

RECEIVED

JAN 18 1985



1) Date: January 16, 19 85  
 2) Operator's Well No. A. Hardman #2  
 3) API Well No. 47 - 013 - 3879  
 State County Permit

OIL & GAS DIV.  
DEPT. OF MINES

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

- 4) WELL TYPE: A Oil  / Gas   
 B (If "Gas", Production  / Underground storage \_\_\_\_\_ / Deep \_\_\_\_\_ / Shallow )
- 5) LOCATION: Elevation: 702 Watershed: Little Rowles Run  
 District: Lee County: Calhoun Quadrangle: Annamoriah 7.5
- 6) WELL OPERATOR United Petro, Ltd. 50850 7) DESIGNATED AGENT Leo Hines  
 Address P. O. Box 767 Address P. O. Box 575  
Spencer, WV 25276 Spencer, WV 25276
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Deo Mace Name Unknown  
 Address Rt. 1, Box 5 Address \_\_\_\_\_  
Sandridge, WV 25274
- 10) PROPOSED WELL WORK: Drill  / Drill deeper \_\_\_\_\_ / Redrill \_\_\_\_\_ / Stimulate  /  
 Plug off old formation \_\_\_\_\_ / Perforate new formation \_\_\_\_\_ /  
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Berea  
 12) Estimated depth of completed well, 2500 feet  
 13) Approximate strata depths: Fresh, 125 feet; salt, 1100 feet.  
 14) Approximate coal seam depths: Unknown Is coal being mined in the area? Yes \_\_\_\_\_ / No
- 15) 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		Kinds	Sizes
Conductor										
Fresh water	<u>8-5/8</u>		<u>16</u>	<input checked="" type="checkbox"/>		<u>250</u>	<u>250</u>	<u>to surface</u>		
Coal										
Intermediate										
Production	<u>4 1/2</u>		<u>10.5</u>	<input checked="" type="checkbox"/>		<u>2500</u>	<u>2500</u>	<u>100 sks.</u>		
Tubing										
Liners										

OFFICE USE ONLY  
DRILLING PERMIT

Permit number 47-013-3879

February 8, 19 85  
Date

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. 8) 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.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires February 8, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent: ✓	Plat:	Casing	Fee
<u>165</u>	<u>MH</u>	<u>MH</u>	<u>MH</u>	<u>112</u>

*Margaret J. Hesse*

Administrator, Office of Oil and Gas

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



OFFICE USE ONLY

PERMIT MODIFICATIONS AND CONDITIONS (IF ANY) TO THE PROPOSED WELL WORK

1) APPROXIMATE COAL STRATA: \_\_\_\_\_

2) APPROXIMATE DEPTH OF COALBED: \_\_\_\_\_

3) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

4) APPROXIMATE COAL STRATA: \_\_\_\_\_

5) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

6) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

7) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

8) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

9) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

10) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

11) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

12) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

13) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

14) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

15) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

16) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

17) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

18) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

19) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

20) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

21) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

22) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

23) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

24) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

25) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

26) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

27) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

28) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

29) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

30) APPROXIMATE DEPTH OF COMPLETED WELL: \_\_\_\_\_

OFFICE USE ONLY

This part of Form IV-2(b) is to record the dates of certain occurrences and any follow-up inspections.

	Date	Date(s)
Application received		
Well work started		
Completion of the drilling process		
Well Record received		
Reclamation completed		

OTHER INSPECTIONS

Reason: \_\_\_\_\_

Reason: \_\_\_\_\_

Bond	Agent	Plan	Casing	Log
100%				

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES, OFFICE OF OIL & GAS  
 NOTICE OF APPLICATION FOR A WELL WORK PERMIT

1) SURFACE OWNER(S) OF RECORD TO BE SERVED  
 (i) Name Thelma Freshour  
 Address Box 10  
Harmony, WV 25246  
 (ii) Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 (iii) Name \_\_\_\_\_  
 Address \_\_\_\_\_

5(i) COAL OPERATOR NONE  
 Address \_\_\_\_\_  
 5(ii) COAL OWNER(S) WITH DECLARATION ON RECORD:  
 Name NONE  
 Address \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 5(iii) COAL LESSEE WITH DECLARATION ON RECORD:  
 Name NONE  
 Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE: You should have received this Form and the following documents:

- (1) The Application for a Well Work Permit on Form IV-2(B) (or Form IV-4 if the well is to be plugged, which sets out the parties involved in the drilling or other work, and describes the well and its location and, if applicable, the proposed casing and cementing program;
- (2) The plat (surveyor's map) showing the well location on Form IV-6; and
- (3) The Construction and Reclamation Plan on Form IV-9 (unless the well work is only to plug a well), which sets out the plan for erosion and sediment control and for reclamation for the site and access road.

THE REASON YOU RECEIVED THESE DOCUMENTS IS THAT YOU HAVE RIGHTS REGARDING THE APPLICATION WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON THE REVERSE SIDE OF THE COPY OF THE APPLICATION (FORM IV-2(B) OR FORM 4, DESIGNATED FOR YOU. HOWEVER, YOU ARE NOT REQUIRED TO TAKE ANY ACTION AT ALL.

Take notice that under Chapter 22 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a Well Work Permit with the Administrator of the Office of Oil and Gas, West Virginia Department of Mines, with respect to a well at the location described on attached Application and depicted on attached Form IV-6. Copies of this Notice, the Application, the plat, and the Construction and Reclamation Plan have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Administrator.

- 6) 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.)
- 7) ROYALTY PROVISIONS  
 Is the right to extract, produce or market the oil or gas based upon a lease or leases or other 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.

