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 penalities 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

Promoting a healthy environment.

9703331 P

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.

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WW-4B
Rev. 2/01

1) Date April 10, , 2015
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
Address P.O. Box 1300
Jane Lew, WV 26378

7) Designated Agent Dee Southall
Address P.O. Box 1300
Jane Lew, WV 26378

8) Oil and Gas Inspector to be notified
Name Bill Hatfield
Address PO Box 522
Buckhannon, WV 26201

9) Plugging Contractor
Name R & J Well Service
Address P.O. Box 37
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 ½" 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 ½" 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 ½" 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 ½", 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 of6% 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 gwm

Work order approved by inspector _____ Date APR 27 2015

Office of Oil and Gas
WV Dept. of Environmental Protection

9703331P

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 ½" 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 ½" 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 ½" 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 ½", 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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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

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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swn
Southwestern Energy

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.

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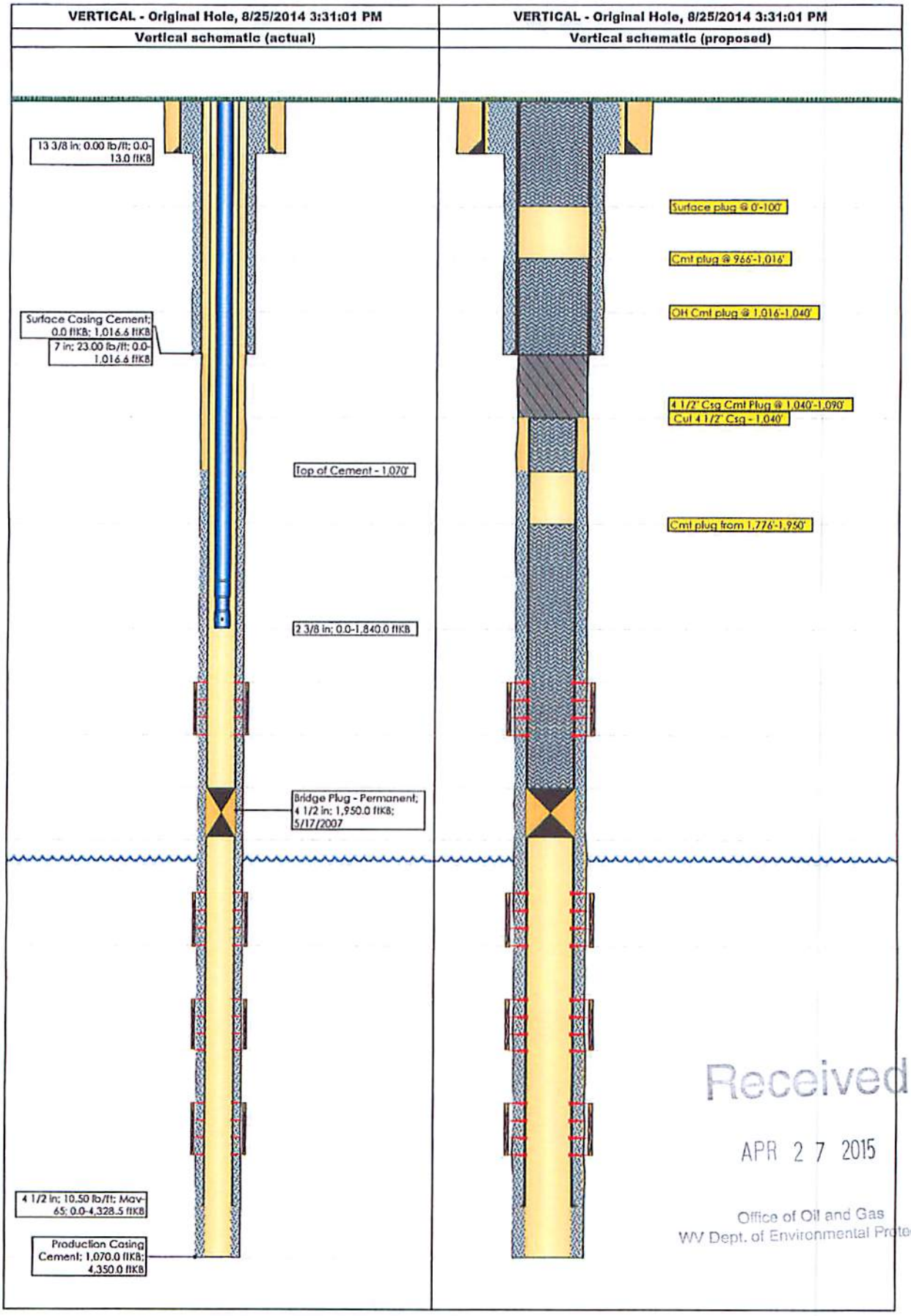
Proposed Plugging Wellbore Schematic

