

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: 47-10700329, 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: ROCKPORT 7237

Farm Name: AMOS, MILDRED B.

API Well Number: 47-10700329

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

1) Date 4/1	,	20 14
2)Operator's	•	
Well No. Rockport 7237		
3) API Well No. 47-107		- 00329

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 (If "Gas, Production or Und	derground storage X) Deep X / Shallow
5)	Location: Elevation 890.3	Watershed Tygart Creek
•	District Steele	County Wood Quadrangle Rockport
6)	Well Operator Address Address Columbia Gas Transmission, LLC 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	9) Plugging Contractor Name Contractor Services Inc Address 929 Charleston Road
	Kenna, WV 25248	Spencer, WV 25276
	<u> </u>	

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.

Office of Oil and Gas

WV Dept. of Environmental Protection

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

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

^{*} Refer to attached detailed procedure and wellbore schematic.

107-00329-P.

Rockport - 07237

2014 Well Work

CONCERNS WITH INTEGRITY OF WELLHEAD TO HANDLE SHEAR AND AXIAL STRESSES REQUIRES UPGRADING WELLHEAD BASE PRIOR TO WELL WORK.

Kill well with polymer drilling fluid.

MI wireline unit. Run guage ring and set cement retainer at 5030 ft correlated to Schlumberger GR log ran 8/16/74. Kill/load hole to surface. Obtain CBL from retainer to surface. Pressure test retainer with 300 psig.

Note that results of CBL may dictate procedural changes. The following procedure assumes 4-1/2" flowstring is cemented to/close to surface.

Prepare location and remove concrete around base of wellhead. Replace 4-1/2" csg at surface if necessary to accommodate weight of BOPs and plugging string.

MIRU service rig. NU BOPs.

TIH open-ended, circulate fresh water to end of string, sting in to retainer, and perform injection test. If injection established, squeeze cement thru retainer until job locks up. Sting out and spot balanced cement plug from 4500' to TD. PU above cement top and reverse circulate to clean tubulars. Pull 5 stands, close BOPs, and WOC until cement compressive strength reaches 1500 psig. Tag cement top and load wellbore with 6% gel from top of cement plug to 4200'. TOOH.

MI wireline unit. Shoot squeeze cementing perfs @ 4100' (30 ft below driller's gas show) with max charge in attempt to penetrate both 4-1/2" and 7" csg. Attempt to circulate thru squeeze perfs. If circulation established, cement behind 7" csg from perfs to 2500'. If circulation not established, perf @ 3000' and repeat in attempt to cement to 2500'. If squeeze cementing unsuccessful, cover perfs with cement plug. Load wellbore from top of cement plug to 2150' with . TOOH.

ND BOPs and attempt to pull 8-5/8" and 10-3/4" csg. Perforate 4-1/2" at 2100', establish circulation to surface, and squeeze cement to surface. Displace cement to depth of cement top behind 4-1/2" csg. WOC.

Free pt. cut, and pull all 4-1/2", 7", 8-5/8", and 10-3/4" csg that is free or accessible. Spot balanced cement plug 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.

Cost estimate includes

to abandon well line.

* IF CHANGES ARE NECESSARY NOTIFY STATE INSPECTOR.

