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

August 07, 2014

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10700321, issued to COLUMBIA GAS TRANSMISSION, 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: 7251
Farm Name: COX, SANDRA J.
API Well Number: 47-10700321
Permit Type: Plugging
Date Issued: 08/07/2014

Promoting a healthy environment.

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.

10700321P

WW-4B
Rev. 2/01

1) Date 4/1, 2014
2) Operator's Well No. Rockport 7251
3) API Well No. 47- 107 - 00321

47-107-00321-P.

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 X) Deep X / Shallow ____

5) Location: Elevation 1012.7 Watershed Tygart Creek
District Steele County Wood Quadrangle Rockport

6) Well Operator Columbia Gas Transmission, LLC
Address 1700 MacCorkle Ave SE
Charleston, WV 25325-1273

7) Designated Agent Paul Amick
Address 1700 MacCorkle Ave SE
Charleston, WV 25325-1273

8) Oil and Gas Inspector to be notified
Name Jamie Stevens
Address 105 Kentuck Road
Kenna, WV 25248

9) Plugging Contractor
Name Contractor Services Inc
Address 929 Charleston Road
Spencer, WV 25276

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

* Refer to attached detailed procedure and wellbore schematic.

Wellbore to be cleaned to uncover Oriskany storage zone. Bottom cement plug to be placed across Oriskany per regulations. Mechanical bridge plug to be installed above bottom cement plug. All casing that is free will be pulled. Good faith efforts will be made to hydraulically isolate potential oil, gas, and/or water bearing zones via squeeze cement and/or cement plugs, per regulations.

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JUN - 3 2014
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Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Jamie Stevens Date 5/29/2014

10700321 P

Rockport - 07251 2014 Well Work

NOTE DO NOT EXERT MORE THAN 2800 psi on light weight 4-1/2" flowstring at any depth. Maximum surface pressures during kill job, pressure testing, etc. to be determined based on fluid hydrostatic pressure.

★ Kill well - spearhead stiff LCM pill. MI wireline unit and run cement bond log from TD to surface. Clean to top of Oriskany if not uncovered. TIH open-ended and spot bottom cement plug from 4800' to TD. PU above cement top and reverse circulate to clean tubulars. Pull 2 stands, close BOPs, and WOC until cement compressive strength reaches 1500 psig. Tag cement top and TOOH.

MI wireline unit. Run guage ring and set cast iron DBP above cement plug. Pressure test BP - no more than 2800 psig on flowstring at depth of BP.

If State inspector requires attempts to squeeze cement across from gas shows in shales at 4045' and 5020', then perf intervals and perfom squeeze cement. Cover perf intervals with cement and load wellbore from top of cement plug to 2200 ft. TOOH.

Perforate at 2000' with max charge in attempt to penetrate 8-5/8" csg. Establish circulation and cement to surface. Displace cement to depth of cement top behind 4-1/2" csg.

Free pt, cut, and pull all free 4-1/2" and 8-5/8" csg. Spot cement from top of last cement plug to surface. Grout all annuli as deep as possible.

Stab a ~10 ft long piece of 7" csg in well before top cement plug cures, leaving ~30" above grade. Tack weld steel cap and API number on side of monument.

★ AFTER RUNNING CBL MAKE SURE BOND IS GOOD AT LEAST UPTO 400 FT ABOVE ORISKANY OR PERFORATE AND SQUEEZE.

NOTIFY STATE INSPECTOR AFTER RUNNING CBL, BEFORE SETTING BOTTOM HOLE PLUG.

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WV Dept. of Environmental Protection

Jamie Stevens 5/29/2014

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Rockport - 07251 2014 Well Work

DETAILED P&A PROCEDURE FOR STATE PERMIT APPLICATION

ROCKPORT 7251

Objective: P&A and abandon well line

---- Well Info ----

Drilled in 1950
Reconditioned in 1953 and 2000

API 5M wellhead installed in 2000

* refer to wellbore schematic in well file
13-3/8" ran/pulled - casing seat 894'
10-3/4" ran/pulled - casing seat 1303'
8-5/8" ??# set @ 2419' (28 bags gel when ran - 29 sx cement poured down annulus)
7" 23# from 2176 to 5155' (puddle set in 15 sx cement)
4.5" 10.81# 0.237" wall (4.026" ID) Gr B (35,000 yield strength) line pipe as flowstring set @ 5263' w/ wall & anchor pkr @ 5222' based on CCL response on log - no record of anchor but most likely one was ran to activate W&A packer - no record of primary cement job - 481 sx of cement "poured" down annulus in multiple trips (therefore most likely topped off at surface).
BURST CALCULATIONS:
API -------> 3226 psi
B31G -------> 4055 psi

Formation Tops

First Salt	1356 - 1446'	(water @ 1375' & 1440' - 3 bailers/hr)
Big Injun	1866 - 2223'	(water 1895 - 1986' - hole full)
slate	3971 - 4232'	(show gas @ 4045')
Brown Shale	4825 - 5133'	(show gas @ 5020')
Onondaga	5133 - 5242'	(driller)
	5130 - 5239'	(per 6/28/00 GR-Neut)
Oriskany	5242 - 5253'	(driller)
	5239 - 5250'	(per 6/28/00 GR-Neut)
TD	5263'	(driller)

Top AOF 26.2 MMCFD in 1997
Most current measured AOF 20.1 MMCFD in 2004

Never stimulated

MFL ran in 2004 - all Class 1 except a 35% gen OD penetration @ 6 ft
CBL ran in 2000 - very poor cement bond deep

** Suspect cement integrity issue

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---- Procedure ----

Obtain FERC and NRP clearances, and State permit. Perform pipeline crossing eval.