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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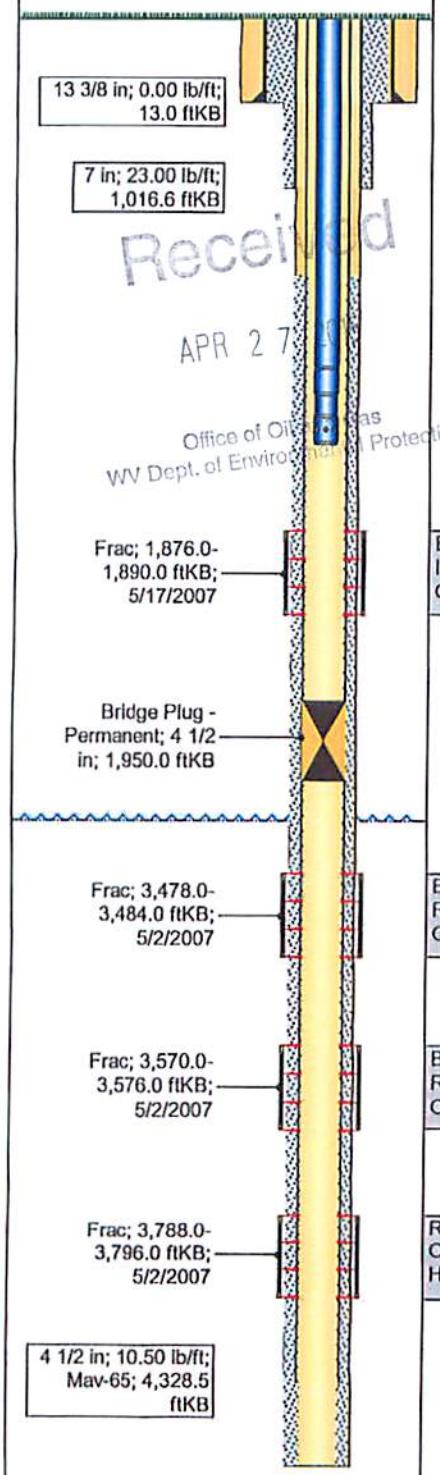
Current Wellbore Schematic

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

Vertical schematic (actual)



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Zones: BIG INJUN, Original... | BRADFORD UPR, Original... | BRADFORD LWR, Original... | RILEY, Original Hole

Conductor Casing; Set @ 13.0 ftKB ; Original Hole

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)
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)

Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)
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)

Item Des	OD (in)	ID (in)	Drift (in)	Wt (lb/ft)	Grade	Top Thread	Top (ftKB)	Btm (ftKB)	Len (ft)
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:**

Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft³/sack)

Description: Production Casing Cement

1,070.0-4,350.0

Top of Cement (ftKB): 1,070.0 **Top Measurement Method:** Wireline Tag

Fluid	Pump Start Date	Amount (sacks)	Class	Dens (lb/gal)	Vol Pumped (bbl)	Yield (ft³/sack)
Lead	4/23/2007	200	Standard			

Tubing String: Tubing - Production

Set Depth (ftKB)	Wellbore	Run Date	Pull Date	Cut Pull Date	Depth Cut Pull (ft...
1,840.0	Original Hole	6/4/2007			

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	
Seat Nipple	2 3/8	1.995				1,839.0	1,840.0	1.00	1

Perforations

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				

Report Printed: 3/27/2014

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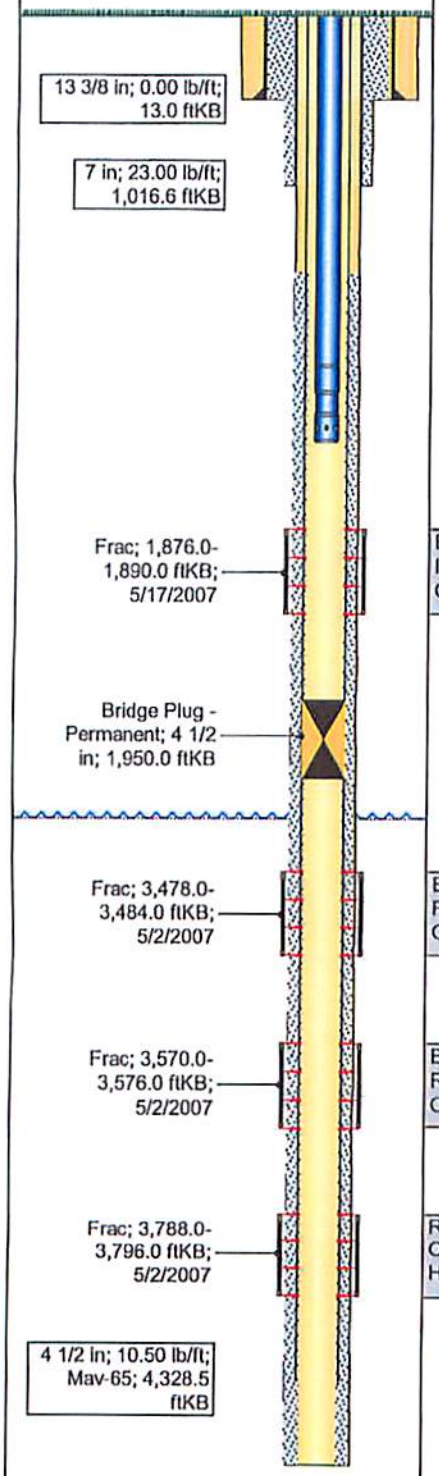
Current Wellbore Schematic

