

#### west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

## Wednesday, October 16, 2019 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

HG ENERGY II APPALACHIA, LLC 5260 DUPONT ROAD PARKERSBURG, WV 26101

Re: Permit Modification Approval for 1209 S-8H

47-033-05944-00-00

Updating landing point and bottom hole location.

### HG ENERGY II APPALACHIA, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926-0450.

Operator's Well Number: 1209 S-8H

Farm Name: HG ENERGY II APPALACHIA, LLC

Chief

James A. Martin

U.S. WELL NUMBER: 47-033-05944-00-00

Horizontal 6A New Drill Date Modification Issued: 10/16/2019

Promoting a healthy environment.



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

October 8, 2019

Ms. Laura Adkins WVDEP Division of Oil & Gas 601 57<sup>th</sup> Street Charleston, West Virginia 25304 RECEIVED
Office of Oil and Gas

No.

OCT 1 5 2019

WV Department of Environmental Protection

RE:

Nays 1209 S-7H and S-8H - Permit Revision Request – (47-033-05943, 05944)

Grant District, Harrison County

West Virginia

Dear Ms. Adkins:

Monday evening, while drilling the Nays 1209 S-7H well, during the vertical drilling, at approximately 1161 feet, the hammer drill bit broke off. After review it was determined the drill bit couldn't be retrieved and the 1209 S-7H well will be abandoned and later plugged.

HG is requesting a modification to the well plans for the 1209 S-8H. The surface position will remain the same but the well path will vary slightly to redirect to the S-7H landing point and bottom hole coordinates. Attached are the WW-6B, the Casing Schematic and Survey Plat for the modified 1209 S-8H lateral. A revised WW-A1 and lease chain aren't needed as they haven't changed from the original approved permit.

Plans will be made to abandon and plug the 1209 S-7H well in a timely fashion as coordinated with the drilling and frac operations for the 1209 well pad. The paperwork will be submitted shortly.

Sam Ward, Harrison County DEP Inspector, was contacted as soon as the drilling problem was identified. He's reviewed and approved the attached paperwork. We'll remain in continuous contact with him through this process.

Please let me know if you have any questions or require additional information. I can be reached at (304) 420-1119 or <a href="mailto:dwhite@hgenergyllc.com">dwhite@hgenergyllc.com</a>.

Very truly yours, Diane White

Diane C. White

Enclosures

cc: Sam Ward – Inspector



HG Energy, LLC 5260 Dupont Road Parkersburg, WV 26101 (304) 420-1100 - Office (304) 863-3172 - Fax

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Very truly yours,

Diane White

Diane C. White

Enclosures

co:

Sam Ward - Inspector

10/10/2019

API NO. 47		
OPERATOR WELL	NO.	Nays 1209 S-8H
Well Pad Name:	Nays 1	209

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

1) Well Operate	or: HG En	ergy II Appa	lachia, 📙		19932	Harrison	Union	West Milford 7.5'
				Ope	ator ID	County	District	Quadrangle
2) Operator's V	Vell Numbe	r: Nays 1209	S-8H		_ Well Pac	i Name: Nay	/s 1209	
3) Farm Name/	Surface Ow	ner: Nays/HG	Energy II App	alachia	Public Roa	d Access: K	incheloe Ru	n Rd/SLS 35
4) Elevation, cu	ırrent groun	d: 1002'	Ele	evation	, proposed	post-construc	ction: 1007'	
5) Well Type	(a) Gas Other	<u>x</u>	_ Oil		Unde	erground Stor	rage	
	(b)If Gas	Shallow	x		Deep			
<b>.</b>		Horizontal	X		_			
6) Existing Pad	: Yes or No	No				_		
7) Proposed Ta Marcellus at		ion(s), Deptho and 51' in thicl		-		•	Pressure(s):	
8) Proposed To	tal Vertical	Depth: 6900	)'					
9) Formation at	Total Verti	cal Depth:	<i>l</i> arcellus					
10) Proposed T	otal Measur	red Depth: _1	7,250'					
11) Proposed H	Iorizontal L	eg Length: 🤦	9,631'		· · · · · · · · · · · · · · · · · · ·		·	
12) Approxima	te Fresh Wa	iter Strata Dej	oths:	135',	500'	· <del>-</del>		
13) Method to	Determine F	resh Water D	epths: N	leares	t offset we	II data		
14) Approxima	te Saltwater	Depths: No	ne noted	in offs	ets	-		
15) Approxima	te Coal Sea	m Depths: 6	60' to 665	5'		·		
16) Approxima	te Depth to	Possible Void	l (coal mi	ne, kaı	st, other):	None		
17) Does Propo directly overlyi					Zes	N	10 X	
(a) If Yes, pro	vide Mine	Info: Name:						
		Depth						
RECEIVE	D	Seam:						
Office of Oil ar	nd Gas	Owner	:		·	· -		

