



1) Date: December, 16, 1982
 2) Operator's Well No. WI-032
 3) API Well No. 47 105 1042
 State County Permit

DRILLING CONTRACTOR:

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X /)
- 5) LOCATION: Elevation: 872.84 Watershed: Parrish Fork
 District: Clay County: Wirt Quadrangle: Girta
- 6) WELL OPERATOR Bow Valley Petroleum Inc. 11) DESIGNATED AGENT W.E. Stover
 Address 600 Commerce Square Address Box 235
Charleston, WV. Culloden, WV.
- 7) OIL & GAS ROYALTY OWNER Glen W. Roberts Estate 12) COAL OPERATOR N/A
 Address Elizabeth, WV. Address
- 8) SURFACE OWNER Westvaco 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Parkersburg, WV. Name
 Acreage 100 Address
95.25 Name
- 9) FIELD SALE (IF MADE) TO: Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Deo Mace Name
 Address Rt.1 Box 5 Address
Sand Ridge, WV. 25274
- 15) PROPOSED WORK: Drill X / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 16) GEOLOGICAL TARGET FORMATION, Marcellus Shale
- 17) Estimated depth of completed well, 4900 feet
- 18) Approximate water strata depths: Fresh, 65 100 feet; salt, feet.
- 19) Approximate coal seam depths: N/A Is coal being mined in the area? Yes / No XX

20) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	13			X		30	30	to surface	Kinds
Fresh water	9 5/8			X		250	250	to surface	
Coal									Sizes
Intermediate	7		23	X		1500	1500	125 sks	
Production	4 1/2		10.5	X		4850	4850	250 sks	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

21) EXTRACTION RIGHTS

- Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)

22) ROYALTY PROVISIONS

Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No

If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.

23) Required Copies (See reverse side.)

24) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary:
 My Commission Expires

Signed: Charlton B. Roberts
 Its: Geologist

OFFICE USE ONLY

Permit number 47-105-1042 DRILLING PERMIT Date December 21 1982
01/12/2024

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. **Notification must be given to the District Oil and Gas Inspector. (Refer 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 notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

Permit expires August 21, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>OK</u>	Plat: <u> </u>	Casing: <u> </u>	Fee: <u>437</u>
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Fred B. Smith
 Administrator, Office of Oil and Gas

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 than 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).
- 23) 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

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

01/12/2024

Date: _____, 19____

By _____

Its _____

A-2

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.) Newhouse Tract is located in Clay District of Wirt County, West Virginia, containing 100 acres more or less and bounded on the
North by McGee
East by Sam Roach
South by Dave Watson
West by Ward, Stall, Brown, Roberts

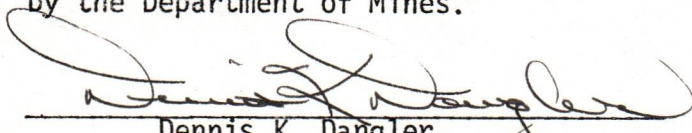
- 2.) Lessor - Glen W. Roberts (deceased)
Dorothy Parks Roberts (his wife)

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

- 3.) Oil and Gas Lease is recorded in Wirt County Records 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

RECEIVED
DEC 17 1982
OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024



DATE DECEMBER 14, 1982

WELL NO. # W1032

State of West Virginia
Department of Mines
Oil and Gas Division

API NO. 47 - 105 - 1042

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME BOW VALLEY PETROLEUM, INC.
Address 600 Commerce St.
CHARLESTON, WV
Telephone 304-344-8393

DESIGNATED AGENT W. E. STOVER
Address Box 235
CULLODEN, WV
Telephone 304-562-3376

LANDOWNER WESTVACO CORP.