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

Vertical schematic (actual) | Zones



Zones: BIG INJUN, Original... | BRADFORD UPR, Original... | BRADFORD LWR, Original... | RILEY, Original Hole

Sand Size	Type	Amount	Conc (lb/gal)
20/40	Brown Sand	627.0	

RILEY, Stage 1, Frac, 5/2/2007

Min Top Dep...	Max Btm De...	Total Clean...	Avg Treat Pr...	Q Treat Avg...	Post ISIP (psi)	Comment
3,788.0	3,796.0	242.23				

Sand Size	Type	Amount	Conc (lb/gal)
20/40	Brown Sand	575.0	

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97033317

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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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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WV Dept. of Environmental Protection

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 ½"	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				

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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 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 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: _____, Chesapeake Appalachia, L.L.C.
By: Marc Watkins, District Manager

Date: 7/07/08

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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 H20
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% HCI acid. Treat Upper Bradford w/317 sks 20/40
Stage 3:
75Q foam 367 sks 20/40 sand 145 bbls H20, 175,000 scfN2

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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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W.V. Dept. of Environmental Protection

1 FORM WW-2B

9703331P

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

97-03331
097-03331

1) Well Operator: Chesapeake Appalachia, L.L.C.

2) Operator's Well Number: 626235 3) Elevation: 2,579'

97-1-377

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 X / 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						

BH 11-2-06

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DEC 07 2006
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PACKERS: Kind None
Sizes
Depths set

For Division of Oil and Gas Use Only

☐ Fee(s) paid: ☐ Well Work Permit ☐ Reclamation Fund ☐ WPCP

☐ Plat ☐ WW-9 ☐ WW-2B ☐ Bond _____ (Type) ☐ Agent

Ck # 7020000183
650.-

9703331P

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 0F APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:
(a) Name Coastal Forest Resources Co.
Address PO Box 709
Buckhannon, WV 26201
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator
Name
Address

(b) Coal Owner(s) with Declaration
Name Coastal Forest Resources Co.
Address PO Box 709
Buckhannon, WV 26201
Name
Address

6) Inspector Bill Hatfield
Address PO Box 522
Buckhannon, WV 26201
Telephone 304-767-1828

(c) Coal Lessee with Declaration
Name
Address

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 Woody Notary Public
My Commission Expires 11/21/22

OFFICIAL SEA
Notary Public, State of W
BRITTANY R W
3302 Old Elkins R
Buckhannon, WV
My commission expires Noven

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 depprivacyoffier@wv.gov.

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APR 27 2015
Postmark Here

7010 0000 7175 8373

Coastal Forest Resources Co
PO Box 709
Buckhannon, WV 26201

PS Form 3800, July 2014

See Reverse for Instructions

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

9703331P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 097 - 03331
Operator's Well No. 626235

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
- XX 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 Dispposal (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
- XX 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
Office of Oil and Gas
WV Dept. of Environmental Protection

Subscribed and sworn before me this 15th day of ~~March~~ April, 2015

Brittany R Woody Notory Public

My commission expires 11/27/22

OFFICIAL SEAL
Notary Public, State of West Virginia
BRITTANY R WOODY
3302 Old Elkins Road
Buckhannon, WV 26201
My commission expires November 27, 2022

9703331 P

Form WW-9

Operator's Well No. 626235

LEGEND

Property Boundary
Road
Existing Fence
Planned Fence
Stream
Open Ditch
Rock
North N
Buildings
Water wells
Drill site
Diversion
Spring
Wet Spot
Drain Pipe with size in inches
Waterway
Cross Drain
Artificial Filter Strip
Pit: cut walls
Pit: compacted fill walls
Area for Land Application of Pit Waste