Received

JUN - 3 7014

Office of Oil and Gas WV Dept. of Environmental Protection

Jan 19/014

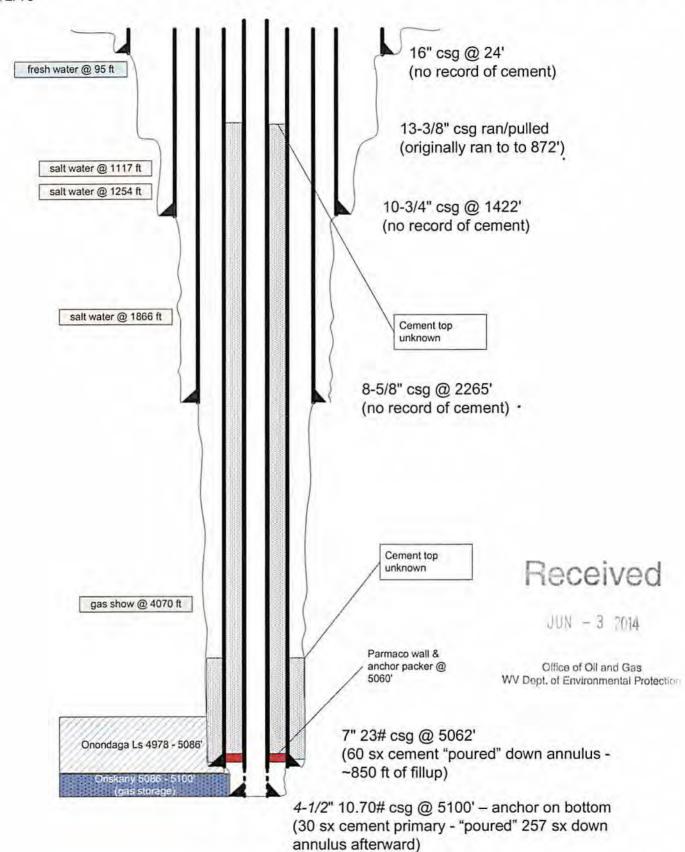
Rockport - 07237

DETAILED P&A PROCEDURE FOR STATE PERMIT APPLICATION

ROCKPORT 7	237		
Objective: P&A	well and aband	don line	
Well Info			
Drilled in 1950 Reconditioned	in 1953		
Field fabbed w	ellhead with con	crete pad/cellar	
* refer to wellb	ore schematic in	well file	
13-3/8" ran/pul 10-3/4" 40.50# 8-5/8" 24# set 7" 23# set @ 5 4.5" 10.81# 0.3 flowstring on log - no packer - o "poured" o surface). BURST C. API	@ 2265' (no rec 003' (old 1953 v 237" wall (4.026' set @ 5100' w/ v record of anche ant'd above pack	orecord of cement) ord of cement) ord of cement) vork order indicates 60 bags cement "poured") vork order indicates 60 bags cement "poured") vol Ogr B (35,000 yield strength) line pipe as vall & anchor pkr @ 5058' based on CCL response or but most likely one was ran to activate W&A ker w/ 30 sx primary - 257 sx of additional cement er in multiple trips (therefore most likely topped off at	
Driller's Forma	90 - 100'	(FW @ 95' - one 16" bailer/hr)	
slate sand Salt Sand Berea	1114 - 1148' 1254 - 1321' 1724 - 1916' 2411 - 2412'	(SW @ 1254' - three 13" bailer/hr)) (SW @ 1866' - hole full) (elog - not called by driller and no show rpt'd)	Received
shale Onondaga	3941 - 4164' 4978 - 5086'	(gas show @ 4070')	100 2 500
Oriskany TD	5086 - 5100' 5100'	(gas)	JUN - 3 7014
Top AOF 25.3 never fracture			Office of Oil and Gas WV Dept, of Environmental Protection
No MFL, CBL,	or neutron logs	ran to date	
* WELLHEAD	AND/OR CASIN	G BENT JUST BELOW GROUND LEVEL - 3.80" gauge rin	g will drift but mock-up HRVRT tool won't ga.
Procedure			
		nces, and State permit. Perform pipeline crossing eval.	
	DIRECTIONAL V E LOCATION **		OCATION - NEW DRILL 12591 WILL BE TARGETING 7237
Disconnect we	Il line. Prep road	d and well site.	
		THAN 2800 psi on light weight 4-1/2" flowstring at any depleased on fluid hydrostatic pressure.	th. Maximum surface pressures during kill job, pressure

ROCKPORT 7237

5/2/13



TD 5100'

MARCH WAS IN	ALT	DT 77	27		6760329A
D-2046	CFP	ORT 72	. 7 /	CASINO	
	1000		S1 20 16"	Het tip	Potes
H. C. McPherect				428	24
inited Puel Cos		100 KI 440 FM	13-3/8"	48#	871'9" p
Steale District		sy, W. Va.	10-3/4"	LOS	1421 17"
Nap Square 66-1		*	ST ×	214	226513*
Commenced 7-7-5			7°	234	5043'8"
Completed 9-19-		And A state of	name and a second	A P C T	2007
Blevetion 891.2	3	1 4 1 1 1 1	CONTRACTOR	3.3.3	72.53
		11 1 2 2 1 1	DETLIERS:	0000	TV 1902
Red Rook		65	Presh Water 95' 1-16	blr/hr.	7.50
Sand	65	. 74			2.75
Rad Rock	74	90	Salt Water 1117' 2-13	blrs/hr.	5)
Lime	90	100			595
Red Rock	200	120	Salt Water 1254' 3-13	" blrs/hr.	548
Lima	120	133			4.16
Red Rock	133	148	Salt Water 1866' Hole	full	
Line	148	172			100
Slate	172	260	Cas 4070' Slice		1,70
Red Rock	270	312		10 (20 (22 2	
Slate	312	344	Gas 5086-5100' 48/10	M. 7" 23# 1	0,913M ou.ft.
Red Rock	344	358			
Sand	358	370	Test before shot		
Red Rock	370	410	Not shot	atralita de N. G.	
Sand	410	417	FIRAL OPEN FICH - 10,	,913 M Orlak	EZZY
Slate	417	495	44 hrs R. P. 7709		
Red Rock	495	520		22.2	
Slate	520	617	Slate	1543	1724
Red Rock	617	632	Salt Sand	1724	1916
Slate & Shells	632	681	Slate	1916	1930
Red Rock	681	700	Sand	1930	2081
Slate & Shells	700	717	Limo	2081	2294
Red Rock	717	742	Slate	2294	3941
Sand	742	771	Shale	3941	4164
Slate	771	865	Slate	4164	4597
Lime	865	875	Shale	4597	4610
Slate	875	901	Slate	4610	4748
Red Rock	910	1001	Shale	4748	4978 SLK
Sand	1001	1017	Black Lime	4978	4988
Slate	1017	1073	White Lim	4988	5086 SIM
Red Rook	1073	1114	Oriskany Sand	5066	5100
Slate	1114	1148	MARKET THROUGH		***
Sand	1148	1192	TOTAL DEPTH	51	001
Slate	1192	1254			100
Sand	1254	1321			
Slate	1321	Receive U			
Send	1425	1489			
Slate & Shells	1489	1524	Domaha and Power Columb	d non 2 Canh.	
Sand	1524	JUN - 154314	Purchased from Column May 1, 1952	Tan a Carpo	n ou

Office of Oil and Gas
WV Dept. of Environmental Protection

Formerly P-23684

WELL RECORD AT DATE PURCHASED APT 14-107-00329 08045

47-107-00329

47-107-00329-P.

