DRILLING CONTRACTOR:



1)	Date: Nov	. ,	16	, 1982
2)	Operator's Well No.	I	015	
	API Well No.		105	1024

DRILLING CONT	RACTOR:				OTD A	JAN SENTER		State	County Perm
			I	DEPARTM		TE OF WEST VOF MINES, OIL		ion allo ye wo to	31 To be falle
th are produce	oldwe, villy	rate le a						ins naturalizatuda i	
ensation of g	t of cond	Augaz or		a agrow.	ons a	ono meuro		yd anot blanfini	
) WELL TYPE		YES GIVEN	_/ Gas	X	1	a lis caesmi		ves under grayerd r	efter it son
	THE RESERVE TO SERVE	'Gas'', Pr		X		Underground		Deep	_/ Shallow/)
) LOCATION:			EWI	58 9RK	SOKO I		LEE CI		ELIZARETH
) WELL OPER	The second second second second		The state of the s		- I	County:	TAX LATER OF THE PARTY OF THE PROPERTY OF THE PARTY OF TH	Quadrangle: 4	
Address	THE PERSON NAMED IN COLUMN	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	mek	The second second	iq.	n leted in a fr	Address	Box 235	- Word and Co
	Chr	anles	tow	W.	Ca.	25301	or at a depth is	CullodE	N W/Va
OIL & GAS		-/	110	1 - 0+		- ++		11/2/2012	w S) Where we
ROYALTY O Address		ZA B	PERSONAL PROPERTY OF THE	alla	5 6	SIATE	12) COAL OPERA	ATOR N/A	s sicisfication
Address				20230			Address	national and day	registered
Acreage	20						13) COAL OWNE	ER(S) WITH DECLAR	RATION ON RECORD:
) SURFACE O				VIA FU	Ip :	TAPER	Name		
Address	TARI	Kersa	burg	161.11	a	[N] Sand	Address	20	20.040631.75.440
Acreage	-		1			- 2	PRIN !	3 111	tenguat) (8
) FIELD SALE	(IF MADI	E) TO:					NameAddress	3111	11) Su Res.
Address			rociation	ze grdate	arise	gi UU igg	1V 0 9 1002	distor me	(% 12) - (Coal Or
						"	(4) COAL LESSE	E WITH DECLARAT	TION ON RECORD:
OIL & GAS I				ED			Name	State See Mark C	18 80 147 At por 57
Name MR Address	RTI	Box.	TEXT COLUMN	ipor se i	og lip	OIL	& GAAddress SIC		SID NOW (2)
Address	AND THE PERSON NAMED IN COLUMN		ge 1	WUQ.	146) 1.21	DEF	I. DE MIN	VES TO STATE OF	ETT STORW
PROPOSED		Drill_	0	Drill deep	oer	/ Redri	II / Fra	cture or stimulate	Form IV-
		The state of the s	old form					ed forms\ondon	(6) Anticipat
		Other ph	ysical cha	inge in well	l (speci	fy)	-		
							(DEVONIAN	1)	The state of the s
18) Approxim						feet feet		MRAINSH ISBGSSD	or differences
19) Approxim					,,,,		salt,al being mined in the	feet.	HOUEVALE.
									/ No
CASING ANI	LOBING	PROGR	AM		22-4-	step to Code	a supposition pu	cesing programm	20) Proposed
CASING OR TUBING TYPE	-	SPI	Weight	NS I		FOOTAG	GE INTERVALS	CEMENT FILL-UP	PACKERS
olinabilges o	Size	Grade	per ft.		Jsed	For drilling	Left in well	OR SACKS (Cubic feet)	21) Code 21
Conductor Fresh water	13"			X		30	iv file the follow	To Surface	Kinds
Coal	178	eronia.	handa g	X	(D SA)	250	AF 10 42am on 1	Todupface	1008KS
Intermediate	7"		23	X	100 01	2200	in articlism i	125 5KS	Sizes
Production	42"	in and w	10.5	000	10 5	5450	amber wheren	270 SKS.	Depths set
Tubing							'is reconded:	ang to no art to t	and the state of
Liners		.1081	negrão	ical lease	JR. 4 0.E	ovisions of a	the royalty or	rier description	Perforations:
							(5)1	- S. Janes (5)	Top Bottom
od tap or S-Wil	af Fern	23/003 1	end for	BRIERO	edithe	il sabivorto se	wild in teamers	dell'edetà en e Ar	La record CAR
EXTRACTION	RIGHTS	eculation	7 yel bay P	under ig r	mole	d) w isic s.(i) yd bains gmots	ha Dersetutent, as	Partition has
Check and prov	vide one of	the follo	wing:	gener sec	arli ju	in lieu (heren	to \$1 noticions		miot sitt
Included The requ	is the leas	e or lease	s or other	continuing	contra	act or contracts	by which I hold the	right to extract oil or	gas.
ROYALTY PR			-4-1-(c) (1) through (4). (Se	e reverse side fo	or specifics.)	eviquely paid on 0	unless pr
Is the right to ex	ktract, prod	luce or ma	arket the c	oil or gas ba	sed up	on a lease or other	er continuing contra	ct or contracts providi	ng for flat well royalty or a
similar provisio	in for com	pensation	to the ov	vner of the	oil or	gas in place wh	ich is not inherently	y related to the volum	e of oil or gas so extracted
produced of ma	H Keleu!	res 🗀	NO K				nay use Affidavit F		over or
Required Copie	s (See reve	rse side.)						10 Inject the tested of the	
Copies of this P	ermit Appl	lication an	nd the end	losed plat	and rec	clamation plan h	ave been mailed by	registered mail or del	ivered by hand to the abov
Mines at Charle	ston, West	Virginia.	and coar	ressec on e	n belo	e the day of the	e maining or delivery	y of this Permit Applic	cation to the Department of
Notary:	or coal l	tamen)					sind Cha	H. 80	1. 6
My Commission 1	Expires	dativ bai	hai ad n	t al tima i	រក្ ១៨១	22420	Signed:	Alton B. Ke	berr)
,							is: <u>Geol</u>	9 10 310/11/11/19/1	days of to
						FICE USE O			
nit number 4	7-105-1	1024			DRI	LLING PER	RMIT	November 30	9.0
nit number	W Zini Ye	ofunisor	ISAMO)		G. an		Marsuro		01/12/2024°2
permit covering	the well o	perator a	nd well lo	cation show	wn belo	w is evidence o	f permission grante	Date d to drill in accordance	a with the mestinger to a
er district oil an	d gas inspe	ector 24 h	ours before	re actual pe	ermitte	d work has com	menced.)	n, the well operator or	his contractor shall notify t
nit expires		30, 1						prior to that data and -	rosecuted with due diligend
Bond:	Agent:	(P	lat:	Casi	ing	Fee	and is commenced	prior to mat gate and p	osecuted with due diligend
Blu 1-	1 000	2 11	111	MI	A	410	Adv	ministrator, Office of	Oil and Coo
- while	- OR	1	INAIN	· W	Ji	11/	Au	Office of	on and das

