

FORM IV-2 (Obverse) (12-81).



Date: SEPTEMBER 16, 19 82

Operator's Well No. #1

API Well No. 47 085 5899 State County Permit

STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil xx / Gas / (If "Gas", Production / Underground storage / Deep / Shallow /)

LOCATION: Elevation: 1057' Watershed: Cabin Run District: Grant County: Ritchie Quadrangle: Cairo 7 1/2'

WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT John R. Mitchell Address PO Box 26, 103 East Main Street Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER Ralph & Ruth Valentine Address 600 Hugh Street Parkersburg, WV 26101 Acreage 71.5

COAL OPERATOR Address

SURFACE OWNER Brian G. & Diane Whalin Address 1705 Avery Street Parkersburg, WV 26101 Acreage 66.5

COAL OWNER(S) WITH DECLARATION ON RECORD: Name Address

FIELD SALE (IF MADE) TO: Address RECEIVED SEP 20 1982

OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel N. Hersman Address PO Box 66 Smithville, WV 26178

COAL LESSEE WITH DECLARATION ON RECORD: Name Address

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease other contract xx / dated June 7, 19 82, to the undersigned well operator from Warren R. Haught

(IF said deed, lease, or other contract has been recorded:) Recorded on July 21, 19 82, in the office of the Clerk of the County Commission of Ritchie County, West Va., in Lease Book 14 at page 431. A permit is requested as follows:

PROPOSED WORK: Drill x / Drill deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) -planned as shown on the work order on the reverse side hereof.

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.

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.

04/12/2024

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION 1615 WASHINGTON STREET EAST CHARLESTON, WV 25311

TELEPHONE: (304) 348-3092

BLANKET BOND

PETROLEUM DEVELOPMENT CORPORATION

By John R. Mitchell Well Operator Area Manager of Operations

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____
Address _____

GEOLOGICAL TARGET FORMATION, Marcellus Shale

Estimated depth of completed well, 5400 feet Rotary xx / Cable tools _____ /

Approximate water strata depths: Fresh, 357 feet; salt, 482 feet.

Approximate coal seam depths: 360' Is coal being mined in the area? Yes _____ / No x /

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	16"	---	---		x	30'				Kinds
Fresh Water	11 3/4	H-40	44#	x		380'	380'	cement to surface		
Coal										Sizes
Intermediate	8 5/8	H-40	23#	x		1950'	1950'	cement to surface		
Production	4 1/2	J-55	10.5#	x		5400'	5400'			Depths set
Tubing										
Liners										Perforations:
										Top Bottom

NOTE: 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.

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.

THIS PERMIT MUST BE POSTED AT THE WELL SITE.
ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY
APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-21-83.
BY [Signature]

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

04/12/2024

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.