FORM ES 1/140 F C # D						14
ZE N. OF ST		ORK ORDE		7/0		2011 P
REQUEST NO. 3945-R		EVISION	BUDGET NO.		WORK ORDER NO	1 14 -
DATE April 28,	11	-5135-53	Producti			
United Buol Gas Company			DEPT (For Sto		DISTRICT CLE	endenin
COMPANY United Fuel Gas Company PROPOSED WORK Recondition Well X-58-723	7. and 1	Install He	avier Equipm	ent		
PROPOSED WORK RECOILED OF THE TOTAL TOTAL	-				HGINAL	
Well X-58-7237-Additions			NO	IN	STALLATION	
PURPOSE AND NECESSITY To Recondition Purch	ased Wel	Il for Sto	rage in Pool	Y-58.		
LOCATION: Well X-58-7237 - H.C. McPher	son Fart	D.		Wood	. Waat.	Virginia
NStee	19	TARI	ral	Count	7	STATE
DISTRIBUTION PLANT	FOR	Wall #	8046-Part	Removal		
RELATED PROJECT WORK ORDER NO. 3810	FOR	APPROVE			fford, Jr.	
APPROVED BY JOHN U. MAPULE	DETAI	L OF EXPENDITU		1		- I
	1		IMATE		CTUAL	VARIATION
MATERIAL TO BE INSTALLED PRICE	SIZE	QUANTITY	AMOUNT	QUANTITY	AMOUNT	
Steel Tubing-12# (used 10.81#) .93	4-1/2	51001	4,743.00	51651	5,376.76	633.76
Dugga Kapan D	4"307"	1	200.00	1	175.11	(24.89)
Wall & Anchor Packer Orbit Gate Valve-Comp.	4"	ī	475.00	1	508.20	33,20
Nord Fig. 2349 P. Valve-Comp.	4"	ı	400,00	1	365.38	(34.62)
Casing Centralizers 14.00	4"x7"		154.00	-12-	291.12	137.12
Bull Plug	411	1	12.00	1.	12.46 -	.46
Welded Tee	411	1	11.00	1	13.43	2.43
Anchor Clamps	4"	1	30.00	1	20.19	(9.81)
Turnbuckles 13.00	1-1/2"x		26.00	2	28.99	2.99
Welding Neck Flanges 900# 25.00	4"	8	200.00	8	223.89	23.89
Fittings			65.00		47.30	(17.70)
TOTAL MATERIAL		- 0	6,316,00	- 1 V-1 LE -	7,062.83 ,-	746.83
INSTALLATION ON THE TOTAL COST			1,000.00		1,155.12*	155.12
Direct Labor	2.7	4.7	1,000.00		1,655.97*	655.97
Use of Auto and Hauling	nga //	27/	275.00		109.12	(165.88)
Tools, Supplies & Miscellaneous Expe Hauling, Erecting & Dismantling Spud	der	53	350.00		*	(350.00)
Cement & Services	1001		1,200.00		1,647.66	447.66
Fuel Gas		11			30.00	30.00
Interest		1	-		58.18	58.18
- III AND AND			7.0			134.93
Stores Expense and Freight			638.00		726.26	88.26
Labor Benefits Overheads			184.00		209.11	25.11
Administrative Overheads		1	57.00		65.49	8.49
			1 10001 700		F 454 01	952.91
TOTAL INSTALLATION 300000000000 COST			4,704.00		12,719.74	1,699.74
TOTAL ESTIMATE			11,020,00		1	
INDICATE NORTH SKETCH	CORRECT	TO ACTUAL)			VENTORY MAP NO	None
	iv		Co. 03		ap Square 66-	107
NOTE: Move in Bucyrus Erie Spu	udder, a	ind String	of Cleaning	COL OF	1/20	
Pull 5079' of 2" Tubing	, and Cl	ean Well	Potumon !-	1/2 H Tu	hing	
Tubing on Wall and Ancho	or Packe	r. Cemen	arder Fouin	ent shu	t Well	
and 7" Casing to surface	a, and 1	na carr ne	TATOL Didnibu	circl and		

and 7" Casing to surface, and Install Heavier Equipment, shut Well In, and report results.

Received

JUN - 3 2014

Included in use of auto and Direct Labor

Office of Oil and Gas

F16

08/08/2014

2-763-3811-R

QUANTITY MAPPE

_ DATE

19_

47-107-00329-P.

-			COMPLETI	ON REPORT	-	The state of the s	
MAKE NEC	CESSARY	REVISIONS ON SHETCH TO SHOW	WORK ACTUALLY PE	RFORMED. I	~DICATI	NG LOCATION AND DIMENSIONS OF	SPECIAL CON.
STRUCTION	N.						
FOR LINE	WORK	ON ESTABLISHED STREET OR HIGHY	VAY, INDICATE ON S	KETCH THE	DISTAN	ICE OF LINE FROM ADJOINING PROPE	RTY, ALSO POR•
TION UND	ER PAVI	NG.					
WHEN LIN	E EXTER	IDS INTO TWO OR MORE TAN DISTRI	CTH LIST DELCW P	ORTION INST	ALLED	OR RETIRED. IN FACH	
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QUANTITY	BIZE			OUANTITY	SIZE	DESCRIPTION	
	 		0001 11-33 3	07#	<u> </u>		
		" Pipa New Smil. Gr. B.					
_1	J ^t u	Valve Gate Steel Orbit	,		·		
_1	1411	Valve Plug Nord Fig. 23	•	_	\ · -		
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<u>1</u> .	4"	Tee Welding XS Smil N	T V				
1	1,11	Plug Bull Steel S X					
8	Lu				ļ		
2	·	/2" X 18" Turnbuckles	\				
		X 7" Clamps Anchor					
13	I .	X 7" Centralizers Casin	` `		I		
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		" Valve Needla Steel Sc			-		
<u> 6 </u>		Gaskets Ring Oval Stee					
1,8	7	/8" X 6-1/4" Bolts All			-		
_2		/lin X 2lin Bolts Hair Pi			1		
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		PIPE COATING		ļ	1		DATE
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				1			
	 						