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

Line Item Explanation

- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
 - "Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less then six thousand feet, whatever is shallower.
 - 5) Where well is located
 - 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
 - 7) Use separate sheet if necessary
 - 8) Present surface owner at time application is filed.
 - 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
 - 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
 - 16) Anticipated formation for which well will be completed
 - 17) Self explanatory
 - 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
 - 19) All coal seam depths
 - 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
 - 21) Code 22-4-11(c) In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4)A brief description of the royalty provisions of each such lease or contract.
 - 22) Code 22-4-11(d) and 22-4-11(e).

. 19

Date:

- Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

added to the mine man. The undersigne	d has no objection	to the work propo	/of the coal under this well location for rea of the well location, the well location has osed to be done at this location, provided, the code and the governing resulations.	s been
The State and Albert Salp Save on this and mark of Salar	a peruardisco si suranti	2011 T 2014	The second secon	

By

Its

Line Item 21) - Pursuant to Code 22-4-11(c) the applicant, Bow Valley Petroleum, in lieu of filing the lease with the permit application, does hereby provide the following information:

1.) Hale tract is located in Newark and Elizabeth Districts of Wirt County, West Virginia, containing 429 acres more or less and bounded on the

North by Westvaco and Wayne Buchannan East by Westvaco South by Oliver Belt and James Batton West by Naomi Gilbert

Lessee - Flying Diamond Oil Corporation
Bow Valley Petroleum is successor in interest.

- 3.) Oil and Gas Lease is recorded in Wirt County Recorders office in Book 152 at Page 722.
- 4.) Landowners Royalty is 1/8 of all oil and/or gas produced. Overriding Royalty is 4% of 8/8ths of all oil and/or gas produced. Both are payable to Glen W. Roberts Estate.

I, Dennis K. Dangler, the undersigned, do hereby certify that the above provided information is correct and accurate to the best of my knowledge and belief and shows all the information required by law and regulations issued and prescribed by the Department of Mines.

Dennis K. Dangler Land Manager

DECEIVED NOV 2 3 1982

OIL & GAS DIVISION
DEPT. OF MINES



WEIL NO. WIO15 (REV.)

State of Mest Hirginia

API NO. 47 - 105 - 1024

Bepartment of Mines Gil und Gas Pivision

CONSTRUCTION AND RECLAMATION PLAN

The state of the s				
COMPANY NAME BOW VALLEY PETROLEUMIN	ve. DES	GIGNATED AGE	NI W. E. STOVE	2
Address CHARLESTON, WV		Address	CULLOGEN, WV	
Telephone 304-344-8393		Telephone	304-562-3376	
LANDOWNER WESTURGO CORP.		SOIL CONS.	DISTRICT CITE	KANAWAA
Revegetation to be carried out by Box	· Varie			(Agent)
그 그렇게 하면 하는 것이 하는 것이 되었다. 그렇게 되었다면 하는 것이 없는데 되었다면서?				
This plan has been reviewed by 1,4			SCD. All corr	ecuois
and additions become a part of this plan:		/-22-82 (Date)		
	Can	Ho	Jan !	
	July	(SCD Agent	.)	
ACCESS ROAD			LOCATION	
				. 1 1
Structure DRAINAGE PITCH	(A)	Structure /	Vo Structures	reded (1)
Spacing .		Material_		
Page Ref. Manual Z-/Z		Page Ref. M	์ เลกเวลไ	
Page Ref. Manual Z-/Z		rage rece.		State of the state
Structure COLVERT (18")	(B)	Structure	De la	(2)
Spacing		Material	112568	MARIA
Spacing_		A STATE OF THE PARTY OF THE PAR	AVO.	(11)
Page Ref. Manual 2-8		Page Ref. M	anual 100/23	1902
Structure	(C)	Structure	011 0	(3)
Structure	(C)	bulucture_	DEHT GAS DIN	-
Spacing		Material_	DE AT	INFO
Page Ref. Manual		Page Ref. M	ianual	-0
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		and manaine	d if magazzami	177
All structures should be inspected a commercial timber is to be cut and sto	regularly acked and	all brush o	end small timber to	be .
cut and removed from the site before a	dirt work	begins.	•	
REN	VEGETATIO	N		
Treatment Area I + II		T	Treatment Area II	
Lime Z Tons/acre		Lime		Tons/acre
or correct to pH 6.5		or corre	ect to pH	
Fertilizer 600 lbs/acre		Fertilizer	(10, 20, 20, 27, 27)	lbs/acre
(10-20-20 or equivalent)			(10-20-20 or equiva	Tons/acre
Mulch Hay Z Tons/acre		Mulch_		
Seed* Kentucky 31 Fescue 45-lbs/acre		Seed*		lbs/acre
LADINO CLOUER 5 lbs/acre			3	lbs/acre
Rye 5 lbs/acre				_lbs/acre
*Inoculate all legumes such as vetch,	trefoil	and clovers	with the proper b	acterium.
Inoculate with 3X recommended amount.			01/	12/2024
	PLAN PRE	PARED BY	LILLIAM F. HENRI	CHS, TT.
NOTES: Please request landowners'		ADDRESS	o Commence	50
cooperation to protect new		-		
seedling for one growing season. Attach separate sheets as		CH	ARLESTON, WV	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
necessary for comments.	Ph	ONE NO. 30	4-344-8393	

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP.