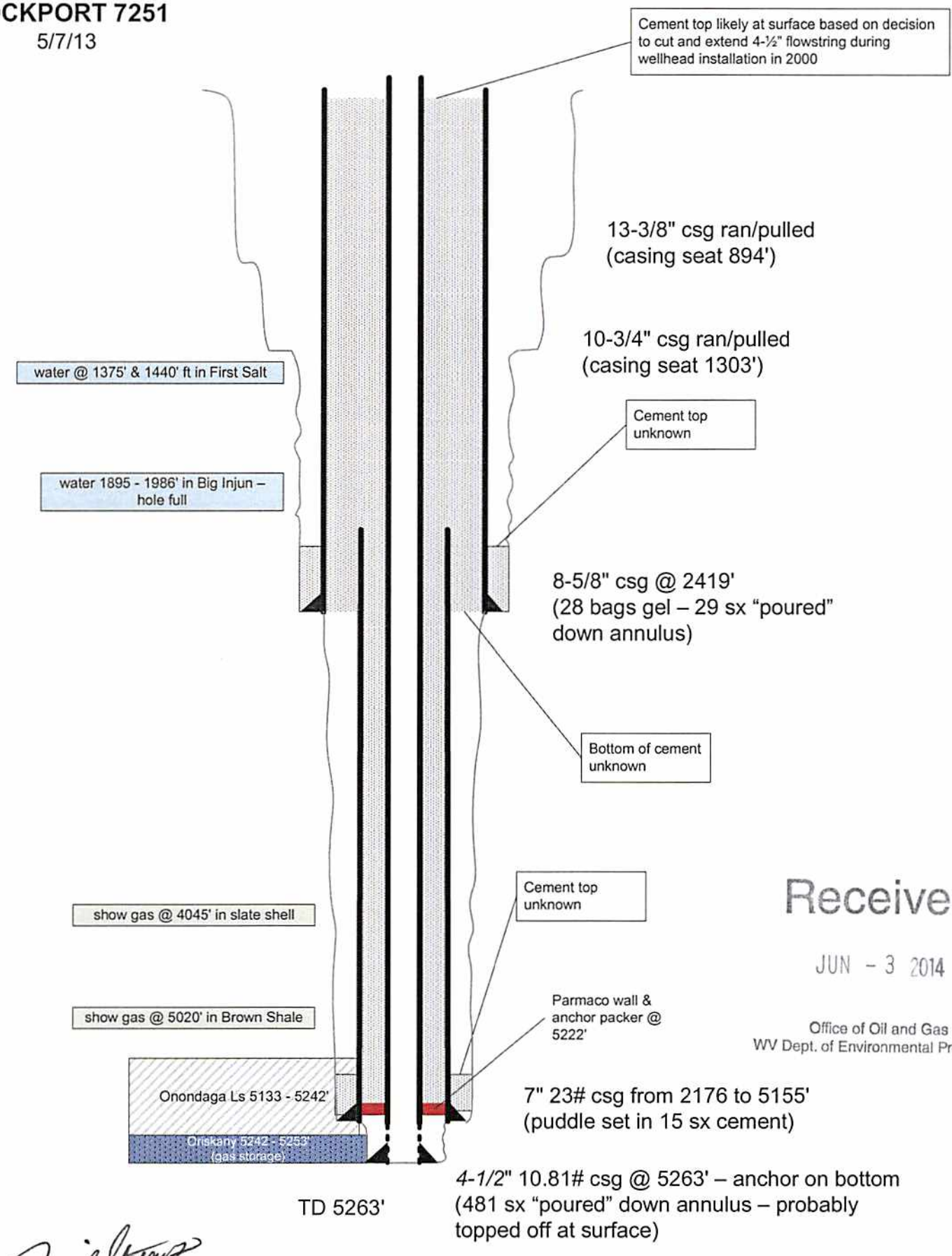
***** OBTAIN DIRECTIONAL WELLBORE SURVEY TO DETERMINE BOTTOM-HOLE LOCATION - NEW DRILL 12590 WILL BE TARGETING 7251 BOTTOM-HOLE LOCATION *****

Disconnect well line. Prep road and well site.

Jamie Stevens
5/29/2014

10700321P

ROCKPORT 7251
5/7/13



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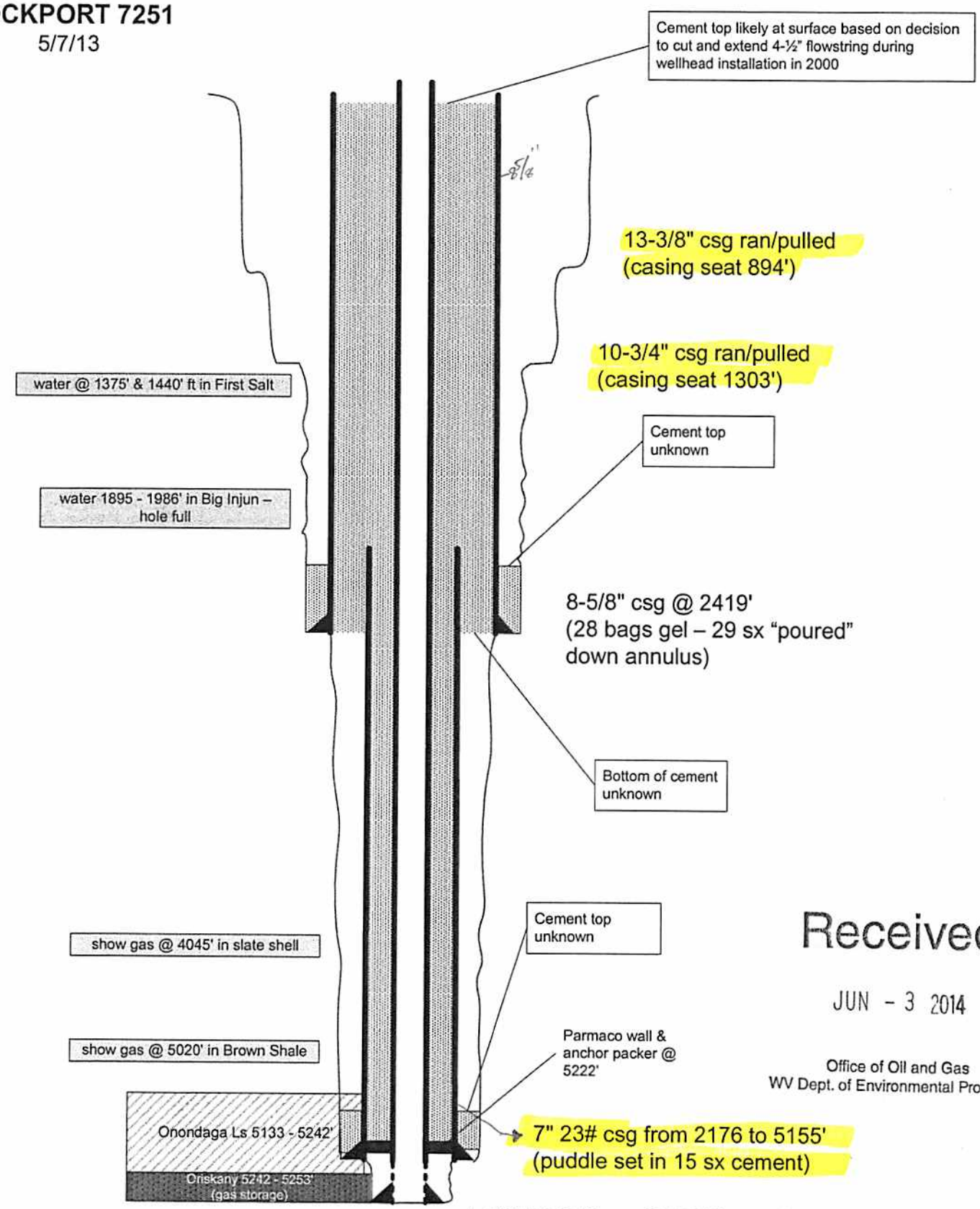
ROCKPORT 7251
5/7/13