Date: _____, 19 _____ By _____
Its _____

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE CAIRO 7.5

LEGEND

Well Site ⊕

Access Road ———

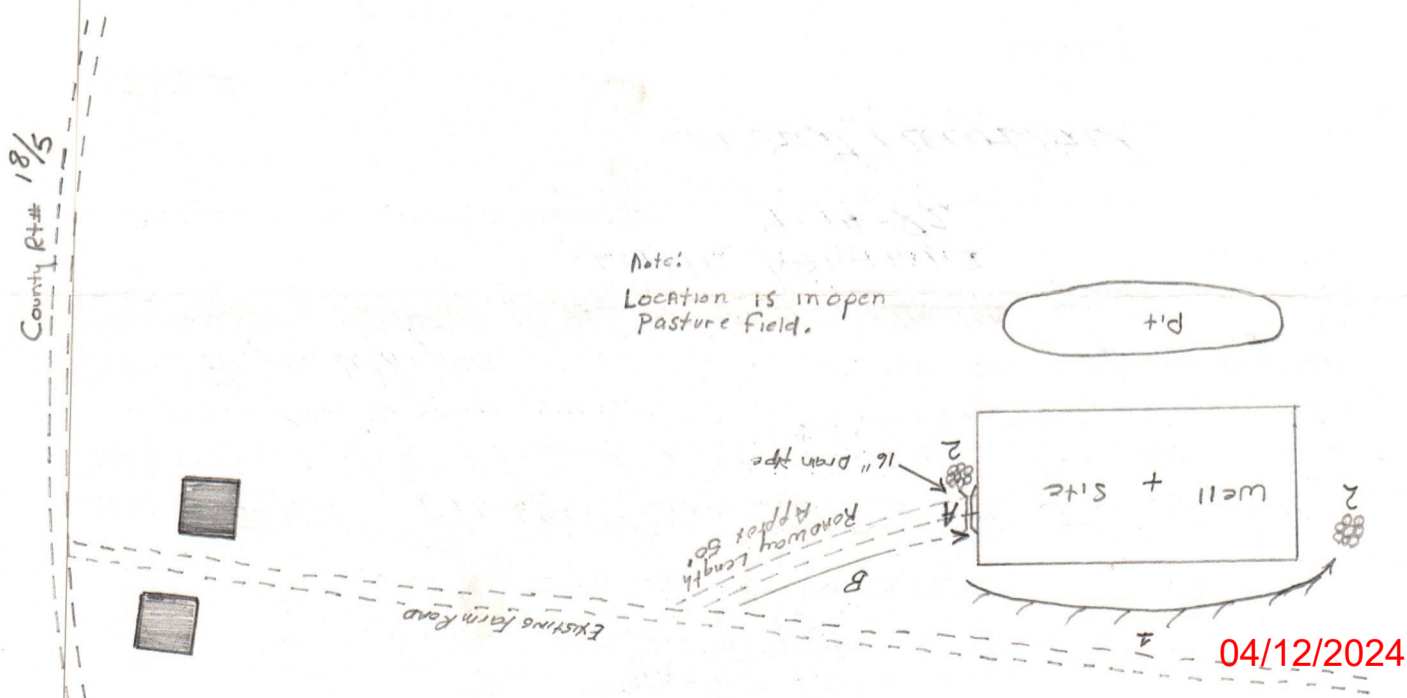


WELL SITE PLAN

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 ———▲————	Diversion ———/————/————
Road = = = = =	Spring ○ →
Existing fence ———x————x————	Wet spot ⊕
Planned fence ———/————/————	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe ———○————○————→
Open ditch ———>————>————>————>	Waterway <—=>=>=>=>



Existing farm road will be maintained.

04/12/2024



DATE Sept 9, 1982
WELL NO. 1
API NO. 47 - 085 - 5899

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp. DESIGNATED AGENT John Mitchell
Address P.O. 26, Bridgeport, W. Va. 26330
Telephone 842-6256
LANDOWNER Bryan Whaylen
Revegetation to be carried out by Seeding Contractor
SOIL CONS. DISTRICT Little Kanawha
(Agent)
This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan:
9-14-82 (Date)
Jannett Newton (SCD Agent)

ACCESS ROAD

LOCATION	Structure	Spacing	Page Ref. Manual	Material	Page Ref. Manual
(A)	<u>Drain Pipe</u>	<u>(Min. 12" I.D.)</u>	<u>2.7</u>	<u>Earth</u>	<u>2.12</u>
(B)	<u>DRAINAGE Ditch</u>	<u>N/A</u>	<u>2.12</u>	<u>Rip-Rap</u>	<u>2.9</u>
(2)	<u>Structure</u>	<u>Spacing</u>	<u>Page Ref. Manual</u>	<u>Material</u>	<u>Page Ref. Manual</u>
(3)	<u>Structure</u>	<u>Spacing</u>	<u>Page Ref. Manual</u>	<u>Material</u>	<u>Page Ref. Manual</u>

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SEP 20 1982
OIL AND GAS DIVISION
NATIONAL

