

IV-35 (Rev 8-81)



OIL & GAS DIVISION
DEPT. OF MINES



State of Mest Birginia

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Date December 16,1983
Date December 16,1983 Operator's Well No. WI016
Farm Roberts
API No. 47 - 10 - 1237
107-1237

WELL OPERATOR'S REPORT

OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas $^{\times}$ / Liquid Injection (If "Gas," Production $^{\times}$ / Underground	/ Wast ind Storag	e Disposal e/ Deep	l/ p/ Sha	llow_X_/)
IOCATION: Elevation: 880.55 Watershed F	Right Fork	Kites Run		
District: Clay County Woo				
<u> </u>	<u>, </u>			
				·
COMPANY Bow Valley Petroleum, Inc.				
ADDRESS 600 Commerce Sq. Charleston, WV.	Caşing	Used in	Left	Cement
DESIGNATED AGENT Robert Long	Tubing	Drilling	in Well	fill up Cu. ft.
ADDRESS Box 235 Culloden, WV.	Size			
SURFACE OWNER Westvaco	20-16	·		
ADDRESS Parkersburg, WV.	Cond. 13-10"	39.70	` 39.70	15sks
MINERAL RIGHTS OWNER Glen W.Roberts Estate	9 5/8	258.50		to surface
ADDRESS Box 92 Elizabeth, West Virginia		230.30	250.50	to surrace
OIL AND GAS INSPECIOR FOR THIS WORK Deo	8 5/8	2046.30	2046.30	125sks
Mace ADDRESS Sandridge, WV.	7			:
PERMIT ISSUED November 30, 1982	5 1/2	5000	5000	2700/10
DRILLING COMMENCED	4 1/2	5209	5209	270sks
DRILLING COMPLETED December 15, 1982	3	·	4981.79	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		4701.77	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners useđ			
GPOLOGICAL TARGET FORMATION Devonian Shale		Dep	th	feet
F0771	Rotary X	/ Cabl		
170	~	feet		*
Coal seam depths: N/A		being min		area? No
		20219		
OPEN FLOW DATA	_	_		
Producing formation Devonian Shale				
Gas: Initial open flow Mcf/d				
Final open flow 231 Mcf/d				
Time of open flow between init				
Static rock pressure 575 psig(surface	e measure	ment) afte	r 24 hou	rs shut in
(If applicable due to multiple completion			٠.	
		y zone dep		
Gas: Initial open flow Mcf/d				Bb1/d
Final open flow Mcf/d	Oil: Fi	nal open f	low	Bbl/d
Time of open flow between init	ial and f	inal tests	hc	RITS
Static rock pressurepsig(surface	measurem	ent) after	hou	
		(Conti	rue on ra	3 1984 Perse side

(PEVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIPLLATING, PHYSICAL CHANGE, ETC.

1st Stage (N₂ Frac) Perforation Interval 31/49!-5011 (24 holes), 800 gal HCL @ 15%

Max.Pressure=3350#, Min.Pressure=2350#, N₂ Injection Rate=50,000 sft. 3/min, ISIP-2020#,

2nd Stage (No Frac) Perforation Interval 2349'-2726' (18 holes). 1250 gal HCl @ 15%, No Injected=1,260,000. Max.Pressure=3000#, Min.Pressure=2150#. No Injection Rate= 10,000 sft. 3/min. Partial Ballout

WELL LOG

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FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Top Soil Sand & Shale Shale Sand & Shale Red Rock Sand & Shale Sand Red Rock Sand & Shale Sand Sand & Shale Shale Sand	0 10 38 50 89 100 160 220 230 288 300 337 380 596 664 800 870 1670 1700 1717 1739 1965 2580	10 38 50 -89 100 160 220 230 288 300 337 380 596 664 800 870 1670 1700 1717 1739 1965 2580 5220 T.D.	H ₂ 0 @ 130' Electric Log Tops K.B. 891.55 Elev.880.55 Gbr.Lime 1746'-1900' Injun 1900'-1966' Sunbury Shale 2300'-2354 Berea Sand 2354'-2357' Dev.Shale 2357'-5237' 288 0 000 -5198- Elog Qw. 881
	l	1	•

(Attach separate sheets as necessary)

Bow Valley Petroleum, Inc.