OCT 1 5 2019

WV Department of Environmental Protection

API NO. 47	
OPERATOR WEL	L NO. Nays 1209 S-8H
Well Pad Name	: Nays 1209

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

1) Well Operate	or: HG Ene	rgy II Appa	alachia, L	494519932	Harrison	Union	West Milford 7.5'
				Operator ID	County	District	Quadrangle
2) Operator's V	Well Number:	Nays 120	9 S-8H	Well	Pad Name: Na	ys 1209	
3) Farm Name/	Surface Owne	er: Nays/HG	Energy II Ap	palachia Public l	Road Access: K	incheloe Ru	n Rd/SLS 35
4) Elevation, cu	urrent ground:	1002'	EI	evation, propos	sed post-constru	ction: 1007'	
5) Well Type	(a) Gas X Other		_ Oil	U	nderground Sto	rage	
	(b)If Gas	Shallow	x	Deep			-
rantonia i tra i trancia		Horizontal	<u>x</u>				
<ol><li>Existing Pad</li></ol>	-	~					6
The second secon				ipated Thickne nticipated pressu	ss and Expected are at 4314#.	Pressure(s):	58
8) Proposed To	tal Vertical D	epth: 690	0'				•
9) Formation at	t Total Vertica	al Depth:	Marcellus	3			
10) Proposed T	otal Measured	d Depth:	17,250'				
11) Proposed H	Iorizontal Leg	Length:	9,631'	,			
12) Approxima	ite Fresh Wate	r Strata De	pths:	135', 500'			
13) Method to I	Determine Fre	esh Water I	Depths: 1	Vearest offset	well data		
14) Approxima	te Saltwater D	Depths: No	one noted	in offsets			
15) Approxima	te Coal Seam	Depths: 6	60' to 66	5'			
16) Approxima	te Depth to Po	ossible Voi	d (coal mi	ine, karst, other	): None	maniming at a process of the second	
17) Does Propo directly overlyi				ms Yes	1	No X	
(a) If Yes, pro	ovide Mine In	fo: Name	:				
oe.(本 )(日 )( )(4)克( <b>者</b> ))		Depth	:				
		Seam		19	//		

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14.

WV Department of Environmental Protection

WW-6B	
(04/15)	

API NO. 47		
OPERATOR WELL	NO. Nays	1209 S-8H
Well Pad Name:	Nays 1209	

# 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	30"	New	LS	157.5	100'	100'	Drilled In
Fresh Water	20"	NEW	J-55	94	750'	750'	40% excess, yield =1.20,CTS
Coal	13 3/8"	NEW	J-55	68	1735'	1735'	40% excess yield = 1.20,CTS
Intermediate	9 5/8"	NEW	J-55	40	2500'	2500'	40% excess yield Lead/ 0% Excess T
Production	5 1/2"	NEW	P-110	23	17250'	17250'	20% excess yield = 1.19, tail yield = 1.04
Tubing							
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> <u>Diameter (in)</u>	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	30"	30"	.500				CTS
Fresh Water	20"	24"	.438	2110	1200	Type 1, Class A	30 % excess yield = 1.20, CTS
Coal	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	40% excess yield = 1.20, CTS
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	40% excess yield = 0% Excess Lead_40
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	20% excess yield = 1.19, tall yield 1.94 (
Tubing							-
Liners							

# **PACKERS**

Kind:		
Sizes:		
Depths Set:		

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Environmental Protection

OCT 1 5 2019

NO. 47-OPERATOR WELL NO. Naya 1209 S-8H Well Pad Name: Nays 1209

18)

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Intermediate	9 5/8"	NEW	J-55	40	2500'	2500'	40% evers yield Lead*0% Excess Tails
Production	5 1/2"	NEW	P-110	23	17250'	17250'	70% excess yets + 1.53, tol yets + 1 ES
Tubing							
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	30"	.500				CTS
Fresh Water	20"	24"	.438	2110	1200	Type 1, Class A	30 % excess yield × 1.20, CTS
Coal	13 3/8"	17 1/2"	.480	3450		Type 1/Class A	40% excess yield = 1.20, CTS
Intermediate	9 5/8"	12 1/4"	.395	3950		Type 1/Class A	40% arcana yinis + 2% Estena Loset et
Production	5 1/2"	8 1/2"	.415	16240	12500	Type 1/ClassA	25% (1823) yani + 1.13, takyini 1.54
Tubing							
Liners							

