



LISW 933C

DPD- UH (0) 3-3 unnamed

State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

Well Operator's Report of Well Work

Farm name: ROWLAND LAND COMPANY

Operator Well No.: A-51, GW-1992

LOCATION:

Elevation: 1691.10 Quadrangle: PILOT KNOB

District: MARSH FORK County: RALEIGH
Latitude: 9135 Feet South of 37 Des. 52Min. 30 Sec.
Lonsitude 1620 Feet West of 81 Des. 32 Min. 30 Sec.



DAVISHON OF OIL & GAS DEPARTMENT OF ENERGY

Company:OXY USA, INC. P.O. BOX 873 CHARLESTON, WV	! & I	Used in Drillins	l	IFill Upl
Asent: DELBERT G. OLIVER Inspector: RODNEY G. DILLON Permit Issued: 06/07/88	 Size 20"	1 1 26'	l l l 26 ^t	
Well work Commenced: 7-2-88 Well work Completed: 5-5-89 Verbal Plussins 70 Rach 27/18/86 Permission granted on:	1 1 13-3/8''	i i 299'	ı ı 299'	1 TOC
Rotary X Cable Ris Total Depth (feet) 6283 Fresh water depths (ft) 40	7" 1	1 2654'	l 2654'	575 sx
Salt water depths (ft) 715'; 2901'	i 4-1/2"	I 6251'	l 6251'	2500'
Is coal beins mined in area (Y/N)?X Coal Depths (ft): 50', 226', 267'	i i 2-3/8" i	 	5201'	1 1

Devonian Shale, Weir,	21
Producing formation Big Lime Pay zone depth (ft) 2760-531	,
Gas: Initial open flowMCF/d Oil: Initial open flowBbl/d	
Gas: Initial open flowMCF/d Oil: Initial open flowBbl/d Final open flowBbl/d Time of open flow between initial and final tests80Hours	
Time of open flow between initial and final tests8Hours	
Static rock Pressure 575psis (surface pressure) after 120 Hours	
Second producing formation Pay zone depth (ft)	
Gas: Initial open flowBb1/d	
Final open flowBb1/d	
Time of open flow between initial and final testsHours	
Static rock PressurePsid (surface pressure) afterHours	

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.

For: OXY USA, INC.

By: Delbert G. Oliver

JUN 1 6 1989

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, EIC .:

Lower Huron (4666-5312') Perforated with 69 holes. Fracture stimulated with 50,000# sand. Upper Devonian (3553-4344') Perforated with 60 holes. Fracture stimulated with 50,000# sand. Weir (3144-3252') Perforated with 40 holes. Fracture stimulated with 50,000# sand. Big Lime (2760-2763') Perforated with 13 holes. Addized with 1,000 gallons 15% HCl.

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1000	16		01 10 157 14	CALL TERMS		
FORMATION	TOP	BOTTOM				
. I Old All LOIT	1 101	2011011	19,000 est		S Homen Litely	
Sand	. 0	50		to Advocation		178.0
Coal		-52	10.0		5,000	
Sand	52	226				
Coal	226	232				1,420 TXB #4
Sand	232	267				
Coal	267	268			建筑	
Sand	268	289				
Siltstone	289	401			4301.0	.1950,190
Sand	401	422			TANTA CASAR	विकाशका
Siltstone	422	707			DI BICLE	WISI
Sand	707	730			ALL	9
Siltstone	730	794			33 JUN 06	100U
Sand	794	819			Carta DOM OO	1303
Siltstone	819	909			DIVISION OF	211 0 040
	909	1017			DEPARTMENT	DE ENERGY
Sand Siltstone	1017	1141	NI SA A		aci VIIINEIAL I	JI EINERGY
	1141	1499				
Sand	1499	1519				
Siltstone	1519	1597				
Sand Siltstone	1597	1663			Excellence of the	
Sand	1663	1734				
Siltstone	1734	1818				
Ravencliff	1818	1907				.1(39) 治療等の
Siltstone	1907	2012				
Avis Limestone	2012	2050				
Siltstone	2050	2090				A SHAPE A SHAPE
Upper Maxton	2090	2141				
Siltstone	2141	2326	E REST.		The state of the s	
Middle Maxton	2326	2492			A PERSON NAMED	
Siltstone	2492	2514	50 A 50 E3		v. 1.4. ash	
Lower Maxton	2514	2528	4 0 M		fag, at the resp.	
Siltstone	2528	2594		1,10 11033.2		
Little Lime	2594	2659				
Pencil Cave	2659	2683				
Big Lime	2683	3048				
Siltstone	3048	21.2/	te dentil			
Upper Weir	3124	31 72	Legal bus		to sell ness	
Lower Weir	3172	3289				
Shale	3289	3509				
Sunbury	3509	3530			ия удяба азых	
Devonian Shale	3530	1 3722			014518 30 30 3417	
Gordon	1 3722	3736	,			
Devonian Shale	3736	4641		6283	e va nasarumn	
Lower Huron	4641	5336	X 1	25.84		
Java	5336	5798	1 18 3. 76	(2999) exo	1 ta	
Rhinestreet	5798	6226	****	The state of the s		
Marcellus	6226	6281				
Onondaga	6281	6283 T	A ULIVER O			
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2.65		•				