SOIL CONS. DISTRICT LITTLE KANAWHA

Revegetation to be carried out by Bow Valley Petroleum, Inc. (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan:

12-14-82
(Date)
Garrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure CULVERT (18") (A)
Spacing _____
Page Ref. Manual 2-8

Structure _____ (1)
Material _____
Page Ref. Manual _____

Structure DRAINAGE DITCH (B)
Spacing _____
Page Ref. Manual 2-15

Structure _____ (2)
Material _____
Page Ref. Manual _____

Structure _____ (C)
Spacing _____
Page Ref. Manual _____

Structure _____ (3)
Material _____
Page Ref. Manual _____

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

REVEGETATION

Treatment Area I+II

Treatment Area II

Lime 2 Tons/acre
or correct to pH 6.5
Fertilizer 600 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 2 Tons/acre
Seed* KENTUCKY 31 FESCUE 45 lbs/acre
RYE 5 lbs/acre
LADINO CLOVER 5 lbs/acre

Lime _____ Tons/acre
or correct to pH _____
Fertilizer _____ lbs/acre
(10-20-20 or equivalent)
Mulch _____ Tons/acre
Seed* _____ lbs/acre
_____ lbs/acre

01/12/2024

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY WILLIAM F. HENRICHS, III

ADDRESS 600 COMMERCE ST.

CHARLESTON, WV

PHONE NO. 304-344-8393

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

IV-9 REVERSE
(REV 8-81)

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE GIRTA

LEGEND

Well Site ⊕

Access Road ———

LOCATION IS ON A SLIGHTLY SLOPING
RIDGE POINT. NO LARGE TIMBER WILL
NEED TO BE CUT.

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.