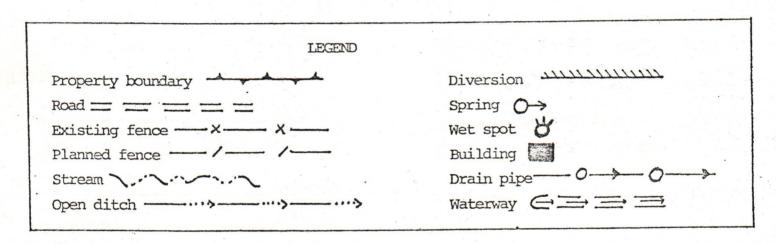
QUADRANGLE ELIZABETH

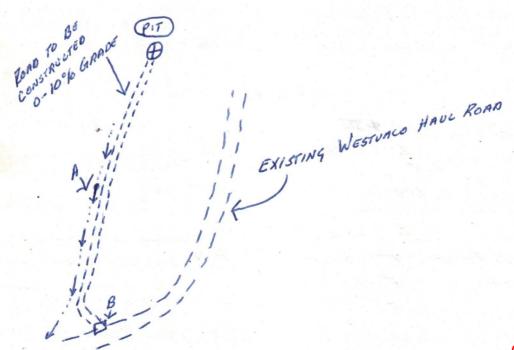
Well Site ()
Access Road —

LOCATION IS ON A FLAT RIDGE TOP, ACCESS ROAD WILL BE CONSTRUCTED ACCORDING TO PLAN.

WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wellsite, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.









01/12/2024



OIL & GAS DIVISION
DEPT. of MINES



State of Mest Hirginia Department of Mines

Gil und Vas Zivision

Date	December	r 16,	1983	
Opera	tor's			
Well	No. WI	015		
Farm	Robert	s (Ha	le)	
API N	ю. 47 -	105	- 1024	4

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

OCATION: Elevation: 1036.58 Watershed	Lee Creek			
District: Newark County Wirt		Quadrangle	e Elizabe	th
OMPANY Bow Valley Petroleum, Inc.				
ADDRESS 600 Commerce Square , Charleston, WV.	Casing	Used in	Left	Cement
DESIGNATED AGENT Robert Long	Tubing	Drilling		fill up Cu. ft.
ADDRESS Box 235 Culloden, WV.	Size	Briting	III WELL	Cu. Ic.
SURFACE OWNER W.VA. Pulp & Paper	20-16			
ADDRESS Parkersburg, W.	Cond.	100 50	00.50	10 1
MINERAL RIGHTS OWNER Glen W. Roberts	13-10"	20.50	20.50	12 sks.
ADDRESS Elizabeth, WV.	9 5/8	262.05	262.05	90 sks.
OIL AND GAS INSPECTOR FOR THIS WORK Deo	8 5/8	0070 /5	0070 /5	100 1
Mace ADDRESS Sandridge, WV.	7	2279.45	2279.45	190 sks.
PERMIT ISSUED November 30, 1982	5 1/2			
DRILLING COMMENCED 12/16/82	4 1/2	5515.75	5515.75	281 sks.
ORILLING COMPLETED 12/30/82	3			
F APPLICABLE: PLUGGING OF DRY HOLE ON	2		5492.80	
CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED	Liners used			
DN	<u> </u>			
SECTION Dev-Shale-Marcellu Dev-Shale-Marcellu	ıs ·	Dep	th 5270'-	5567' feet
	Rotary X	/ Cable	e Tools	
Water strata depth: Fresh 95 feet;	Salt	feet		and the
Coal seam depths: N/A	Is coal	being mine	ed in the	area?No
DPEN FLOW DATA				
Producing formation Devonian Shale	Par	y zone dep	th 2633'-	5386' faat
	Oil: In			Bbl/d
Final open flow 158. Mcf/d			-	Bb1/6
Time of open flow between ini				
Static rock pressure 625 psig(surfa			NE L	
(If applicable due to multiple completion		ient, arte	LNOU	rs snuc ii
	n)	r gone den	01	/12/2024
Gas: Initial open flow Mcf/d		to a control of the c		feet
Final open flow Mcf/d				Bbl/d
	ULLE FII	mi useli I	LOW	501/0

FORM IV-35 (REVERSE)

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

1st Stage N₂ Frac Perforation Interval = 3890'-5386' (29 holes)

800 gal (HCL @ 15%)

 N_2 Pumped = 1,000,000 Sft.3

Partial Ballout

Max. Press. = 3100# Min. Press. = 2200#

N2 Injection Rate = 63,000 Sft.3/min.

2nd State N2 Frac Perforation Interval = 2633'-3594' (30 holes)

1000 gal (HCL @ 15%)

 N_2 Pumped = 1,034,000 5ft. 3 Injection Rate = 59,000 5ft./min.

Partial Ballout

Max. Press.=3,000# Min. Press.=2,400#

WELL LOG

DRMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres
	31.2	Table 1	and salt water, coal, oil and ga
Clay Sand & Shale Sand Red Rock Sand Red Rock Sand Red Rock Sand & Shale Red Rock Sand & Shale Red Rock & Shale Sand & Shale Red Rock Sand & Shale Red Rock Sand Red Rock Sand Red Rock Sand Sand & Shale Lime Sand Sand & Shale Sand Shale	0 5 125 149 161 191 208 299 311 348 353 387 404 529 547 567 589 628 634 650 940 960 1410 1570 1775 1820 1854 1888 2084 2100 3700	5 125 149 161 191 208 299 311 348 353 387 404 529 547 567 589 628 634 650 940 960 1410 1570 1775 1820 1854 1888 2084 2100 3700 5550 T.D.	Electric Logs K.B. 1046.58 Elev.1036.58 Gr.Lime = 2102'-2180' Big Injun = 2180'-2198' Weir = 2198'-2606' Sunbury = 2606'-2656' Berea = 2656'-2658' Shale = 2658'-5567' H20 @ 1950'

(Attach separate sheets as necessary)

Bow	Valley Petroleum, Inc.	
Wel	11 Operator	
By:	Marin Com	6 01/12/2024
Date:	12/16/83	

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."