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FORM WW-2B

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

	WELL WORK PER	MIT APPLICAT	HOI	
	well Operator: OXY USA INC. 36	205.	2, 546	
5 -				7607 10
	Operator's Well Number: Rowland		3) 1 Total (1986) 1	Elevation: 1691.10
4.)	Well type: (a) Oil_/ or	and the second s		
	(b) If Gas: Produc	tion X Under Deep X	erground Stor Shal	age_/ lowx/
5)	Proposed Target Formation(s):_	Devonian Shal	e 441	
6)	Proposed Total Depth: 6200	feet		194 moka - Dan e
7)	Approximate fresh water strata	depths: <u>K 45</u>	2	
8)	Approximate salt water depths:) Non		Footon' man-
9)	Approximate coal seam depths:	Open Mines @ 4	1', 141', 221'	533-336, 1/90,
10)	Does land contain coal seams t	ributary to	active mine?	YesX No/
11)	Proposed Well Work:			
12)	DEVONIAN SHALE DRILLING WELL CASING AND	TUBING PROC	SRAM	e e e e e e e e e e e e e e e e e e e
	SPECIFICATIONS	FOOTAG	E INTERVALS	CEMENT
TYPE		-ha For	Left i	n Fill-up

000 C 0 000 FT	g:	PECIFICAT	IONS	FOOTAGE IN	TERVALS	CEMENT
TYPE	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16	H40	52	80	80	Surface
Fresh Water	13 3/8	H40	48	350	350	Surface 39CSR18-11, 3
Coal					7	385RIB 1400
Intermediate	7	K55	23	2840	2840	Surface 38CSR19-11.1
Production	4-1/2	K55	11.6	6200	6200	350 cu ft
Tubing	2 3/8	EUE	4.7	6200	6200	
Liners					10	ECEIVE

Production	4-1/2	K55	11.6	6200	6200	350 cu ft
	2 3/8	EUE	4.7	6200	6200	
Tubing					16	RCEIVE
Liners		<u> </u>				ALCORO A C
PACKERS : Kind						JUN 06 1988
Size Dep	ths set					DIVISION OF OIL & G
20010	J	Epr Diviso	on of Oil	and Gas Use	Only	DEPARTMENT OF ENE
Fee(s) A	aid:	H Well V	Work Permi	t SHE Red	clamation Fur	nd WPCP
Plat (WW-9 WW-2B (Type) (Type)						

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DIVISION OF OIL & GAS 2)
DEPARTMENT OF ENERGY 3)

Date: May 31, 1988		HERE HOS
Operator's well number		
Rowland A-51, GW 1992		
API Well No: 47 - 081	-	0822
State - County	-	Permit

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)	Surface Owner(s) to be served:	5) (a) Coal Operator:
	(a) Name Rowland Land Company	Name Peabody Coal Company
	Address 1033 Quarrier Street	Address P. O. Box 1233
	Charleston, WV 25301	Charleston, WV 25324
	(b) Name	(b) Coal Owner(s) with Declaration
	Address	Name Rowland Land Company
		Address 1033 Quarrier Street
	(c) Name	Charleston, W 25301
	Address	Name
		Address
6)	Inspector Rodney G. Dillon	(c) Coal Lessee with Declaration
	Address P. O. Box 1526	Name Peabody Coal Company
	Sophia, W 25921	Address P. O. Box 1233
	Telephone (304)-465-1911	Charleston, W 25324
	Telephone (304) 403-1911	Charleston, WV 25324
	TO THE PERSON(S) NAMED AN	BOVE TAKE NOTICE THAT:
	TO THE PERSON(B) WANED AT	JOVE TAKE NOTICE THAT!
X Sect I ha	ve served copies of this notice and	ced by Chapter 22B, Article 1, nia (see page 2) Chapter 22B of the West Virginia Code d application, a location plat, and 4 on the above named parties, by: attached) ostal receipt attached)
fami atta resp is t info	he terms and conditions of any perm I certify under penalty of law that liar with the information submitted chments, and that based on my inquionsible for obtaining the information, accurate, and complete. I am aware that there are significated in the condition of the possibility with the condition of the possibility with the condition of the possibility with the condition of	at I have personally examined and am on this application form and all iry of those individuals immediately ion, I believe that the information cant penalties for submitting false of fine and imprisonment. OXY USA Inc. Oliver Dox 873 Seston, WW 25323 1) 344-8383
Му с	ommission expires September	1992