		Steel Tubing		INCORMA	NON TO	BE FURNISHED FOR SMALL STRUCT	URES.
				ß.		NGTH WIDTH	
		AND PT., MACHINE		1		HEIGHT TO RIDGE	
WIDTH OF	TRENCH	T., AVG. DEPTH_					
TYPE OF P				FOUNDAT	ION: KII ION:	HEIGHT DEPT ABOVE GROUND BELC	H .
PAVING CL	UT: WIDT	HFT. LENGTH	<u></u> . РТ,	III			
DESCRIBE	NATURE	or soil Storage Well					
				В			
ngeogr H	INI IAI IAI	CONDITIONS ENCOUNTERED IN CO	NBTRUCTION	ROOF: TY	PE	KIND	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				DOORS: N	·O	9126 KIND	
				WINDOWS	5: NO	BIZE KIND	
			·	PAINTING	·		
				MIRCELL	ANEOLIE		
				<u> </u>			
		I aham III	se of Auto C	ement. an	d Ser	vices overran the estima	te due to
REABON F	FOR OVE	CHUN · UNDKRRUN:	reine include	ng tha s	Dace.	between the conductor pi	08/08/2014
cement	ing b	etween all strings of C	ma natan peq minik Thermay	to he h	اروم	than estimated due to t	he dry
	nich_i	was not anticipatedM	Via Barat. Han		فأفتا بالبجود بدر		
hole wi weather							
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weather	P. STAI	June 8, nald D. Ruckerpars 10/1		DATE WOR	к сомр	LETEO August 15.	<u>53</u>

ROCKPORT 7237.txt

Survey File: C:\Humphrey Data\0514-4589.raw Date: May 07,2014
Time: 1:31
Description: GYROSCOPIC SURVEY

Location: ROCKPORT 7237 Customer: COLUMBIA 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: 0514-4589

Warm-Up Duration: 16.14 min

------SURVEY REFERENCE DATA-----Sight Reference Description: Corresponding Magnetic Compass Reading Received JACABS STAFF OVER HILL

Local Magnetic Declination: -8 deg.

REFERENCE SUMMARY
Survey Reference Point: 280 deg.
Local Grid Offset: 8 deg.

Drift Correction Method: Least Squares Drift Linearization

Computation Method: Minimum Curvature

Office of Oil and Gas

JUN - 3 2014

WV Dept. of Environmental Protection

	irection (deg):0				W	Dept. of Enviror
INRÚN red Measured	cord set Course	Course	Closure	TrueVert.	Recta	ıngular	Dogleg
Closure	Vertica					_	
Depth	Inclin.	Direction	Direction	Depth	Coord	linates	Severety
Distance (feet)	Section from Vert.	n (deg)	(deg)	(feet)	+N/-S	+E/-W	°/100 f
(feet) 100.00 2.10	(feet) 0.10 -2.1	165.5	186.50	99.97	-2.08	-0.24	2.20
200.00	0.47	182.5	185.16	199.97	-2.58	-0.23	0.40
2.59 300.00	-2.6 1.67	205.8	191.63	299.95	-4.29	-0.88	1.20
4.38	-4.3 _3.06	218.2	202.37	399.86	-7.70	-3.17	1.50
8.32 500.00	-7.7 4.58	211.9	207.73	499.64	-13.18	-6.93	1.60
14.89 600.00	-13.2 5.19	205.5	208.03	599.28	-20.64	-10.99	0.80
23.38 700.00	-20.6 5.86	203.8	207.03	698.81	-29.39	-14.99	0.70
32.99 800.00	-29.4 6.21	199.7	205.73	798.26	-39.15	-18.87	0.60
43.46	-39.2						
900.00 53.89	5.84 -49.1	197.1	204.32	897.71	-49.11	-22.19	0.50
1000.00	7.43	197.4	203.07	997.03	-60.14	-25.62	1.60
65.37 1100.00	-60.1 _7.92	195.9	201.98	1096.14	-72.93	-29.43	0.50
78.65 1200.00	-72.9 7.67	196.2	201.10	1195.22	-85.96	-33.18	0.30
92.14 1300.00	-86.0 5.70	195.2	200.50	1294.53 Page 1	-97.17	-36.34	2.00