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 JAN 18 1985  
 OIL & GAS DIV.  
 DEPT. OF MINES

See the reverse side for line item instructions, and for instructions concerning the required copies of the Notice and Application, plat, and Construction and Reclamation Plan.

The truth of the information on the Notice and Application is verified and sworn to and the Notice is signed on behalf of the Well Operator in my County and State by William A. Lamb this 16 day of January, 1985. My commission expires 7/29, 1987.  
William A. Lamb  
 Notary Public, Roane County, State of West Virginia

WELL OPERATOR UNITED PETRO, LTD.  
 By William A. Lamb  
 Its President  
 Address P. O. Box 767  
 Telephone \_\_\_\_\_

12/01/2023

I N S T R U C T I O N S T O A P P L I C A N T

CONCERNING THE LINE ITEMS:

- 1) Date of Notice.
- 2) Your well name and number.
- 3) To be filled out by the Office of Oil & Gas.
- 4) & 5) Use separate sheet if necessary.
- 4) Surface owner(s) of record to be served with Notice and Application. However, see also Code § 22-4-1b(b) if "more than three tenants in common or other co-owners of interest described in subsection (a) of this section hold interests in such lands".
- 5(i) "Coal Operator" means any person, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine.
- 5(ii, iii) See Code § 22-4-20.
- 6) See Code § 22-4-11(c). However, in lieu of filing the lease(s) or other continuing contract(s), the Applicant may fill out the information in the space provided below.
- 7) See Code § § 22-4-11(d, e).

CONCERNING THE REQUIRED COPIES FOR FILING AND SERVICE:

Filing. Code § 22-4-1k and Regulation 7.02 provide that the original and required copies of the Notice and Application must be filed with the Administrator, 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 § 22-4-1k(d) and the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fees required by Code § 22-4-1a(c) and 22-3-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well on dwelling within 200 feet of the proposed well.

Service. In addition, service must be made on the surface owner(s) and the person(s) with an interest in the coal. See Code § § 22-4-1m, 22-4-2, 22-4-2a, and 22-4-2b.

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INFORMATION SUPPLIED UNDER CODE § 22-4-11(d)

IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on the obverse side of this Notice, I depose and say that I am the person who signed the Notice for the Applicant, and that--

- (1) the tract of land is the same tract described in the Application to which this Notice applies, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book Page
-----------------------	-----------------------	---------	-----------

IV-9  
(Rev 8-81)

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JAN 18 1985

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DEPT. OF MINES



State of West Virginia  
Department of Mines  
Oil and Gas Division

DATE 12/6/84

WELL NO. Hardman No. 2

API NO. 47 - 013 - 3879

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME United Petro LTD

DESIGNATED AGENT Leo Hines

Address Box 767 Spencer WV 25270

Address Box 575 Spencer WV

Telephone 927-3549 4126

Telephone 927-3549

LANDOWNER Thelma Freshour

SOIL CONS. DISTRICT Little Kanawha

Revegetation to be carried out by John Jr. Taylor (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 12/26/84 (Date)

*field review*

*Raymond L. Robinson*  
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Stone Creek Crossing (A)

Structure Sediment Barrier (1)

Spacing At entrance to Location

Material Staked Straw bale dike

Page Ref. Manual N/A

Page Ref. Manual 2-18

Structure \_\_\_\_\_ (B)

Structure Diversion Ditch (2)

Spacing \_\_\_\_\_

Material Earthen

Page Ref. Manual \_\_\_\_\_

Page Ref. Manual 2-12

Structure \_\_\_\_\_ (C)

Structure Rock Rip Rap (3)

Spacing \_\_\_\_\_

Material Stone

Page Ref. Manual \_\_\_\_\_

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

Treatment Area II

Lime 2 Tons/acre  
or correct to pH 6.5

Lime 2 Tons/acre  
or correct to pH 6.5

Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)

Fertilizer 500 lbs/acre  
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed\* Ky 31 Fescue 40 lbs/acre

