

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



Date: July 15, 1982

Operator's Well No. #1

API Well No. 47 085 5773

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: 785' Watershed: Goose Creek District: Grant County: Ritchie Quadrangle: Petroleum

WELL OPERATOR PETROLEUM DEVELOPMENT CORPORATION DESIGNATED AGENT John R. Mitchell

Address PO Box 26, 103 East Main Street Bridgeport, WV 26330

Address PO Box 26, 103 East Main Street Bridgeport, WV 26330

OIL & GAS ROYALTY OWNER Sue W. Davis

Address c/o Thomas Davis, 409 E. Main St. Harrisville, WV 26362

Acres 147

SURFACE OWNER W. V. Pulp & Paper

Address c/o W. V. Woodlands, mgr Parkersburg, WV 26101

Acres 147

FIELD SALE (IF MADE) TO: Address

OIL & GAS INSPECTOR TO BE NOTIFIED Name

Address Samuel N. Hersman P.O. Box 66 Smithville, W.Va. 26178 477-3597

COAL OPERATOR

Address

COAL OWNER(S) WITH DECLARATION ON RECORD:

Name none

Address

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JUL 21 1982

Name

Address OIL AND GAS DIVISION WV DEPARTMENT OF MINES

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 xx other contract / dated May 5, 1982, to the undersigned well operator from Sue W. Davis, et al

(IF said deed, lease, or other contract has been recorded:) lease has been assigned to PDC by Warren R. Haught & sent in for recordation

Recorded on March 20, 1981, in the office of the Clerk of the County Commission of Ritchie County, West Va., in lease Book 136 at page 379. A permit is requested as follows:

PROPOSED WORK: Drill xx / 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.

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

04/12/2024

PETROLEUM DEVELOPMENT CORPORATION

By John R. Mitchell Well Operator Area Manager of Operations

BLANKET BOND

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, 5900 feet Rotary xx / Cable tools _____ /

Approximate water strata depths: Fresh, 35 feet; salt, 235 feet.

Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No xx /

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'	30'		Kinds	
Fresh Water	11 3/4	H-40	44#	x		70'	70'	cement to surface		
Coal									Sizes	
Intermediate	8 5/8	H-40	23#	x		1450'	1450' /	cement to surface		
Production	4 1/2	J-55	10.5#	x		5850'	5850'	500 sks	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 3-23-83.
 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

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location 04/12/2024 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 Petrokem 7.5

LEGEND

Well Site 

Access Road 





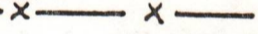





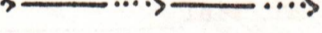
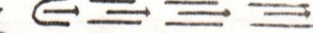


WELL SITE PLAN

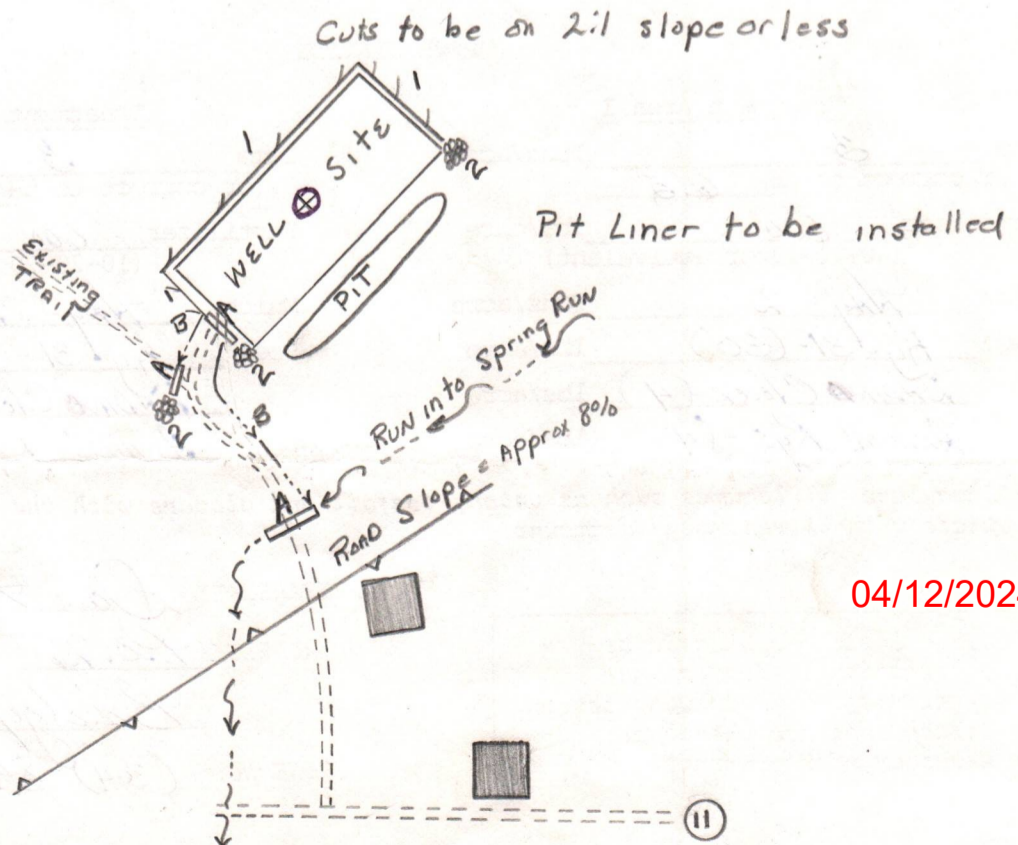
Sketch to include well location, existing access road, roads to be constructed, wells, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