Operator

Note: Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."



1) Date:N	ember 2	3		19_	99
2) Operator's			- 7	; · [***
-) Operator s					

47

State

County

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

Destrict: Country: Quadrangie:	· · · · · · · · · · · · · · · · · · ·	OIL AND GAS WELL F	PERMIT AP	PLICATION		
LOCATION: Elevation: Waternebet: Quadrangle Quadrangle					• •	
WELL OPERATOR Address OIL & GAS ROYALTY OWNER Address A	LOCATION: Elevation:	Watersh	round storage ned:	A THE SECOND	_/ Deep	_/ Shallow
Address OIL & GAS ROYALITY OWNER Address Acreage 13) COAL OWNER(S) WITH DECLARATION ON RECORD. Name Address Acreage 13) COAL OWNER(S) WITH DECLARATION ON RECORD. Name Address Address Acreage 14) COAL LESSES WITH DECLARATION ON RECORD. Name Address Addres						
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SURPACE OWNER Address Address	Address			Address		3
SURFACE OWNER Address 14) COAL LESSE WILD DECLARATION ON RECORD. Name Address PROPOSED WORK: Drill Drill deeper	-		13) C	OAL OWNER	(S) WITH DECLAR	ATION ON RECORD
Address OIL & GAS INSPECTOR TO BE NOTIFIED Name Address OIL & GAS INSPECTOR TO BE NOTIFIED Name Address Address 14) COAL LESSEE WITH DECLARATION ON RECORD. Name Address Plug off old formation Other physical change in owell (specify) GEOLOGICAL TARGET FORMATION, The Estimated depth of completed well, Feet: Storal being mined in the area? Yes. No. CASING AND TUBINO PROGRAM CASING OR CASING OR SPECIFICATIONS FOUTAGE INTERVALS For draing Let is set Case from Case for per fi. New Used For draing Let is set Case from Case for per fi. New Used For draing Let is set Case from Case for per fi. New Used For draing Let is set The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS COYALTY PROVISIONS The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS COYALTY PROVISIONS The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.) COYALTY PROVISIONS COYALTY PR						
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GEOLOGICAL TARGET FORMATION. The Stimated depth of completed well,	PROPOSED WORK: Drill	Drill deeper/	Redrill	/ Fract	ure or Stiffulge	/ISION
GEOLOGICAL TARGET FORMATION. The stimated depth of completed well.	Flug Oil Old Iorin	iation/ Perio	orate new fo	ormation L	EPT. OF N	AINE
Size Salt	GEOLOGICAL TARGET FORMATION,	A strain of the second of the				
Some period in the area? Yes No No No No No No No N	17) Estimated depth of completed well,	177 T1-63	_feet	4"		
CASING AND TUBING PROGRAM CASING OR Specifications For drilling Left in well Cable feet Cable fe						. A.
ASING OR PUBING TYPE Size Grade per ft. New Used For drilling Left in well Cobe feet)			_Is coal being	mined in the a	rea? Yes	/ No
TUBING TYPE Size Grade per ft. New Used For drilling Left in well Cable from		* ·				
As the water	TUBING TYPE Weight	1 1 1 -	1		OR SACKS	PACKERS
Sizes Sizes	onductor				 	Kinds
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OFFICE USE ONLY Date Date Descript covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legenents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. To No. 10) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall not in district oil and gas inspector 24 hours before actual permitted work has commenced.) It expires	named coal operator, coal owner(s), and coal	lessee on or before the da	y of the mail	ing or delivery	of this Permit Appli	ication to the Departme
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t expiresunless drilling is commenced prior to that date and prosecuted with due dilig	r to No. 10) Prior to the construction of roads.	, locations and pits for any r	permitted wor	rk. In addition	, the well operator or	his contractor shall noti
amos driming to commenced prior to that date and prosecuted with due diff				•		
1250min 1 min Casilik Fee	Bond: Agent: Plat:	Casing Fee	uess drilling is	s commenced p	rior to that date and r	prosecuted with due dilig

NOTE: Keep one copy of this permit posted at the drilling location.

Administrator, Office of Oil and Gas