please attach additional forms if necessary

WW-6A (8-13) API NO. 47- 69

OPERATOR WELL NO. Bonnette MSH 1H

Well Pad Name: Bonnette MSH Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, more contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well had at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13) API NO. 47-69

OPERATOR WELL NO. Bonnette MSH 1H

Well Pad Name: Bonnette MSH Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Received
Office of Cit & Gas

FEB 26 2015

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

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WW-6A (8-13) API NO. 47-69 -

OPERATOR WELL NO. Bonnette MSH 1H

Well Pad Name: Bonnette MSH Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (8-13)

API NO. 47-69 OPERATOR WELL NO. Bonnette MSH 14 Well Pad Name: Bonnette MSH Pad

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 832-796-1610

Email: Dee_Southall@swn.com

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



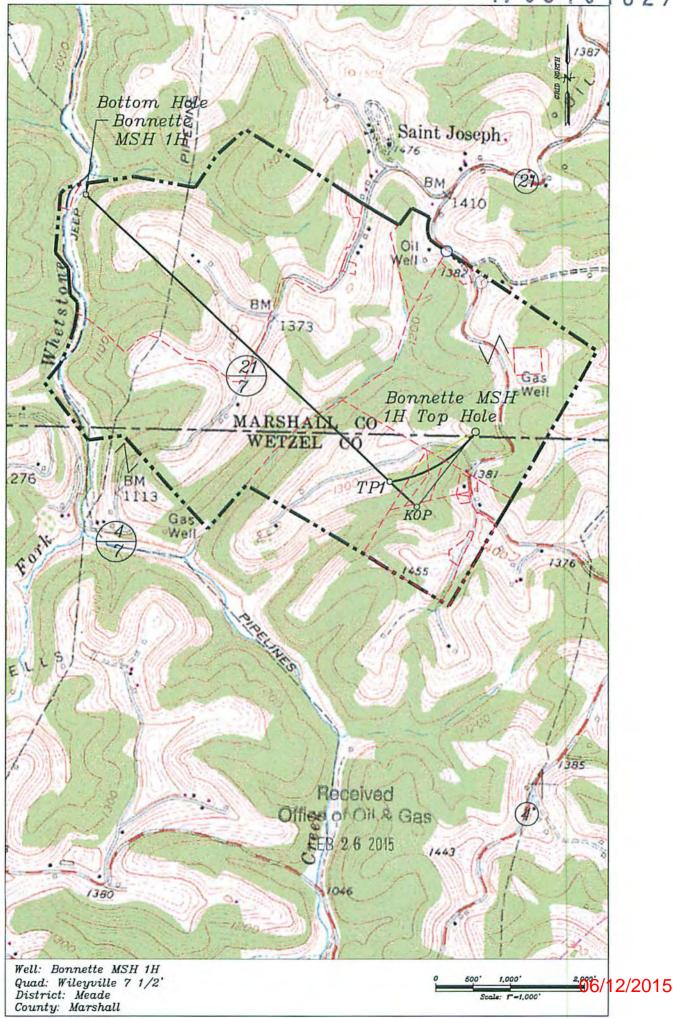
Subscribed and sworn before me this

Notary Public

My Commission Expires

Received Office of Oil & Gas

FEB 26 2015



Owner Phone	Water Source
	Trater Source
Date Pad No. Pad Name Full Parcel ID Owner Owner Address Owner City State Owner Zip No.	Present (Y/N)?
9/12/2014 90/984 BONNETTE MSH PAD 09-22-8 BONNETTE ROBERT WILLIAM ET UX 109 AMY ANNA DR MOUNDSVILLE WV 26041	Y
9/12/2014 907984 BONNETTE MSH PAD 09-22-8.1 COUNTY COMMISSION OF MARSHALL PO BOX 459 MOUNDSVILLE WV 25041	Ÿ
9/12/2014 907984 BONNETTE MSH PAD 12-3-10.3 FERRELL DOROTHY E x2 RR1 BOX 168 PROCTOR WV 26055	Ÿ
9/12/2014 907984 BONNETTE MSH PAD 12-3-10.4 FERRELL JOHN W RR 1 BOX 165F PROCTOR WV 26055	
9/12/2014 907984 BONNETTE MSH PAD 12-4-1 FOX PAUL & CYNTHIA RT 1 BOX 183 PROCTOR WV 26055 304-455-3817	· · · · · · · · · · · · · · · · · · ·
9/12/2014 907984 BONNETTE MSH PAD 12-3-8.1 HOHMAN DONALD L x2 RR 1 BOX 169 PROCTOR WV 26055	
9/12/2014 907984 BONNETTE MSH PAD 09-22-3 MILLER HILARY G & MARK H 4537 ST JOSEPH RD PROCTOR WV 26055	· · · · · · · · · · · · · · · · · · ·
9/12/2014 907984 BONNETTE MSH PAD 12-3-10.2 MILLER JOHN MICHAEL ETAL 137 HUDSON HILLS ROAD PITTSBORO NC 27312	
9/12/2014 907984 BONNETTE MSH PAD 12-3-7 RIES HENRY W ×2 10 MEADOW DR WHEELING WV 26003	·-····
9/12/2014 907984 BONNETTE MSH PAD 12-3-11 YOHO DENVER F RT 1 BOX 164 A PROCTOR WV 26055	
9/12/2014 907984 BONNETTE MSH PAD 12-3-11.2 ZOMBOTTI DELORES RR1 BOX 167 PROCTOR WV 26055	····

