



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

May 18, 2015

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9703331, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: 626235

Farm Name: COASTAL LUMBER COMPANY

API Well Number: 47-9703331

Permit Type: Plugging

Date Issued: 05/18/2015

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
3. Well work activities shall not constitute a hazard to the safety of persons.

9703331P

WW-4B
Rev. 2/01

1) Date April 10, _____, 20 15
2) Operator's
Well No. 626235
3) API Well No. 47-097 - 03331

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil _____ / Gas X / Liquid injection _____ / Waste disposal _____ /
(If "Gas, Production _____ or Underground storage _____) Deep _____ / Shallow X

5) Location: Elevation 2579' Watershed Booths Creek
District Banks County Upshur Quadrangle Goshen

6) Well Operator SWN Production Co., LLC 7) Designated Agent Dee Southall
Address P.O. Box 1300 Address P.O. Box 1300
Jane Lew, WV 26378 Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Bill Hatfield Name R & J Well Service
Address PO Box 522 Address P.O. Box 37
Buckhannon, WV 26201 Hueysville, KY 41640

10) Work Order: The work order for the manner of plugging this well is as follows:

MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank. PU additional 2 3/8" tubing, TIH and tag permanent plug at 1,950'. NOTE: If PBTD is incorrect, SD and contact Engineer. Circulate hole with 31 bbls of 6% gelled water. Pump 15 sks of Class A cement for 174' cement plug across open perforations located at 1,876' - 1,890', flush tubing with 8 bbls 6% gelled water. TOOH with 2 3/8" tubing to surface. SD & WOC for 8 hours. 8. RIH w/ sandline tools & tag plug @ 1,776' +/- +/- Plug must be at 1,776' or higher; Add additional cement if needed. ND BOP & 'B' Section. Weld on 4 1/2" pull sub. RU casing jacks and remove slips. Work casing for free point and ensure casing is free at or deeper than 1,040'. NU 'B' Section & BOP. RU Wireline and cut 4 1/2" 10.5# casing @ 1,040'. Pull and laydown casing. (Note TOC @ 1,070') .TIH w/ 2 3/8" tubing to 1,090' (50' inside of 4 1/2" casing). Circulate hole w/ 40 bbls of 6% gelled water. Pump 19 sks of Class A cement for 124' cement plug (50' inside of 4 1/2", 24' inside open hole and 50' in surface casing), flush tubing with 5 bbls 6% gelled water. TOOH + 300' with 2 3/8" tubing. SD & WOC for 8 hours. TIH w/ 2 3/8" tubing & tag plug @ 966'. Plug must be at 966' or higher; Add additional cement if needed. Inspect 7" casing for cement top. First visually inspect backside of 7" for signs of cement at surface. If no visible signs are present call for CBL of 7" casing. a. If cement top is at surface proceed to step 15 b. If cement top is not at surface must attempt to cut and pull 7" casing based on CBL. Work with SWN engineering and state inspector to establish cut point. Will have to cement across cut point then proceed to step 15 TOOH w/ 2 3/8" tubing to 100' Pump 4 bbl of 6% gelled water or break circulation. Pump 19 sks of Class A cement for 100' surface cement plug, TOOH w/ tubing. Top off well with required

Class A cement as needed. Install a 36 inch casing monument w/ 2" vent. Install Aluminum plat monument with ALL required WV dates and WV API number.

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Received

OK gmm

Work order approved by inspector _____

Date APR 27 2015

OK

SCOPE OF OPERATION

1. Safety is the highest priority. Control costs and avoid unnecessary expenditures.
2. TIH with 2-3/8" tubing to PBTD of 1,950'.
3. Pump required cement and gel plugs per WV DEP state requirements
4. Plant a well monument with WV State API number

PROCEDURE

1. Contact the WV State Inspector 48 hours prior to operations.
2. Safety is the highest priority. Hold wellsite safety meetings prior to each significant operation. Review critical parameters and objectives as well as emergency action plans.
3. MIRU construction equipment if necessary to repair road / location in order to get workover rig in. Remove any tanks, separators, well lines, meter runs, exc.
4. MIRU service rig & needed BOP equipment. NOTE: Blow down well to pit or tank.
5. PU additional 2 3/8" tubing, TIH and tag permanent plug at 1,950'. NOTE: If PBTD is incorrect, SD and contact Engineer.
6. Circulate hole with 31 bbls of 6% gelled water. Pump 15 sks of Class A cement for 174' cement plug across open perforations located at 1,876' – 1,890', flush tubing with 8 bbls 6% gelled water.
7. TOOH with 2 3/8" tubing to surface. SD & WOC for 8 hours.
8. RIH w/ sandline tools & tag plug @ 1,776' +/- . Plug must be at 1,776' or higher; Add additional cement if needed.
9. ND BOP & 'B' Section. Weld on 4 1/2" pull sub. RU casing jacks and remove slips. Work casing for free point and ensure casing is free at or deeper than 1,040'.
10. NU 'B' Section & BOP. RU Wireline and cut 4 1/2" 10.5# casing @ 1,040'. Pull and laydown casing. (Note 5-1/2" TOC @ 1,070')
11. TIH w/ 2 3/8" tubing to 1,090' (50' inside of 4 1/2" casing). Circulate hole w/ 40 bbls of 6% gelled water. Pump 19 sks of Class A cement for 124' cement plug (50' inside of 4 1/2", 24' inside open hole and 50' in surface casing), flush tubing with 5 bbls 6% gelled water.
12. TOOH ± 300' with 2 3/8" tubing. SD & WOC for 8 hours.
13. TIH w/ 2 3/8" tubing & tag plug @ 966'. Plug must be at 966' or higher; Add additional cement if needed.