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	Treatment Area II
Lime <u>3</u> Tons/acre or correct to pH <u>6.5</u>	Lime <u>3</u> Tons/acre or correct to pH <u>6.5</u>
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay - 2</u> Tons/acre	Mulch <u>Hay - 2</u> Tons/acre
Seed* <u>Orchard Grass - 12</u> lbs/acre	Seed* <u>Orchard Grass - 12</u> lbs/acre
<u>Ladina Clover - 3</u> lbs/acre	<u>Ladina Clover - 3</u> lbs/acre

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

NOTE: Please request landowner cooperation to protect new seeding for one growing season. Attach separate sheets as necessary for comments.

PLAN PREPARED BY John Mitchell
ADDRESS P.O. 26
Bridgeport, W. Va. 26330
PHONE NO. 842-6256



**Petroleum
Development
Corporation**

103 East Main Street
P. O. Box 26
Bridgeport, West Virginia 26330

Phone: 304-842-3597

Ret - 5899 a-10

State of West Virginia
Department of Miens
Oil and Gas Division
1615 Washington Street East
Charleston, West Virginia 25311

Attention: Mr. Ted Streit

RE: House Bill #1254

Dear Mr. Streit:

With regards to the payment to be made to the royalty owner on this property, please be advised that the lease does not provide for a flat well royalty or any similar provision for compensation. The royalty on this lease is based on volume of oil or gas to be extracted, produced or marketed.

Very truly yours,

PETROLEUM DEVELOPMENT CORPORATION

John R. Mitchell
John R. Mitchell
Area Manager of Operations

JRM/mjg

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SEP 20 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

		<u>N₂</u> (MCF)	<u>CO₂</u> (1000 #)	<u>ACID</u> (BBLs)
<u>1st Stage</u>	27 perfs (4207-4843)	390	31	7
<u>2nd Stage</u>	38 perfs (3519-4116) 8 bbls. paraffin inhibitor 60 lbs. paraffin inhibitor pellets	405	30	4
<u>3rd Stage</u>	29 perfs (2946-3416) 8 bbls. paraffin inhibitor	420	31	4
<u>4th Stage</u>	39 perfs (2500-2705) 8 bbls. paraffin inhibitor	396	40	5

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
K.B.-G.L.			0	10	
Sand, shale, red rock			10	1832	
Big Lime			1832	1895	
Big Injun			1895	1955	
Squaw			1955	1980	
Sand, shale			1980	2362	
Sunbury Shale			2362	2369	
Berea			2369	2383	
Sand, shale			2383	2474	
Gautz			2474	2514	
Sand, shale			2514	2810	
Gordon			2810	2844	
Sand, shale			2844	3424	
Huron			3424	4449	
Java			4449	4800	
Angola			4800	5076 T.D.	

(Attach separate sheets as necessary)

Petroleum Development Corporation
Well Operator
By: M. C. Edwards 04/12/2024
Date: April 29, 1983

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 all, encountered in the drilling of a well."



IV-35
(Rev 8-81)

Date January 21, 1983
Operator's
Well No. #1
Farm R. Valentine
API No. 47 - 085 - 5899

State of West Virginia
Department of Mines
Oil and Gas Division

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

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

LOCATION: Elevation: 1057' Watershed Cabin Run
District: Grant County Ritchie Quadrangle Cairo 7 1/2'

COMPANY Petroleum Development Corporation
ADDRESS P.O. Box 26, Bridgeport, WV 26330
DESIGNATED AGENT Michael L. Edwards
ADDRESS P.O. Box 26, Bridgeport, WV 26330
SURFACE OWNER Brian & Diane Whalin
ADDRESS 1705 Avery St., Parkersburg, WV 26101
MINERAL RIGHTS OWNER Ralph & Ruth Valentine
ADDRESS 600 Hugh St., Parkersburg, WV 26101
OIL AND GAS INSPECTOR FOR THIS WORK Samuel
Hersman ADDRESS P.O. Box 66, Smithville, WV
PERMIT ISSUED 9/2/82 26178
DRILLING COMMENCED 1/10/83
DRILLING COMPLETED 1/15/83
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.			
4-3/4" 13-10"	30	30	Cement to surface
9 5/8			
8 5/8	1207	1207	335 sks.
7			
5 1/2			
4 1/2	4917	4917	465 sks.
3			
2			
Liners used			