Received

Office of Oil and Gas wy Dept. of Environmental Protection WW-6A4 (1/12)

Operator Well No. Bonnette MSH 1H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

The state of the s			e of finem to Diff		
Notice Time R Date of Notice	tequirement: :: 01/14/2015	Notice shall be p	provided at least Date Permit A	TEN (10) days prior to filing a population Filed:	permit application.
Delivery meth	od pursuant	o West Virgini	ia Code § 22-6A	-16(b)	
Пт		CERTIFIED M	AAII.		
☐ HAND	_		CEIPT REQUES	TED	
DELIVE	RY				lall by contified mail re
receipt request drilling a horiz of this subsect subsection ma and if availabl Notice is her Name: Robert W	ed or hand de zontal well: F ion as of the d y be waived in e, facsimile nueby provide	livery, give the strovided, That no ate the notice was writing by the sumber and electrod to the SURF	otice given pursuras provided to the	uant to subsection (a), section te se surface owner: <i>Provided</i> , how The notice, if required, shall incluse of the operator and the operator	
Moundsville, WV	reby given:	ode § 22-6A-16	5(b), notice is he	reby given that the undersigned	well operator has an intent to enter to
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Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact Office of Oil & Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

FEB 2 6 2015

WW-6A5 (1/12)

Operator Well No. Bonnette MSH 1H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Date of Notic	Requirement: notice shall be proved: 01/14/2015 Date Per	ded no later than the filing date of permit application. nit Application Filed:
Delivery me	thod pursuant to West Virginia C	de § 22-6A-16(c)
■ CERTI	FIED MAIL	☐ HAND
		DELIVERY
Pursuant to Vereturn receipt the planned of required to be drilling of a damages to the following of notice. Notice is her (at the address	requested or hand delivery, give the operation. The notice required by the provided by subsection (b), section horizontal well; and (3) A proposite surface affected by oil and gas of the serious shall be reby provided to the SURFACE (as listed in the records of the sheriff w. & Linda F. Bonnette my Anna Drive	r than the date for filing the permit application, an operator shall, by certified mail a surface owner whose land will be used for the drilling of a horizontal well notice of this subsection shall include: (1) A copy of this code section; (2) The information ten of this article to a surface owner whose land will be used in conjunction with the surface use and compensation agreement containing an offer of compensation for cerations to the extent the damages are compensable under article six-b of this chapter, iven to the surface owner at the address listed in the records of the sheriff at the time with the time with the surface owner at the address listed in the records of the sheriff at the time.
Notice is her Pursuant to V operation or State:	Vest Virginia Code 8 22-6A-16(c).	otice is hereby given that the undersigned well operator has developed a planned pose of drilling a horizontal well on the tract of land as follows: Easting: 524,699.7 UTM NAD 83
County:	Marshall	Northing: 4,390,003.9
District:	Meade	Public Road Access: Roberts Ridge/ St. Joseph Road Generally used farm name:
Quadrangle:	Wileyville	Generally used farm name.
Watershed:	Whetstone Creek	
Pursuant to to be provide horizontal wasurface affection	led by W. Va. Code § 22-6A-10(I vell; and (3) A proposed surface use cted by oil and gas operations to the related to horizontal drilling may solve to the surface of the s	this notice shall include: (1)A copy of this code section; (2) The information required to a surface owner whose land will be used in conjunction with the drilling of a and compensation agreement containing an offer of compensation for damages to the extent the damages are compensable under article six-b of this chapter. Additional to obtained from the Secretary, at the WV Department of Environmental Protection Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-damages-number-10 .
Well Operat	Of: SWN Production Company, LLC	Address: PO Box 1300
	1 10 April 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Jane Lew, WV 26378
Telephone: Email:	1-832-796-1611 micah feather@swn.com	Facsimile:
Oil and Co.	s Privacy Notice	
The Office of duties. You	of Oil and Gas processes your person r personal information may be dis	al information, such as name, address and telephone number, as part of our regulatory losed to other State agencies or third parties in the normal course of business or as

