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IV-:	-81

OCT - 4 1983

State of West Nirginiu

Oil & GAS DIVISION Repartment of Affines
DEPT. OF MINION Repartment of Affines

OCT 23 1983

WELL OPERATOR'S REPORT

Date December 21,1982 Operator's Well No. WI-008 Farm Little Kanawha Co. - 1011 API No. 47 -105

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

OCATION: Elevation: 628.62 Watershed Li	ttle Kan	awha Rive	r	7.51
District: Newark County Wirt	to and	Quadrangle	Kanawha	1 /.5'
D MES 110 , 1800 , TESTAY DIRE DOES				
	n i			con a fina
OMPANY Bow Valley Petroleum, Inc.			¥2	Cerent
ADDRESS 600 Commerce Sq.Charleston, WV.	Casing	Used in	Left	fill up
DESIGNATED AGENT Robert Long	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Culloden, WV.	Size			olen
SURFACE OWNER Little Kanawha Co.	20-16 Cond.			
ADDRESS Box 304 Parkersburg, WV. 26101	13-10"	80.65	80.65'	70sks.
MINERAL RIGHTS OWNER Same	9 5/8	260.30	260.30	125sks.
ADDRESS -	8 5/8	Soft	ray	hald d
OIL AND GAS INSPECTOR FOR THIS WORK Dec Mace	7	1861.75	1861.75	125sks
ADDRESS Sandridge, WV.	5 1/2			
PERMIT ISSUED 11-14-82		5162.80	5162.80	305sks
DRILLING COMMENCED 11-17-82	4 1/2	7102.00	noxan	
DRILLING COMPLETED 12-1-82	W 25 P 2 1	bris	ะ และนา	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	2		Tudnut.	
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners		Chemun	
REWORKING. VERBAL PERMISSION OBTAINED ON	used	80	Marcell	
D Shele		Por	oth	fee
GEODOSICALI TATALITATION OF THE PROPERTY OF TH			-	
Depth of completed well 5188 feet				
Water strata depth: Fresh 89' feet;				
Coal seam depths: N/A	_ Is coal	l being mi	ned in th	e area!
OPEN FLOW DATA				
Producing formation Devonian Shale	; P	ay zone de	pth	fee
Gas: Initial open flow Show Mcf/d	Oil: I	nitial ope	n flow_	Bbl
Final open flow 120 Mcf/d	F	inal open	flow St	Bbl,
Time of open flow between ini				
Static rock pressure 340 psig(surfa				
(If applicable due to multiple completion				
I T ANNIT CAN B CIUR LO MULLUULE COMPLETE		ay zone de	pth	fee
				Bbl
Second producing formation .	Oil. I	man and and		
Second producing formation . Gas: Initial open flowMcf/d				
Second producing formation	Oil: E	final open	flow	Bbl

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHARGE, EIC.

1st Stage (N2 Frac)

Perforations Interval = 17 shots 4104'-5030' 1,400,000 5ft? of N2, 1000 gallons HCL A.I.R. 62,000 SCF/M. Breakdown 2710.

2nd Stage (No Frac)

Perforations Interval = 32 shots 3154'-3709' 900,000 5ft? of N₂, 1000 gallons HCL. Drop 20 perf balls ARI 54,000 SCF/M. Breakdown 2670'.

WELL LOG

Oil X Cas X (If "Cas," Product:

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and o	
			•	
Soil & Clay	0	16	COMPANY Bow Valley Petroleus	
Sand Stall W. Ball	16	88	Water 89' mana goa 'ggagaga	
Red Rock & Shale	88	925	DESIGNATED ACENT Robert Long	
Shale .	925	1296	PODRESS Culloden, WV.	
Sand	1296	1420	SURFACE OMMER Little Kangaha	
Shale	1420	1500	ADDRESS Box 304 Parkersburg,	
Sand White Hard	1500'	1794	MINTERL RIGHTS COMEN Same	
Shale Gray Soft	1794	4720	ADDRESS -	
Shale Black Soft	4720	5170	OIL AND GAS INSPECTION FOR THES	
Shale Black Solvey		1 VW er	Dishna? Sammer	
Electric Log Tops	\$ 1/2		The second secon	
Maxon	1376	1428	PERMIT ISSUED 11-14-82	
Injun Sand	1428	1731	DRILLING COMENSIO LIFELY-8	
Sunbury	2189	2207	DREILIBNG COMPLETED 12-1-82	
	2207	3449	IF APPLICABLE: PLANSERS OF D	
Chemung Marcellus	5102	5188	CONTRIVOUS PROGRESSILM FROM BEINGER ON COM	
Depth feet	16	and nainovad	MOUTHWAY SERVED TOWNSTED	
x / Cable Yools	E Rotary	set 881	A Lifew Sedes (compared to street)	
feet	dist to	h 891 oc	Water strate depths Inc	
these set al beal paied I			Coal seam depths: N/R	
			and the control of th	
			OPEN FLOW DATA	
ay sone depth feet		elide nalnov	Producing formation (e	
blidg woll mago Islain	t silo s	now Not	Gas: Initial open flow S	

(Attach separate sheets as necessary)

B0	W VALLEY PETROLEUM, INC.
Wel	1 Operator
By:	Second producting foundtilon
Date:	December 21, 1982

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 encountered in the drilling of a well."