LEGEND

Property boundary ———▲———▲———▲———▲———▲———

Road = = = = =

Existing fence ———X———X———

Planned fence ———/———/———

Stream ~~~~~

Open ditch ———>———>———>———>———>———

Diversion //////////////

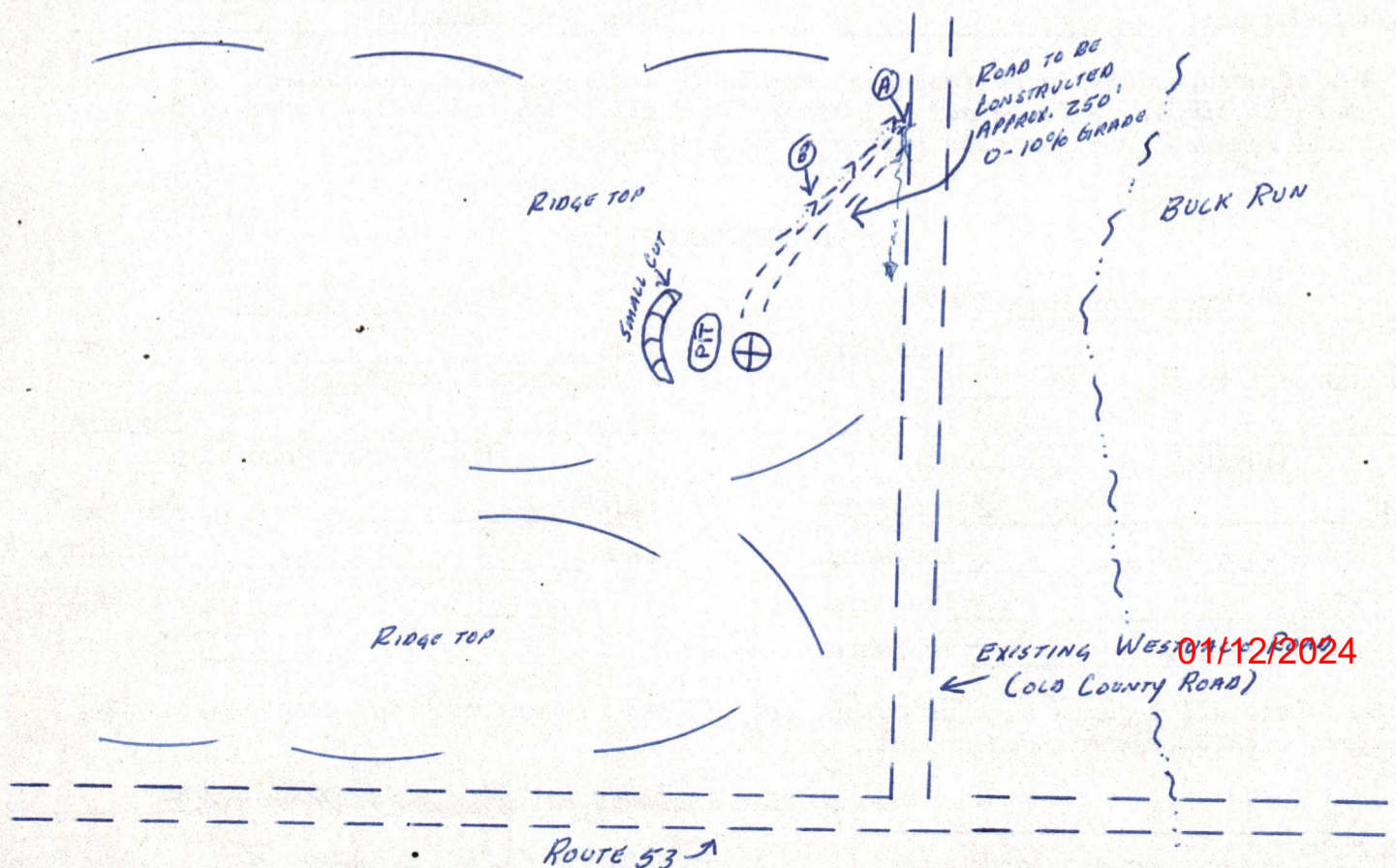
Spring ○→

Wet spot ♀

Building ■

Drain pipe —○→○→○→○→

Waterway <=====>=====>=====>=====>



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DEC 17 1982

OIL & GAS DIVISION
DEPT. OF MINES

01/12/2024

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JAN 16 1984



OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

Date January 13, 1984
Operator's Well No. WI032
Farm Newhouse
API No. 47 - 105 - 1042

**WELL OPERATOR'S REPORT
OF**

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow X /)

LOCATION: Elevation: -872.84 Watershed Parrish Fork of Standing Stone
District: Clay County Wirt Quadrangle Girta

COMPANY Bow Valley Petroleum, Inc.

ADDRESS 600 Commerce Square Charleston, WV.

DESIGNATED AGENT Robert Long

ADDRESS P.O. Box 235, Culloden, WV.

SURFACE OWNER Westvaco

ADDRESS Parkersburg, West Virginia

MINERAL RIGHTS OWNER Glen Roberts Estate

ADDRESS Elizabeth, West Virginia

OIL AND GAS INSPECTOR FOR THIS WORK Deo

Mace ADDRESS Sandridge, WV.

PERMIT ISSUED 12/28/82

DRILLING COMMENCED 12/31/82

DRILLING COMPLETED 1/09/83

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON _____

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	30	30	15sks
9 5/8	252	252	to surface
8 5/8			
7	1641	1641	125sks
5 1/2			
4 1/2	5349	5349	330sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5400 feet

Depth of completed well 5490' feet Rotary X / Cable Tools _____

Water strata depth: Fresh 47 feet; Salt X feet

Coal seam depths: 960-965' Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 5277'-2069' feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Comingled Final open flow 197 Mcf/d Final open flow 0 Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 390 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

01/12/2024

Second producing formation _____ Pay zone depth _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

(Continue on reverse side)

WIRT 1042

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

1st stage perforate 5277' to 4714' with 17 holes. Drop 450 gallons 15% HCL. Frac with 750,000 SCF N₂. Break 2900 ISIP. 2156'

2nd stage perforate 20 holes from 4440'-4062' drop 350 gals 15% HCL. Frac with foam 750,000 SCF N₂, 100 bbl N₂O 30,000# sand. Break 2840' ISIP 2000',

3rd stage 20 holes 3603'-2068. Drop 1200 gals 15% HCL. Frac with 1,200,000 SCF N₂ Break 2750' ISIP 1950'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Fill	Brown	Soft	0	3	Fresh H ₂ O @ 47'
Sand	White	Hard	3	50	
Shale&Red Rock	Red	Soft	50	277	
Red Rock	Red	Soft	277	755	Gas @ 2780'
Shale	Red	Soft	755	960	
Coal	Black	Soft	960	965	
Shale	Gray	Soft	965	1360	
Lime	Gray	Hard	1360	1440	
Sand	Buff	Hard	1440	1575	
Shale	Gray	Soft	1575	3870	
Shale	Gray	Soft	3870	3924	
Shale	Gray	Soft	3924	5490	

Electric Log Data

Lime 1352-1474'
Injun 1474-1576'
Sunbury 1970-1987'
Gordon 2370-2410'
Huron Shale Top 4379'
Marcellus 5400'

(Attach separate sheets as necessary)

Bow Valley Petroleum, Inc.

