

RECEIVED

JAN 5 - 1983

IV-35 (Rev 8-81) OIL AND GAS DIVISION W DEARTHEAT OF MINES



Date December 30, 1982
Operator's
Well No. 942

Farm Robinson

API No. 47 - 105 - 1017

(Continue on reverse side)

JAN 1 0 1983

Bepartment of Mines Gil und Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 1085.53 Watershed (Dil Rock Ru	THOS ROOM		
District: Clay County Wirt				
1870	9	sales	g Sand t	lternatin
COMPANY Bow Valley Petroleum Inc.	25.02			briss raign
ADDRESS 600 Commerce Sq. Charleston, W 25301	Casing	Used in	Toft of	Cement
DESIGNATED AGENT W. E. Stover	Tubing		in Well	fill up Cu. ft.
ADDRESS Culloden, WV	Size	DITTITING	TI WELL	Cu. It.
SURFACE OWNER Glen W. Roberts Estate	20-16			
ADDRESS Elizabeth, W	Cond.	-		
MINERAL RIGHTS OWNER West Virginia Pulp & Pape	13-10"	37	37	13 sks
ADDRESS Parkersburg, WV	3 3/0	251.20	251.20	100 sks
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8			
Mace ADDRESS Sandridge, WV	7	2134.60	2134.60	150 sks
PERMIT ISSUED 11-16-82	5 1/2			
DRILLING COMMENCED 12-3-82	4 1/2	5877.90	5877.90	280 sks
DRILLING COMPLETED 12-13-82	2			
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			2886
GEOLOGICAL TARGET FORMATION Devonian Shale Ma	arcellus	Dept	:h	feet
				8
	Rotary x	/ Cable		
Depth of completed well 5867 feet			0 0 0	
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet;	Salt	feet	35 200	area? No
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A	Salt		35 200	area? No
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA	SaltIs coal	feet being mine	d in the	5 Ook
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale	SaltIs coalPay	feet being mine zone dept	d in the	feet
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d	SaltIs coalPay Oil: Ini	feet being mine zone dept	d in the	feet Bbl/d
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d Final open flow 289 Mcf/d	Salt	feet being mine zone dept tial open al open fl	d in the	feet Bbl/d
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d Final open flow 289 Mcf/d Time of open flow between init	Salt	feet being mine zone dept tial open al open fl	d in the h flow show hou	feet Bbl/d
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d Final open flow 289 Mcf/d Time of open flow between init Static rock pressure testing psig(surface)	Salt_ Is coal Pay Oil: Ini Fin tial and fin	feet being mine zone dept tial open al open fl	d in the h flow show hou	feet Bbl/d
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d Final open flow 289 Mcf/d Time of open flow between init Static rock pressure testing psig(surface) (If applicable due to multiple completion)	Salt	feet being mine zone dept tial open al open fl hal tests ent) after	the in the hour hour	feet Bbl/d Bbl/d rs s shut in
Depth of completed well 5867 feet Water strata depth: Fresh 97 feet; Coal seam depths: N/A DPEN FLOW DATA Producing formation Devonian Shale Gas: Initial open flow Mcf/d Final open flow 289 Mcf/d Time of open flow between init Static rock pressure testing psig(surface)	Salt	feet being mine zone dept tial open al open fl hal tests ent) after zone dept	h flow show hour	feet Bbl/d

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. Well fraced in two stages; each stage consisting of 750,000 sft³ N₂ with 500 gallons of acid for initial breakdown.

LAN 1 0 MAL

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all frest and salt water, coal, oil and gas
Soil Alternating Sand & Shales Big Lime Injun Sand Weir Shale Sunbury Shale Dev. Shale	0 6 1870 2035 2100 2341 2386	6 1870 2035 2100 2341 2386 5750	OOMPANY BOW Valley Petroleum Ind ADDRESS 600 Commerce Sq. Charles DESIGNATED AGENT M. F, OUGUO -
	20-16 Cond	1095%	
37 37 13 side 251.20 100 ship	8/5 6 196	nia Pulp 6 P	5750 Leader 223900A
2134.60 2134.60 150 skm	8 5/8	FORK Dep	3364
\$877.90 (\$877.90 280 ates	5/1/2		
2051	1 Liners	NO STOR	
3486 1160 3486 3500 7 Javala 3500 7 Javala	Mocany Land	chian Shale 347 feet 97 feet	
3500 7 4050 Angola 3500 4050 Angola 4450 4050 Angola	Is coal		
3500 4050 Ans 4450 A	By:	Petroleum Incerator Orum (mber 30, 1982	necessary)

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 coal, encountered in the drilling of a well."