### PACKERS

Kind:	
Sizes:	
Depths Set:	

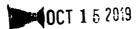
Page 2 of 3

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OCT 1 5 2019

WV Department of **Environmental Protection** 

### RECEIVED Office of Oil and Gas



API NO. 47-OPERATOR WELL NO. Nays 1209 S-8H Well Pad Name: Nays 1209

#### WV Department of **Environmental Protection**

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill the vertical depth to the Marcellus at an estimated total vertical depth of approximately 6900 feet. Drill horizontal leg to estimated 9,631' TMD, stimulate and be capable of producing from the Marcellus Formation. Should we encounter an unanticipated void in the coal, we will install a minimum of 20' of casing below the void but not more than 100' below the void, set a basket and grout to surface.

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

The stimulation will be completed with multiple stages divided over the lateral length of the well. Stage spacing is dependent upon engineering design. Slickwater fracturing technique will be utilized on each stage using sand, water, and chemicals. See attached list. Maximum pressure not to exceed 12,500 psi.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.148 acres
- 22) Area to be disturbed for well pad only, less access road (acres): 10.834 acres
- 23) Describe centralizer placement for each casing string:

a centralizers will be used with conductor casing.

sethmater - contralizers way 3 joints to surface.

set - Bow Spring on every joint

set - Bow Spring on every joint

set - Bow Spring on first 2 joints then every third joint to 100° from surface.

sethmaterial - Bow Spring on first 2 joints then every third joint to 100° from surface.

sethmaterial - Bow Spring on first 2 joints then the boy of the curve to surface. Run 1 spiral contralizer

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

25) Proposed borehole conditioning procedures:

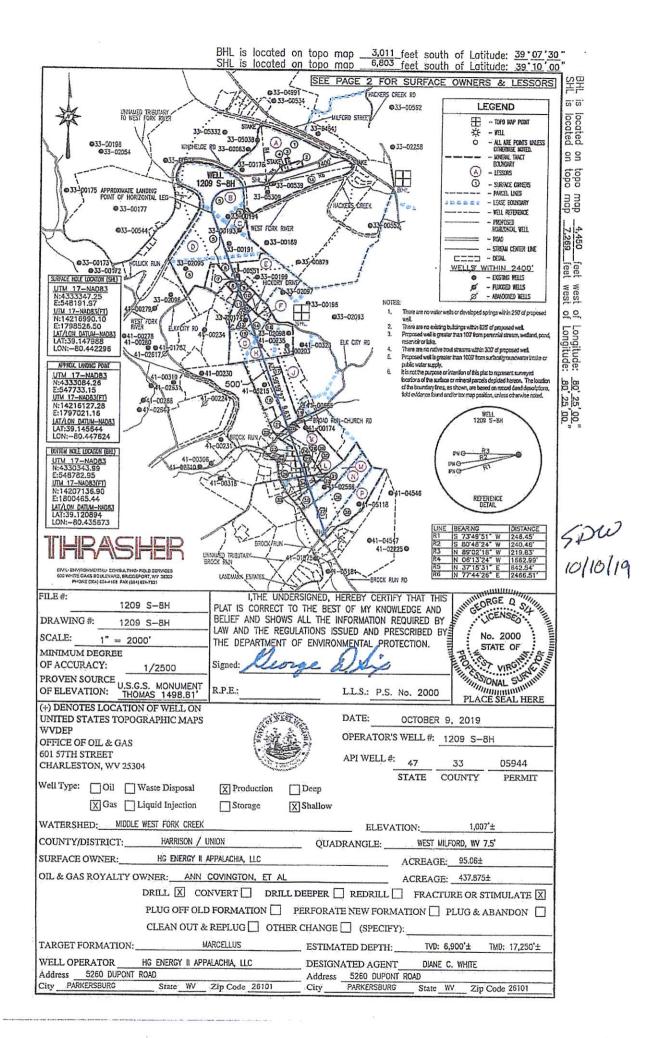
\*Note: Attach additional sheets as needed.