Well Operator

By: Bart Roberts

01/12/2024

Date: January 13, 1984

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 those encountered in the drilling of a well."

B' 3

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

RECEIVED

JAN 4 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1042

Oil or Gas Well _____
(KIND)

Company Bow Valley

Address _____

Farm Roberts

Well No. W1 032

District Clay County Wirt

Drilling commenced _____

Drilling completed _____ Total depth _____

Date shot _____ Depth of shot _____

Initial open flow _____ /10ths Water in _____ Inch

Open flow after tubing _____ /10ths Merc. in _____ Inch

Volume _____ Cu. Ft.

Rock pressure _____ lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

Fresh water _____ feet _____ feet

Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 3/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names Ray Resources 4

Remarks: Ran 9 5/8" 12, 23, 82 Dowell cemented.

12-27-82
DATE

Dr. Mace 01/12/2024
DISTRICT WELL INSPECTOR

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

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JAN 1 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1042

Oil or Gas Well _____
(KIND)

Company Baw Valley
 Address _____
 Farm Roberts
 Well No. W1 032
 District Clay County Wirt
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
8 1/4			
6 5/8			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names Ray Res. # 4

Remarks: 252' of 9 3/8" casing 12-23-82 Dowell cemented
1641' of 7" " 1-4-83 Dowell
rusting bad, threatened to shut down.

1-6-83
DATE

Wes More
DISTRICT 01/12/2024

9-9-83
DATE

Wes More
DISTRICT _____

B-12



State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
January 23, 1984

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OCT 16 1984
OIL & GAS DIVISION
DEPT. OF MINES

COMPANY Bow Valley Petroleum, Inc.
600 Commerce Square
Charleston, West Virginia 25301

PERMIT NO 105-1042
FARM & WELL NO Newhouse #WI032
DIST. & COUNTY Clay/Wirt

RULE	DESCRIPTION	IN COMPLIANCE	
		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 Strenght		
15.05	Cement Type		
23.02	Maintained Access Roads		
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
16.01	Well Records on Site		
16.02	Well Records Filed		
7.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Homer H. Dougherty
DATE 10/9/84

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. ...
Administrator-Oil & Gas Division

January 4, 1985

DATE

RECEIVED
MAR - 5 1984

040189
OIL & GAS DIVISION
DEPT. OF MINES
Seller Code

1.0 API well number: (If not available, leave blank. 14 digits.)	<u>47 105 1042</u>					
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	<u>107</u> Section of NGPA					
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	<u>5287</u> feet					
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. Name <u>600 Commerce Square</u> Street <u>Charleston,</u> WV <u>25301</u> City State Zip Code					
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	<u>BURNING SPRINGS</u> Field Name <u>WIRT</u> WV County State					
(b) For OCS wells:	Area Name _____ Block Number _____ Date of Lease: _____ Mo. Day Yr. OCS Lease Number _____					
(c) Name and identification number of this well: (35 letters and digits maximum.)	<u>Newhouse WIT 032</u>					
(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.)	<u>Columbia Gas Transmission Corp</u> <u>04030</u> Name Buyer Code					
(b) Date of the contract:	_____ Mo. Day Yr.					
(c) Estimated annual production:	_____ MMcf.					
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)		
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	5.718	---	---	---		
9.0 Person responsible for this application:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; text-align: center;"> Agency Use Only Date Received by Juris. Agency MAR 5 1984 Date Received by FERC </td> <td style="width: 70%; vertical-align: top;"> Robert Hart Name Signature Title General Mgr. - V.P. (304) 344-8393 Phone Number Date Application is Completed </td> </tr> </table>				Agency Use Only Date Received by Juris. Agency MAR 5 1984 Date Received by FERC	Robert Hart Name Signature Title General Mgr. - V.P. (304) 344-8393 Phone Number Date Application is Completed
Agency Use Only Date Received by Juris. Agency MAR 5 1984 Date Received by FERC	Robert Hart Name Signature Title General Mgr. - V.P. (304) 344-8393 Phone Number Date Application is Completed					

PARTICIPANTS:

DATE: APR 25 1984

BUYER-SELLER CODE

WELL OPERATOR: Bow Valley Pet, Inc.