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

DEC 2 9 1982

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 109 - 1024			OilorG	West A Vest
Company Bow Valley	CASING AND TURING	DRICLING	UFF IN	SACKEDS
Address	Size			They Make has the state
Farm Roberto	16			Kind of Packer
Well No. 61 015	13	***************************************		
District Newark County Wit	10			Size of
	65%	**Alpha Charles		
Drilling commenced 12-16-82	5 3/16			
Drilling completedTotal depth				'-ri -ap
Date shot Depth of shot				tof settem
Initial open flow/10ths Water inInch	Liners Used			· 11 * p
Open flow after tubing/10ths Merc. in Inch				
VolumeCu. Ft.	CASING CEMEN	TED	I.F.	Date
lock pressurelbshrs.	NAME OF SER			FIRE C
bbls., 1st 24 hrs.	COAL WAS EN	COUNTERED	T. Pr	NET INCHES
resh waterfeetfeet	FEET_	INCHE	S	ETINCHES
alt waterfeetfeet				
Prillers' Names S. Cw. Jack H				
emarks:				
Rig Shut down for	Holiday			
12-21-82		00	7 1112	
DATE		4	es Ma	DICT WELL INSPECTOR
			Sign Williams	01/12/2024

Dis mace

DISTRICT WELL INSPECTOR

DEPARTMENT OF MINES

Form 26 2/16/82

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

				Wel	II No	
OMPANY_	no 40		ADDRESS		None State of the Asia	
ARM		DISTRIC	Tan machab	COUNTY		
illing Material Used						
iner Loca	ation	Amount	Packer	Location		
PLUGS USED AN	ND DEPTH PLACED		BRIDGES	CASIN	G AND T	UBING
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LUCATION	RECOVERED	SIZE	LOST
	green and the contract of the second				Carried Marie 1970	Market Street Street Street
La					Secretar Secret	
	SALAN ENGINEERS TO		1 2 2 2		And the second s	otoropiso k
				i de se digali.	A STATE OF THE STA	36)
				and the Came	e a se se meser de la constant	wafi near
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a characteristic					, our	
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				ida		The second have the second second second
871-T-1.	17 TA,	CSIRSI W U O	Act a a will a series in the	7116	The second secon	7:27
rillers' Names	P122H)	()XI	7 d 1 7			3.
7.1	LESEN	(OVI	A LAND S. COLUMN STATE OF THE S	A STATE OF THE STA		and the district of the second
emarks:						* I movemble

01/12/2024

DATE

I hereby certify I visited the above well on this date.

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL AND GAS DIVISION

FINAL INSPECTION REQUEST

INSPECTOR'S COMPLIANCE REPORT



OIL & GAS DIVISION
DEPT. OF MINES

Permit No.//	55-/024 County	Wirt		ugunda pidane rediseder generalisektekte
Company Bo V	v Valley Petroleum Farm C	ilen W. R	oberts	Estat
Inspector A		. 015	race and the second	
Date /0/	4/83			
	·		IN COMP	
RULE	DESCRIPTION		Yes	No
23.06	Notification Prior to starting Work		-	
25.04	Prepared before Drilling to prevent waste			-
25.03	High-Pressure Drilling			-
16.01	Required Permits at wellsite			
15.03	Adequate Fresh Water Casing			***********************
15.02	Adequate Coal Casing			
15.01	Adequate Production Casing			-
15.04	Adequate Cement Strength			-
23.02	Maintained Access Roads			
25.01	Necessary Equipment to prevent Waste		V V	
23.03	Reclaimed Drilling Site			
23.04	Reclaimed Drilling Pits			
23.05	No surface or underground Pollution			
7.03	Identification Markings			
COMMENTS:				
		A Por		
	. 100	<u>y</u>		
	A DE			

I have inspected the above well and (HAVE/HAVE NOT) found it to be in compliance with all of the rules and regulations of the Office of Oil and Gas Department of Mines of the State of West Virginia.

21	9/0	- 1	7.
SIGNED: //	mes this	oughe	ug
DATE:	10/4/83	0	01/12/2024
	/ //		



State of Mest Virginia

JOHN D. ROCKEFELLER, IV.
Governor

Bepartment of Mines
Charleston 25305
January 11, 1984

WALTER N. MILLI Director

Bow Valley Petroleum, Inc. 600 Commerce Square Charleston, W.Va. 25301

Gentlemen:

The required records and reports have been received in this office and the District Inspectors have submitted FINAL INSPECTIONS for the following wells listed below:

PERMIT NUMBER	FARM AND WELL NUMBER	DISTRICT
WIRT-1922	WEstvaco/G. Roberts # WI-017	Spring Creek
WIRT-1023	Westvaco/G. Roberts # WI-018	Spring Creek
WIRT-1024	W.Va. Pulp & Paper/G. Roberts # WI-015	Newark

In accordance with Chapter 22, Article 4, Section 2, the above captioned wells will remain under bond coverage for "life of wells." Reclamation requirements have been approved.

ery truly yours,

Theodore M. Streit, Administrator Dept. Mines-Office of Oil & Gas

DAS/ rl

(If not available, feeve blank, 14 digits.)	47-105-1024	
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA Category	Coge
 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) 	5567 'ee:	ew Comment
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, feeve blank.)	Bow Valley Petroleum, Inc. Name 600 Commerce Square Street Charleston, WV 253 City State Zup C	
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters meximum for field name.)	NEWARK Field Name WIRT County Sta	<u>V</u>
(b) For OCS wells:		
	Date of Lease: Mo. Day Yr. OCS Lease Num	
(c) Name and identification number of this well: (35 letters and digits maximum.)	ROBERTS WI-015	
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)		
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp	04030
(b) Date of the contract:	Mo. Day Y:	Bayer Carte
(c) Estimated annual production:	MMcf.	
	(a) Base Price (b) Tax (c) All Other Prices [Indicat	(d) Total of (a).
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	2.841	
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	2.84/	
Agency Use Only	Robert Hart Genera	al Mgr.V.P.
JAN 13 1984 gency	Name Robert Hart Signature	
Jate Received by FERC	<i>I-11-011</i> (304) 344-8	393

PARTICIPANTS: DATE: MAR 9 1984	BUYER-SELLER CODE
WELL OPERATOR: Bow Valley Petroleum,	046189
FIRST PURCHASER: - Columbia Gas Trans Corp.	004030
OTHER:	
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 840113-103-105 = 1024	APPROVED
Uso Above File Number on all Communications Relating to Determination of this Well	MAR 26 1984
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
1. FERC -12h Items not completed - Line No.	
1. FERC -121 2. IV-1 Agent Items not completed - Line No.	
3. IV-2 Well Permi	
5 19 25 19 11 2	
Deep Deep	
7 IV 30 Appel Day 1	Ratio
8 77 40 00 4 7	
9. IV-48 Application for certification. Complete?	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?	
18-28. Other: Survey Logs Geological Charts	_ Affidavit Signed
Structure Map 4000 Map Wel	l Tabulations
(5) Date commenced: Date completed De	eepened
(5) Production Depth:	
(5) Production Formation:	
(5) Final Open Flow:	
(5) After Frac. R. P.	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(8) Line Pressure:	PSIG from Daily Repor
(5) Oil Production: From Completion Report	
0-17. Does lease inventory indicate enhanced recovery being done	
O-17. Is affidavit signed?Notarized?	
. The submitted inform	mation?
dditional information Does computer program confirm?	
as Determination Objected to By Whom?	