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Jennie Stevens
5/29/2014

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WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Noo-321
Belleville Quad

GAS WELL

CASING & TUBING

13	894	pulled
10	1328	pulled
8-1/4	2419	2419
6 5/8	5155	5155
2-3/8	5263	5263

8" 28 bags Gel.
7" set in 15 bags cement

Company	Hope Natural Gas Co.
Address	446 West Main St., Clarksburg, W. Va.
Farm	Frank Gilmore, acres 171
Well No.	9445 Elev. 1016
District	Steele County Wood
Commenced	5/10/50
Completed	8/4/50
Volume	15,000 M.c.f.
Rock Pressure	1250 lbs.
Salt Water	1375, 1440, 1895 feet

Surface	0	45	
Red rock	45	185	
Lime	185	200	
Red Rock	200	272	
Slate	272	290	
Sand	290	328	
Lime	328	348	
Red Rock	348	434	
Lime	434	446	
Red Rock	446	557	
Slate Shell	557	596	
Red Rock	596	646	
Slate	646	680	
Lime	680	707	
Red Rock	707	773	
Slate	773	796	
Red Rock	796	825	
Slate Shell	825	842	
Red Rock	842	861	
Slate	861	895	
Gritty Lime	895	903	
Sand	903	924	
Slate	924	942	
Pink Rock	942	958	
Slate Shell	958	988	
Sand	988	1006	
Lime	1006	1021	
Red Rock	1021	1257	
Slate	1257	1291	
Sand	1291	1307	
Slate Shell	1307	1358	
FIRST SALT	1358	1446	water 1375 1440 3 bailers per hr.
Slate Shell	1446	1570	
SECOND SALT	1510	1607	
Slate	1607	1643	
THIRD SALT	1643	1716	
Slate Shell	1716	1866	
BIG INJUN	1866	2223	Water 1895-1986 hole full
Lime	2223	2389	
Slate Shell	2389	3745	
Shell	3745	3812	
Slate Shell	3812	3870	
Lime	3870	3971	
Slate Shell	3971	4232	show gas 4045
Brown Shale	4232	4342	
Slate shell	4342	4825	
Brown Shale	4825	5133	show gas 5020
CORNIFEROUS LIME	5133	5242	
GRISKANY SAND	5242		Gas 5242-46-51-57
Total Depth		5263	

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ROCKPORT WELL 7251

F-23609

47-107-00321-P.

FORM CS 1140P C&D

WORK ORDER

REQUEST NO. 4018 — 11-5135-53 — BUDGET NO. 763 — WORK ORDER NO. 4501

DATE June 24, 19 53 — DATE ISSUED 7-3- 19 53

COMPANY United Fuel Gas Company — DEPT. Production (For Storage) — ~~DIVISION~~ DISTRICT Clendenin

PROPOSED WORK Recondition Well X-58-7251, and Install Heavier Equipment.

KNOWN AS Well X-58-7251 - Additions (8059) — NO. — ORIGINAL INSTALLATION DATE

PURPOSE AND NECESSITY To Recondition Purchased Well for Storage in Pool X-58.

LOCATION: Well X-58-7251 - Frank Gilmore Farm.

IN — DISTRIBUTION PLANT — Steel MINISTERIAL DISTRICT — Rural TAXING DISTRICT — Wood COUNTY — West Virginia STATE

RELATED PROJECT WORK ORDER NO. — FOR Well #8059 - Part Removal

APPROVED BY John C. Martin — APPROVED BY H. C. Mefford, Jr.

DETAIL OF EXPENDITURES

MATERIAL TO BE INSTALLED ~~XXXXXXX~~	PRICE	SIZE	ESTIMATE QUANTITY	ESTIMATE AMOUNT	ACTUAL QUANTITY	ACTUAL AMOUNT	VARIATION
9.20# Steel Tubing	.93	4-1/2"	5263'	4,895.00	5293'	5,504.72	609.72
Wall & Anchor Packer		4"x7"	1	200.00	1	175.11	(24.89)
Orbit Gate Valve Comp.		4"	1	475.00	1	508.20	33.20
Nord. Fig. 2349 P.Valve-Comp.		4"	1	400.00	1	365.38	(34.62)
Casing Centralizers	13.50	4"x7"	11	149.00	12	291.12	142.12
Bull Plug		4"	1	12.00	1	12.46	.46
Welded Tee		4"	1	11.00	1	12.76	1.76
Anchor Clamps		4"	1	30.00	1	20.19	(9.81)
Turnbuckles	13.00	1-1/2"x18"	2	26.00	2	28.99	2.99
Welding Neck Flanges 900 Ser.	25.00	4"	8	200.00	8	223.88	23.88
Fittings				50.00		47.30	(2.70)
TOTAL MATERIAL				6,448.00		7,190.11	742.11
INSTALLATION ~~XXXXXXXXXX~~ COST							
Direct Labor				1,000.00		1,236.88*	236.88
Use of Auto and Hauling				900.00		2,006.34*	1,106.34
Tools, Supplies and Miscellaneous Expense				200.00		101.33	(98.67)
Hauling, Erecting and Dismantling Spudder				350.00		- *	(350.00)
Cement and Services				1,200.00		1,709.33	509.33
Fuel Gas				-		28.00	28.00
Interest				-		61.56	61.56
Stores Expense and Freight				651.00		801.48	150.48
Labor Benefits Overheads				184.00		227.26	43.26
Administrative Overheads				57.00		69.12	12.12
TOTAL INSTALLATION ~~XXXXXXXXXX~~ COST				4,542.00		6,241.30	1,699.30
TOTAL ESTIMATE				10,990.00		13,431.41	2,441.41

INDICATE NORTH — SKETCH (CORRECT TO ACTUAL) — INVENTORY MAP NO. None

Map Square 64-107

Note: Move in Bucyrus Erie Spudder, and String of Cleaning Out Tools. Cut and Pull 2200' of 7" Casing, and clean Well out. Run 5263' of 4-1/2" Tubing, on Wall and Anchor Packer. Cement between 4-1/2" and Seven Inch, to where 7" was cut off, and then cement between 4-1/2" and 8-5/8" Casing to Surface. Install Heavy Connections, and report results.

