

A-1



1) Date: Nov. 8, 19 82
2) Operator's Well No. CAIRO OIL # 1
3) API Well No. 47 - 105 - 1030
State County Permit

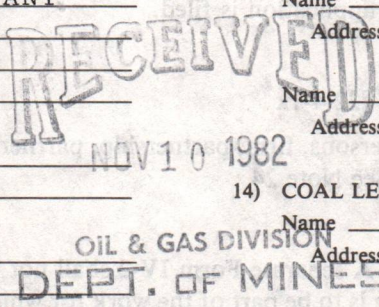
DRILLING CONTRACTOR:

B & L OIL CO.
DAVISVILLE, WV

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil xxx / Gas xxx /
B (If "Gas", Production xxxxxx / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1119' Watershed: Straight Fork Creek
District: Burning Springs County: Wirt Quadrangle: MacFarlan
- 6) WELL OPERATOR B & L OIL CO. 11) DESIGNATED AGENT C. JO MCCRADY
Address P O BOX 165 Address P O BOX 165
DAVISVILLE, WV 26142-9998 DAVISVILLE, WV 26142
- 7) OIL & GAS ROYALTY OWNER CAIRO OIL COMPANY 12) COAL OPERATOR
Address CAIRO, WV 26337 Address n/a
- Acreage 545
- 8) SURFACE OWNER CAIRO OIL COMPANY 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
Address CAIRO, WV 26337 Name
Address Address
Acreage 545 Name
Address Address
- 9) FIELD SALE (IF MADE) TO: 14) COAL LESSEE WITH DECLARATION ON RECORD:
Address Name
Address Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
Name Deo Mace Address
Address Rt 1 Box 5 Address
Sandridge, WV 25274
- 15) PROPOSED WORK: Drill xxxx / 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, 5800 feet
- 18) Approximate water strata depths: Fresh, 180 feet; salt, 570 feet.
- 19) Approximate coal seam depths: n/a Is coal being mined in the area? Yes / No xxx



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	1 3/4	J55		x		350	350	CTS	Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8	J55	24 1/2	xx		1300	1300	to surface	
Production	4 1/2	J55	10.5	xx			5800	500 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: C. Jo McCrady
My Commission Expires July 17, 1989

Signed: C. Jo McCrady
Its: Designated Agent

OFFICE USE ONLY

Permit number 47-105-1030 **DRILLING PERMIT** December 3 01/12/2024 19 82
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. 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 3, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>Blanket</u>	Agent: <u>OK</u>	Plat: <u>J. E. ...</u>	Casing: <u> </u>	Fee: <u> </u>
----------------------	------------------	------------------------	-----------------------	--------------------

Fred ...
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

01/12/2024

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 _____

THIS ASSIGNMENT, Made this 21st day of May, 1982, by and between W. R. DEVELOPMENT COMPANY, a corporation, party of the first part, and OIL DEVELOPMENT COMPANY , a corporation, party of the second part.

W I T N E S S E T H:

That for and in consideration of the sum of Ten (\$10.00) Dollars, cash in hand paid, and other good and valuable considerations, the receipt and sufficiency of all of which is hereby acknowledged, the said party of the first part does hereby sell, transfer, grant, convey, and assign unto the said party of the second part, subject to the exceptions and reservations hereinafter set out, all those certain oil and gas leases and oil and gas leasehold estates created hereby, situate in Burning Springs District of Wirt County, West Virginia and more particularly identified and described as follows:

BEGINNING at a white oak and pointers, a corner to the Abner Pepper land; thence with said Pepper land North 3 W. 214 poles to a white oak another corner of said Pepper land, also a corner in the line described in a Commissioner's deed made by Peter G. VanWinkle, Commissioner of forfeited and escheated land, to Henry Moore, bearing date on Nov. 25, 1846, recorded in Deed Book 14, Page 114, and 115, of the land records of Wirt County; thence North 87 E. 434 poles to pointers in the line of land claimed by A. A. Haught and C. W. Kemp; thence with the line of land claimed by A.A. Haught and C. W. Kemp S. 10' W. 220 poles to stake and pointers; thence S. 87 W. 384 poles to the place of beginning, containing 545 acres, more or less.

There is excepted and reserved for the benefit of the party of the first part, an overriding royalty of one-sixteenth (1/16) of all oil, gas and other petroleum hydrocarbons produced, saved and marketed from all formations underlying the said tract.

The party of the second part covenants and agrees to commence operation for the drilling of two separate wells upon the subject tract within one (1) year from the date of this Assignment

01/12/2024

and to pursue the drilling of said wells diligently to completion; that operations for the drilling of the first of these two (2) wells shall commence on or before 210 days from the date of this Assignment; that the party of the second part further covenants and agrees to commence operations for the drilling of two additional wells upon the subject tract within the primary term of this leasehold, that being three (3) years; this making a total of at least four (4) wells to be commenced within the said three (3) year primary term.

This assignment is made subject to that certain agreement between the parties hereto, bearing even date herewith.

This assignment is further made subject to all the terms and conditions of the original leasehold agreements and assignments occurring in the Chain of Title.

WITNESS the following signatures:

W. R. DEVELOPMENT COMPANY

BY Stephen D Ward

ITS President

***** ***** ***** ***** *****

STATE OF WEST VIRGINIA,

COUNTY OF WOOD, to-wit:

I, Bruce E Doak, a Notary Public in the aforesaid County and State, do certify that Stephen D Ward who signed the writing hereto annexed bearing date of the 21 day of May, 1982, for W. R. DEVELOPMENT COMPANY has this day in my said County, before me, acknowledged the said writing to be the act and agreement of said Corporation.

Given under my hand this 21 day of May, 1982.