DATE: MAR 9 1984

	·
Operator' Well No.	WI-015

STATE APPLICATION FOR WELL CLASSIFICATION

Previous File No. (If Applicable

WELL OPERATOR Bow Valley Petroleum Inc.	DESIGNATED AGENT ROBERT N. Hart
ADDRESS 600 Commerce Sq.	
Charleston, WV 25301	ADDRESS 600 Commerce Sq.
Cor Dunday Corner	Charleston, W 25301
Heter Chart Lode	Honth, day and year)
Name of First Purchaser Columbia Gas Transmis	·
Box 1273	ozon corporation
Charleston (Street or).	0. Box)
(City) (State	
FERC Seller Code 040189	FERC Buyer Code 004030
TYPE OF DETERMINATION BEING SOUGHT:	103
(1) Initial determination (See FERC Form 121.)	Section of NGPA
 (2) Determination that increased production is trecovery technology. 	the result of enhanced
(3) Determination of a seasonally affected well.	
No.	Robert Hart Vice President-Ceneral Ma
	Robert Hart
Šī	gnature
. St	600 Commerce Sq.
	Charleston, W 25301
:	ty State (Zip Code)
A _T	904 344-8393 Phone Number
(Certificate of Proof 6.6	de
(Certificate of Proof of Service to Purchaser)	
Mailed copy to Columbia Gas Transmission -	Contract DEpartment c/o Jackie Sydnor
(All of the above to be completed by the Operator/Appl	icant)
(To be completed by Jurisdictional Asency Frontist	
(To be completed by Jurisdictional Agency. Executed c purchaser, if known).	
The Department of Mines has received a r	equest. for certification of the above described.
under Section 108 of (NGPA); or for determination	tion is the result of enhanced recovery technology
under Section 108 of (NGPA); or for determination All interested parties are hereby positive.	of a seasonally affected well under Section 108 of (NG)
All interested parties are hereby notified to the office of the Oil and Gas Division in Charleston, be heard, there will be a public hearing, if requested,	West Virginia, or as soon thereafter as it may
This Application is assigned File No.	or if objection is filed.
Telefol and a finding of	· ·
Initial review of information submitted indi- enritled to certification as claimed under the Natural and any additional evidence will be made at the time as as the matter may be heard.	Gas Policy Act (NGPA). A review of this evidence ppointed for a public hearing or as soon thereafter
Unless objections are timely filed or a reque days, a hearing will not be held except on ex parte mor go to determination.	est for a hearing is made within fifteen (15) tion of the department and the matter will
WEST	VIRGINIA DEPARTMENT OF MINES
JAN 1 3 1984	Dyestor
Date received by	Ву
Jurisdictional Agency	Title 01/12/2024

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

Date
Operator's WI-015
API Well No. 47 State - 105 - 1024

WELL CLASSIFICATION FORM

NEW ONSHORE PRODUCTION WELL

MGPA Section 103

	DESIGNATED AGENT Robert Hart
	ADDRESS 600 Commerce Square
*	Charleston, W. Va. 25301
WELL OPERATOR Bow Valley Petroleum	LOCATION: Elevation 1036.58'
ADDRESS 600 Commerce Square	Watershed LEE CREEK
Charleston, W. Va. 25301	DistNEWARK County WIRT Quad Elizat
GAS PURCHASER Columbia Gas Trans.	Gas Purchase Quad
ADDRESS Box 1273	Contract No.
Charleston, W. Va. 25325	Meter Chart Code
	Date of Contract
* * * * * * * *	* * * * * * * *
Date surface drilling was begun: 12/16/	182
Indicate the bottom hole pressure of the well an	nd explain how this was calculated.
BHP=PF+Fe (\$5.54xT)-1	P= 625
F FC C35.5171)	F=623
	G=.70
BHP=730.7#	L=4015'
	T: 93°
AFFIDAVI	T
1977; the well satisfies applicable state or fed within a proration unit, in existence at the tim reservoir from which gas is or will be produced in commercial quantities or on which surface driwas capable of producing gas in commercial quant	ing been first sworn according to law state that immination is sought was begun on or after February 19. Heral well spacing requirements and the well is not be surface drilling began, which was applicable to the and which applied to any other well producing gas lling began on or after February 19, 1977, and which ities. I state, further, that I have concluded, to that the well for which this determination is sought ot aware of any information not described in the lusion.
4	\mathcal{N}
*	1 Jarun Combi
STATE OF WEST YIRGINIA,	
COUNTY OF Figurate the WIT: /	
I. Helen Min broth Mt. a Notary	y Public in and for the state and county aforesaid,
do certify that Mann Comba whose name	is signed to the writing above bearing date
the day of Anufor , 1984 , has ach	chowledged the same before me in my severe
Given under my hand and official sea	al this 1 th day of 10 TV
My term of office expires on the $\frac{1}{\sqrt{3}}$	al this the day of analysis, 1984. day of, 1984.
NOTARIAL SEAL]	Notary Public Lucaprass

1.0 API well number: (If not available, feeve blank, 14 digits.)	47-105-1024
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	Section of NGPA Catroory Code
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5567 JAN 1 3 1984
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Bow Valley Petroleum, Inc. Oil @ @ @ & & & Vision Name 600 Commerce - Square - DEPTSe of Min Stees Charleston. NV 25301 State Zup Code
5.0 Execution of this well: [Complete (a) or (b).] (a) For onshore wells (35 latters maximum for field name.)	NEWARK Field Name WIRT County State
(b) For OCS wetter	Area Name Block Number Date of Lease: Mo. Day Yr. UCS Lease Number
: (c) Name and identification number of this well: (35 letters and digits maximum.)	ROBERTS WI-015
(d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.)	
6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.)	Columbia Gas Transmission Corp 04030
(b) Date of the contract:	Mo. Day Y:
(c) Estimated annual production:	MMcf.
	(a) Base Price (b) Tax (c) All Other (d) Total of (a). Prices [Indicate (b) and tri
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	5.682
8.0 Maximum lawful rate: (As of filling date. Complete to 3 decimal places.)	5.682
9.0 Person responsible for this application:	Robert Hart General Mgr.V.P.
Date Received by Juris, Agency IAN 1 3 1984	Robert Hat
Date Received by FERC	- -84 (304) 344-8393
	Date Application is Completed From Number