Seed\* Ky 31 Fescue 40 lbs/acre

Rye 5 lbs/acre

Rye 5 lbs/acre

\_\_\_\_\_ lbs/acre

\_\_\_\_\_ lbs/acre

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

PLAN PREPARED BY Leo Hines

ADDRESS Box 575 Spenc 12/01/2023

PHONE NO. 927-3549

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

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

See attached sheet

LEGEND

Well Site ⊕

Access Road ———

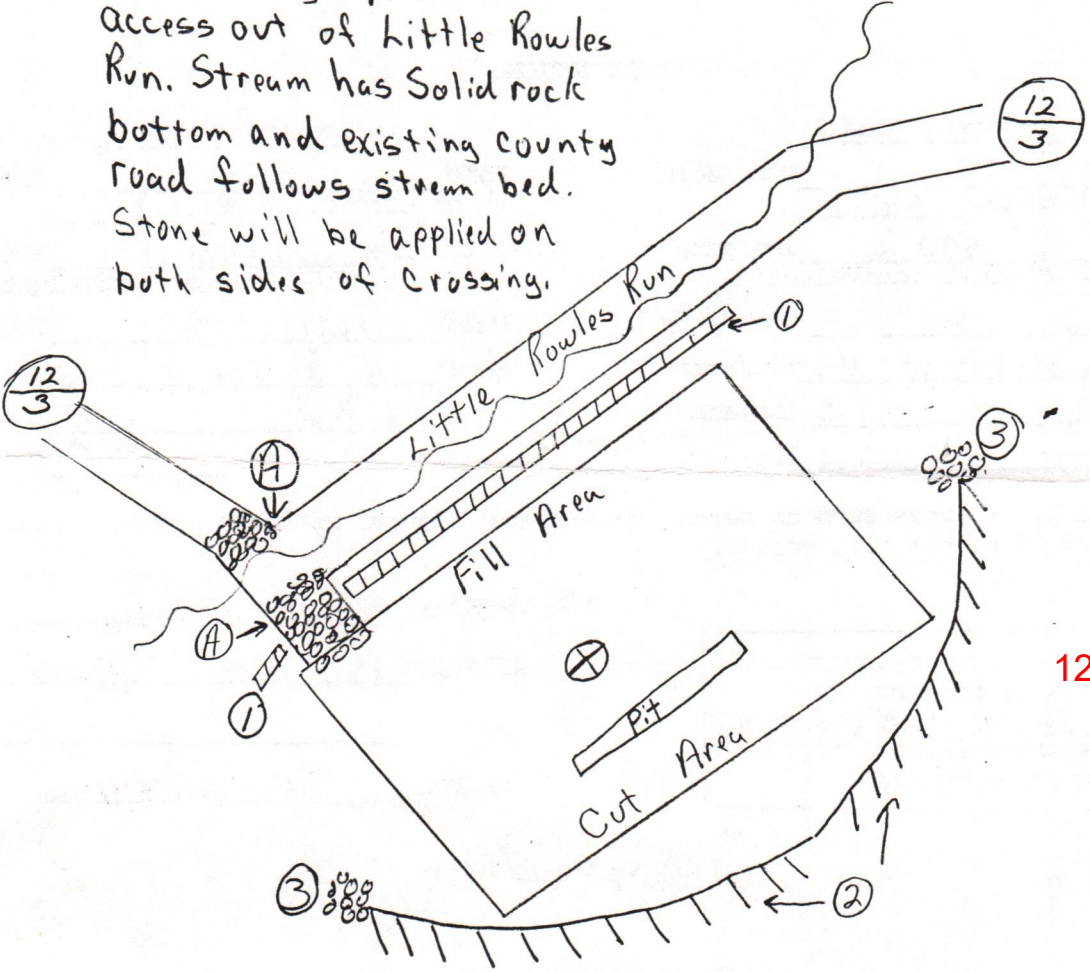
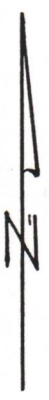
WELL SITE PLAN

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.