			ROCKP	ORT 7237.t	xt		
103.74 1400.00	-97.2 4.87	193.8	200.02	1394.11	-106.09	-38.65	0.80
112.91 1500.00	-106.1 3.32	189.9	199.56	1493.85	-113.06	-40.16	1.60
119.98 1600.00	-113.1 2.19	177.1	199.00	1593.73	-117.82	-40.56	1.30
124.61 1700.00	-117.8 2.13	169.4	198.27	1693.66	-121.56	-40.12	0.30
128.01 1800.00	-121.6 1.67	141.1	197.33	1793.61	-124.52	-38.86	1.00
130.45 1900.00	-124.5 1.32	112.4	196.30	1893.57	-126.10	-36.88	0.80
131.38 2000.00	-126.1 1.14	63.8	195.48	1993.55	-126.10	-34.92	1.00
130.84 2100.00	-126.1 0.60	52.8	195.01	2093.54	-125.34	-33.60	0.60
129.76 2200.00	-125.3 1.15	92.0	194.43	2193.53	-125.05	-32.17	0.80
129.13 2300.00	-125.1 1.63	63.3	193.51	2293.50	-124.45	-29.90	0.80
127.99 2400.00	-124.4 1.55	52.4	192.63	2393.46	-122.99	-27.56	0.30
126.04 2500.00	-123.0 1.71	44.2	191.87	2493.42	-121.09	-25.45	0.30
123.74 2600.00	-121.1 1.89	46.8	191.05	2593.37	-118.90	-23.21	0.20
121.14 2700.00	-118.9 2.05	34.3	190.24	2693.32	-116.29	-21.00	0.50
118.17 2800.00	-116.3 2.02	34.2	189.52	2793.25	-113.35	-19.00	0.00
114.93 2900.00	-113.4 2.51	33.8	188.67	2893.17	-110.07	-16.79	0.50
111.35 3000.00	-110.1 2.55	26.3	187.81	2993.08	-106.26	-14.58	0.30
107.25 3100.00	-106.3 2.50	31.4	186.94	3092.98	-102.40	-12.46	0.20
103.16 3200.00	-102.4 2.65	32.5	185.84	3192.88	-98.59	-10.08	0.20
99.10 3300.00	-98.6 2.21	21.6	184.90	3292.79	-94.84	-8.13	0.60
95.19 3400.00	-94.8 2.38	7.9	184.48	3392.71	-90.99	-7.13	0.60
91.27 3500.00	-91.0 1.90	2.3	184.44	3492.64	-87.28	-6.78	0.50
87.54 3600.00	-87.3 1.60	346.7	184.77	3592.59	-84.26	-7.03	0.60
84.56 3700.00	-84.3 2.05	340.5	185.59	3692.54	-81.22	-7.95	0.50
81.61 3800.00	-81.2 2.29	322.4	187.14	3792.47	-77.96	-9.77	0.70
78.57 3900.00 76.48	-78.0 1.53	309.1	189.04	3892.42	-75.53	-12.02	0.90
4000.00 75.57	-75.5 1.00 -74.3	297.1	190.55	3992.39	-74.29	-13.83	0.60
4100.00 75.12	1.07 -73.5	293.7	191.88	4092.37	-73.51	-15.47	0.10
4200.00 74.08	1.06 -72.2	350.8	192.85	4192.36	-72.22	-16.48	1.00
4300.00 72.12	1.60 -70.0	335.4	193.80	4292.33	-70.03	-17.21	0.60
4400.00 70.62	1.79 -68.0	300.2	195.73	4392.29	-67.97	-19-14	ceived
, 5.02	55.0			Page 2			

JUN - 3 2114

			ROCKP	ORT 7237.t	xt		
4500.00	0.69	276.7	197.45	4492.27	-67.12	-21.09	1.20
70.35	-67.1						
4600.00	0.80	257.9	198.42	4592.26	-67.19	-22.37	0.30
70.82	-67.2						
4700.00	0.14	263.1	198.99	4692.25	-67.35	-23.17	0.70
71.23	-67.4						
4800.00	0.66	49.8	198.84	4792.25	-66.99	-22.85	0.80
70.78	-67.0						
4900.00	1.19	199.5	198.61	4892.25	-67.60	-22.76	1.80
71.33	-67.6						
5000.00	1.63	177.8	198.23	4992.22	-69.99	-23.05	0.70
73.69	-70.0						
5080.00	1.14	163.9	197.59	5072.19	-71.89	-22.79	0.70
75.42	-71.9						

Bottom:

True Vertical Depth	5072.19feet
Closure Distance	75.4 feet
Closure Direction	197.6 deg.
Course Direction	163.9 deg.

Received

JUN - 3 2014

Office of Oil and Gas
WV Dept. of Environmental Protection

WW-4A Revised 6-07

1) Date: 4/1/14			
2) Operator's Well Nun Rockport storage well 7237	iber		
3) API Well No.: 47 -	107	00329	

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

4) Surface Ow (a) Name	ner(s) to be served:	5) (a) Coal Operator Name not operated
Address	8361 Southern Highway	Address
(L) Massa	Rockport, WV 26169	A) Cool Governo (a) with Doublesties
(b) Name Address		(b) Coal Owner(s) with Declaration Name
Address		Address
(c) Name		Name
Address		Address
3) Inspector	Jamie Stevens	(c) Coal Lessee with Declaration
Address	105 Kentuck Rd	Name
201-0-0-	Kenna, WV 25248	Address
Telephone	304-206-7775	
TO THE PE	RSONS NAMED ABOVE:	You should have received this Form and the following documents:
	application to Plug and Abandon a Well o its and the plugging work order; and	n Form WW-4B, which sets out the parties involved in the work and describes the
	plat (surveyor's map) showing the well loca	stics on Power WW P