DRILLING CONTRACTOR:



1)	Date: Nove Mork	16, 19
2)	Operator's	

Permit

Well No. 47
State County

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

				DE				ND GAS DIVISION			1
					OIL A	ND GA	S WELL PERMIT	APPLICATION			
4) W	ELL TYPE:	A Oil		/ Gas	X	,1					
7, 11	LDE TITE.		Gas", Prod				Underground sto	rage	/ Deep	/ Shallow	_/) -
5) LO	OCATION:		ion:	7 7 7 6	53			DIL ROCK		and the state of	
C 1117	ELL OPER		et:	1011		27	County:		Quadrangle:		
6) W	ELL OPERA Address	ATOR	Com	MINERIO	83	9		Address	Sov 235	F. C. West, S. April Assoc of The	
	Address	Cha	12/45	TON	W.C	% 2:	5301	-	Culladen	abole	
7) 01	IL & GAS					+ 15	+. +.				
RO	OYALTY OV	WNER _	11201	1.1801	OCK	/) -	12)	COAL OPERAT Address	OR		
	Address	al-0	ka .					Address			
	Acreage	1973	P					COAL OWNER	S) WITH DECLARA	ATION ON RECOR	RD:
8) SU	JRFACE OV	VNER	Jest 1	Lings	eus.	1010	THERE	Name			
	Address	4 STAKK	FF551	ueg .				Address _			
	Acreage	187	7 5					Name			
9) FI	ELD SALE	(IF MADE	E) TO:					Address			
	Address		ARREN			191036			S SHEED, SALENDER	0.8003 -0.0	
							14)		WITH DECLARATI	ON ON RECORD:	1
,	IL & GAS IN	NSPECTO	R TO BE	NOTIFIE	D			Name		30 VCII	Trans.
INE	Address	STATE OF THE	TE SOLD	O DAME		3 12	The Part of the Pa		19)		1
			CASIA	3000		7 711	the will		NOV1	6 1982	
(5) PI	ROPOSED V						/ Redrill_		ure or stimulate		
							/ Perforate ne	w formation	OIL & GA	S DIVISION	
6 G	EOLOGICA	L TARGE	Other phy				illy)	7	DEPT.	IF MINIE	-
	Estimated						feet	America Arra Arra		A A A A B C Austres to	-3
18)	Approxim	ate water s	trata depth	s: Fresh	,	65	feet; sa	alt,	feet.		
19)	Approxim	ate coal sea	am depths:	10/1	7		Is coal	being mined in the a	rea? Yes	/ No	
20) C	ASING AND	TUBING	PROGRA	AM							
	SING OR		SPE	CIFICATION	NS	. 1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS	
	BING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)		
	luctor	13			X		32	30	To Sub the	Kinds	
Fresh	ı water	Vi per			×		2502	800	TAXED AND MICH.	Sizes	
	mediate	7		23	×		2000	2000	To See Sucr	25 12 3 15 15	
Prod	uction	46 115		10.5	X		5150	5/50	260 5/5	Depths set	
Tubir	ng										
Liner	rs				0000			mental and the		Perforations:	ottom
										Тор В	ottom
21) EX	KTRACTION	RIGHTS	3								
Ch	neck and pro				contin	uina aan	tract or contracts b	which I hold the	right to extract oil or	gas	
Ē							See reverse side for		right to extract on or	Suo.	
	DYALTY PR						- 12.16 No 15.25 No.			0 01 11 1	
Is	the right to e	xtract, pro	duce or ma	arket the o	oil or ga	s based u	ipon a lease or other	continuing contrac	t or contracts providing related to the volum	ng for flat well royal e of oil or gas so e	xtracted,
pro	oduced or m	arketed?	Yes	No 🗌							
	inswer above equired Copi			tional is n	eeded.	If the ar	iswer is Yes, you m	ay use Affidavit Fo	orm IV-60.		
24) C	opies of this	Permit A	polication	and the er	nclosed	plat and	reclamation plan	have been mailed by	y registered mail or d	elivered by hand to	the above
					al lessee	on or b	efore the day of th	e mailing or deliver	y of this Permit App	lication to the Depa	irtment of
	fines at Char	reston, we	est virginia	4.				Simula (This	AL FA	Parkana	
	ary:		TOTAL TO					- Commence	Yang Kalangan		
My	Commission	Expires						Its:	e describe de la	ON THE PARTY OF	
							FFICE USE O				
						4	PRILLING PE	KMIT			19
	number								Date		
This pe	ermit coverin	g the well	operator a	and well lo	cation	shown b	pelow is evidence of	permission granted	to drill in accordance given to the District (ce with the pertinen	t legal re-
(Refer	to No. 10) P	rior to the	construction	on of road	s, locat	ions and	pits for any permit	ted work.In addition	the well operator or	his contractor shall	notify the
proper	district oil a	nd gas ins	pector 24 h	nours befo	ore actu	al permi	tted work has com	menced.)			
Permit	expires	JU	ily 30,	1203			unless dri	lling is commenced	prior to that date and	prosecuted with due	diligence.