Land Use: Pasture Hayland Cropland Woodland

LEGEND

Property boundary 	Diversion 
Road 	Spring 
Existing fence 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 

Sue DAVIS #1



04/12/2024



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JUL 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division

DATE July 6, 1982
WELL NO. 1
API NO. 47-085-5773

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME Petroleum Development Corp. DESIGNATED AGENT John Mitchell
Address P.O. 26, BRIDGEPORT W. Va. 26330 Address P.O. 26, BRIDGEPORT W. Va. 26330
Telephone (304) 842-6256 Telephone (304) 842-6256
LANDOWNER West VA Co Lumber SOIL CONS. DISTRICT Little Kanawha S.C.D.
Revegetation to be carried out by SEEDING Contractor (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 7-8-82 (Date)

Jarrett Newton
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>DRAIN PIPE</u> (A) Spacing <u>(Min. 12" I.D.)</u> Page Ref. Manual <u>2:7</u>	Structure <u>Diversion Ditch</u> (1) Material <u>Earthen</u> Page Ref. Manual <u>2:12</u>
Structure <u>DRAINAGE Ditch</u> (B) Spacing <u>N/A</u> Page Ref. Manual <u>2:12</u>	Structure <u>Rip-Rap</u> (2) Material <u>STONE</u> Page Ref. Manual <u>N/A</u>
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

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay - 2 Tons/acre

Seed* Ky-31-(30) lbs/acre
LADINO Clover-(4) lbs/acre
Annual Rye-(4) lbs/acre

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay - 2 Tons/acre

Seed* Ky-31-(30) lbs/acre
LADINO Clover-(4) lbs/acre
Annual Rye-(4) lbs/acre

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

PLAN PREPARED BY Dave L. [Signature] 04/12/2024
ADDRESS P.O. 26
Bridgeport, W. Va. 26330
PHONE NO. (304) 842-6256

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



**Petroleum
Development
Corporation**

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

Phone: 304-842-3597

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OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

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

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

			<u>N₂</u>	<u>CO₂</u>	<u>ACID</u>
1st Stage	N ₂ + CO ₂	27 perf (3702 - 4479)	330,000 scf	23,000 lbs.	8 bbls.
2nd Stage	N ₂ + CO ₂	28 perf (3103 - 3646)	300,000 scf	23,000 lbs.	8 bbls.
3rd Stage	N ₂ + CO ₂	18 perf (2542 - 2946)	360,000 scf	23,000 lbs.	5 bbls.

1500 gal. of paraffin inhibitor.

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	1259	Smell of gas @ 1150'
Big Lime			1259	1377	Water @ 1260'
Big Injun			1377	1471	
Sand, shale			1471	1856	
Sunbury Shale			1856	1864	
Berea			1864	1872	
Sand, shale			1872	2290	
Gordon			2290	2321	
Sand, shale			2321	2962	
Huron			2962	4052	1-1/2" stream water @ 3150'
Java			4052	4439	
Angola			4439	4701	
				4701 T.D.	

(Attach separate sheets as necessary)

Petroleum Development Corporation

Well Operator

By:

John Mitchell 04/12/2024

Date:

March 1, 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 coal, encountered in the drilling of a well."