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* Included in use of auto and Direct Labor.

2-763-4501

MAPPED BY — MAP NO. — QUANTITY MAPPED — DATE — 19

47-107-00321-P

COMPLETION REPORT

MAKE NECESSARY REVISIONS ON SKETCH TO SHOW WORK ACTUALLY PERFORMED, INDICATING LOCATION AND DIMENSIONS OF SPECIAL CONSTRUCTION

FOR LINE WORK ON ESTABLISHED STREET OR HIGHWAY, INDICATE ON SKETCH THE DISTANCE OF LINE FROM ADJOINING PROPERTY. ALSO PORTION UNDER PAVING.

WHEN LINE EXTENDS INTO TWO OR MORE TAX DISTRICTS, LIST BELOW PORTION INSTALLED OR RETIRED IN EACH

FT. OF	SIZE	KIND	TOWN TWP	DIST	COUNTY
FT. OF	SIZE	KIND	TOWN TWP	DIST	COUNTY
FT. OF	SIZE	KIND	TOWN TWP	DIST	COUNTY
FT. OF	SIZE	KIND	TOWN TWP	DIST	COUNTY

MATERIAL INSTALLED OR RETIRED

QUANTITY	SIZE	DESCRIPTION
5293'	4-1/2"	Tubing Sm'l. Gr. B. 11#
1	4"	Valve Gate Steel Orbit 3000# WOG
1	4"	Valve Plug Nord Fig. 2349 2000# WOG
1	4" X 7" X 24"	Packer Parmaco Wall & Anchor
8	4"	Flanges W/N Drl. FS Ser. 90
1	4"	Teo Welding Sm'l. Gr. B.
1	4"	Plug Bull XX S
12	4-1/2" X 7"	Centralizers Casing
6	4"	Gaskets Ring Oval Steel
1	1/2"	Valve Needle Steel
48	1-1/8" X 6-3/4"	Bolts All Thread
1	4-1/2"	Clamp Anchor
2	1-1/2" X 18"	Turn Buckles
1'	4-1/2"	Pipe Sm'l. Gr. B .237 Wall 10.79#
2	1-1/4" X 24"	Bolts Hair Pin
510		Sacks Cement Well Quick Drying
6		Sacks Aquagel
30#		Thread Lube
10#		20-D Common Wire Nails
10#		10-D Common Wire Nails

MATERIAL INSTALLED OR RETIRED

QUANTITY	SIZE	DESCRIPTION

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MATERIAL TRANSFER NUMBERS: June, 1953. # 258-268-July-125-132-133-163-164-August-11-181-184-October-N-34-N-43.

PIPE COATING

QUANTITY	KIND	FT. OF PIPE

ORIGINAL INSTALLATION DATES OF PROPERTY RETIRED

QUANTITY	KIND	DATE

TYPE OF JOINTS Steel Tubing

EXCAVATION: BY HAND _____ FT., MACHINE _____ FT.

WIDTH OF TRENCH _____ FT., AVG. DEPTH _____ FT.

TYPE OF PAVING _____

PAVING CUT: WIDTH _____ FT., LENGTH _____ FT.

DESCRIBE NATURE OF SOIL: Storage Well

REPORT UNUSUAL CONDITIONS ENCOUNTERED IN CONSTRUCTION:

INFORMATION TO BE FURNISHED FOR SMALL STRUCTURES

OUTSIDE DIM. LENGTH _____ WIDTH _____

HEIGHT TO EAVES _____ HEIGHT TO RIDGE _____

FOUNDATION: KIND _____

FOUNDATION: THICKNESS _____ HEIGHT ABOVE GROUND _____ DEPTH BELOW GROUND _____

FLOOR: KIND _____ THICKNESS _____

WALL: KIND _____ THICKNESS _____

ROOF: TYPE _____ KIND _____

DOORS: NO. _____ SIZE _____ KIND _____

WINDOWS: NO. _____ SIZE _____ KIND _____

PAINTING _____

MISCELLANEOUS _____

REASON FOR OVERRUN - UNDERRUN: Labor, Use of Auto, Cement and Services overran the estimate due to cementing between all strings of casing including the space between the conductor pipe and the hole which was not anticipated. More water had to be hauled than estimated due to the dry weather.

DATE WORK STARTED June 20, 1953 DATE WORK COMPLETED August 10, 1953

COMPILED BY Donald D Rucker DATE 10/14/ 1953 APPROVED BY John C. Martin DATE 10-16 1953

Survey File: C:\Humphrey Data\A514-4589.raw
Date: May 07,2014
Time: 5:30
Description: GYROSCOPIC SURVEY
Location: ROCKPORT 7251
Customer: COLUBIA GAS
Operator: REYNOLDS/LESHER
Comments:
WOOD COUNTY WV

GOODRICH TOOL IDENTIFICATION
Gyroscope Model: DG69-0901-4 #145
TX Series: #4808
EI Series: #5982
AC Series: #107
Accel.Voltage Limits: Xmax= 9.846 ; Xmin=-9.998 ; Ymax= 9.831 ; Ymin=-9.995
Comments:
A514-4589

Warm-Up Duration: 22.5 min

----------SURVEY REFERENCE DATA----------

Sight Reference Description: Corresponding Magnetic Compass Reading
JACOBS STAFF
Local Magnetic Declination: -8 deg.
REFERENCE SUMMARY
Survey Reference Point: 11 deg.
Local Grid Offset: 8 deg.
Drift Correction Method: Least Squares Drift Linearization
Computation Method: Minimum Curvature