IV-35 (Rev 8-81) DEC 23 1982



Date December 21, 1982

Farm Little Kanawha Co.

API No. 47 - 105 - 1011

(Continue on reverse side)

Date December 2:
Operator's
OPERT. OF MINISTRIE of Elest Hirginia Well No. WI-008
DEPT. OF Repartment of Mines Bil und Cas Bivision JAN 03 1983

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

LOCATION: Elevation: 628.62 Watershed	Little Kana	awha River		
District: Newark County W		Quadrangl		na 7.5'
ar	0		V	610 A [for
COMPANY Bow Valley Petroleum Inc.	88		Shale	ted Rock &
ADDRESS 600 Commerce Sq. Charleston, WV 2530 DESIGNATED AGENT W. E. Stover	Casing	Used in		Cement fill up
ADDRESS Culloden, WV. SURFACE OWNER Little Kanawha Co.	Tubing Size 20-16	Drilling	in Well	Cu. ft.
ADDRESS Box 304 Parkersburg, WV 26101	Cond.	80.65	80.65	70 sks
ADDRESS Same	9 5/8	260.30	260.30	125 sks.
Mace ADDRESS Sandridge, WV	8 5/8	1861.75	1861.75	125 sks.
PERMIT ISSUED 11-14-82	5 1/2	F162 00	5162.80	205 also
DRILLING COMPLETED 12-1-82	4 1/2	5102.80	5102.80	305 sks.
OF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON	Liners used			
EOLOGICAL TARGET FORMATION Devonian Shale		Dept	AND DESCRIPTION OF THE PARTY OF	fee
Depth of completed well 5200 feet	-	_/ Cable	Tools_	
Water strata depth: Fresh 89' feet Coal seam depths: N/A	; Salt	feet being mine		
PEN FLOW DATA Producing formation Devonian Shale		zone dept		5170? feet
Gas: Initial open flow show Mcf/d Final open flow 120 Mcf/d				
Time of open flow between in Static rock pressure 340 psig(surfa	itial and fi ace measurem	nal tests ent) after	24 hou	urs rs shut in
(If applicable due to multiple completion Second producing formation	on)			
Language Loring Tolling	Luy	Li-7	63	feet
Gas: Initial open flow Mcf/d	Oil: Tni	tial open	TION	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.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and ga
Soil & Clay Sand Red Rock & Shale Shale Shale Sand Shale Sand Shale Sind tojun ? Shale	0 16 88 925 1269 1420 1500 1794	16 88 925 1269 1420 1500 1794 5170	Encounter H ₂ 0 @1520'
Rhinestreet @ 7D		10193: (4)	
07 80.65 60.65 70 695			
8 260.30 260.30 125 sks	re el .		
		MIG NOW BO	
1861.75 1861.75 128 686		C # 70 1916	
	15 1	5 \$ 70	PERMIT ISSUED 11-14-82
2200 20 sera 29 70	ULU -	4541	
29 70		the state of the s	
	8	NO INVESTOR	NO CHICAGO ST
2	ent.I	AD STALLED I	CONTINUOUS PROCRESSION FROM REMORKING. VERBAL FRIENDISSIO
Depth * Fa		Tevonian Shal	CECLICATE TREEST FOR STRONG
aloom aldes V X	vastož ta	5200	Depth of completed well
Sicol story /	pet; Salt	es h 89° f	
	o sī	1	Coal seem depths:
of thems end of bonim point in			
Satis & State ages Asia		ninshed Winter Shale	

(Attach separate sheets as necessary)

Bow Valley Petroleum Inc.