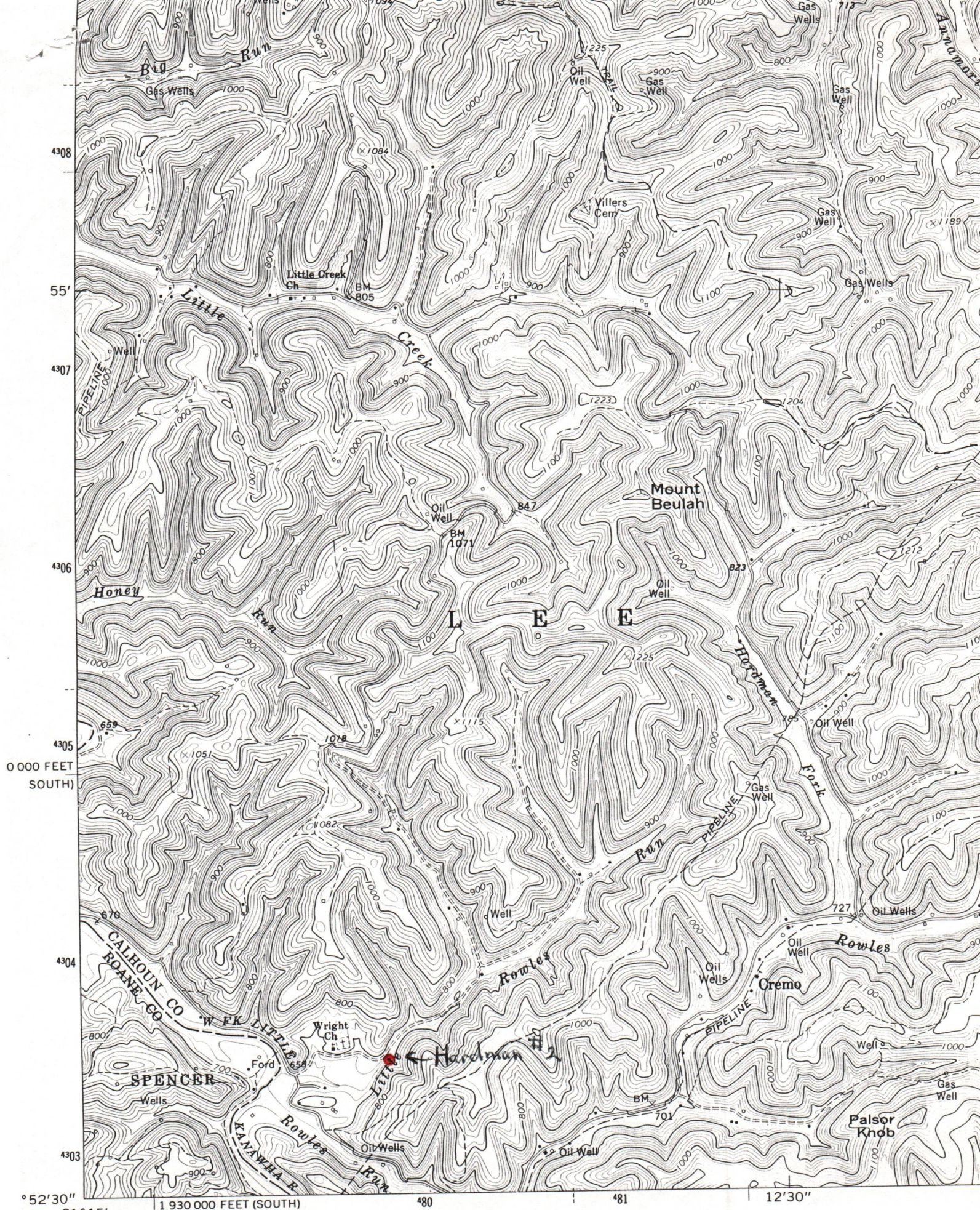
LEGEND

Property boundary ————	Diversion // // // // //
Road = = = = =	Spring ○ →
Existing fence — x — x —	Wet spot ☼
Planned fence — / — / —	Building ■
Stream ~ ~ ~ ~ ~	Drain pipe — ○ — ○ — ○ — →
Open ditch — ···· → — ···· → — ···· →	Waterway ⇐ ≡ ≡ ≡ ≡

Note: Access will be gained by constructing App. 20' of access out of Little Rowles Run. Stream has Solid rock bottom and existing county road follows stream bed. Stone will be applied on both sides of crossing.



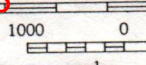
12/01/2023



Mapped, edited, and published by the Geological Survey  
 Control by USGS and USC&GS  
 Topography by photogrammetric methods from aerial photographs  
 taken 1963. Field checked 1966.



12/01/2023



NCERY  
 IVSE

THIS ASSIGNMENT, Made this the 3rd day of April, 1984, by  
and between

FRANCIS E. CAIN, party of the first part, Assignor,  
and

PETRO RESOURCES, LTD., a corporation, party of the  
second part, Assignee.

W I T N E S S E T H:

That for and in consideration of One (\$1.00) Dollar and  
other good and valuable consideration, cash in hand paid, the receipt  
of which is hereby acknowledged, the said Assignor does hereby grant,  
convey, transfer and assign unto the said Assignee, all those certain  
oil and gas leases and oil and gas leasehold estates created thereby,  
situate on the waters of Little Rowels Run, in the District of Lee,  
County of Calhoun, State of West Virginia, and more particularly bounded  
and described as follows:

FIRST LEASE: All that certain parcel of land situate as  
aforesaid and more particularly bounded and described as follows:

On the North by lands of Mud Farm and James Manning,

On the East by lands of R. Board Heirs,

On the South by lands of R. Board Heirs,

On the West by lands of Armadilla Farm,

containing 50 acres, more or less.

BEING the same leasehold estate created by the following lease  
agreements:

1. Lease agreement dated August 26, 1981, recorded  
in the office of the Clerk of the County Commission of Calhoun  
County, West Virginia, in Lease Book 79, at page 42, from  
Cleo H. Smith and Estella Mae Smith, his wife, to Francis  
E. Cain, covering 50 acres.

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JAN 18 1985  
OIL & GAS DIV.  
DEPT. OF MINES  
12/01/2023



2. Lease agreement dated December 13, 1983, recorded in said Clerk's Office in Lease Book 87, at page 150, from Opal Foster Stalnaker and Fenton R. Stalnaker, her husband, to Francis E. Cain, covering a tract of 50 acres.

3. Lease agreement dated February 13, 1984, recorded in Lease Book 87, at page 580, from James P. Taney and Anne R. Taney, his wife, to Francis E. Cain, covering a tract of 50 acres.

SECOND LEASE: All that certain parcel of land situate as aforesaid and more particularly bounded and described as follows:

On the North by Grover Cooper,

On the East by Mason Tract,

On the South by Grimm Tract,

On the West by Stallman Tract, containing 22 acres, more or less.

BEING the same leasehold estate created by that certain lease agreement dated September 8, 1983, recorded in said Clerk's Office in Lease Book 86, at page 141, from Ralph Cunningham and Margaret Cunningham, his wife, to Francis E. Cain, covering a tract of 22 acres.

*Hardman* THIRD LEASE: All that certain parcel of land situate as aforesaid and more particularly bounded and described as follows:

On the North by Lydia M. Grimm (64-1/2 A.),

On the East by C. Sommers (10 A.),

On the South by John Wright (88-1/2 A.),

On the West by Reese Blizzard (61 A.),

containing 91-3/4 acres, more or less.

BEING the same leasehold estate created by the following lease agreements and extensions:

1. Lease agreement dated February 18, 1981, recorded in said Clerk's Office in Lease Book 75, at page 329, from Leslie Anne Smith, Natalie S. Smyth and George Smyth, her husband, Melanie Smith, Kathryn S. Sayre and D. H. Sayre, her husband, Jeanne S. Pollack and Merrill Pollack, her husband, and Lewis E. Smith to Russell G. Beall, covering a tract of 91-3/4 acres, more or less.

2. Lease agreement dated April 1, 1981, recorded in Lease Book 76, at page 223, from George Vandale and Wilma Vandale, his wife, June Varda and Benjamin J. Varda, her husband, Beverly Elberfield and Steven Elberfield, her husband, and Anita Tuason and C. O. Tuason, her husband, the last four named are by Orton A. Jones, their attorney-in-fact, to Russell G. Beall, covering a tract of 91-3/4 Acres.

3. Extension dated January 10, 1984, recorded in Lease Book 87, at page 429, from Kathryn S. Sayre, widow, Jeanne S. Pollack and Merrill Pollack, her husband, Lewis E. Smith, and Kathryn S. Sayre, Trustee under the will of Rober B. Smith, deceased, to Russell G. Beall, extending lease recorded in Lease Book 75, at page 329.