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State of West Virginia

MAR 02 1983 Department of Mines
Oil and Gas Division
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Date January 10, 1983
Operator's
Well No. #1
Farm Sue Davis
API No. 47 - 085 - 5773

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: 785 Watershed Goose Creek
District: Grant County Ritchie Quadrangle Petroleum

COMPANY Petroleum Development Corporation
ADDRESS P.O. Box 26, Bridgeport, WV 26330
DESIGNATED AGENT John R. Mitchell
ADDRESS P.O. Box 26, Bridgeport, WV 26330
SURFACE OWNER West Virginia Pulp & Paper
c/o W. V. Woodlands, Manager
ADDRESS Parkersburg, WV 26101
MINERAL RIGHTS OWNER Sue W. Davis
c/o Thomas Davis
ADDRESS 409 E. Main St., Harrisville, WV 26362
OIL AND GAS INSPECTOR FOR THIS WORK Samuel
Hersman ADDRESS P.O. Box 66, Smithville,
WV 26178
PERMIT ISSUED 7/21/82
DRILLING COMMENCED October 2, 1982
DRILLING COMPLETED November 16, 1982

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.	30	30	
13-10"			
9 5/8			
8 5/8	986	986	250 sks.
7			
5 1/2			
4 1/2	4684	4684	445 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5900 feet
Depth of completed well 4701 feet Rotary XX / Cable Tools
Water strata depth: Fresh N/A feet; Salt 1260, 3150 feet
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 2542-4479 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 87 Mcf/d Final open flow 79 Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 600 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

KIT. 5773

04/12/2024

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

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INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 85-5773

Oil or Gas Well _____
(KIND)

Company <u>Petroleum Development Corp.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>W.V. Pulp & Paper</u>	16			Kind of Packler _____
Well No. <u>1</u>	13			
District <u>Grant</u> County <u>Ritchie</u>	10			Size of _____
Drilling commenced <u>11-9-82</u>	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 Ronnie Sellers - Jennings Thompson - Wayne Farrell

Remarks: Houghton. Rig # 16 to Pusher John Mornepenny

985' of 8 5/8 casing had been run sometime in past to hold lease - No record of cement with log Book
Begin drilling operation today at Depth of 985 feet

11-9-82
DATE

Samuel N. Heroman 04/12/2024
DISTRICT WELL INSPECTOR

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

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NOV 17 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-5773

Oil or Gas Well _____
(KIND)

Company Petroleum Development Corp

Address _____

Farm WV Pulp + Paper

Well No. 1

District Grant County Ritchie

Drilling commenced 11-9-82

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 Ronnie Sellers Jennings Thompson - Wayne Farrell

Remarks: Haughtelinc. Rig # 14 total Pusher John Moreyspenny

Visit - 2314 foot deep - Pit OK

11-11-82
DATE

Samuel N. Heroman 04/12/2024
DISTRICT WELL INSPECTOR

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

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SEP 6 - 1983
OIL & GAS DIVISION
DEPT. OF MINES
Oil or Gas Well
(KIND)

INSPECTOR'S WELL REPORT

Permit No. 85-5773

Company PET. DEV. CORP.
 Address _____
 Farm W. VA PULP PAPER
 Well No. No 17
 District Grant 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 1/2			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

Drillers' Names _____

Remarks:

*Final inspection
OK TO RELEASE'S*

8-30-83

DATE

Mike Underwood
04/2/2024
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 9, 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-5088-REN.	Noble J. & Worthy Rogers, #2	Grant
RIT-5110	Nobel Rogers, #7	Grant
RIT-5111-REN.	Noble J. & Worthy Rogers, #8	Grant
RIT-5773	W.Va. Pulp & Paper/Sue W. Davis, #1	Grant
RIT-5775	Phillip Stearns, #1	Grant
RIT-6171	Orpha Riggs, #1	Clay