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Target Direction (deg):0
INRUN record set

Measured Depth (feet)	Course Inclin. (deg)	Course Direction (deg)	Closure Direction (deg)	TrueVert. Depth (feet)	Rectangular Coordinates +N/-S	+E/-W	Dogleg Severety °/100 f	Closure Distance (feet)	Vertical Section fromVert. (feet)
100.00	0.51	173.7	312.70	99.99	0.58	-0.62	1.90	0.85	0.6
200.00	0.75	145.6	207.03	199.99	-0.40	-0.21	0.40	0.45	-0.4
300.00	1.37	133.8	149.89	299.97	-1.77	1.03	0.70	2.05	-1.8
400.00	2.01	131.6	139.61	399.92	-3.77	3.21	0.60	4.95	-3.8
500.00	2.01	129.4	135.84	499.86	-6.04	5.87	0.10	8.42	-6.0
600.00	2.82	135.3	134.84	599.77	-8.90	8.95	0.80	12.62	-8.9
700.00	3.39	132.3	134.49	699.63	-12.64	12.86	0.60	18.03	-12.6
800.00	3.46	140.1	134.93	799.45	-16.95	16.99	0.50	24.00	-16.9
900.00	2.86	145.0	136.31	899.30	-21.31	20.35	0.70	29.47	-21.3
1000.00	2.75	161.5	138.66	999.18	-25.63	22.54	0.80	34.13	-25.6
1100.00	3.64	176.2	142.88	1099.02	-31.06	23.51	1.20	38.96	-31.1
1200.00	3.82	172.0	147.20	1198.81	-37.53	24.19	0.30	44.65	-37.5
1300.00	3.32	170.8	150.10	1298.62	-43.68	25.12	0.50		

50.39	-43.7						
1400.00	2.64	177.9	152.28	1398.48	-48.84	25.67	0.80
55.17	-48.8						
1500.00	1.96	187.4	154.21	1498.40	-52.84	25.53	0.80
58.68	-52.8						
1600.00	1.01	197.7	155.66	1598.37	-55.37	25.04	1.00
60.77	-55.4						
1700.00	0.71	178.3	156.43	1698.36	-56.83	24.80	0.40
62.00	-56.8						
1800.00	0.72	195.2	156.99	1798.35	-58.05	24.65	0.20
63.07	-58.0						
1900.00	0.68	184.2	157.58	1898.34	-59.25	24.44	0.10
64.09	-59.2						
2000.00	0.75	151.6	157.76	1998.33	-60.41	24.71	0.40
65.27	-60.4						
2100.00	0.98	142.4	157.50	2098.32	-61.67	25.54	0.30
66.75	-61.7						
2200.00	0.72	154.5	157.29	2198.31	-62.91	26.33	0.30
68.20	-62.9						
2300.00	0.71	160.2	157.29	2298.30	-64.05	26.81	0.10
69.44	-64.1						
2400.00	0.39	153.6	157.29	2398.30	-64.94	27.17	0.30
70.40	-64.9						
2500.00	0.32	74.4	157.05	2498.30	-65.17	27.60	0.50
70.78	-65.2						
2600.00	0.83	65.5	156.24	2598.29	-64.80	28.53	0.50
70.80	-64.8						
2700.00	0.70	82.6	155.18	2698.28	-64.42	29.80	0.30
70.97	-64.4						
2800.00	0.43	84.2	154.42	2798.28	-64.30	30.78	0.30
71.29	-64.3						
2900.00	0.65	122.6	153.90	2898.27	-64.57	31.63	0.40
71.90	-64.6						
3000.00	0.48	133.1	153.55	2998.27	-65.16	32.41	0.20
72.78	-65.2						
3100.00	0.46	112.4	153.23	3098.27	-65.60	33.09	0.20
73.47	-65.6						
3200.00	0.44	106.4	152.82	3198.26	-65.86	33.82	0.10
74.04	-65.9						
3300.00	1.02	119.2	152.23	3298.25	-66.40	34.97	0.60
75.05	-66.4						
3400.00	0.69	168.3	151.99	3398.24	-67.43	35.87	0.80
76.37	-67.4						
3500.00	0.93	167.0	152.27	3498.23	-68.81	36.17	0.20
77.74	-68.8						
3600.00	0.80	200.9	152.80	3598.22	-70.25	36.11	0.50
78.99	-70.2						
3700.00	0.41	247.0	153.43	3698.22	-71.04	35.53	0.60
79.43	-71.0						
3800.00	0.93	313.2	153.89	3798.21	-70.62	34.61	0.90
78.65	-70.6						
3900.00	0.44	269.6	154.36	3898.21	-70.07	33.63	0.70
77.72	-70.1						
4000.00	1.33	307.9	155.01	3998.19	-69.36	32.33	1.00
76.52	-69.4						
4100.00	0.86	320.0	155.56	4098.18	-68.07	30.93	0.50
74.77	-68.1						
4200.00	0.23	13.8	155.62	4198.17	-67.30	30.50	0.70
73.89	-67.3						
4300.00	1.13	297.3	156.01	4298.16	-66.66	29.67	1.10
72.96	-66.7						
4400.00	0.42	36.6	156.25	4398.16	-65.91	29.01	1.30
72.01	-65.9						

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WV Dept. of Environmental Protection

4500.00	0.61	33.3	155.63	4498.15	-65.17	29.52	0.20	71.55	-65.2
4600.00	0.51	354.0	155.15	4598.15	-64.28	29.76	0.40	70.84	-64.3
4700.00	0.60	254.9	155.46	4698.15	-63.97	29.21	0.90	70.32	-64.0
4800.00	0.50	305.0	156.06	4798.14	-63.86	28.35	0.50	69.87	-63.9
4900.00	0.58	206.7	156.57	4898.14	-64.07	27.76	0.80	69.82	-64.1
5000.00	0.92	171.0	157.05	4998.13	-65.31	27.66	0.60	70.93	-65.3
5100.00	1.01	157.5	157.21	5098.12	-66.91	28.12	0.20	72.58	-66.9
5200.00	1.96	122.6	156.47	5198.08	-68.65	29.90	1.30	74.88	-68.7
5238.00	1.51	157.0	156.20	5236.07	-69.46	30.64	2.90	75.92	-69.5

Bottom:

True Vertical Depth	5236.07feet
Closure Distance	75.9 feet
Closure Direction	156.2 deg.
Course Direction	157.0 deg.