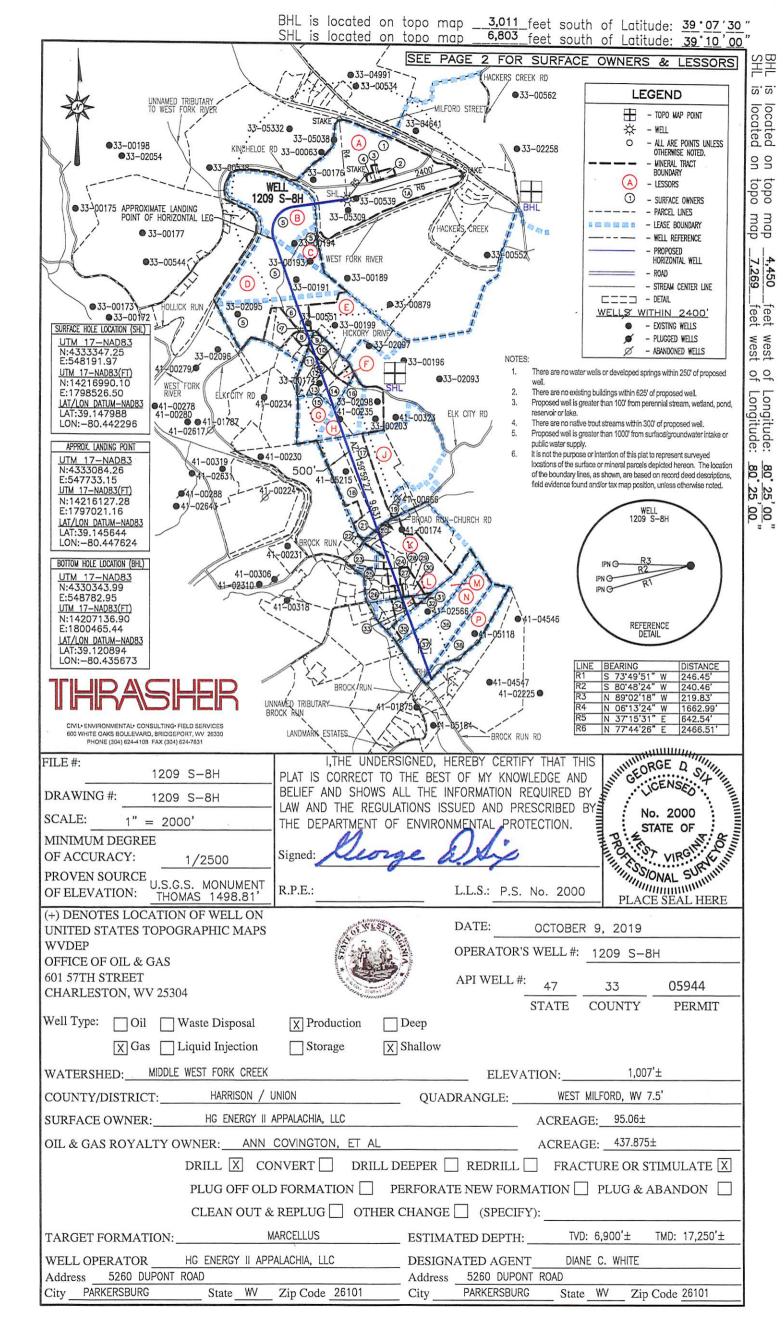
#



# 1209 S-8H Marcellus Shale Horizontal Harrison County, WV

					1209 \$	S-8H SH	L	2	237379.28N 173270	3.34E	
Ground Elevation 10		1007	1209 S-8H LP			•	236541.35N 1731183.32E				
Azm		159.992°			1209 S-8H BHL				227491.7N 1734478.59E		
WELLBORE DIAGRAM	HOLE	CASING	GEOLOGY	ТОР	BASE	MUD	CEMENT	CENTRALIZERS	CONDITIONING	COMMENTS	
	158										
	30"	30" 157.5# LS	Conductor	0	100	AIR	N/A, Casing to be drilled in w/ Dual Rotary Rig	N/A	Ensure the hole is clean at TD.	Conductor casing = 0.5" wa thickness	
		20" 94# J-55	Fresh Water	0	135	AIR	15.6 ppg PNE-1 + 3% bwoc CaCl 40% Excess Yield=1.20 / CTS	Centralized every 3 joints to surface	Once casing is at setting depth, circulate a minimum of one hole volume with Fresh Water prior to pumping cement.	Surface casing = 0.438" wal thickness Burst=2110 psi	
	24"		Kittaning Coal	660	665						
			Fresh Water	0	750						
		10.01011.007	Little/Big Lime	1126 / 1167	1151 / 1243	Salt	Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on every joint  *will also be running ECP for isolating storage zone*	Once casing is at setting depth, Circulate and condition at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.480 wall thickness Burst=3450 psi	
	17.5"	13-3/8" 68# J-55 BTC	Injun / Gantz (Storage)	1243 / 1535	1349 / 1585						
			Intermediate 1	0	1735						
			Fifty / Thirty Foot	1650 / 1730	1697 / 1742		Lead: 15.4 ppg PNE-1 + 2.5% bwoc CaCl 40% Excess / Tail: 15.9 ppg PNE-1 + 2.5% bwoc CaCl zero% Excess. CTS	Bow Spring on first 2 joints then every third joint to 100' form surface	Once casing is at setting depth, Circulate and condition mud at TD. Circulate a minimum of one hole volume prior to pumping cement.	Intermediate casing = 0.395 wall thickness Burst=3950 psi	