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	Well Operator	Columbia Gas Transmission, DCC
arth.	By:	James E. Amos James Cuma 6/2
11112 - 3 7014	Its:	Senior Well Services Engineer
0.00	Address	48 Columbia Gas Road
Office of Oil and Gas Wy Dept. of Environmental Pro	Doile	Sandyville, WV 25275
Office of Oil anental Pro	Telephone	304-483-0073

My Commission Expires
Oil and Gas Privacy Notice

Subscribed and sworn before me th

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.

day of

MARY MARIE CLENDENIN

RR 2 BOX 138 SANDYVILLE, WV 25275

My commission expires March 22, 2015

	Article Sent To:	
1466	ROCKPORT NV	26169
220 0009 0804 94	Postage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) Total Postage & Fees	\$ \$1.82 07 \$2.70 Postmark Here \$0.00 06/02/2014 \$ \$7.82 06/02/2014
נחון סבנ	Mildred P. Street, Apt. No.; or PO	uthern Highway

Received

JUN - 3 2014

Office of Oil and Gas WV Dept. of Environmental Protection

SURFACE OWNER WAIVER

Operator's Well Number

Rockport 7237

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

> NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have objection to a permit being issued		ne planned wor	k described in t	hese materials, and I have no
FOR EXECUTION BY A NATUR		FOR EXEC	UTION BY A CORPORATION,	
ETC.	Date	Name By		Received
Signature		Its		JUN 3 2014 Date
			Signature	OSDate/201

08/08/2014

API No. 47-107-00329 P

Farm Name McPherson, H. C., et al

Well No. Rockport 7237

INSTRUCTIONS TO COAL OPERATORS OWNERS AND LESSEE

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less then five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

	WAIVER
has examined this proposed pluggi	ntor/ owner/ lessee/ of the coal under this well location no work order. The undersigned has no objection to the work proposed to be well operator has complied with all applicable requirements of the West egulations.
Date:	
	Ву:
	Its

Received

JUN - 3 774

Office of Oil and Gas
WV Dopt, of Environmental Protection

WW-9 Rev. 5/08

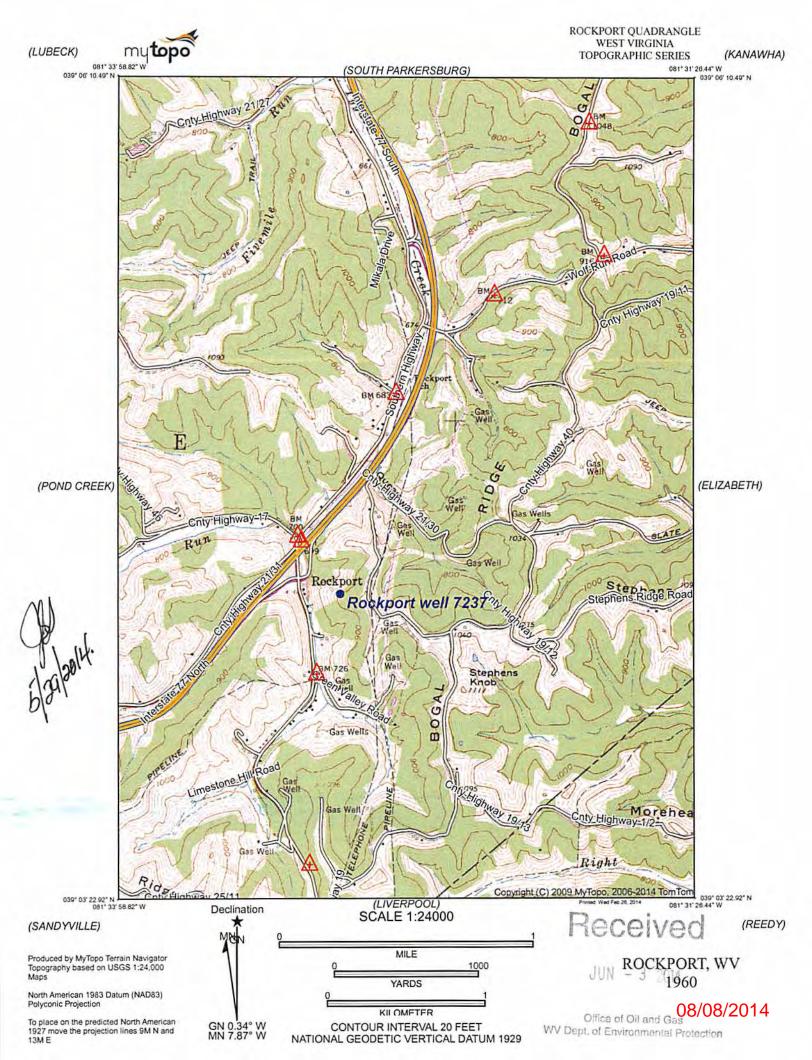
Page		of	
API Number 47 - 107	-	00329	
Operator's Well No. Rockpo	rt stora	ge well 7237	