4. Extension dated January 10, 1984, recorded in Lease Book 87, at page 636, from George Vandale and Wilma Vandale, his wife, June Varda and Benjamin J. Varda, her husband, and Orton A. Jones, Attorney-in-Fact for Beverly Elberfield and Steven Elberfield, her husband, and Anita Tuason and C. O. Tuason, her husband, extending lease recorded in Lease Book 76, at page 223.

5. Assignment dated December 30, 1983, recorded in Lease Book 87, page 310, from Russell G. Beall to Frances E. Cain.

There is excepted and reserved from the above described leasehold estates, an undivided 1/16th overriding royalty of 7/8ths of all the oil and gas produced and marketed from the premises, in favor of Francis E. Cain.

There is further excepted and reserved from the above described leasehold estates, all formations 100 feet from the bottom of the Berea Sand or the horizons where the same are usually found, however, the Assignee is granted first option to obtain any assignment of the deep rights for a period of 100 days after receiving notice of any bona fide proposed transfer.

In the event that the Assignor or the Assignee acquires and drills the deep rights, the other party will have the right to participate in the working interest up to 50%.

In the event that the Assignee declares any well drilled by them as a dry hole, that before plugging the same, the same shall be offered to the Assignor to take over the well to either attempt to produce the same,, and in any event, to assume all further liability for plugging, and upon receiving an assignment of said well to relieve the Assignee from its drilling bond and all further liability.

The Assignee covenants and agrees to fully develop the three leasehold estates containing 22 acres, 50 acres and 91 acres, and that drilling of one well on the 22 acres and two wells on the 50 acres and four wells on the 91 acres shall be considered full compliance with the covenant to fully develop. In the event said wells are not drilled within a reasonable time, the Assignor shall have a right to notify in writing, to commence drilling to satisfy the covenant of development and the Assignee shall have four months to comply with said notice or surrender the undeveloped portion of any of said leases. Said four month period shall apply separately

12/01/2023

to each well not drilled, i. e., the Assignee has four months to comply with the drilling of each well and if there are more than two wells, the same periods are not to run concurrently, but consecutively.

WITNESS the following signature and seal:

Francis E. Cain (SEAL)  
Francis E. Cain

STATE OF WEST VIRGINIA,  
COUNTY OF CALHOUN to-wit:

I, Sharron Sue Williams, a Notary Public in and for said county and state, do hereby certify that FRANCIS E. CAIN, whose name is signed to the foregoing writing, bearing date the 3rd day of April, 1984, has this day acknowledged the same before me in my said county.

Given under my hand the 9th day of April, 1984.

Sharron Sue Williams  
Notary Public

My commission expires December 11, 1989.

THIS INSTRUMENT PREPARED BY:

RICHARD H. BRUMBAUGH  
Attorney at Law  
212 Court Street  
Spencer, WV 25276

STATE OF WEST VIRGINIA  
CALHOUN COUNTY COMMISSION CLERK'S OFFICE April 12, 19 84 10:30A.M.

The foregoing Assignment together with the certificate thereto annexed, was this day admitted to record in said office.

Fee: \$12.50

RICHARD N. STALNAKER, Clerk

By Carra Mae Parsons, Deputy.

12/01/2023

THIS ASSIGNMENT, Made this the 16th day of  
January, 1985, by and between

PETRO RESOURCES, LTD, party of the first  
part, Assignor,

and

UNITED PETRO, LTD, party of the second  
part, Assignee.

W I T N E S S E T H :

That for and in consideration of One (\$1.00) Dollar,  
cash in hand paid, the receipt of which is hereby acknow-  
ledged, the said Assignor does hereby assign unto the said  
Assignee, full operating rights for oil and gas development  
and related purposes in and to that certain well site # 2  
and that certain lease known as A. Hardman, Jr.  
Lease, situate on a certain oil and gas lease and oil and gas  
leasehold estate, covering a tract of land situate in the  
District of Lee, County of Calhoun, and State  
of West Virginia, on the waters of Little Rowles Run,  
on a tract of land containing 91-3/4 acres and being the same  
leasehold estate granted to Petro Resources, LTD, by \_\_\_\_\_  
Francis E. Cain, by their lease agreement  
dated the 3rd day of April, 1984, and of record  
in the Office of the Clerk of the County Commission of  
Calhoun County, West Virginia, in Lease Book  
88 at page 233.

It is understood and agreed that the operating and  
development rights herein contained shall include the drilling  
maintenance and abandoning and plugging of the oil and gas lease.

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OIL & GAS DIV.  
DEPT. OF MINES

IN WITNESS WHEREOF, the said PETRO RESOURCES, LTD., a corporation, has caused this assignment to be executed, acknowledged and delivered on its behalf by its duly authorized officer and its corporate seal to be affixed and attested by its secretary.

PETRO RESOURCES, LTD.

ATTEST:

BY: William A. Lamb

Ass't.

Eileen Hines  
Secretary

ITS: President

STATE OF WEST VIRGINIA,

COUNTY OF Roane, to-wit:

The foregoing instrument was acknowledged before me this 16th day of January, 1985, by William A. Lamb, the President of PETRO RESOURCES, LTD., a corporation, on behalf of the corporation.