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10700321P

WW-4A
Revised 6-07

1) Date: 4/1/14
2) Operator's Well Number
Rockport storage well 7251

3) API Well No.: 47 - 107 - 00321

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: Sandra J. Cox
Address: 635 Queen Hollow Rd
Rockport, WV 26169

(b) Name
Address

(c) Name
Address

6) Inspector: Jamie Stevens
Address: 105 Kentuck Rd
Kenna, WV 25248
Telephone: 304-206-7775

5) (a) Coal Operator
Name: not operated
Address

(b) Coal Owner(s) with Declaration
Name
Address

Name
Address

(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.

Received
JUN - 3 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Well Operator: Columbia Gas Transmission, LLC
By: James E. Amos — James E Amos 6/2/14
Its: Senior Well Services Engineer
Address: 48 Columbia Gas Road
Sandyville, WV 25275
Telephone: 304-483-0073

Subscribed and sworn before me this 2nd day of June 2014
Mary Marie Clendenin Notary Public
My Commission Expires March 22, 2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY MARIE CLENDENIN
COLUMBIA GAS TRANSMISSION CORPORATION
RR 2 BOX 138
SANDYVILLE, WV 25275
My commission expires March 22, 2015

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.

10700321P

7099 3220 0009 0804 9497

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To:
ROCKPORT WV 26169

Postage	$ $1.82	0271
Certified Fee	$3.30	07
Return Receipt Fee (Endorsement Required)	$2.70	Postmark Here
Restricted Delivery Fee (Endorsement Required)	$0.00	
Total Postage & Fees	$ $7.82	06/02/2014

RIPLEY WV
JUN 02 2014
USPS - 25271

Name (Please Print Clearly) (To be completed by mailer)
Sandra Cox
Street, Apt. No.; or PO Box No.
635 Queen Hollow Rd.
City, State, ZIP+ 4
ROCKPORT, WV 26169

PS Form 3800, July 1999 **See Reverse for Instructions**

Received

JUN - 3 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

10700321P

WW-9
Rev. 5/08

Page _____ of _____
API Number 47 - 107 - 00321
Operator's Well No. Rockport storage well 7251

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 Columbia Gas Transmission, LLC OP Code 307032

Watershed Tygart Creek Quadrangle Rockport

Elevation 1012.7 ft County Wood District Steele

Description of anticipated Pit Waste: fresh and/or salt water, drilling fluid, cement returns

Will a synthetic liner be used in the pit? yes 20 MIL.

Proposed Disposal Method For Treated Pit Wastes:

_____ Land Application
X Underground Injection (UIC Permit Number 34-105-23619, 34-167-2-9395, 34-155-2-3795)
_____ Reuse (at API Number _____)
_____ Off Site Dispposal (Supply form WW-9 for disposal location)
X Other (Explain Enviro Tank Clean (Rt 7, Belpre, OH)

Proposed Work For Which Pit Will Be Used:

_____ Drilling _____ Swabbing
_____ Workover X Plugging
_____ Other (Explain _____

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 James E Amos 6/2/14

Received
JUN - 3 2014
Office of Oil and Gas
WV Dept. of Environmental Protection

Company Official (Typed Name) James E. Amos

Company Official Title Senior Well Services Engineer

Subscribed and sworn before me this 2nd day of June, 20 14

Mary Marie Clendenin Notary Public

My commission expires March 22, 2015

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY MARIE CLENDENIN
COLUMBIA GAS TRANSMISSION CORPORATION
RR 2 BOX 138
SANDYVILLE, WV 25275
My commission expires March 22, 2015

1070032 1P

Form WW-9

API-107-00321-P

Operator's Well No. Rockport 7251

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 0.6 Prevegetation pH 5 - 6

Lime 2 Tons/acre or to correct to pH 6.5

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

Mulch 2 Tons/acre

Plugging

Seed Mixtures

Area I Seed Type	lbs/acre	Area II Seed Type	lbs/acre
Orchard Grass	20	Orchard Grass	20
Ledino Clover	10	Ledino Clover	10
Annual Rye	20	Annual Rye	20

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

Photocopied section of involved 7.5' topographic sheet.

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Plan Approved by: Jamie Stevens

Comments:

Title: Date: 5/29/2014

Field Reviewed? (✓) Yes ( ) No

107 00321P

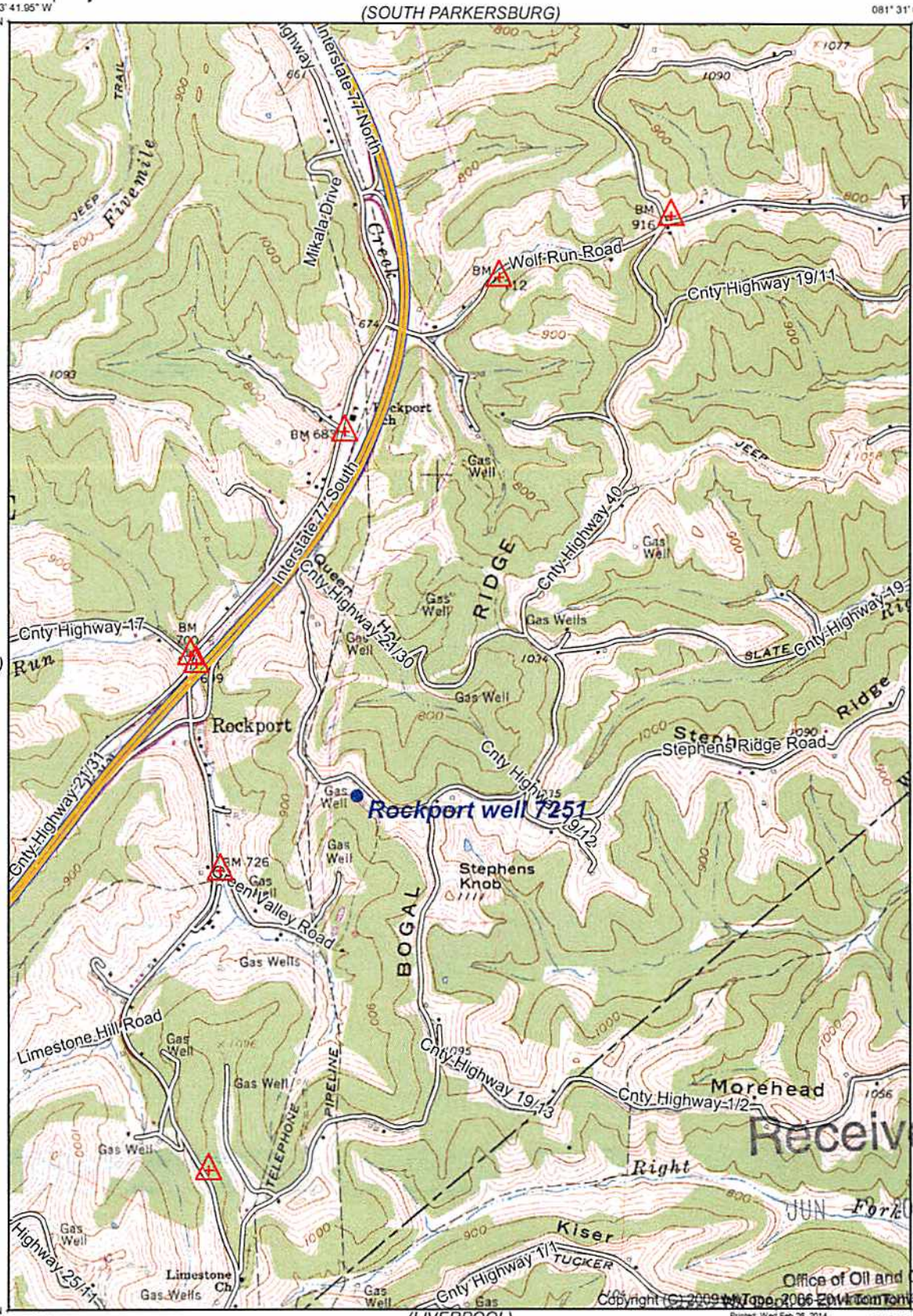
ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(LUBECK) mytopo (KANAWHA)

081° 33' 41.95" W
039° 05' 59.15" N

(SOUTH PARKERSBURG)

081° 31' 09.58" W
039° 05' 59.15" N



(POND CREEK) (ELIZABETH)

039° 03' 11.58" N
081° 33' 41.95" W

(LIVERPOOL)

039° 03' 11.58" N
081° 31' 09.58" W

Copyright (C) 2009 MyTopo, 2006-2014 Tomtom
Printed: Wed Feb 26, 2014

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Office of Oil and Gas
Environmental Protection

(SANDYVILLE) (REEDY)

Declination

MN GN

GN 0.34° W
MN 7.87° W

SCALE 1:24000

0 1
MILE

0 1000
YARDS

0 1
KILOMETER

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)
Polyconic Projection

To place on the predicted North American 1927 move the projection lines 9M N and 13M E

ROCKPORT, WV
1960

Janoe 5/29/2014
47-107-00321-P.

Google earth

feet 2000
meters 600

Reclamation Plan 1 of 2 (overview) - Rockport 7251

* refer to civil engineering drawings for details of proposed earth disturbance

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Jamie 5/28/2014

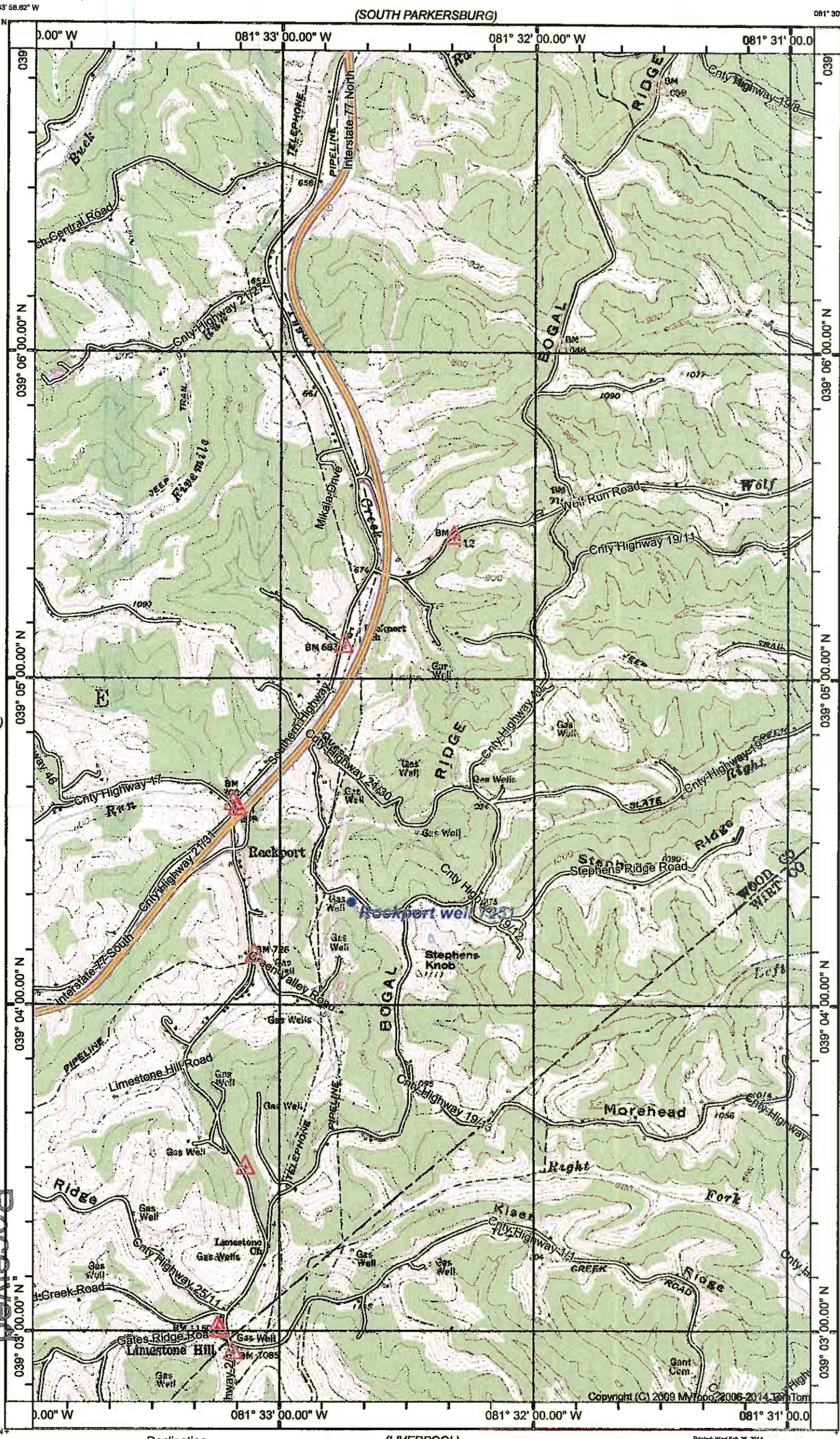
1070032IP

ROCKPORT QUADRANGLE
WEST VIRGINIA
TOPOGRAPHIC SERIES

(LUBECK) (KANAWHA)