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GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5400 feet
Depth of completed well 5079 feet Rotary XX / Cable Tools
Water strata depth: Fresh N/A feet; Salt N/A feet
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2500-4843 feet
Gas: Initial open flow 160 Mcf/d Oil: Initial open flow 10 Bbl/d
Final open flow Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 540 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
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)

KIT. 5899

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

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JAN 18 1983
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5899

Oil or Gas Well _____
(KIND)

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

Drillers' Names Perry S. Long Buster S. Cutright Charles W. Pringle
Union Drilling Rig # 9 Tool Pusher Kenneth Wilson

Remarks:
on 1-12-82 Ran 1217 feet of 8 5/8 casing
Halliburton ran 335 sacks cement
1240 feet deep at time of visit

1-13-83
DATE

Samuel M. Hersman
DISTRICT WELL INSPECTOR

04/12/2024

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

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INSPECTOR'S WELL REPORT & GAS DIVISION
DEPT. OF MINES

Permit No. 085-5899

Oil or Gas Well _____
(KIND)

Company PET. DEV. CORP.
 Address _____
 Farm R. VALENTINE
 Well No. ONE
 District BRANT County RITCHIE
 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 3/4			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 _____

Remarks: FINAL inspection
O.K. TO RELEASE'S

8-25-83
DATE

[Signature]
04/12/2024
DISTRICT WELL INSPECTOR



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

WALTER N. MILLER
DIRECTOR

THEODORE M. STREIT
ADMINISTRATOR

September 2, 1983

Petroleum Development Corp.
P. O. Box 26
Bridgeport, W. Va. 26330

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:

<u>PERMIT NUMBER</u>	<u>FARM AND WELL NUMBER</u>	<u>DISTRICT</u>
RiT-5628-REV.	Maxine & Foster Smith, #1	Grant
RIT-5771	Jennings Ross, #34-2535-5	Grant
RIT-5863	Westvaco Corporation, #A-2	Grant
RIT-5899	Brian G. & Diane Whalin, #1	Grant
RIT-6024	Alfred Blizzard et al, #2	Grant
RIT-6129	Daniel Donnelly etux, #1	Grant

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.....