Eileen Hines  
Notary Public

My commission expires: July 29, 1987

THIS INSTRUMENT PREPARED BY:

Richard H. Brumbaugh  
Attorney-at-Law  
212 Court Street  
Spencer, WV 25276

12/01/2023

IV-35  
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MAY 20 1985

OIL & GAS DIVISION  
**DEPT. OF MINES**



State of West Virginia  
Department of Mines  
Oil and Gas Division

Date May 17, 1985  
Operator's Well No. Hardman #2  
Farm A. Hardman  
API No. 47- 013 - 3879

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

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

LOCATION: Elevation: 712 KB Watershed Little Rowles Run  
District: Lee County Calhoun Quadrangle Annamoriah 7.5

COMPANY United Petro, Ltd.  
ADDRESS P. O. Box 687, Spencer, WV 25276  
DESIGNATED AGENT Leo Hines  
ADDRESS P. O. Box 575, Spencer, WV 25276  
SURFACE OWNER Thelma Freshour  
ADDRESS Harmony, WV  
MINERAL RIGHTS OWNER George Vandale, et. al.  
ADDRESS Spencer, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Sand Ridge, WV  
PERMIT ISSUED 2/8/85  
DRILLING COMMENCED 3/7/85  
DRILLING COMPLETED 4/9/85  
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"			
9 5/8			
8 5/8	258	258	50 sks
7			
5 1/2			
4 1/2	2272	2272	200 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Depth 2195 feet  
Depth of completed well 2327 feet Rotary X / Cable Tools      
Water strata depth: Fresh 60 feet; Salt 1160 feet  
Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Pay zone depth 2198-2211 feet  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow N/A Bbl/d  
Final open flow 681 Mcf/d Final open flow 5 Bbl/d  
Time of open flow between initial and final tests 24 hours  
Static rock pressure 350 psig (surface measurement) after 24 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation N/A 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)

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

Perforated: Berea 2199-2210 (10 holes)

Fractured with: 500 gal. acid, 15,000 lbs. 80/100 sand, 40,000 lbs. 20/40 sand,  
230 bbl. water, 421,000 SCF Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Soil			0	4	Drilled w/Rotary Fluid
Sand			4	25	Log Tops 1000' to TD
Shale			25	58	
Sand			58	75	
Shale, Sand, Red Rock			75	1028	
Sand			1028	1154	
Shale			1154	1224	
Sand			1224	1260	
Shale			1260	1424	
Sand			1424	1472	
Shale			1472	1518	
Sand			1518	1560	
Shale			1560	1640	
Little Lime			1640	1670	
Pencil Cave			1670	1680	
Big Lime			1680	1814	
Big Injun			1814	1830	
Shale			1830	2132	
Coffee Shale			2132	2196	
Berea			2196	2214	
Shale			2214	2326	
				2326	Total Depth

(Attach separate sheets as necessary)

UNITED PETRO, LTD.

Well Operator

12/01/2023

By: *William A. Zant*

Date: May 17, 1985

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."



THE WELL COMPLETION REPORT FOR 13-3879 WAS

RECEIVED ON 5/20/85 ~~AND RETURNED ON~~

~~REASON~~ Requested O-G ratio report on 5/21/85

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

RECORDED  
DEPARTMENT OF MINES ENERGY  
OIL AND GAS

APR 23 1986

INSPECTOR'S WELL REPORT

Permit No. 13-3879

(2-8-85)

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company <u>United Petro</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Hardman</u>	16			Kind of Packer _____
Well No. <u>2</u>	13			
District <u>Lee</u> County <u>Cal.</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:

Release Reclamation

4-19-86

DATE

D. W. Mace

DISTRICT WELL INSPECTOR

12/01/2023

Form 26  
2/16/82

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

### INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_

Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

Liner			Packer				
Location		Amount	Location		Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_  
DATE I hereby certify I visited the above well on this date.

12/01/2023  
DISTRICT WELL INSPECTOR

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

RECEIVED  
MAR 12 1985

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

Permit No. 13.3879

Oil or Gas Well \_\_\_\_\_  
(KIND)

Company United Petro  
 Address \_\_\_\_\_  
 Farm Hardman  
 Well No. 2  
 District Lee County Cal  
 Drilling commenced 3-7-85  
 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 C. Moore 1

Remarks:  
258' of 8 5/8" casing, 50 SKS cement, B.J. Hughes  
3.7.85

3.8.85  
DATE

Dew Mac 12/01/2023  
DISTRICT WELL INSPECTOR

Form 26  
2/16/82

RECEIVED  
MAR 13 1982  
OIL & GAS DIVISION  
DEPT. OF MINES

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

# INSPECTOR'S PLUGGING REPORT

Permit No. \_\_\_\_\_ Well No. \_\_\_\_\_

COMPANY \_\_\_\_\_ ADDRESS \_\_\_\_\_

FARM \_\_\_\_\_ DISTRICT \_\_\_\_\_ COUNTY \_\_\_\_\_

Filling Material Used \_\_\_\_\_

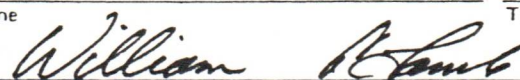
Liner	Location		Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES		CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION		RECOVERED	SIZE	LOST

Drillers' Names \_\_\_\_\_

Remarks: \_\_\_\_\_

\_\_\_\_\_  
DATE I hereby certify I visited the above well on this date.

12/01/2023  
DISTRICT WELL INSPECTOR

1.0 API well number: (If not available, leave blank. 14 digits.)	47-013-3879				
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	103 Section of NGPA	Category Code			
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	2211' feet				
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	United Petro, Ltd. Name P. O. Box 687 Street Spencer, WV 25276 City State Zip Code		Seller Code		
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Richardson Oilfield Field Name Calhoun 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.)	Hardman #2				
(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.)	CNG Development Company Name		Buyer Code		
(b) Date of the contract:	10 10 84 Mo. Day Yr.				
(c) Estimated annual production:	24.5 MMcf.				
7.0 Contract price: (As of filing date. Complete to 3 decimal places.)	May 85	2.991	.419	.010	3.420
8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.)	May 85	2.991	.419	.010	3.420
9.0 Person responsible for this application:	William A. Lamb President Name Title  Signature May 17, 1985 (304) 927-4126 Date Application is Completed Phone Number				
Agency Use Only					
Date Received by Juris. Agency					
Date Received by FERC					

12/01/2023

JUN 14 1985

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: May 17, 19 85

50850

AGENCY USE ONLY

Applicant's Name: United Petro, Ltd.