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APR 27 2015

14. Inspect 7' casing for cement top. First visually inspect backside of 7" for signs of cement at surface. If no visible signs are present call for CBL of 7" casing.

OK
y/m/m

a. If cement top is at surface proceed to step 15.

b. If cement top is not at surface must attempt to cut and pull 7" casing based on CBL. Work with SWN engineering and state inspector to establish cut point. Will have to cement across cut point then proceed to step 15.

15. TOOH w/ 2 3/8" tubing to 100' Pump 4 bbl of 6% gelled water or break circulation. Pump 19 sks of Class A cement for 100' surface cement plug, TOOH w/ tubing.

16. Top off well with required Class A cement as needed.

17. Install a 36 inch casing monument w/ 2" vent. Install Aluminum plat monument with **ALL required WV dates and WV API number.**

18. RDMO all service equipment providers and reclaim location to WV State requirements.

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APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015



**Coastal Forest Resources Co 1 (626235)
P&A Procedure
Upshur County, WV
API Number: 47-097-03331
GWI: 0.975 NRI: 0.975**

April 14, 2015

Discussion

Approval is requested to plug and abandon the subject well, Coastal Forest Resources Co 1. The subject well is located in Upshur County, WV. It was spud 2/13/2007 and drilled to a depth of 4,350' where it was completed in the Riley, Bradford LWR and Bradford UPR. Presently the well is non-producing with no recorded production. The subject well proved to be uneconomical and was plugged back to 1,950' with a permanent bridge plug. The well was then unsuccessfully tested uphole in the Big Injun formation. Since there is not any further uphole potential, it is recommend that SWN plug and abandon the subject well to eliminate operating cost associated with the asset and mitigate any future liability associated with the well. Additionally the well is listed on the WVDEP plug or produce ultimatum expiring 2020.

Received

APR 27 2015

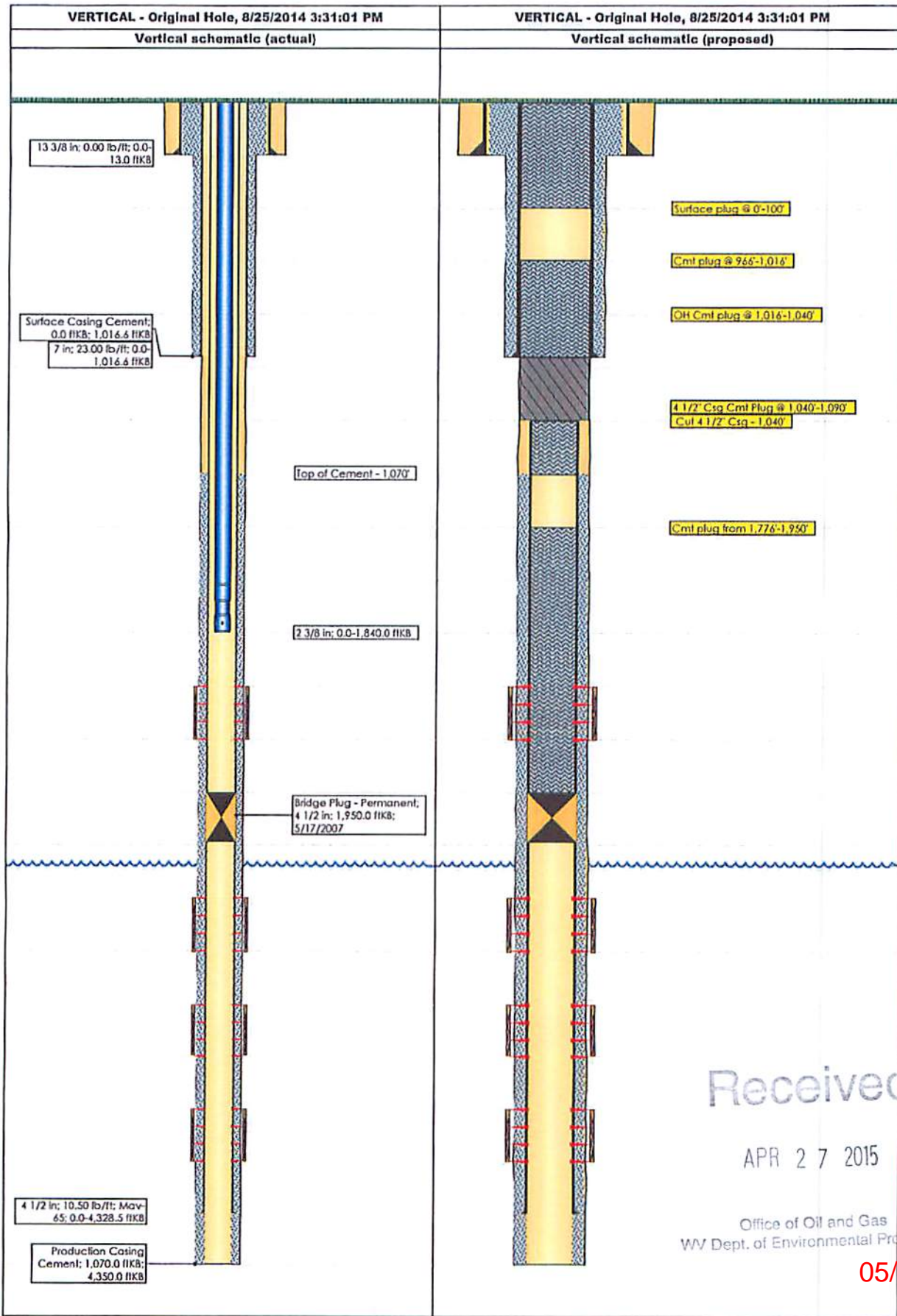
Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015