Very truly yours,

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

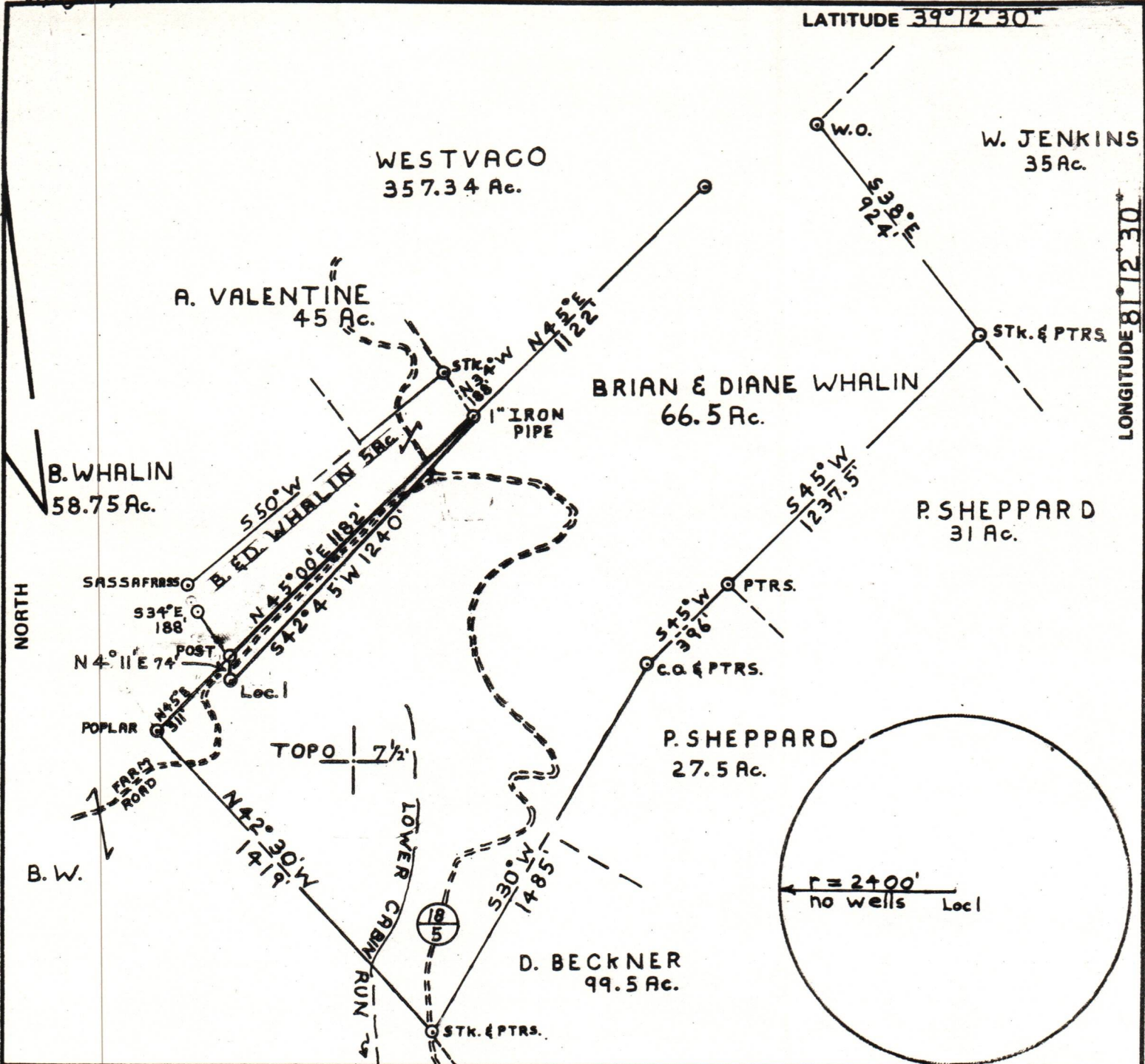
04/12/2024

M.D. 9/20/82

10,930'

LATITUDE 39°12'30"

LONGITUDE 81°12'30"



FILE NO. P.D.C. # 4-99-39
 DRAWING NO. I
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION B.M. = 708' ON B.E. O.R.R. BRIDGE ON GOOSE CREEK

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) Paul H. Dean, Jr.
 R.P.E. 1856 L.L.S. _____

PLACE SEAL HERE

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



DATE SEPT 9, 1982
 OPERATOR'S WELL NO. I
 API WELL NO. 47-085-5899
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1057' WATER SHED CABIN RUN
 DISTRICT GRANT COUNTY RITCHIE
 QUADRANGLE CAIRO 7 1/2
 SURFACE OWNER BRIAN G. & DIANE WHALIN ACREAGE 66.5
 OIL & GAS ROYALTY OWNER RALPH & RUTH VALENTINE LEASE ACREAGE 71.5 04/12/2024
 LEASE NO. 362400
 PROPOSED WORK: DRILL 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 SHALE ESTIMATED DEPTH 5400'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT JOHN MITCHELL
 ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26
BRIDGEPORT W.V. BRIDGEPORT W.V.