ARTICIPANTS: DATE: MAR 9 1984	BUYER-SELLER CODE
WELL OPERATOR: Bow Valley Petroleum,	046189
FIRST PURCHASER: Columbia Gas Trans. Com	004030
OTHER:	
W. Va. Department of Mines, Oil & Gas Division WELL DETERMINATION FILE NUMBER 840113 -107 -/05 = /024 Use Above File Number on all Communications Relating to Determination of this Well N. Va. Department of Mines, Oil & Gas Division APPROVED MAR 21 1984	
CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING	
ITEM NO.	
1. FERC -121 Items not completed - Line No.	
2. IV-1 Agent	
3. IV-2 Well Permi	
4. IV-6 Well Plat	
5. IV-35 Well RecordDrilling Deepen	ing
6. IV-36 Gas-Oil Test: Gas Only Was Oil Produced?	Ratio
7. IV-39 Annual Production years	
8. IV-40 90 day Production	
9. IV-48 Application for certification. Complete?	
10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete?	
18-28. Other: Survey Logs Geological Charts	
Structure Map Well T	Tabulations
(5) Date commenced: Date completed Deep	ened
(5) Production Depth:	
(5) Production Formation:	
(5) Final Open Flow:	
(5) After Frac. R. P.	
(6) Other Gas Test:	
(7) Avg. Daily Gas from Annual Production:	
(8) Avg. Daily Gas from 90-day ending w/1-120 days	
(8) Line Pressure:	PSIC from Daily D
(5) Oil Production: From Completion Report	PSIG from Daily Report
10-17. Does lease inventory indicate enhanced recovery being date	
10-17. Is affidavit signed?Notarized?	\
Does official well record with the Department confirm the submitted information	\01/12/2024
Additional information Does computer program confirm?	1101/
Was Determination Objected to By Whom?	
by whom.	

DEPARTMENT OF MINES, OIL AND CAS DIVISION API Well No. 47 STATE APPLICATION FOR WELL CLASSIFICATION State Previous File No. (li Applicable) WELL OPERATOR Bow Valley Petroleum Inc. DESIGNATED AGENT Robert N. Hart ADDRESS 600 Commerce Sq. ADDRESS 600 Commerce Sq. Charleston, WV 25301 Charleston, W 25301 Gas Purchase Contract No. Being negotiated (Month, day and year) Heter Chart Code Columbia Gas Transmission Corporation Name of First Purchaser Box 1273 (Street or). Charleston (City) 25325 (Zip Code) 040189 FERC Seller Code 004030 FERC Buyer Code TYPE OF DETERMINATION BEING SOUGHT: Initial determination (See FERC Form 121.) Section of NGPA Determination that increased production is the result of enhanced Category Code recovery technology. Determination of a seasonally affected well. Vice President-General Manage 600 Commerce Sq. Street or P. O. Box Charleston, W 25301 City State (Zip Code) (304 344-8393 ATER Phone Number Code (Certificate of Proof of Service to Purchaser) Mailed copy to Columbia Gas Transmission - Contract DEpartment c/o Jackie Sydnor (All of the above to be completed by the Operator/Applicant) (To be completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and purchaser, if known). The Department of Mines has received a request. for certification of the above described well as meeting the requirements of Section under the Natural Gas Policy Act of 1978. (NGPA): or for determination that increased production is the result of enhanced recovery technology under Section 108 of (NGPA); or for determination of a seasonally affected well under Section 108 of (NGPA). All interested parties are hereby notified that on the _____day of ______. 19 _____. at the office of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be heard there will be a public hearing, if requested, or if objection is filed. This Application is assigned File No. Initial review of information submitted indicates the well is. is not enritled to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and any additional evidence will be made at the time appointed for a public hearing or as soon thereafter Unless objections are timely filed or a request for a hearing is made within fifteen (15) days, a hearing will not be held except on ex parte motion of the department and the matter will go to determination. WEST VIRGINIA DEFARTMENT OF MINES received by

01/12/2024

DIALL OF WEST VIRGINIA

177-101

Jurisdictional Agency

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL PRICE UNDER THE NATURAL GAS POLICY ACT

Operator:	Sow Valley Petrolewn	Agent: 1	JARVIN COMBS
Type Determin	nation being sought -	107 (Devonian	Shale)
API Well No.	47-105-1024	Well Name:	ROBERTS WI-DI
West Virginia References:	office of Oil and G		
Vol	Page Line		
I. NOTE:	A Gamma Ray Log has Line, (b) a line report (c) intervals with Games Base Line) and that	resenting 0.7 x amma Ray units	(Shale Base Line), less than 0.7 x (Shale
II. Gamma I	Ray elevation indices	i. · · · · · · · · · · · · · · · · · · ·	
	A. Shale Base Line	(API Units)	
	1. GR Value at 1 2. Remarks:	Base Line = 16	* API Units
	0-200 Sca	LE	•
	B. Gamma Ray Log Va	lue at 0.7 x Va	lue at Base Line
	 GR Value = / Calculation: 	60 * API Units 0.7 (GR Value 0.7 (<u>/60</u> *)	at Base Line) = <u>//2</u> API Units
	als with GR index less		
· From**	Interval To***	Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
2642'	5388	2746'	15'
. * .			•
	•		
Total	1 Dames 1 To 1	00///	
	1 Devonial Interval	2746'	
	nan 0.7 (Shale Base)		15'
Less Inan ((Shale Base Line)	= <u>,0054</u> x 100	= .546%
	•	•	

*Marked on log included with analysis.