Proposed Plugging Wellbore Schematic

WELL (PN): COASTAL FOREST RESOURCES CO 1 (626235)
 STATE / COUNTY: WEST VIRGINIA / UPSHUR
 FIELD: CLEVELAND STORAGE
 LOCATION: T/D BANKS, Q-GOSHEN
 ELEVATION: GL: 2,565.0 KB: 2,565.0 KB HEIGHT: 0.0
 DEPTHS: TD: 4,350.0

API #: 470970333100
 SPUD DATE: 2/13/2007
 RIG RELEASE: 4/24/2007
 1ST SALES GAS: 6/8/2007
 1ST SALES OIL:
 CURRENT STATUS: SHUTIN



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APR 27 2015

Office of Oil and Gas
 WV Dept. of Environmental Protection

05/22/2015

9703331P

Current Wellbore Schematic

WELL (PN): COASTAL FOREST RESOURCES CO 1 (626235)
 FIELD OFFICE:
 FIELD: CLEVELAND STORAGE
 STATE / COUNTY: WEST VIRGINIA / UPSHUR
 LOCATION: T/D BANKS, Q-GOSHEN
 ROUTE: CE-JLC-RT 302 - KENNA ULDERICH
 ELEVATION: GL: 2,565.0 KB: 2,565.0 KB Height: 0.0
 DEPTHS: TD: 4,350.0