(SOUTH PARKERSBURG)

(POND CREEK) (ELIZABETH)



(SANDYVILLE) (LIVERPOOL) (REEDY)

Declination

MN GN

GN 0.34° W
MN 7.88° W

SCALE 1:24000

0 1 MILE

0 1000 2000 YARDS

0 1 2 KILOMETERS

CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000 Maps

North American 1983 Datum (NAD83)
Polyconic Projection

To place on the predicted North American 1927 move the projection lines 9M N and 13M E

ROCKPORT, WV
1960

47-107-00321-P

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WV Dept. of Environmental Protection

107003210

10700321P

WW-7
8-30-06

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

API: 47-107-00321-P WELL NO.: 7251

FARM NAME: Gilmore, Frank

RESPONSIBLE PARTY NAME: Columbia Gas Transmission, LLC

COUNTY: Wood DISTRICT: Steele

QUADRANGLE: Rockport

SURFACE OWNER: Sandra J. Cox

ROYALTY OWNER: Frank Gilmore et ux (storage lease)

UTM GPS NORTHING: 4324898.80 m

UTM GPS EASTING: 452844.77 m GPS ELEVATION: 308.7 m

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 X: Post Processed Differential X

Real-Time Differential ____

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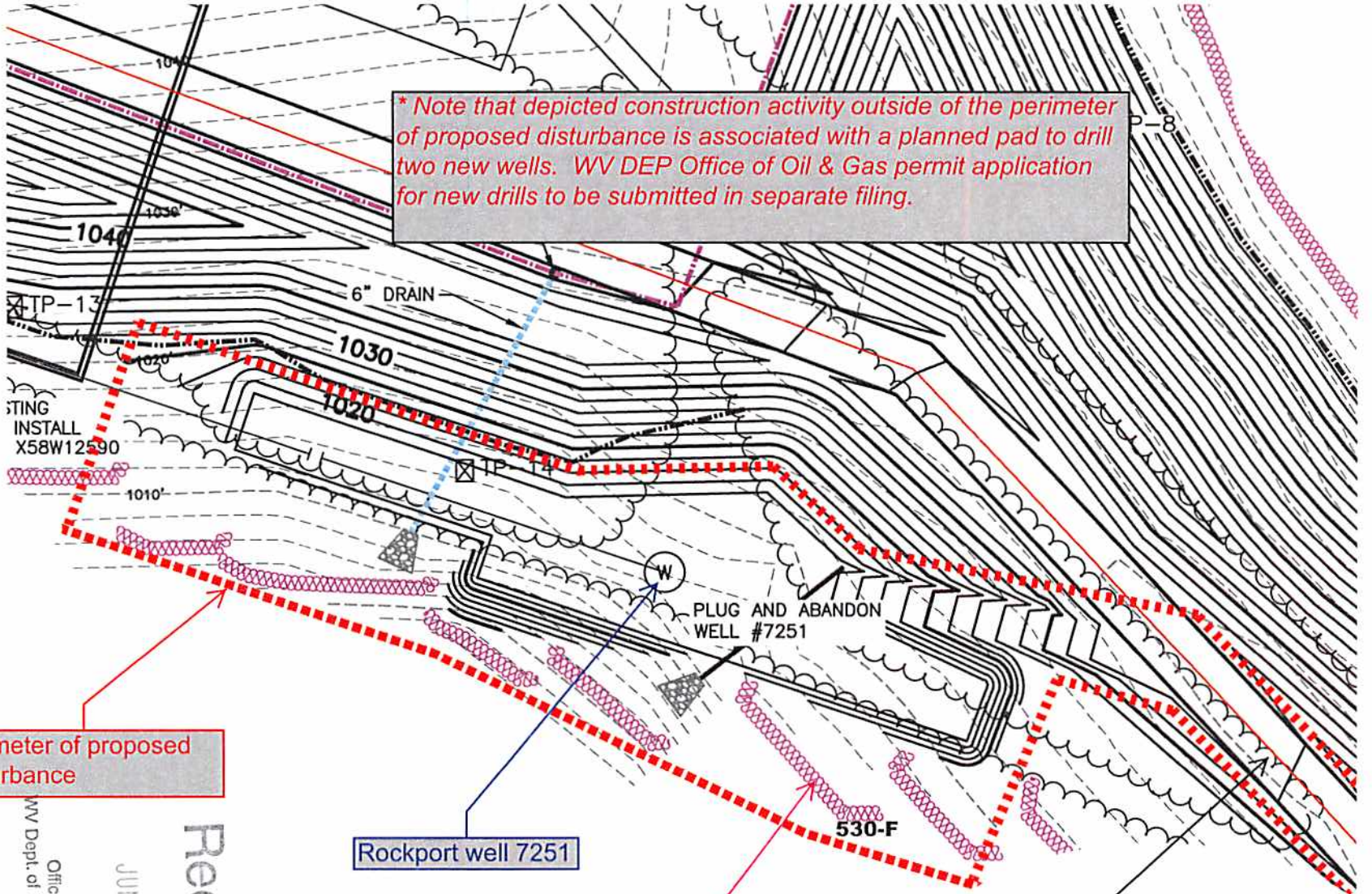
WV Dept. of Environmental Protection

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	Date
James E Cox	Senior Engineer	6/2/14

James 5/29/2014.



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Reclamation Plan 2 of 2 (Site Detail) - Rockport 7251
- grading / fill as depicted on drawing
- BMPs to be utilized per DEP

Jamie Stevens
5/29/2014

10700321P