040189

FIRST PURCHASER: Columbia Gas Trans

004030

OTHER: _____

Dev

W. Va. Department of Mines, Oil & Gas Division
 WELL DETERMINATION FILE NUMBER
 $840305 - 107 - 105 = 1042$
 Use Above File Number on all Communications
 Relating to Determination of this Well

orc

APPROVED

APR 27 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 Permit _____
- 4. IV-6 Well Plat _____
- 5. IV-35 Well Record _____ Drilling _____ Deepening _____
- 6. IV-36 Gas-Oil Test: Gas Only _____ Was Oil Produced? _____ Ratio _____
- 7. IV-39 Annual Production _____ years
- 8. IV-40 90 day Production _____ Days off line: _____
- 9. IV-48 Application for certification. Complete? _____
- 10-17. IV Form 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 Complete? _____ Affidavit Signed _____
- 18-28. Other: Survey _____ Logs _____ Geological Charts _____
 Structure Map _____ 1: 4000 Map _____ Well Tabulations _____
 Gas Analyses _____
- (5) Date commenced: _____ Date completed _____ Deepened _____
- (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 Rep _____
- (5) Oil Production: _____ From Completion Report _____
- 10-17. Does lease inventory indicate enhanced recovery being done _____
- 10-17. Is affidavit signed? _____ Notarized? _____
- Does official well record with the Department confirm the submitted information? _____
- Additional information _____ Does computer program confirm? _____
- Was Determination Objected to _____ By Whom? _____

01/12/2024

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

Date Feb 29, 1984

Operator's Well No. WI 032

API Well No. 47 - 105 - 1042
State County Permit

Previous File No. _____
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Bow Valley Petroleum Inc.
ADDRESS 600 Commerce Sq.
Charleston, WV 25301

DESIGNATED AGENT Robert N. Hart
ADDRESS 600 Commerce Sq.
Charleston, WV 25301

Gas Purchase Contract No. _____ and Date Being Negotiated
Meter Chart Code _____ (Month, day and year)

Name of First Purchaser Columbia Gas Transmission Corporation
Box 1273
Charleston, WV (Street or P. O. Box) 25325
(City) (State) (Zip Code)

FERC Seller Code 040189 FERC Buyer Code 004030

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) 107 Section of NGPA Category Code _____
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Robert Hart Vice Pres./Gen. Manager
Name (Print) Title

Robert Hart
Signature
600 Commerce Square
Street or P. O. Box
Charleston, WV 25301
City State (Zip Code)
304 344-8393
Area 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 1976 (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 entitled 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 as the matter may be heard.

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 DEPARTMENT OF MINES

MAR 5 1984

Date received by Jurisdictional Agency

By [Signature] Director
Title _____
01/12/2024

DEPARTMENT OF MINES OIL AND GAS DIVISION

Operator's Well No. 032

API Well No. 47 - 105 - 1042
State County Permit

WELL CLASSIFICATION FORM
HIGH COST GAS WELL - DEVONIAN SHALE
NGPA Section 107

DESIGNATED AGENT Robert Hart
ADDRESS 600 Commerce Square
Charleston, WV 25301
LOCATION Elevation 872.84
Watershed PARRISH FORK
Dist. CLAY County WIRT Quad. GIRTA 7
Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

WELL OPERATOR Bow Valley Petroleum Inc.
ADDRESS 600 Commerce Square
Charleston, WV 25301
GAS PURCHASER Columbia Gas Trans. Corp.
ADDRESS Box 1273
Charleston, WV 25325

* * * * *

Date surface drilling began: 12/31/82

Indicate the bottom hole pressure of the well and explain how this was calculated.

$$BHP_1 = PWH + PWH \left[2.71828 \left(\frac{.6 \cdot 3750}{GL} \left[\frac{TWH + TBH}{2} + 460 \right] \right) - 1 \right]$$

PWH - WELL HEAD PRESSURE
L - DEPTH TO MIDDLE OF PRODUCING FORM.
G - SPECIFIC GRAVITY OF THE GAS
TWH - TEMPERATURE AT WELL HEAD OF
TBH - TEMPERATURE BOTTOM HOLE OF

BHP₁ = 421.6

AFFIDAVIT

I, Charlton B. Roberts, having been first sworn according to law, state that I have calculated the percentage of footage of the producing interval which is not Devonian Shale as indicated by a Gamma Ray index of less than 0.7 if a Gamma Ray log described in subparagraph (3)(1) or (3)(ii)(A) has been filed, or as indicated by the report described in subparagraph (3)(ii)(B); I have demonstrated that the percentage of potentially disqualifying non-shale footage is equal to or less than five (5) percent of the gross Devonian age interval; and I have no knowledge of any information not described in the application which is inconsistent with a conclusion that the well qualifies as a high-cost natural gas well.