WELL DETERMINATION FILE NUMBER

Address: P. O. Box 687

850521 -1030-013 - 3879

Spencer, WV 25276

Use Above File Number on all  
Communications Relating to This Well

Gas Purchaser Contract No. GMA 3-035

Date of Contract Oct. 10, 1984  
(Month, day and year)

First Purchaser: CNG Development Co.

P634

Designated Agent: Leo Hines

Address: One Park Ridge Center; P. O. Box 15746

Address: P. O. Box 575

(Street or P.O. Box)

Spencer, WV 25276

Pittsburgh, PA 15244

(City) (State) (Zip Code)

FERC Seller Code

FERC Buyer Code

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL  
BE ADDRESSED:

Name: William A. Lamb President  
(Print) (Title)

Signature: *William A. Lamb*

Address: P. O. Box 687

(Street or P.O. Box)

Spencer WV 25276

(City) (State) (Zip Code)

Telephone: (304) 927-4126  
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser) Certified Mail # P 388 025 542

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 02 New Natural Gas
  - 102-2 2.5 Mile Test
  - 102-3 1000 Foot Deeper Test
  - 102-4 New Onshore Reservoir
- 03 New Onshore Production Well
- 103 New Onshore Production Well

- 108 Stripper Well Natural Gas
  - 108- Stripper Well
  - 108-1 Seasonally Affected
  - 108-2 Enhanced Recovery
  - 108-3 Temporary Pressure Buildup

- 07 High Cost Natural Gas
  - 107-0 Deep (more than 15,000 feet)
  - 107-1 Geopressured Brine
  - 107-2 Coal Seams
  - 107-3 Devonian Shale
  - 107-5 Production enhancement
  - 107-6 New Tight Formation
  - 107-7 Recompletion Tight Formation

AGENCY USE ONLY

RECEIVED

MAY 21 1985

OIL & GAS DIV.  
DEPT. OF MINES

QUALIFIED

12/01/2023

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

Operator's Well No. Hardman #2  
API Well No. 47 - 013 - 3879  
State County Permit

WELL CLASSIFICATION FORM  
NEW ONSHORE PRODUCTION WELL  
NGPA Section 103

DESIGNATED AGENT Leo Hines  
ADDRESS P. O. Box 575  
Spencer, WV 25276

WELL OPERATOR United Petro, Ltd.  
ADDRESS P. O. Box 767  
Spencer, WV 25276

LOCATION: Elevation 702'  
Watershed Little Rowles Run  
Dist. Lee County Calhoun Quad Annamoriah

GAS PURCHASER CNG Development Co.  
ADDRESS One Park Ridge Center; P. O. Box 15746  
Pittsburgh, PA 15244

Gas Purchase Contract No. GMA3-035  
Meter Chart Code L686  
Date of Contract Oct. 10, 1984

\* \* \* \* \*

Date surface drilling was begun: 3/7/85

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

$$BHP = P_1 + P_1 \left( \frac{GL}{53.34T} \right) \quad P_1 = 364.73$$
$$T = 542$$
$$G = .70$$
$$L = 2205$$

BHP = 385

AFFIDAVIT

I, William A. Lamb, having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.

William Lamb

STATE OF WEST VIRGINIA,  
COUNTY OF Roane, TO WIT:

I, Eileen Hines, a Notary Public in and for the state and county aforesaid, do certify that William A. Lamb, whose name is signed to the writing above, bearing date the 17th day of May, 1985, has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 17th day of May, 1985. My term of office expires on the 29th day of July, 1987.

[NOTARIAL SEAL]

Eileen Hines  
Notary Public

12/01/2023



**P 388 025 529**  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

Sent to <b>Mrs. The[ma FRESHOUR</b>	
Street and No. <b>BOX 10</b>	
P.O., State and ZIP Code <b>Harmony, WV 25246</b>	
Postage \$ <b>71</b>	
Certified Fee <b>75</b>	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to whom and Date Delivered <b>60</b>	
Return Receipt Showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees \$ <b>206</b>	



PS Form 3800, Feb. 1982

● **SENDER:** Complete items 1, 2, 3, and 4.  
 Add your address in the "RETURN TO" space on reverse.

**(CONSULT POSTMASTER FOR FEES)**

1. The following service is requested (check one).  
 Show to whom and date delivered ..... —¢  
 Show to whom, date, and address of delivery .. —¢  
 **RESTRICTED DELIVERY**  
 (The restricted delivery fee is charged in addition to the return receipt fee.) —¢

3. **ARTICLE ADDRESSED TO:**  
 Mrs. The[ma FRESHOUR  
 Box 10  
 Harmony, WV 25246

4. **TYPE OF SERVICE:** **ARTICLE NUMBER**  
 REGISTERED  INSURED P 388 025 529  
 CERTIFIED  COD  
 EXPRESS MAIL

(Always obtain signature of addressee or agent)  
 I have received the article described above.

**SIGNATURE**  Addressee  Authorized agent  
*The[ma FRESHOUR*

**DATE OF DELIVERY**

**POSTMARK VA.**  
 JAN 18 1985

6. **ADDRESSEE'S ADDRESS (Only if requested)**

7a. **EMPLOYEE'S INITIALS**  
 A.B.H.