		9-5/8" 40# J-55 BTC	Gordon Stray / Gordon	1785 / 1850	1850 / 1940	AIR / KCL - Salt Polymer					
	12.25"		5th Sand	2035	2070						
			Bayard Sand	2125	2160						
			Intermediate 2	0	2500						
X		5-1/2" 23# P-110 HP CDC HTQ	Speechley	2745	2763	9.0ppg SOBM	Lead: 14.5 ppg POZ:PNE-1 + 0.3% bwoc R3 + 1% bwoc EC1 + 0.75 gal/sk FP13L + 0.3% bwoc MPA170 Tail: 14.8 ppg PNE-1 + 0.35% bwoc R3 + 0.75 gal/sk FP13L + 50% bwoc ASCA1 + 0.5% bwoc ASCA1 + 0.5% bwoc MPA170 20% Excess Lead Yield=1.19 Tail Yield=1.94 CTS	Run 1 spiral centralizer every 5 joints from the top of the curve to surface.	Once on bottom/TD with casing, circulate at max allowable pump rate for at least 2x bottoms up, or until returns and pump pressures indicate the hole is clean. Circulate a minimum of one hole volume prior to pumping cement.	Production casing = 0.415" wall thickness Burst=16240 psi Note:Actual centralizer schedules may be changed due to hole conditions	
	8.5" Vertical		Balltown	2965	3005						
	6.5 Vertical		Benson	4050	4083						
			West Falls	4620	5865						
			Rhinestreet	5865	6140	11.5ppg- 12.5ppg SOBM		Run 1 spiral centralizer every 3 joints from the 1st 5.5" long joint to the top of the curve.			
			Cashaqua	6140	6341						
	8.5" Curve		Middlesex	6341	6421						
			West River	6421	6514						
			Burkett	6514	6540						
			Tully Limestone	6540	6644						
			Hamilton	6644	6863						
	8.5" Lateral		Marcellus	6863	6914	11.5ppg- 12.5ppg SOBM					
			TMD / TVD (Production)	17249	6900						
x x			Onondaga	6914							
	X	Х		X		X	X	X	, x	TD C . / 0000 T / D	
LP @ 6	900' TVD / 7618' MD			.5" Hole - Cemented 5-1/2" 23# P-110 H				+/-963	1' ft Lateral	TD @ +/-6900' TVD +/-17249' MD	