**Top of Devonian Section Recorded on First Interval in this Column.

***Lesser of TD or Bottom of Devonian Section Recorded as last Interval in this Column.

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND CAS DIVISION

WI-015 105 1024

HIGH COST GAS WELL - DEVONIAN SHALE

NGPA Section 197

	DESIGNATED ASENT RODELL N. HALL
	ADDRESS 600 Commerce Sq.
D V 11 - D	Charleston, W 25301
WELL OPERATOR Bow Valley Petroleum Inc.	LOCATION Elevation 1036.58'
ADDRESS 600 Commerce Sq.	Watershed LEE Creek
Charleston, WV 25301	DISTNEWARK COUNTY WIRT MAR Elizaber
CAS PURCHASER Columbia Gas Transmission	Cas Purchase
ADDRESS Box 1273	Contract No.
Charleston, WV 25325	Meter Chart Code Date of Contract
Date surface drilling began:	
Indicate the bottom hole pressure of the well an	d explain how this was calculated
BHP=PF+PF e (GL 53.54XT)-1	P= 625#
730.7 Bottom Hole Press	ure G=.70
~	ht of pipe to middle of producing formation rankin BHP + Temp @ head 2
G-Specific gravity AFFIDA	
port described in subparagraph (3)/(3)/(1)	ated that the percentage of potentially disqualifying per
4	
STATE OF WEST VIRGINIA.	
COUNTY OF LANGUAGE. TO WIT	
4/11 400 / /	ary Public in and for the state and county aforesaid
to certify that Marry myshose name	ne is signed to the writing above, bearing date
111	acknowledged the same before me, in my county
	between the same before me, in my county
Civen under my hand and official sea	1 this // the grant of the
My term of office expires on the 25	1 this / day of January. 10/4 that of July . 1088
NOTARIAL SEAL;	Fler My Landyrass

IV-35 (Pev 8-81)



State of Mest Airginia
Department of Mines
Gil und Cas Bivision

Date	December 16, 1983	
	tor's	
Well	No. WI015	
Farm	Roberts (Hale)	
API N	₩o. 47 −105 − 1024	

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production X / Undergrou	/ Wast nd Storag	e Disposa e/ Deep	/ Sha	1104 <u>X</u> /)
LOCATION: Elevation: 1036.58 Watershed Le	e Creek			
District: Newark County Wirt	•	Quadrangle	e Elizabet	th
				· ·
CO:PANY Bow Valley Petroleum, Inc.				
ADDRESS 600 Commerce Square , Charleston, WV.	Casing	Used in	Left	Cement fill up
DESIGNATED AGENT Robert Long	Tubing	Drilling	in Well	Cu. ft.
ADDRESS Box 235 Culloden, WV.	Size			
SURFACE CANER W.VA. Pulp & Paper	20-16 Cond.			200
ADDRESS Parkersburg, W.	13-10"	20.50	20.50	12 sks.
MINERAL RIGHTS OWNER OF Glen W. Roberts	9 5/8		262_05	90 sks.
ADDRESS Elizabeth, W.	8 5/8	262.05	262.05	JO BIG.
OIL AND GAS INSPECTOR FOR THIS WORK Deo	7	2279.45	2279.45	190 sks.
Mace ADDRESS Sandridge, W.	5 1/2			:
PERMIT ISSUED November 30, 1982	4 1/2	5515.75	5515.75	281 sks.
DRILLING COMMENCED 12/16/82	3	1	3313.73	201 516.
DRILLING COMPLETED 12/30/82	2		5492.80	
IF APPLICABLE: PLUGGING OF DRY HOLE ON			-	
CONTINUOUS PROGRESSION FROM DRILLING OR REPORKING. VERBAL PERMISSION OBTAINED	Liners used			
ON				
GEOLOGICAL TARGET FORMATION Dev-Shale-Marcellus		Dep	th_5270'-	5567' feet
	Rotary X	/ Cabl	e Tools_	
Water strata depth: Fresh 95 feet;	Salt	feet		•
Coal seam depths: N/A	Is coal	being min	ed in the	area?No_
OPEN FLOW DATA				
Producing formation Devonian Shale	Pay	y zone dep	th 2633'-	5386' feet
Gas: Initial open flow No Show Mcf/d	Oil: In	itial open	flow	Bbl/d
Final open flow 158. Mcf/d	Fi	nal open f	low	Bbl/a
Time of open flow between init	ial and f	inal tests	48 ho	rirs
Static rock pressure 625 psig(surface	e measure	ment) afte	r 16 hou	urs shut in
(If applicable due to multiple completion)		01/1	2/2024
Second producing formation	Pa	y zone dep	th	feet
Gas: Initial open flowMcf/d	Oil: In	itial open	flow	Bbl/d
Final open flowMcf/d	Oil: Fi	nal open f	low	Bbl/d
Time of open flow between init	ial and f	inal tests	ho	nurs
Static rock pressurepsig(surface	measurem	ent) after	hou	ers shut in
		(Conti	rue on re	verse side)

SETAILS OF PERFORATED INTERVALS, FRACTURING OR STIDULATING, PHYSICAL CHANGE, ETC.

1st Stage N2 Frac Perforation Interval = 3890'-5386' (29 holes)

800 gal (HCL @ 15%)

 N_2 Pumped = 1,000,000 Sft.3

Partial Ballout

Max. Press. = 3100# Min. Press. = 2200#

No Injection Rate = 63,000 Sft.3/min.

2nd State N2 Frac Perforation Interval = 2633'-3594'

1000 gal (HCL @ 15%)

N2 Pumped = 1,034,000 5ft.3 Injection Rate = 59,000 5ft./min.

Partial Ballout

Max. Press.=3,000#

Min. Press.=2,400#

WELL LOG .

Time: 11css. 2,400	10. 1. 1. 1		
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and coals
Clay Sand & Shale Sand Red Rock Sand Red Rock Sand & Shale Red Rock Sand & Shale Red Rock & Shale Red Rock & Shale Red Rock Sand & Shale Red Rock Sand Red Rock Sand Red Rock Sand Red Rock Sand Sand & Shale Red Rock Sand & Shale Red Rock Sand & Shale Shale Lime Sand Sand Shale	0 5 125 149 161 191 208 299 311 348 353 387 404 529 547 567 589 628 634 650 940 960 1410 1570 1775 1820 1854 1888 2084 2100 3700	5 125 149 161 191 208 299 311 348 353 387 404 529 547 567 589 628 634 650 940 960 1410 1570 1775 1820 1854 1888 2084 2100 3700 5550 T.D.	Electric Logs K.B. 1046.58 Elev.1036.58 Gr.Lime = 2102'-2180' Big Injun = 2180'-2198' Weir = 2198'-2248' Sunbury = 3.44'-2546' Berea = 254''-264' Shale = 2643'-5567'

(Attach separate sheets as necessary)