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

Area I		Area II	
Seed Type	lbs/acre	Seed Type	lbs/acre
Orchard Grass	20	Orchard Grass	20
Red Top	15	Red Top	15
White Clover	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
APR 27 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

Plan Approved by: _____

Comments: _____

Title: Oil and Gas Inspector Date: _____

Field Reviewed? (_____) Yes (_____) No

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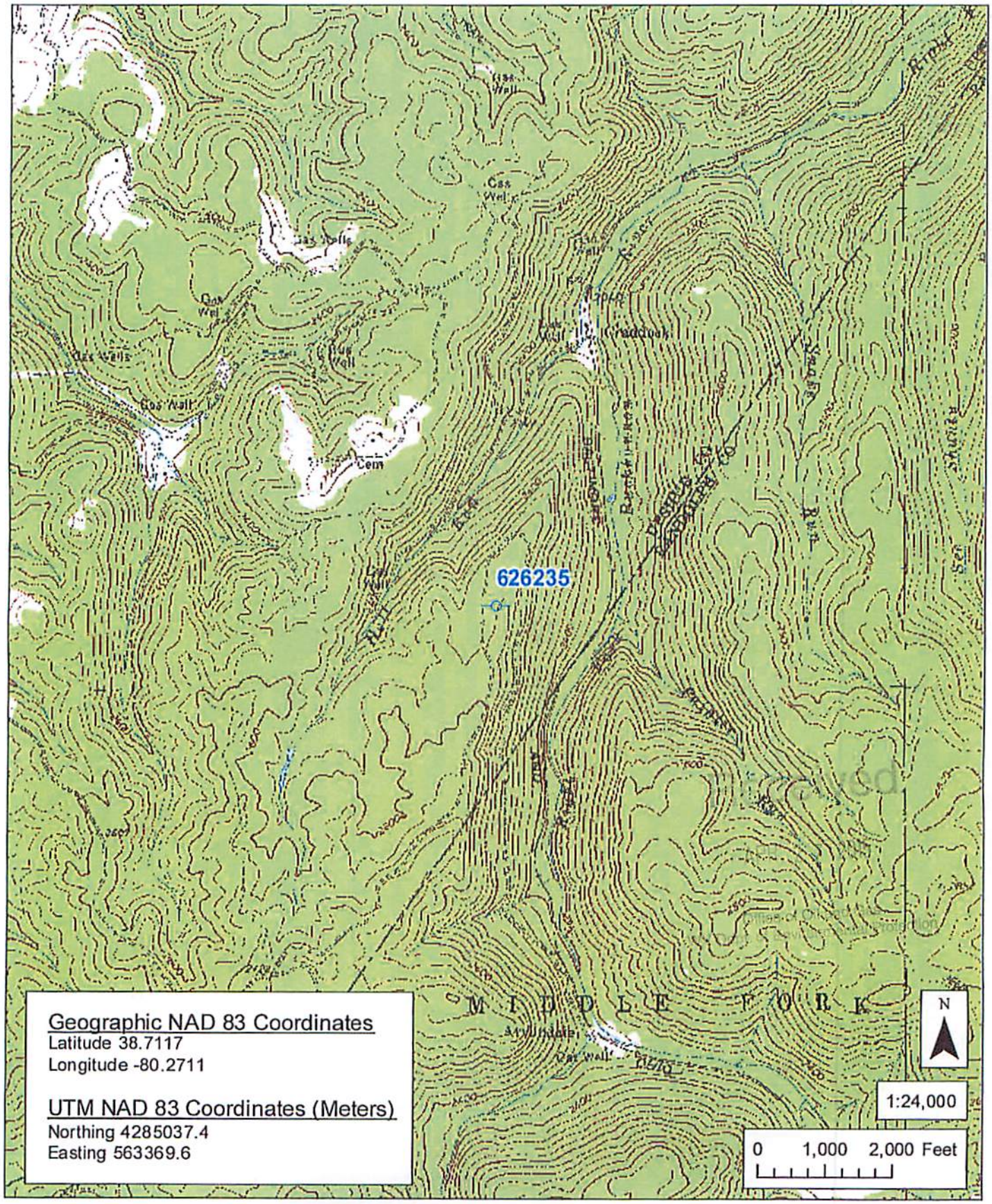
APR 27 2015
Office of Oil and Gas
WV Dept. of Environmental Protection

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



Geographic NAD 83 Coordinates
Latitude 38.7117
Longitude -80.2711

UTM NAD 83 Coordinates (Meters)
Northing 4285037.4
Easting 563369.6

9703331 P

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 _____ Title Regulatory Permitting Supervisor

Date 5/14/15

I

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

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

OR

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