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received Office of Oil & Gas

FEB 2 6 2015

RECEIVED Office of Oil and Gas ww-6AW (1-12)

MAY 2 2 2015

API NO.	
OPERATOR WELL NO.	Bonnette MSH 1H
Well Pad Name:	Bonnette

WV Depositive first of environmental protection, office of oil and gas Environmental Protection OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Ryan Arp , hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above,

State:	West Virginia	150.000.000.000	Easting:	1,659,088,800		
County:	Marshall	WVSPN NAD 27	Northing:	447,166,200		
District:	Meade	Public Road Access	_	Co Hwy 21 (Emr Route 2)		
Quadrangle:	WILEYVILLE	Generally used farm	name:	BONNETTE, ROBERT & LINDA		
Watershed:	Whetstone Creek	And the second second	-			
*Please check the b		FOR E	XECUTION I	BY A NATURAL PERSON		
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SURFACE O		TOKE	ALCOHOLL	ANATORADIDAGON		
_ bolarioz o	TILL	Signat	ure:			
SURFACEO	WNER (Road and/or Other Disturbanc	ce) Print N	Print Name:			
			Tex 177			
□SURFACE OW	NER (Impoundments/Pits)	Later a	dalam dalam v	A research factor with		
				BY A CORPORATION, ETC.		
⊠COAL OWNE	R OR LESSEE		By:			
			Its:	Ryan Arp Project Engineer		
⊠COAL OPERA	TOR		115.	Project Engineer		
Christman neme	INTER	Signat	ure:	(2/1)		
□WATER PURV	EYOR		ate:	3/19/2015		
DOBED ATOR O	F ANY NATURAL GAS STORAGE	PIELD				

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

January 29, 2015

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Bonnette Pad Well Sites, Marshall County

Bonnette 1H

Bonnette 8H

Bonnette 10H

Bonnette 201H Bonnette 206H

Bonnette 406H

Dear Mr. Martin,

Earl Ray Tomblin

Governor

The West Virginia Division of Highways has transferred Permit #06-2011-0105 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 4 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton

Regional Maintenance Engineer

Day K. Clayton

Central Office Oil &Gas Coordinator

Cc: Brittany Woody Southwestern Energy CH, OM, D-6 File

Received Office of Oil & Gas

FEB 2 6 2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number		
			Ethanol	000064-17-5		
NALCO	EC6110A	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8		
ONESOURCE			Quaternary Ammonium Compounds	N/A-063		
	EC6629A	Biocide	No Hazardous Components	NONE		
	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0		
			Ammonium Persulfate	007727-54-0		
	WBK-134	Breaker	Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7		
			Proprietary Non Hazardous Salt	N/A-229		
	WCS-631LC	Clay Stabilizer	Water	007732-18-5		
	WFR-56LA	Friction Reducer	No Hazardous Components	NONE		
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8		
WEATHERFORD			Potassium Carbonate	000584-08-7		
Warman one	WPB-584-L	Buffer	Potassium Hydroxide	001310-58-3		
	WXL-101LE	Corsslinker	No Hazardous Components	NONE		
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8		
			Water	007732-18-		
			Ethylene Glycol	000107-21-		
	WXL-105L	Crosslinker	Boric Acid	010043-35-3		
			Ethanolamine	000141-43-		
	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8		
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1		
F 19 99	Breaker J218		Diammonium Peroxidisulphate	7727-54-0		
SCHLUMBERGER	EB-Clean* J475 Breaker	Breaker	Diammonium Peroxidisulphate	7727-54-0		
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary		
	Friction Reducer J609	Neducei	Ammonium Sulfate	7783-20-2		