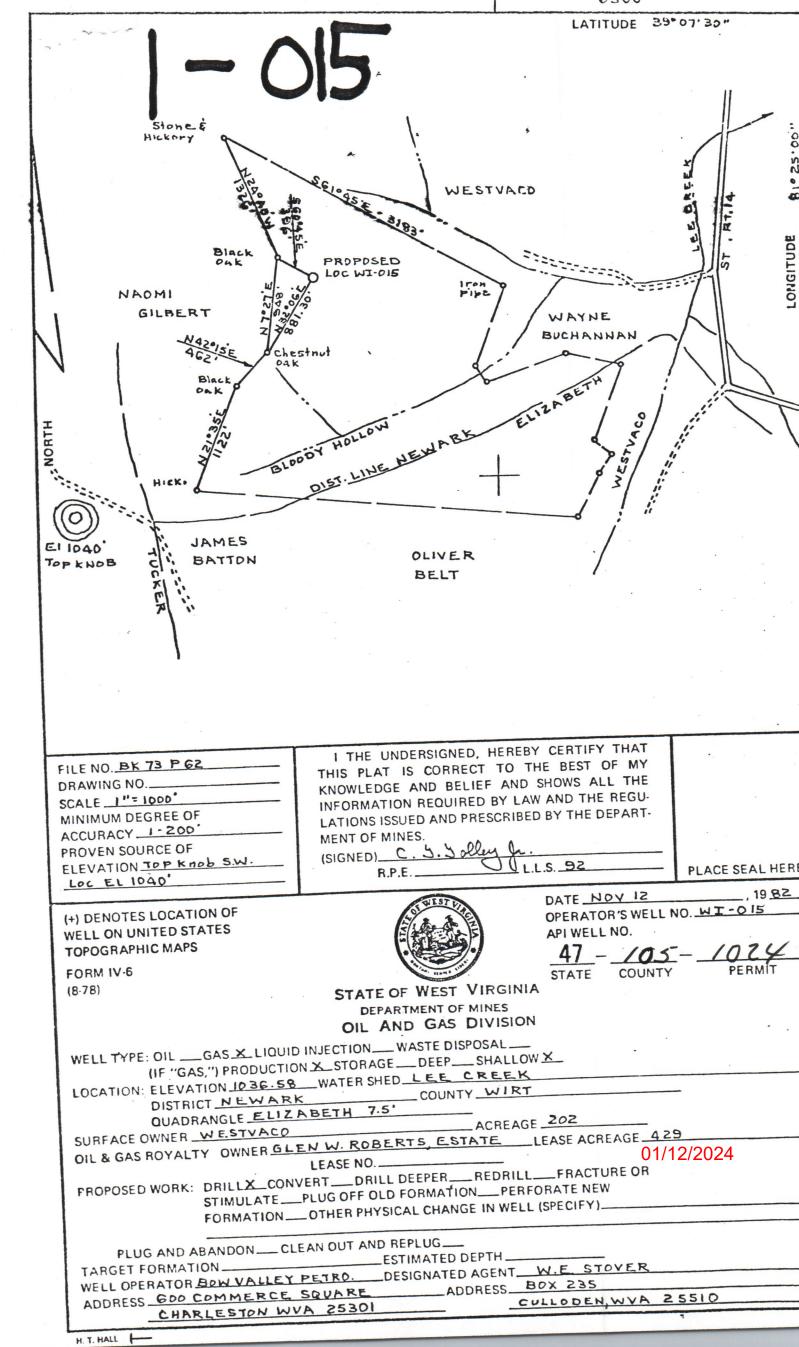
Bow Valley Petroleum, Inc.

Well Operator

Regulation 2.02(i) provides as follows: Note:

"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including and, encountered in the drilling of a well."

01/12/2024



STATE OF WEST VIRGINIA DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

RECEIVED

JAN 4 - 1983

OIL AND GAS DIVISION WY DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1024	Oil or Gas Well				
Company Baw Valley	CASING AND TUBING	USED IN	LEFT IN	PACKERS	
Address	Size	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AND REAL PROPERTY.		
Farm Orberts	16			Kind of Packer	
Well No. W/ 0/3	13			100	
District Newark County With	81/4			Size of	
Orilling commenced	6%		ere en en en e	Depth set	
rilling completedTotal depth	5 3/16	y	1.2.58	e-serve was so pertiled the	
ate shotDepth of shot	3		or year 1817 raw 1817 ra	Perf. top	
nitial open flow/10ths Water inInch	Liners Used			Perf. bottom	
pen flow after tubing/10ths Merc. inInch			Perf. bottom		
clumeCu. Ft.	CASING CEMEN	TED	SIZE	No. FTDa	
ock pressurelbshrs.	NAME OF SERV				
bbls., 1st 24 hrs.	COAL WAS ENC	OUNTERED A	T	FEETINCHE	
sh waterfeetfeet				FEETINCHE	
t waterfeetfeet	FEET_			FEETINCHE	
illers' Names 5. W. Jack 1		,			
narks:					
239' of 95%" casing	Daniell een	mentol 1	2-17-8	-2	
2261 of 7" easing	12 mill co	nodel 1	1. 10.	21 1/ Barroll	

12-27-82

Des mars 01/12/2024

DATE

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES

OIL AND GAS WELLS DIVISION

INSPECTOR'S PLUGGING REPORT

COMPANY) se 56	ADDRESSADDRESS							
		DISTRI	and the second s		COUNTY				
Filling Material Used		Kulingo Tamba			COUNTY				
iner Lo	eation	Amoun	t	Packer	Location		SEC. N. 27-074 NA		
PLUGS USED A	ND DEPTH PLACED		BRIDGES		CASIN	CASING AND TUBING			
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRU	CTION-LUCATION	RECOVERED	SIZE	LOST		
							and the same of the		
and the second second			A**3	and the second section of the second	and the Designation of the Control o	A CONTRACTOR OF THE STATE OF TH	A COMPANY OF A STATE O		
		1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1		i de	- 1 (p. ~ 7	vina — A A I WOO	ateligases s		
(31 215)					and the dispetition.	g	301		
			Sept. Free at a		e d agrico de	e processor and the	wash news		
		•			rad sdd)	1	in the State State		
		akrina gratv	SER NO SMA		95/00)		nesi.		
T	an TV.,0	enanyoo.	Mar R.R.W. J.F.	(* 1 	dd				
rillers' Names		VV International Control			71362	and the same of the same of the same of			
231200	29.1	NAT	TREET	22 d American Company			garage and a second second		
emarks:							west of		

I hereby certify I visited the above well on this date.

01/12/2024