# 1209 S-8H PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	P/0 20-444/11.2
1A	HG ENERGY II APPALACHIA, LLC	P/0 20-444/11.2
2	HG ENERGY II APPALACHIA, LLC	20-444/11.3
3	AARON C. & CHRISTINA P. MEDINA	20-444/11
4	HG ENERGY II APPALACHIA, LLC	20-444/11.1
5	ROCK GARTON	12-444/26
6	NORMAN W. & MARGARET A. LOHR	12-444/27.2
7	NORMAN W. & MARGARET A. LOHR	12-444/27.1
8	TRAVIS W. & LOGAN M. SWIGER	12-444/28.1
9	BRYAN D. & KIMBERLY J. SMITH	12-444/37.9
10	BRYAN D. & KIMBERLY J. SMITH	12-444/37.8
11	DAKOTA M. DAVIS	12-444/37.1
12	KAREN L. CRISLIP	12-444/37.2
13	KEVIN MARION	12-444/37.3
14	DONALD EARL HONAKER	12-444/37.4
15	ROBERT SCOTT STARKEY	4-7B/59
16	ROBERT SCOTT STARKEY	4-7B/60
17	LEE ARCH & SUSAN B. STALNAKER	4-7B/5.1
18	MARK D. & MARY ELIZABETH REASER	4-7B/5.7
19	HERBERT & VELMA SIAS	4-7B/29.17
20	HERBERT & VELMA SIAS	4-7B/28.1
21	HERBERT & VELMA SIAS	4-7B/28.2
22	DANIEL R. & SARITA M. PRINCE	4-7B/28
23	CEMETERY BROAD RUN	4-7B/25
24	CEMETERY BROAD RUN	4-7B/26
25	ARQUILLA JANE RAINES	4-78/29.13
26	CARMEN V. BUTCHER	4-7C/74
27	STEPHANIE KIRKPATRICK	4-7C/75
28	VIRGIL B. & MELODY K. WHITE	4-7B/29.10
29	CHARLES E. BYRNE	4-7C/86
30	ALLEN C. & LILLY M. JACKSON	4-7C/73
31	FRANK L. & MARY ELLEN BRAGG	4-7C/68
32	FRANK L. & MARY ELLEN BRAGG	4-7C/64
33	FRANK L. & MARY ELLEN BRAGG	4-7C/59
34	RALPH L. COLE	4-7C/62
35	ROBERT G. & ALISA G. GUM	4-70/30.2
36	ROBERT G. & ALISA G. GUM	4-7C/31
37	ROBERT G. & ALISA G. GUM	4-7C/31.1
38	KEVIN B. & SHERI K. JERDEN	4-8C/1.1

SURFACE HOLE LOCATION (SHL) UTM 17-NAD83 N:4333347.25 E:548191.97 E:548191.97 <u>UTM 17-NAD83(FT)</u> N:14216990.10 E:1798526.50 <u>LAT/LON DATUM-NAD83</u> LAT:39.147988 LON:-80.442296

APPROX. LANDING POINT APPROX. LANDING POINT

UTM 17—NAD83
N:4333084,26
E:547733.15
UTM 17—NAD83(FT)
N:14216127.28
E:1797021.16
LAT/LON DATUM—NAD83
LAT:39.145644
LON:—80.447624

BOTTOM HOLE LOCATION (BHL) BOTTOM HOLE LOCATION (BHL)

UTM 17—NAD83
N:4330343.99
E:548782.95
UTM 17—NAD83(FT)
N:14207136.90
E:1800465.44
LAT/LON DATUM—NAD83
LAT:39.120894
LON:—80.435673

	LESSOR	LEASE NO.	DIST-TM/PAR		
Α	J. B. GUSMAN ET AL	FK020606	20-444/11.2		
В	J. A. HARDWAY ET AL	FK004424	12-444/26		
С	J. Q. MUSSER	FK061781	1		
D	W. W. BRANNON ET UX	FK032708	1		
E	J. K. MUSSER ET UX	FK002243	12-444/26		
		1	12-444/27.2		
			12-444/27.1		
			12-444/28.1		
F	KENNETH R. SIMONS ET AL	FK064201	12-444/37.1		
	O.B. FRASHUER ET UX	FK064206	12-444/37.2		
		1.7100 1200	12-444/37.9		
			12-444/37.8		
	2		12-444/37.3		
			12-444/37.4		
G	ETHEL B. PAINE ET AL	FK064249	4-7B/59		
Н	J. Q. MUSSER ET UX	FK002249	4-7B/59		
			4-7B/60		
J	S. G. HALL ET UX	FK014031	4-7B/5.1		
	product and the second and the secon		4-7B/5.7		
K	ALDA V. HITT	FK077958	4-7B/28.1		
			4-7B/28.2		
		1	4-7B/28		
			4-7B/25		
		1	4-7B/26		
		1	4-7B/29.13		
			4-7C/74		
L	C. A. BAILY	CNX26831600	4-7C/64		
	0.00 0.0000		4-7C/59		
			4-7C/62		
М	J. H. BAILEY ET AL	Q102176000	4-7C/30.2		
N	ALISA G. GUM	Q102118000	4-7C/31		
	LORI LEE CALDWELL	Q102123000	4-7C/31.1		
	GERALD W. RAMSBURG	Q098757000			
	KARRIE DIANE SIMS	Q102112000			
	DENISE C. CARSON	Q102117000			
	KAREN K. HOBBS	Q102122000			
	KATRINA L. WEST	Q102121000			
	DAVID C. GARVIN	Q102119000	7		
Р	KEVIN B. JERDEN ET UX	Q102115000	4-8C/1.1		

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE



**OCTOBER 9, 2019**