Charlton B. Roberts

STATE OF WEST VIRGINIA

COUNTY OF Kanawha, TO-WIT:

I, Helen Mae Snodgrass, a Notary Public in and for the state and county aforesaid, do certify that Charlton B. Roberts, whose name is signed to the writing above, bearing date the 28th day of February, 19 84 01/12/2024 acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 28th day of February, 19 84.
My term of office expires on the 25th day of July, 19 88.

(NOTARIAL SEAL)

Helen Mae Snodgrass
Notary Public

DEVONIAN SHALE GAMMA RAY LOG ANALYSIS
APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
PRICE UNDER THE NATURAL GAS POLICY ACT

Operator: Bow Valley Petroleum Agent: BART ROBERTS

Type Determination being sought - 107 (Devonian Shale)

API Well No.: 47 105 1042 Well Name: Newhouse

West Virginia Office of Oil and Gas County: WIRT
References: SJA File No.

Vol. Page Line

I. NOTE: A Gamma Ray Log has been marked with the (a) Shale Base Line, (b) a line representing 0.7 x (Shale Base Line), (c) intervals with Gamma Ray units less than 0.7 x (Shale Base Line) and that log is included with this analysis.

II. Gamma Ray elevation indices:

A. Shale Base Line (API Units)

1. GR Value at Base Line = 140 * API Units
2. Remarks:

Gamma Ray "0-200 SCALE"

B. Gamma Ray Log Value at 0.7 x Value at Base Line

1. GR Value = 140* API Units
2. Calculation: 0.7 (GR Value at Base Line)
 0.7 (140*) = 98 API Units

III. Intervals with GR index less than 0.7 x (Value at Base Line):

Interval		Thickness of Interval Feet	Feet of less than* 0.7 (Shale Base Line) Feet
From**	To***		
1986	5499	3513	7

Total Devonian Interval 3513

Total Less Than 0.7 (Shale Base) 7

% Less Than 0.7 (Shale Base Line) = $0.0199 \times 100 = \underline{1.99\%}$

*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.