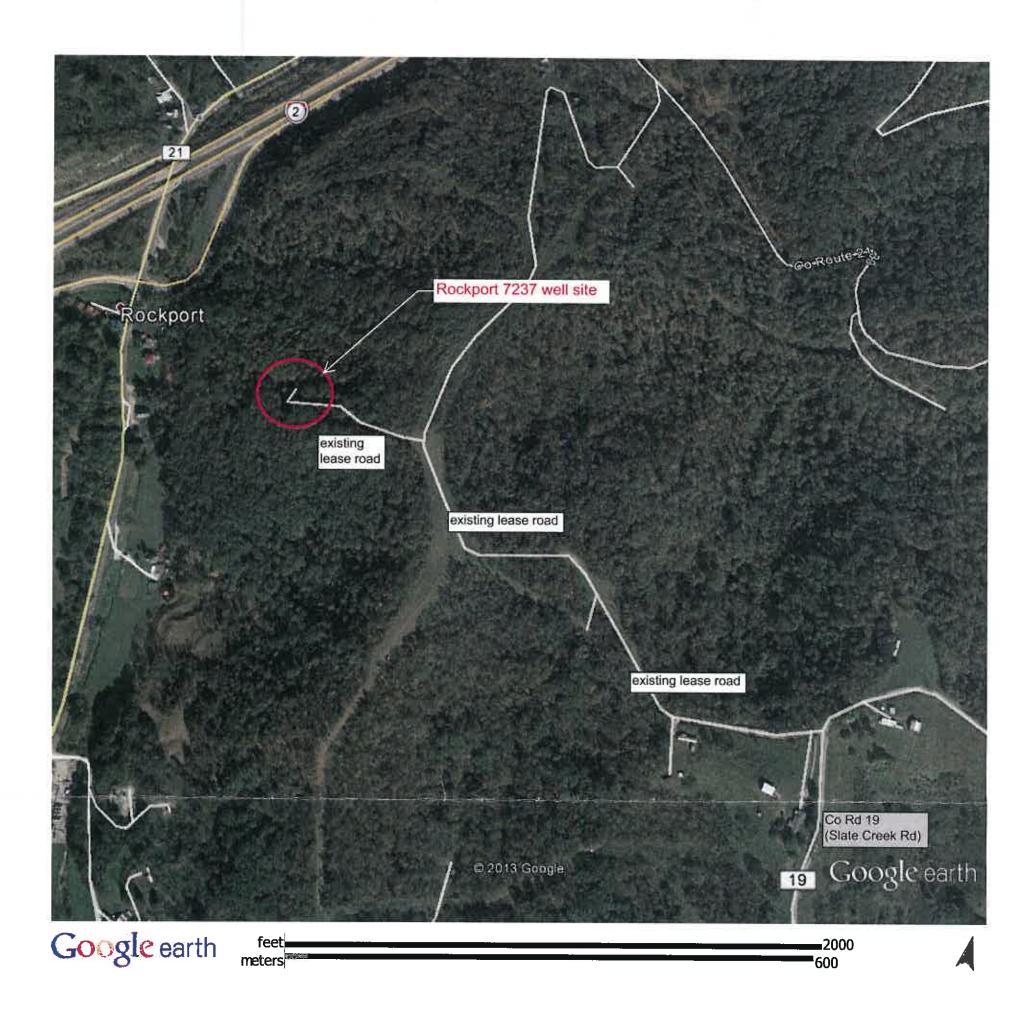
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

Operator Nam	_e Colun	nbia Gas T	ransmission, LL	С		OP Coo	de 30703	2		
Watershed Ty	gart Cre	eek		QıQı	iadrangle	Rockpor	t			
Elevation 89	90.3 ft		County_Woo	od		Distr	rict_Steel	е		
Description of	anticipate	ed Pit Waste:	fresh and/or s	alt water	r, drilling	g fluid, ce	ement ret	urns		
Will a syntheti	ic liner be	used in the pi	t? yes 20 Mil							
Proposed Disp	osal Meth									
	v	_ Land Appl			34-105	23610 34-16	7.2.0305 3/-	155-2-3705		
	^		nd Injection (UIC P	ermit Num	ber 34-103-	-230 19, 34-10	1-2-3333, 34-	133-2-3133	$\overline{}$	
	-		API Number	110110.5	12	Man affects				
	x	Other (Ex	spposal (Supply for plain Enviro Tank Cl	m ww-9 fo ean (Rt 7, E	er disposal Belpre, OH	location)				
Proposed Wor	le For Wh	ich Dit Will D	a Ucad:							
r toposed wor	K I OI WII	Drilling	c Used.		Swabb	ing /				
		Workover		X	Swabb Pluggi	no V				
	-	Other (Ex	alain							
provisions of t law or regulati I cert application fo obtaining the penalties for su Company Offi	the permit on can leadify under rm and a information ubmitting	are enforcea ad to enforcen penalty of la ll attachment on, I believe false informa	il and Gas of the We ble by law. Violation then the action. In that I have person that the information, including the power of the pow	ons of any onally example based on a listrue, a possibility of	nined and my inquir	am familiar y of those nd complete	he general pr with the individuals e. I am aw	nformation immediat	or other appl n submitted of ely responsib	licable on this ble for
		Senior	Well Service	s Ena	ineer			J	UN - 3 20	014
Company Offi			d .						fice of Oil and (
Subscribed and	d sworn b	efore me this	day	of J	int		_, 20_/5	_		
mai	y d	narie	Clende	i.		N	lotory Publi	c		
	0	5					San	S s	OFFICIAL SE NOTARY PUI TATE OF WEST V	BLIC
My commission	on expires	Mare	le 22, 2	015				TO SHE MAP	RY MARIE CLE BIA GAS TRANSMISSION RR 2 BOX 130 SANDYVILLE OVE	ENDENIN IN CORPORATION