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

04/12/2024

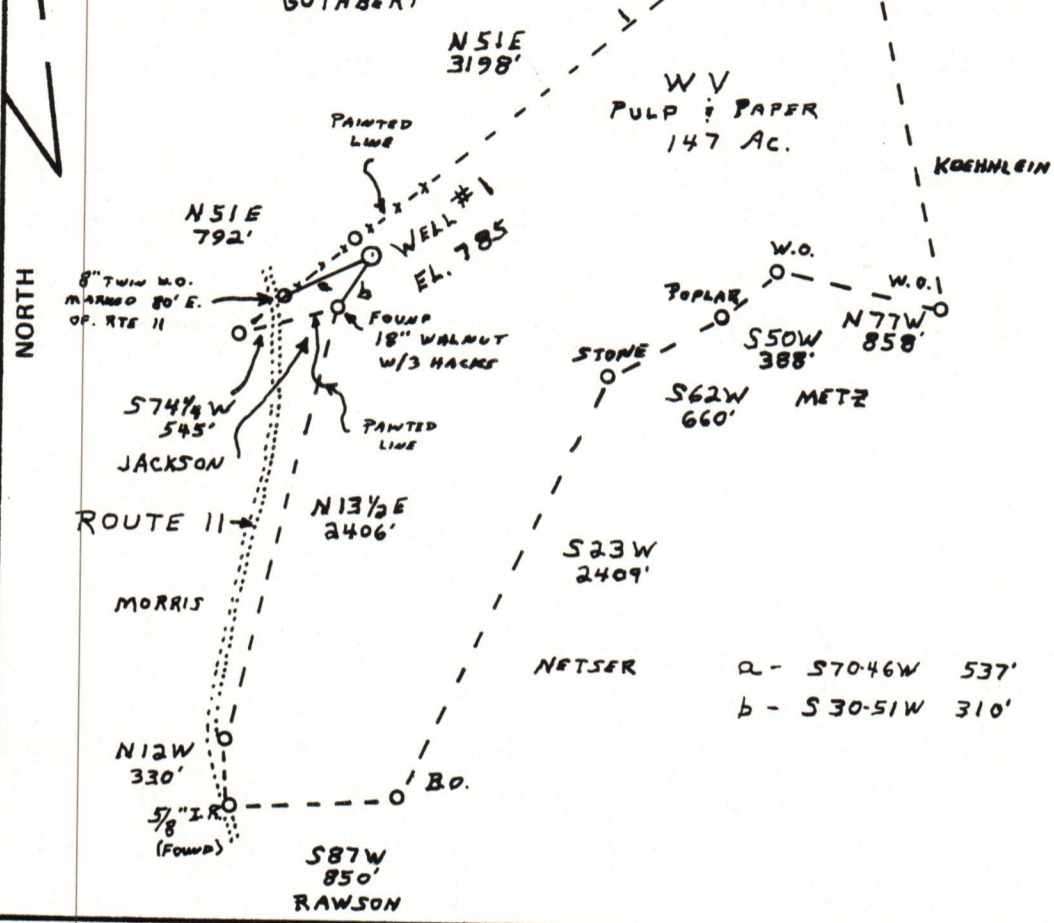
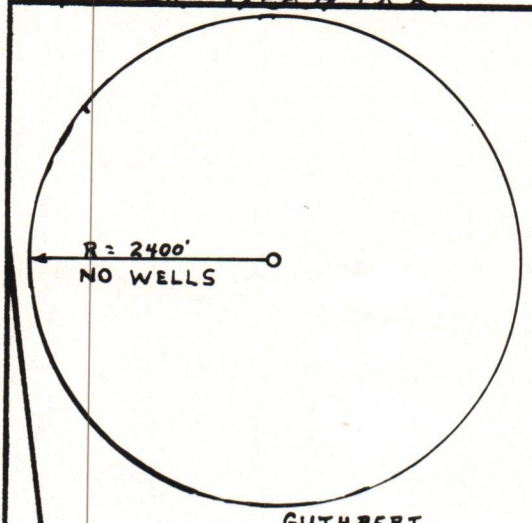
M.S. 7/22/82

4800'

LATITUDE 39°-12'-30"
39°-15'

WELL #1
75' QUAD. LOCATION

LONGITUDE 81°-15'-00"



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JUL 21 1982
OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION EL. 715 ON RTE 11
0.7 MI. N. OF RTE. 18

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) Burl J. Smith
R.P.E. 6988 L.L.S. _____



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



DATE JULY 6, 19 82
OPERATOR'S WELL NO. 1
API WELL NO. 47-085-5773
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 785 WATER SHED GOOSE CREEK
DISTRICT GRANT COUNTY RITCHIE
QUADRANGLE PETROLEUM
SURFACE OWNER WV PULP & PAPER ACREAGE 147
OIL & GAS ROYALTY OWNER SUE W. DAVIS LEASE NO. 363000 LEASE ACREAGE 147 04/12/2024
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 5900'
WELL OPERATOR PETROLEUM DEV. CORP. DESIGNATED AGENT JOHN H. MITCHELL
ADDRESS P.O. BOX 26 ADDRESS P.O. BOX 26
BRIDGEPORT, WV 26330 BRIDGEPORT, WV 26330