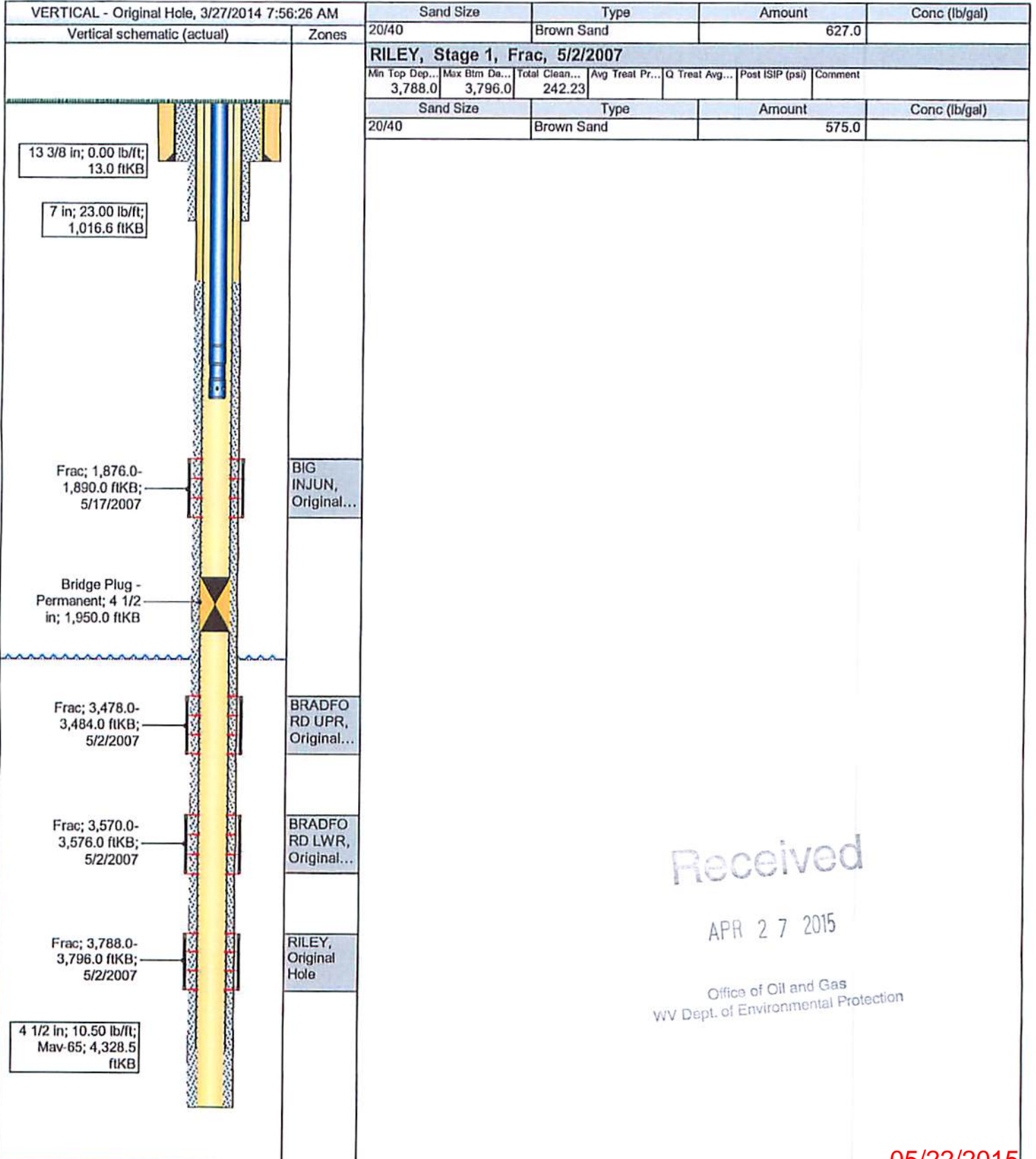
API #: 4709703331
 Serial #: 3331
 SPUD DATE: 2/13/2007
 RIG RELEASE: 4/24/2007
 FIRST SALES: 6/8/2007

VERTICAL - Original Hole, 3/27/2014 7:56:26 AM		Conductor Casing; Set @ 13.0 ftKB ; Original Hole									
Vertical schematic (actual)	Zones	Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)			
		Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)
		Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)			
	Casing Joints	13 3/8						0.0	13.0	13.00	
	Surface Casing; Set @ 1,016.6 ftKB ; Original Hole										
	Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
	Casing Joints	7	6.366		23.00			0.0	1,016.6	1,016.60	
	Production Casing; Set @ 4,328.5 ftKB ; Original Hole										
	Set Tension (kips)		Mud Weight		Cut Pull Date		Depth Cut Pull (ftKB)				
	Casing Joints	4 1/2	4.052		10.50	Mav-65		0.0	4,328.5	4,328.50	
	Description: Surface Casing Cement 0.0-1,016.6 Top of Cement (ftKB): 0.0 Top Measurement Method:										
	BIG INJUN, Original...	Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft ³ /sack)			
Description: Production Casing Cement 1,070.0-4,350.0 Top of Cement (ftKB): 1,070.0 Top Measurement Method: Wireline Tag											
BIG INJUN, Original...	Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft ³ /sack)				
	Lead	4/23/2007	200	Standard							
Tubing String: Tubing - Production											
Set Depth (ftKB)		Wellbore		Run Date		Pull Date		Cut Pull Date			
1,840.0		Original Hole		6/4/2007							
BRADFORD UPR, Original...	Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts	
	Tubing	2 3/8	1.995	1.901	4.60	J-55	0.0	1,839.0	1,839.00		
BRADFORD UPR, Original...	Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Jts	
	Seat Nipple	2 3/8	1.995				1,839.0	1,840.0	1.00	1	
Perforations											
BRADFORD LWR, Original...	Date	Zone		Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Current Status				
	5/17/2007	BIG INJUN, Original Hole		1,876.0	1,890.0						
	5/2/2007	BRADFORD UPR, Original Hole		3,478.0	3,484.0						
	5/2/2007	BRADFORD LWR, Original Hole		3,570.0	3,576.0						
	5/2/2007	RILEY, Original Hole		3,788.0	3,796.0						
Stimulations & Treatments											
BIG INJUN, Stage 3, Frac, 5/17/2007											
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment					
1,876.0	1,890.0										
BRADFORD UPR, Stage 2, Frac, 5/2/2007											
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment					
3,478.0	3,484.0										
BRADFORD LWR, Stage 2, Frac, 5/2/2007											
Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment					
3,570.0	3,576.0	283.48									