Well Operator

By: Marin Comb

Date: December 21, 1982

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Els.		A E	
S			
A to		LIBER DOOR	

1)	Date:	mper 8	, 19		
2)	Operator's Well No.	- x000x	XMXXXXXX WE-O		
3)	API Well No	47	105 1011		

County

Permit

State

Kay Kesot	mces		DI	EPART		F MINES, OIL A		ION	
A STATE OF THE STA	Line of	VR75 10		OIL A	ND GAS	WELL PERMIT	APPLICATION	o plano issorbin so	
								ent revolutional as	
) WELL TYPE				100		I In demonstrated at		(D	/ Sh-11 V
LOCATION:	The state of the s	'Gas'', Pro	duction _			Underground sto Watershed:	orage	/ Deep	_/ Shallow/
	Distri		WELK			County:	t	Quadrangle:	anawha 7.5"
WELL OPER	CATON	ow var		trol	sum In	<u>C.</u> 11) DESIGNATE	D AGENT	tover
Address		leston		253			Address	Culloded W.	
OIL & GAS									
OIL & GAS ROYALTY C	WNER _	Little	Kanaw	ha C	э.	12) COAL OPER	ATORN/A	
Address	475	EOR 3	2 70 9	201235	26101	SERVICE COSTRE	Address		
Agranga	286	ersbug	re av.		YOTOT		COALOWN	ED/C) WITH DECLAR	ATION ON DECORD.
Acreage SURFACE O	WNER	Same ar	s abov	е		13	Name	ER(S) WITH DECLAR	ATION ON RECORD:
Address						20017.0	Address	A CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN	La la casa de la casa
	284								- Intenting
Acreage	ZO ZO						Name		anning III
FIELD SALE Address	e (IF MAD)	E) 10:					Address	THE TENE	III DUE
							COAL LESSE	E WITH DECLARAT	ION ON RECORD
OIL & GAS I	15.	R TO BE	NOTIFIE	D			Name		11 0 1982
Ivaille	t. I b	Dx 5	tol ten	ugust e		HE S. P. Lanes	Address	Colon MO	110
Address	and Ric	tge wv.	e e lh	. 655	5-7398	FROM Edit to		acture or stimulatoil	CAS DIVISION
PROPOSED	WORK:	Drill		Drill de	eeper	/ Redrill_		acture or stimulatell	& GAS DIVISION T. OF MINE
		Plug off	old form	ation		_/ Perforate ne	ew formation	DEP	T. OF
CDOLOGICA		Other phy		nge in w	ell (specif		Devonian)		OASK BOOK TO
GEOLOGICA 17) Estimated				5500		feet			
18) Approxim				,	0, 85		alt, N/A	feet.	
19) Approxim	nate coal se	am depths:	N,	/A		Is coal	being mined in th	e area? Yes	/ No
CASING AN	D TUBINO	PROGRA	AM						
CASING OR		SPE	CIFICATION	NS	1	FOOTAGE	INTERVALS	CEMENT FILL-UP	PACKERS
TUBING TYPE	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well	OR SACKS (Cubic feet)	
Conductor	T)			A		30.	30*	surface	Kinds
Fresh water	2 3/0	Electrical Inc.	7267100	A	22	750.	250"	to surrac	
Coal Intermediate	7		2328	X		2000	2000	to surface	Sizes
Production	45		10.5	X		5400	5400	275 sks	Depths set
Γubing									
Liners						and the second of			Perforations:
									Top Bottom
EXTRACTIO	N RIGHTS	3	e Rose to				Aller beausons		
Check and pro							the strongs	List I Saptains	
						act or contracts be se reverse side for		ne right to extract oil or	gas.
ROYALTY P									
									ng for flat well royalty or a contract of oil or gas so extract
produced or n		- president	No 🗆	viter of	the on or	gas in place with	on is not inneren	try related to the volum	ie of on of gas so extract
			tional is n	eeded. 1	f the answ	ver is Yes, you m	ay use Affidavit	Form IV-60.	
Required Cop Copies of this			and the en	closed p	olat and re	clamation plan h	ave been mailed	by registered mail or de	livered by hand to the ab
named coal of	perator, coa	al owner(s)	, and coal						ication to the Department
Mines at Char	rleston, we	st Virginia	•						A 11-5 a. 175
Notary:	<u>.</u>						Signed:	coincist	
My Commission	Expires						Its:		Constitution of the
					OF	FICE USE O	NLY		
					DR	ILLING PER	MIT		19
mit number								Date	
s permit coverin	ng the well	operator a	and well lo	cation	shown bel	ow is evidence of	permission gran	ted to drill in accordan	ce with the pertinent lega
rements subject fer to No. 10) P	rior to the	aitions con	n of roads	rein and	on the re	everse hereof. Not	tification must be ed work. In additi	e given to the District O	il and Gas Inspector. his contractor shall notify
per district oil a	and gas insp	pector 24 h	ours befo	re actua	l permitte	ed work has com	nenced.)		
mit expires	annet	July 16	, 100			unless dri	lling is commence	ed prior to that date and	prosecuted with due dilige
Bond:	Agent	: F	Plat:	2	Casing	Fee			

rc	roper district oil and gas inspector 24 hours before actual permitted work has commenced.)								
eı	mit expires	2017			unless di	rilling is commenced prior to that date and prosecuted with due diligence.			
	Bond:	Agent:	Plat:	Casing	Fee				

Administrator, Office of Oil and Gas