7. **UNABLE TO DELIVER BECAUSE:**

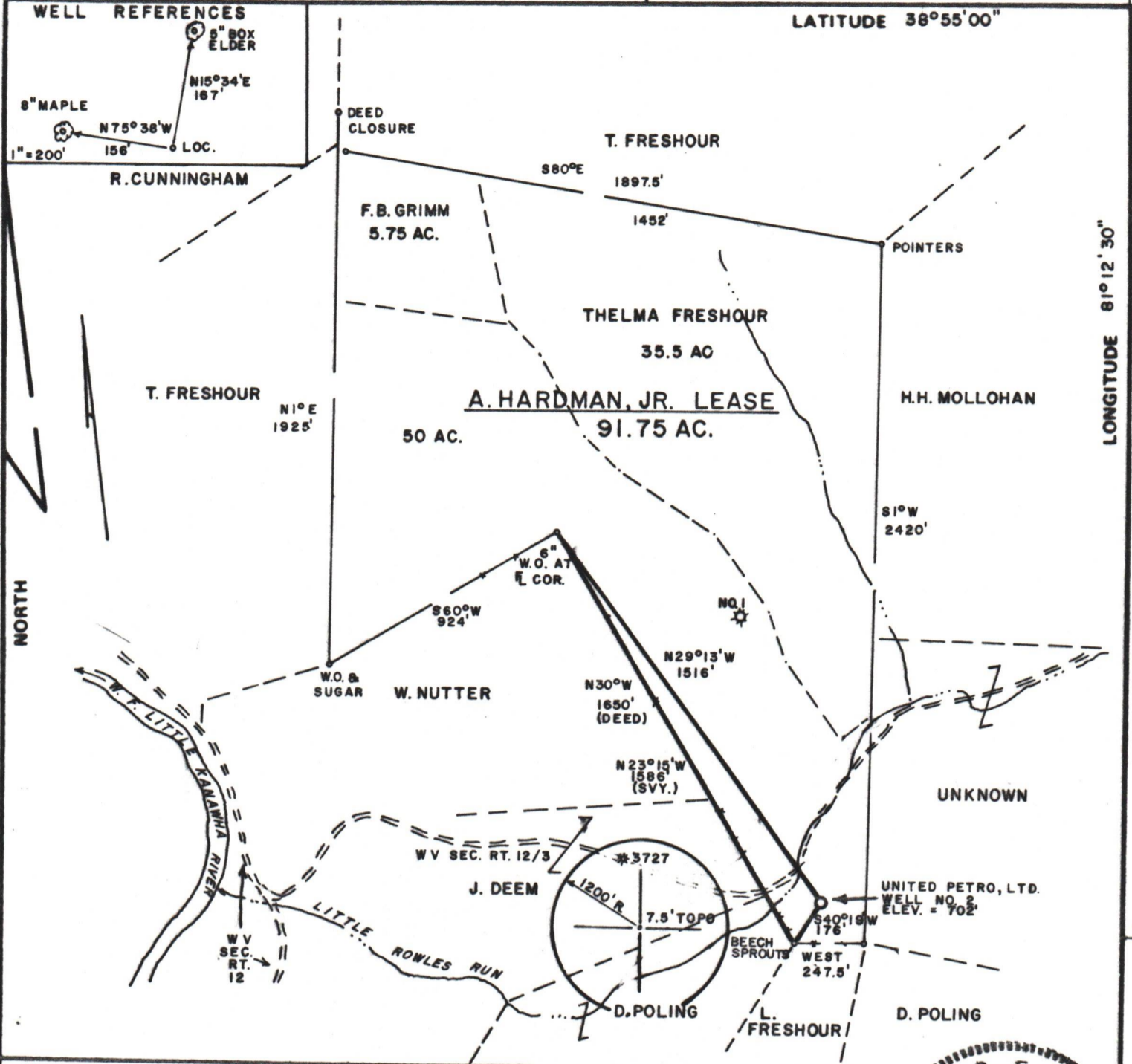
**TOTAL \$** \_\_\_\_\_

PS Form 3811, Dec. 1980

**RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL**

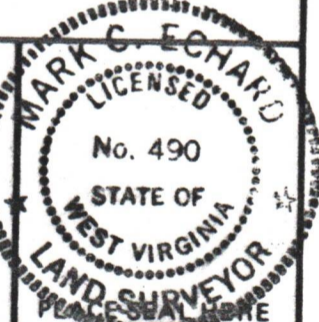
58245 MU 2-7-85

6690'



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1/200  
 PROVEN SOURCE OF ELEVATION JCT. OF ROADS 1550' ± WEST OF LOCATION, ELEV. = 658'

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.  
*Mark C. Echard*  
 (SIGNED) MARK C. ECHARD  
 R.P.E. \_\_\_\_\_ L.L.S. 490



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



DATE NOVEMBER 6, 19 84  
 OPERATOR'S WELL NO. TWO  
 API WELL NO. \_\_\_\_\_  
47 - 013 - 3879  
 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 702' WATERSHED LITTLE ROWLES RUN  
 DISTRICT LEE COUNTY CALHOUN  
 QUADRANGLE ANNAMORIAH 7.5'  
 SURFACE OWNER THELMA FRESHOUR ACREAGE 85 1/2 OF 91 3/4  
 OIL & GAS ROYALTY OWNER GEORGE VANDALE, ET. AL. LEASE ACREAGE 91 3/4  
 LEASE NO. \_\_\_\_\_  
 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 BEREA ESTIMATED DEPTH 2500' ±  
 WELL OPERATOR UNITED PETRO, LTD. DESIGNATED AGENT MR. LEO HINES  
 ADDRESS P.O. BOX 767 ADDRESS P.O. BOX 767  
SPENCER, WV 25276 SPENCER, WV 25276

12/01/2023