Current Wellbore Schematic

WELL (PN): COASTAL FOREST RESOURCES CO 1 (626235)
 FIELD OFFICE:
 FIELD: CLEVELAND STORAGE
 STATE / COUNTY: WEST VIRGINIA / UPSHUR
 LOCATION: T/D BANKS, Q-GOSHEN
 ROUTE: CE-JLC-RT 302 - KENNA ULDERICH
 ELEVATION: GL: 2,565.0 KB: 2,565.0 KB Height: 0.0
 DEPTHS: TD: 4,350.0

API #: 4709703331
 Serial #: 3331
 SPUD DATE: 2/13/2007
 RIG RELEASE: 4/24/2007
 FIRST SALES: 6/8/2007



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Office of Oil and Gas
 WV Dept. of Environmental Protection

WELL DATA

Location (Surface)	Lat. 38.7116028 Long. -80.2713309
TD	4,350'

CASING AND TUBULAR DATA

STRING	SIZE	WEIGHT/GRADE	DEPTH
Surface	7"	23 lb/ft; Not Known	1016.6'
Production	4 1/2"	10.50 lb/ft; Mav-65	4,328.5'

PRESSURE AND DIMENSIONAL DATA

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	DRIFT
7"	23 lb/ft	Not Known	4,350	3,270	6.241"
4 1/2"	10.5 lb/ft	Not Known	4,790	4,010	3.927
2 3/8"	4.7 lb/ft	N-80	11,200	11,780	1.901"

CAPACITIES

SIZE	WEIGHT	CAPACITY (FT ³ /FT.)	CAPACITY (BBL/FT.)
7"	23 lb/ft	0.2210	0.0393
6 1/8"	Open Hole	0.2046	0.0364
4 1/2"	10.5 lb/ft	0.0895	0.0159
2 3/8"	4.6 lb/ft	0.0217	0.0039

DRIVING DIRECTIONS

Contact Field Personnel

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Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015

PERSONNEL / PHONE LIST**Central District Team**

Production Manager	Chris Flanagan	Office: (304) 517-1416 Mobile: (304) 203-4985
Completions Superintendent	Shawn Jackson	Office: (304) 884-1618 Mobile: (304) 641-3204
Land Man	Randy Orsburn	Office: (304) 517-1416
WV State Inspector	Bill Hatfield	Cell: (304) 767-1828

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APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015

9703331A

WR-35

DATE: January 28, 2008
API #: 47-9703331

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: COASTAL LUMBER COMPANY Operator Well No.: 626235

LOCATION: Elevation: 2,579' Quadrangle: GOSHEN 7.5

District: BANKS County: UPSHUR

Latitude: 13850 Feet South of 38 Deg. 45 Min. 00 Sec.

Longitude: 6100 Feet West of 80 Deg. 15 Min. 00 Sec.

Company: CHESAPEAKE APPALACHIA, L.L.C.

	Casing & Tubing	Used in Drilling	Left in well	Cement fill up Cu. Ft.
Address: Post Office Box 6070 Charleston, WV 25362-0070				
Agent: Michael John				
Inspector: Craig Duckworth	7"	1016'	1016'	
Date Permit Issued: 12/27/2006	4 1/2"	4329'	4329'	200 sks
Date Well Work Commenced: 04/20/2007				
Date Well Work Completed: 06/07/2007	Set CIBP	@ 1950'		
Verbal Plugging:				
Date Permission granted on:				
Rotary XX Cable Rig				
Total Depth (feet): 4350				
Fresh Water depths (ft): 140'				
Salt water depths (ft): None				
Is coal being mined in area (Y/N)? NO				
Coal Depths (ft): 193-196, 997-1000				

RECEIVED
Office of Oil & Gas
JUL 10 2008

WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation Riley, Upper/Lower Bradford Pay zone depth (ft) 3478-3803

X Gas: Initial open flow 133 MCF/d Oil: Initial open flow Bbl/d
Final open flow 94 MCF/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 2 Hours

Static rock Pressure 250 psig (surface pressure) after 72 Hours

Second producing formation Big Injuin Pay zone depth (ft)

Gas: Initial open flow 50 MCF/d Oil: Initial open flow Bbl/d
Final open flow 0 MCF/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests 4 Hours

Static rock Pressure 110 psig (surface pressure) after 72 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: [Signature], Chesapeake Appalachia, L.L.C.
By: Mart Watkins, District Manager