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number	
SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary	
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1	
	Borate Crosslinker J532		Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303 96-4	
	Crosslinker J610	Crosslinker	Aliphatic polyol Potassium hydroxide	Proprietary 1310 58-3	

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number	
			Didecyl Dimethyl Ammonium Chloride	007173-51-1	
			Ethanol	000064-17-5	
	ALPHA 1427	Biocide	Glutaraldehyde (Pentanediol)	000111-30-8	
			Quaternary Ammonium Compound	068424-85-1	
			Water	007732-18-5	
	BF-7L	Buffer	Potassium Carbonate	000584-08-7	
			Choline Chloride	000067-48-1	
	ClayCare	Clay Stabilizer	Water	007732-18-5	
BAKER HUGHES	Enzyme G-I	Breaker	No Hazardous Components	NONE	
	ENZYME G-NE	Breaker	No Hazardous Components	NONE	
4.1	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8	
			Petroleum Distillate Blend	N/A-014	
	GW-3LDF	Gel	Polysaccharide Blend	N/A-021	
			Diethylene Glycol	000111-46-6	
	SCALETROL 720	Scale Inhibitor	Ethylene Glycol	000107-21-1	
			Boric Acid	010043-35-3	
	XLW-32	Crosslinker	Methanol (Methyl Alcohol)	000067-56-1	
	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0	
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7	
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE	
FRAC TECH SERVICES	FRW-200	Friction Reducer	No Hazardous Components	NONE	
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8	
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE	
	LTB-1	Breaker	Ammonium Persulfate	N/A	

AS-BUILT SITE PLAN FOR

BONNETTE PAD A

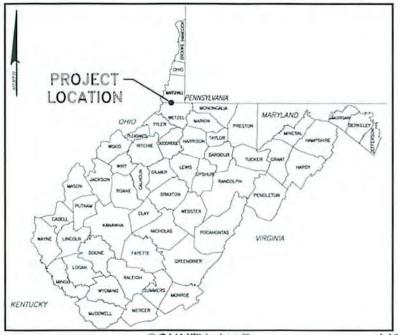
PROCTOR/MEADE DISTRICTS, MARSHALL/WETZEL COUNTIES, WV

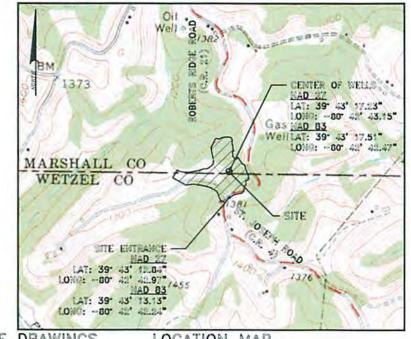




ACCEPTED AS-BUILT 6/6/2015

WVDEP OOG





CALL BEFORE YOU DIG!

Dial 811 or 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEKEKINGS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES SHALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST WIGHINA AT BIT OR T-800-245-4640.

Southwestern Energy

OPERATOR

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WV 26370 (832) 796-1510

DRAWINGS OF

18.	O.	1334		+	+	+	COVER SHEET
2	OF	15.	÷		,		EVACUATION ROUTE/PREVAILING WINDS
3	OF	15.			4	d	.EVACUATION ROUTE/PREVAILING WNDS
4	OF	16.			+	+	.AS-BUILT OVERVIEW
5	OF	16					AS-DUUT

RECLAMATION PLAN

5 OF 16. AS-BUILT 7 OF 15. AS-BUILT

B OF 16. AS-BUILT 9 OF 15. RECLAMATION OVERVIEW 10 OF 16. RECLAMATION PLAN 11 OF 15. RECLAMATION PLAN

13 OF 15. RECLAMATION PLAN 14 OF 15. . DETAILS

12 OF 15.

15 OF 16. DETAILS ACCESS DRIVE PROFILE 15 OF 15.

OCATION

SITE DATA

TOTAL DISTURBED AREA: 13.4 ACRES ROAD DISTURBED AREA: 1.8 ACRES PAD DISTURBED ACRES: 11.6 ACRES ACCESS ROAD LENGTH: 480' ACCESS ROAD AVERAGE WIDTH: 23' WELL PAD ELEVATION: 1,430'

WELL API NUMBERS

API 051-01326 API 051-01308

OF 1

05/04/2015

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34:

DRAWN DATE: ____SCALE: __

COVER SHEET FOR BOWNETTE