	ſ	LEGEND	
Property Boundary		Diversion Contraction	
Road = = = = =		Spring	
Existing Fence — 🗶 —	- × — × —	Wet Spot	
Planned Fence/	- <i>//</i>	Drain Pipe with size in inches	─ ② ─
Stream	A A	Waterway \longleftrightarrow	\Leftrightarrow
Open Ditch ————	—··· > — ·· >	Cross Drain	
Rock ESSES	-	Artificial Filter Strip XXXX	
North N	•	Pit: cut walls	MILL.
Buildings		Pit: compacted fill walls	mark
Water wells W		Area for Land Application of F	tt Waste
Drill site		Œ.	
	ent: Acres Disturbed 0.9	OK Prevegetation pl	<u> </u>
Proposed Revegetation Treatm	ciii. Acies Distilloca	G E	<u> </u>
	Tons/acre or to correct to pH	6.5	
Fertilizer (10-20-20 o	r equivalent) 500 lbs/	acre (500 lbs minimum)	
Mulch 2			
Mulcn	Tons/a	cre	
	Seed	l Mixtures	
Агеа	I		ea II
Seed Type	lbs/acre	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,pi	it and proposed area for land appl	lication.	
Photocopied section of involve			Received
I notocopica soundi of involve	- <i>O</i>		1 10001400
	7:11		JUN - 3 2014
Plan Approved by:	glames D TWING		
Comments:			Office of Oil and Gas WV Dept. of Environmental Protection
			<u> </u>
		5/mina	, /
Title:		Date: 0/09, 3011	7
Field Peviewed?	VVes () No	





Reclamation Plan 1 of 2 (overview) - Rockport 7237

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

Office of Olt and Gas

WV Dept. of Environmental Protection

Received

08/08/2014

WW-7 8-30-06



West Virginia Department of Environmental Protection Office of Oil and Gas

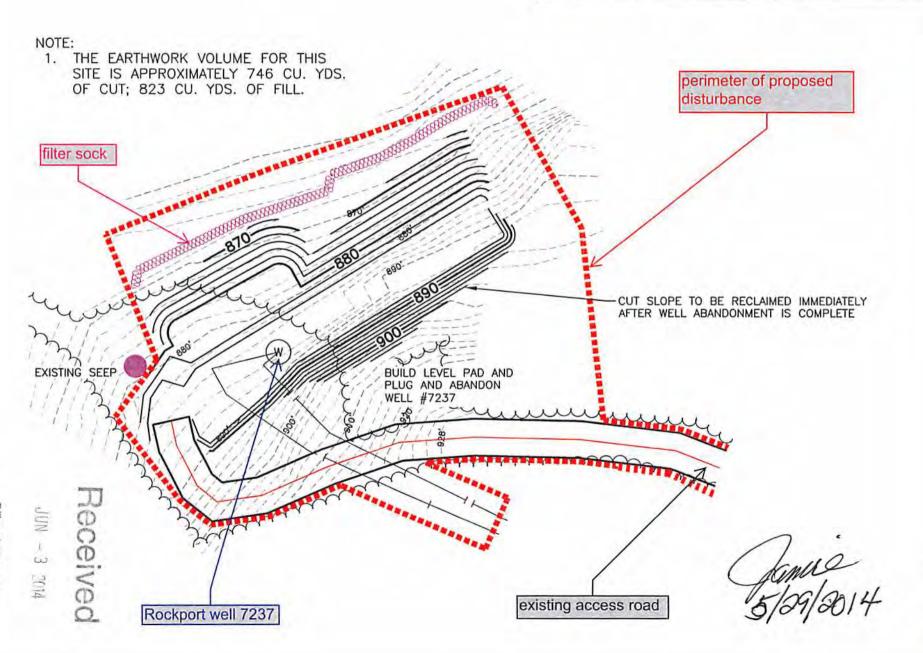
WELL LOCATION FORM: GPS

	LOCATION FORM. GIV	
API: 47-107-00329	WELL NO.:	7237
FARM NAME: McPhe	rson, H. C., et al	
	ME: Columbia Gas Trans	mission, LLC
	DISTRICT: S	
QUADRANGLE: Rock	port	
SURFACE OWNER: Mile	dred B. Amos	
ROYALTY OWNER: H.	C. McPherson, et ux (st	torage lease)
UTM GPS NORTHING: 43	325104.26 m	
UTM GPS EASTING: 452	431.95 m GPS ELEVAT	TION: 271.4 m (890, 2
the following requirements: 1. Datum: NAD 1983, height above mean s 2. Accuracy to Datum 3. Data Collection Met	hod:	
D	eal-Time Differential	JUN - 3 2014
Mapping Grade GPS X:	Post Processed Differential X	
	Real-Time Differential	Office of Oil and Gas WV Dept. of Environmental Protection
I the undersigned, hereby certif	the topography map showing the way this data is correct to the best of my ation required by law and the regulation of Gas.	vell location.
Jann E Cim	Senior Engineer	6/2/14
Signaturje	Title	Date

08/08/2014

Reclamation Plan 2 of 2 (Site Detail) - Rockport 7237

- grading / fill as depicted on drawing
- BMPs to be utilized per DEP



Office of Oll and Gas WV Dept. of Environmental Protection

070052