Date: 7/09/08

Received

APR 27 2015

FORMATION RECORD: Well
 0 to from Driller's Log Book, to TD from Gamma Ray Log

FROM	TO	ROCK TYPE (described rock types and other minerals penetrated and record occurrences of oil, gas and water from surface to total depth)
0	6	Plate
6	9	Fill Sand
9	12	Sand Stone
12	14	Sand
14	20	Sand Stone
20	30	Shale
30	60	Sand
60	65	Sandy Shale
65	70	Shale
70	115	Sandy Shale
115	130	Shale
130	140	Sand
140	193	Shale
193	196	Coal
196	330	Shale
330	355	Sand
355	400	Shale
400	410	Sand
410	775	Shale
775	795	Sand
795	880	Shale
880	915	Sand
915	960	Shale
960	990	Sandy Shale
990	997	Shale
997	1000	Coal
1000	1005	Sandy Shale
1005	1020	Shale
1020	1025	Sand
1025	1050	Shale
1050	1120	Sandy Shale
1120	1160	Shale
1160	1230	Sand
1230	1385	Sandy Shale
1395	1415	Sand
1415	1445	Shale
1445	1505	Sandy Shale
1505	1535	Shale
1535	2110	Sand
2110	2115	Red Rock
2115	2180	Sand
2180	2188	Red Rock
2188	2340	Sand
2340	2350	Shale
2350	2360	Sand
2360	2365	Shale
2365	2430	Sand
2430	2455	Shale
2455	2510	Sandy shale
2510	2850	Shale
2850	2915	Sand
2915	2970	Shale
2970	3020	Sand

WATER:

Depth (ft)	Amount	Type
140'	Damp	Fresh

GAS CHECKS:

Depth (ft)	MCF/D
1760	Odor

OIL SHOWS:

Depth	Amount
1960	show

PERFORATIONS:
 Stage 1:
 Riley 3788-3803 w/15 shots
 Stage 2:
 Lower Bradford 3570-3576 w/ 12 shots
 Upper Bradford 3478-3484 w/12 shots
 Stage 3:
 Big Injun 1876-1890 w/ 14 shots

STIMULATION:
 Stage 1:
 75 Q foam w/575 sks 20/40 383,062 scf N2, 242 bbl H2O
 Stage 2:
 75Q foam w/625 sks 20/40 and 283.48 bbl H2O and 585,457 scf N2. Treat Lower Bradford w/308 sks 20/40 w/500 gal 15% HCl acid. Treat Upper Bradford w/317 sks 20/40
 Stage 3:
 75Q foam 367 sks 20/40 sand 145 bbls H2O, 175,000 scf N2

Handwritten signature

APR 21 2015

3020	3310	Sandy Shale	
3310	3400	Sand	
3400	3450	Shale	
3450	3520	Sand	
3520	3560	Shale	
3560	3680	Sandy Shale	
3680	3790	Sand	
3790	3875	Sandy Shale	
3875	4210	Shale	
4210	4260	Sand	
4260	4350	Shale	

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APR 27 2015

Office of Oil and Gas
W.V. Dept. of Environmental Protection

05/22/2015

9703331P

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION**

97-03331
097-03331
97-1-377

- 1) Well Operator: Chesapeake Appalachia, L.L.C.
- 2) Operator's Well Number: 626235 3) Elevation: 2,579'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): Benson
- 6) Proposed Total Depth: 4,238 feet
- 7) Approximate fresh water strata depths: 100'
- 8) Approximate salt water depths: none
- 9) Approximate coal seam depths: 259'
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill and Stimulate New Well
- 12) CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight Per ft.	For Drilling	Left in Well	Fill-Up (cu. Ft.)
Conductor	13-3/8"	LS	37#	40'	40'	NONE
Fresh Water	7"	LS	20#	1681'	1681'	CTS
Production	4-1/2"	M-60	10.50#	4238'	4238'	As Required By 35 CSR 4-11-1
Tubing	2 3/8	J-55	4.6		4,188'	
Liners						

PACKERS: Kind None APR 27 2015
 Sizes _____
 Depths set _____

RECEIVED
 Office of Oil & Gas
 Office of Chief
 DEC 07 2006
 WV Department of
 Environmental Protection

For Division of Oil and Gas Use Only

- Fee(s) paid: Well Work Permit Reclamation Fund WPCP
- Plat WW-9 WW-2B Bond _____ Agent

(Type)

714 # 7020000183
650-

05/22/2015

9703331A

WW-4A
Revised 6-07

1) Date: August 11, 2014
2) Operator's Well Number
626235

3) API Well No.: 47 - 097 - 03331

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Coastal Forest Resources Co.</u>	Name _____
Address <u>PO Box 709</u>	Address _____
<u>Buckhannon, WV 26201</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name <u>Coastal Forest Resources Co.</u>
_____	Address <u>PO Box 709</u>
_____	<u>Buckhannon, WV 26201</u>
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector <u>Bill Hatfield</u>	(c) Coal Lessee with Declaration
Address <u>PO Box 522</u>	Name _____
<u>Buckhannon, WV 26201</u>	Address _____
Telephone <u>304-767-1828</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

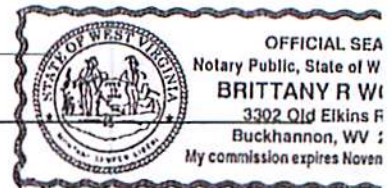
Well Operator SWN Production Co., LLC
 By: Dee Southall
 Its: Regulatory Supervisor
 Address P.O. Box 1300
Jane Lew, WV 26378
 Telephone 304-884-1614

Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 15th day of April
Brittany R Wyatt Notary Public
 My Commission Expires 11/12/12



Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

05/22/2015

9703331 P

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APR 27 2015
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Coastal Forest Resources Co
 PO Box 709
 Buckhannon, WV 26201

PS Form 3800, July 2014 See Reverse for Instructions

0 0000 7175 8373

RECEIVED
Office of Oil and Gas

APR 27 2015

WV Department of
Environmental Protection

Received

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

05/22/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed Booths Creek Quadrangle Goshen

Elevation 2579' County Upshur District Banks

Description of anticipated Pit Waste: NO PIT

Will a synthetic liner be used in the pit? NO PIT

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 on the WR34/&or permit addendum)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flowback will be put in steel tanks and reused or taken to permitted disposal facility)

Proposed Work For Which Pit Will Be Used:

- Drilling
- Workover
- Other (Explain _____)
- Swabbing
- Plugging

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature _____

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Received

APR 27 2015

Subscribed and sworn before me this 15th day of March ^{new} April, 20 15

Office of Oil and Gas
WV Dept. of Environmental Protection

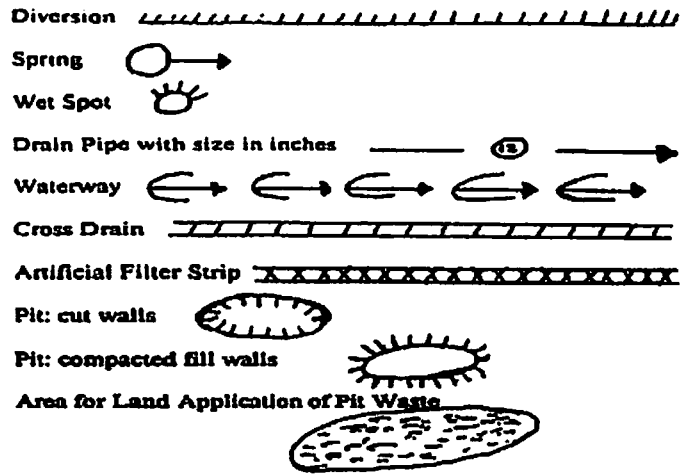
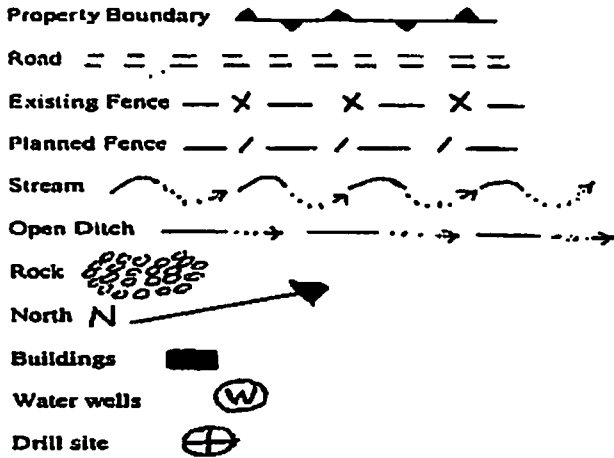
Brittany R Woody

Notary Public

My commission expires 11/27/22



LEGEND



Proposed Revegetation Treatment: Acres Disturbed _____ Prevegetation pH _____

Lime as determined by pH test min. 2 _____ Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) ⁵⁰⁰ _____ lbs/acre (500 lbs minimum)

Mulch ^{Hay/Straw} _____ Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre
Orchard Grass	20	
Red Top	15	
White Clover	15	