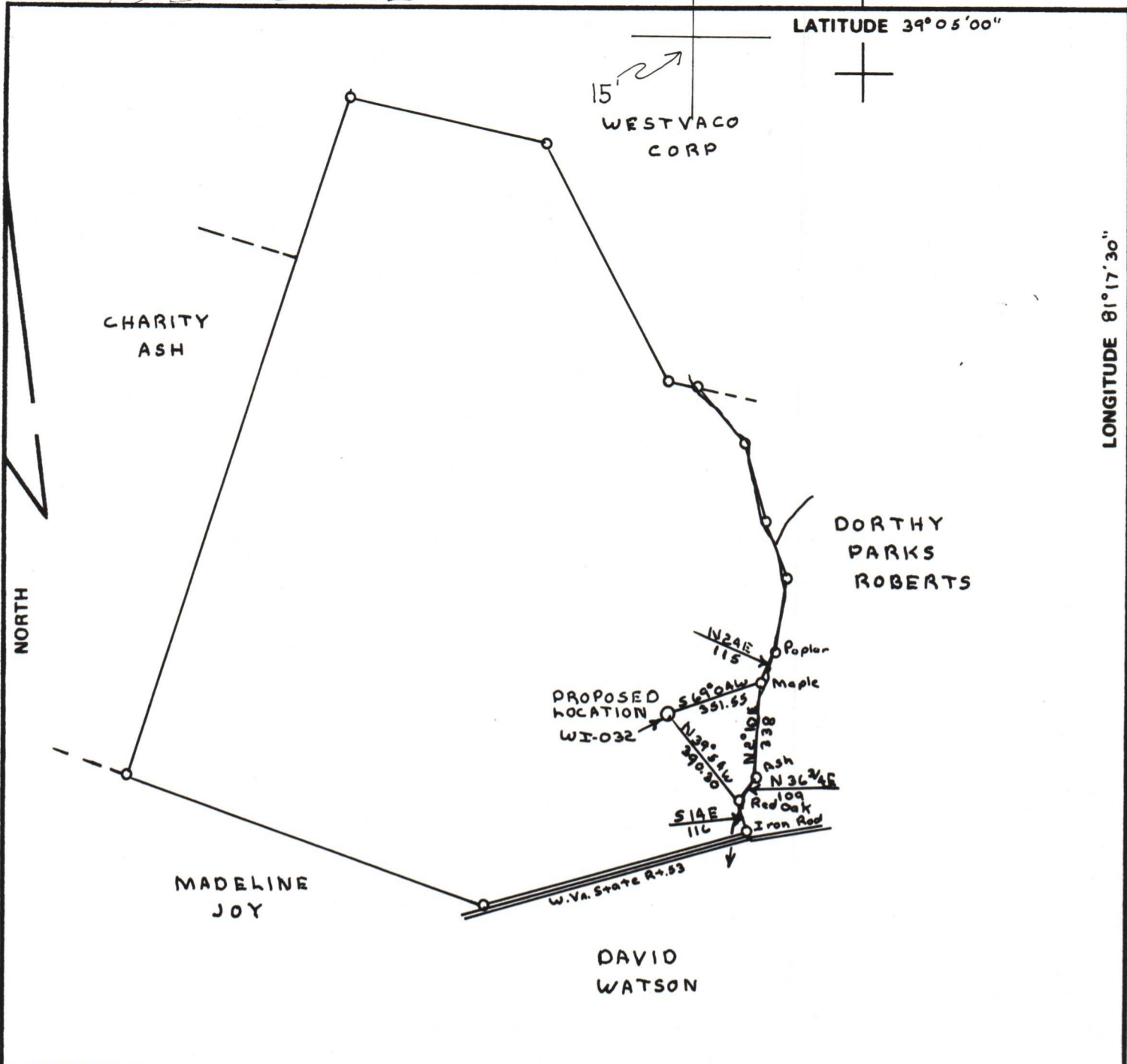
01/12/2024

12/21/82

3,750

LATITUDE 39° 05' 00"

LONGITUDE 81° 17' 30"



FILE NO. OK 74 P 38
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1-200
 PROVEN SOURCE OF ELEVATION USGS BM EL. 777.0'
1450 ± Southwest of loc.

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) C. S. Valley Jr.
 R.P.E. _____ O.E.S. 92

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE Dec. 13, 1982
 OPERATOR'S WELL NO. WI-032
 API WELL NO. _____
47 - 105 - 1042 ✓
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 872.84 WATERSHED PARISH FORK
 DISTRICT CLAY COUNTY WIRT
 QUADRANGLE GIRTA
 SURFACE OWNER WESTVACO CORP. ACREAGE 95.25
 OIL & GAS ROYALTY OWNER GLEN W. ROBERTS LEASE ACREAGE 100
 LEASE NO. _____
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 4900'
 WELL OPERATOR BOW VALLEY PETRO. INC. DESIGNATED AGENT W. E. STOVER
 ADDRESS 600 COMMERCE SQUARE ADDRESS BOX 235
CHARLESTON W.Va. 25301 CUBHODEN W.Va. 25510

01/12/2024

WIRT - 1042

B-5

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

RECEIVED

SEP 14 1983

OIL & GAS DIVISION
DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1042

Oil or Gas Well _____
(KIND)

Company <u>Bow Valley</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Roberts</u>	16			Kind of Packer _____
Well No. <u>WI 032</u>	13			
District <u>Clay</u> County <u>Putnam</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 5/8			Depth set _____
Date shot _____ Depth of shot _____	5 3/16			
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. top _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. bottom _____
Volume _____ Cu. Ft.	Liners Used			Perf. top _____
Rock pressure _____ lbs. _____ hrs.				Perf. bottom _____
Oil _____ bbls., 1st 24 hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Fresh water _____ feet _____ feet	NAME OF SERVICE COMPANY _____			
Salt water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks:

grass then - no ID

9-9-83
DATE

Wesley 01/21/2024
DISTRICT WELL INSPECTOR