Seed Type	Area II	lbs/acre
Orchard Grass	20	
Red Top	15	
White Clover	15	

Attach:
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Received

Plan Approved by: _____ APR 27 2015

Comments: _____

Office of Oil and Gas
WV Dept. of Environmental Protection

Title: Oil and Gas Inspector Date: _____

Field Reviewed? () Yes () No

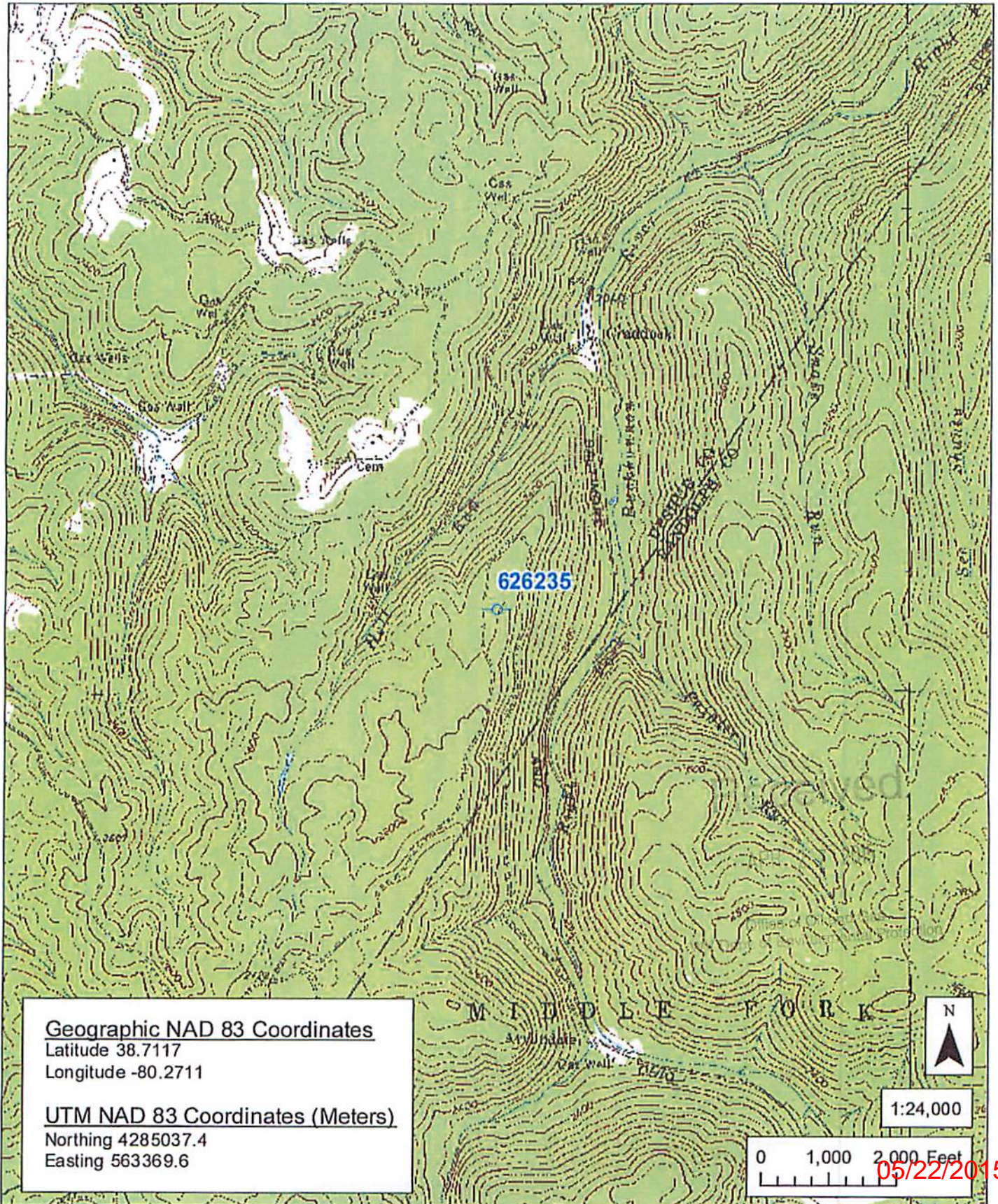
9703331P

Received

Topographical Map of Well 626235 (Coastal Forest Resources Co 1)
API = 47-97-3331
Field Office - Jane Lew
County - Upshur

APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection



Geographic NAD 83 Coordinates
 Latitude 38.7117
 Longitude -80.2711

UTM NAD 83 Coordinates (Meters)
 Northing 4285037.4
 Easting 563369.6

N

1:24,000

0 1,000 2,000 Feet

05/22/2015

WW-7

8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API:47-097-03331

WELL NO.: 626235

FARM NAME: Coastal Lumber Company

RESPONSIBLE PARTY NAME: SWN Production Co., LLC

COUNTY: Upshur DISTRICT: Banks

QUADRANGLE: Goshen

SURFACE OWNER: Coastal Forest Resources Co.

ROYALTY OWNER: Chesapeake Appalachia LLC

UTM GPS NORTHING: 4285037.4

UTM GPS EASTING: 563369.6

GPS ELEVATION: 2579'

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

Date

5/14/15

Title

Kevin J. Perdue

IF
Now

Operator: SWN PRODUCTION COMPANY, LLC
API: 9703331
WELL No: 626235
Reviewed by: gmm Date: 5/15/15
~~15 Day End of Comment:~~ _____

CHECKLIST FOR FILING A PERMIT

Plugging

- WW-4B
- Inspector signature on WW-4B *OK gmm*
- Completion / Well Records of Previous Work
- WW-4A (Notarized)
- Certified Mail Receipts, Waivers, or Affidavits of Personal Service
- Surface Owner Waiver
- Coal Owner / Lessee / Operator Waiver
- WW-9 (Page 1) (Notarized)
- W/A* Inspector Signature on WW-9 (Optional)
- Topographic Map of location of well
- WW-7

OR

- Mylar Plat (Surface owner on plat matches WW-4A)
- Bond
- Company is Registered with the SOS
- Worker's Compensation / Unemployment Insurance account is OK
- \$100.00 check (\$0.00 if no pit)

05/22/2015