My commission expires: JUNE 3 1991

Bruce E Doak
Notary Public

101/12/2024

THIS INSTRUMENT PREPARED BY

L. David Ward
Attorney at Law
P. O. Box 279
Elizabeth, WV 26143

LARRY N. SULLIVAN
ATTORNEY AT LAW
217 FOURTH STREET
PARKERSBURG, WEST VIRGINIA 26101
P. O. BOX 542

TELEPHONE 485-0401
AREA CODE 304

August 30, 1982

Oil Development Company
1420 Seventh Street
Parkersburg, West Virginia 26101

Re: 545 Acres, Burning Springs
District, Wirt County, West
Virginia, Florence M. Anderson,
and others, Lease.

Gentlemen:

I do hereby certify that I have made a personal examination of the records in the Office of the Clerk of the County Commission, Clerk of the Circuit Court, and the Sheriff's Department, all of Wirt County, West Virginia, and based upon such examination, and subject to the correctness of the indices and records therein, and subject further to any state of facts not appearing of record, I hereby certify the title to you as follows:

DESCRIPTION

BEGINNING at a white oak and pointers a corner to the Abner Pepper land, thence with said pepper land N 3 W 214 poles to a white oak another corner of said Pepper land, also a corner in the line described in a commissioner's deed made by Peter G. VanWinkle, Commissioner of Forfeited and escheated land to Henry Moore bearing date on Nov. 25, 1846, recorded in deed book no. 14, pages 114 and 115 of the land records of Wirt County; thence N 87 E 434 poles to pc pointers in the line of land heretofore claimed by A. A. Haught and C. W. Kemp; thence with the line of land heretofore claimed by A. A. Haught and C. W. Kemp S 10 W 220 poles to a stake and pointers; thence S 87 W 384 poles to the place of beginning, containing 545 acres, more or less.

01/12/2024

Under the terms and provisions of his Last Will and Testament dated January 17, 1925, and recorded in Fiduciary Book 15, at page 704, the said Herbert Scoville devised all of his property to his wife, Orlena, for life with the remainder to go to his children, share and share alike.

According to said affidavit, Orlena Scoville died August 8, 1967, a resident of Salisbury, Conn., and that Elvia Scoville Firuski likewise died a resident of Salisbury, Conn., on June 17, 1969, survived by her child, Orlena Firuski Gignoux.

mm. On April 12, 1971, Herbert Scoville, Jr., Ann C. Scoville, his wife, Orlena Firuski Gignoux, Jacques Gignoux, her husband, conveyed "an undivided 1/16" interest in the subject property unto M. E. Anderson, Claude E. Carter, Jack Skaggs, Rollins M. Koppel, and Ann Stiernberg Stone by deed of record in Deed Book 139, at page 985. This deed contains the following reservation:

"Save and except that the parties of the first part herein reserve for themselves, in equal parts, and unto their heirs and assigns, all of the oil, gas and other minerals in and under and that may be produced from the undivided 1/16th interest in said 545 acres of land...."

STATE OF TITLE

Title to the oil, gas and minerals in the subject tract is owned as follows:

1. Milburn E. Anderson, his heirs, successors and assigns, own 9/10 of 15/16 of the oil, gas and minerals in the subject tract;
2. Ann Stiernberg, her heirs, successors and assigns, own an undivided 2.662% of the oil, gas and minerals in the subject tract;
3. Lloyd L. Stiernberg, his heirs, successors and assigns, own 26.22% of 1/10 of 15/16 of the oil, gas and minerals in the subject tract, less the 2.662% conveyed to Ann Stiernberg;
4. Claude L. Carter, his heirs, successors and assigns, own 26.22% of the 1/10 of 15/16 of the oil, gas and minerals in the subject tract;
5. Jack Skaggs, his heirs, successors and assigns, own 26.22% of 1/10 of 15/16 of the oil, gas and minerals in the subject tract;

6. Rollins M. Koppel, his heirs, successors and assigns, own 21.34% of 1/10 of 15/16 of the oil, gas and minerals in the subject tract;

7. Herbert Scoville, Jr., his heirs, successors and assigns, own 1/32 interest in the oil, gas and minerals in the subject tract;

8. Orlena Firuski Gignoux, her heirs, successors and assigns, own 1/32 interest in the oil, gas and minerals in the subject tract.

ADJACENT SURFACE OWNERS

The tract is bounded as follows:

N - W. Va. Pulp and Paper Co.
Glen W. Roberts and Union National Bank
Thelma Edwards and Paul Strickling

W - J. J. Kelly

S - Edgar Roberts
William D. Griffin
Helen and Clendon Philips

E - Russell and Paul Cline
Howard and Anna Starcher
Lois and Harold Williams

RIGHTS OF WAY

There appears of record the usual and customary rights of way for utility purposes and numerous rights of way for pipeline purposes and also to roadway rights of way of record.

OIL AND GAS LEASES

a. Subject lease. Certain lease for oil and gas purposes from Florence M. Anderson, widow, Ann Stiernberg Stone, Rollins M. Koppel, Dannie A. Carter, Independent Executrix of Estate of Claude E. Carter, Deceased, Ruth Skaggs, Independent Executrix of Estate of Jack Skaggs, Deceased, to Lee A. Brown, dated May 1, 1982, leasing a tract of 545 acres for a primary term of three years, recorded in Deed Book 165, at page 175.

By Assignment dated May 21, 1982, Lee A. Brown assigned his interest in the subject lease unto W. R. Development Company by Assignment recorded in Deed Book 165, at page 178. This lease contains the following language:

AFFIDAVIT OF ROYALTY PAYMENT

LEASE NAME: CAIRO OIL
MINERAL OWNER: CAIRO OIL
WELL NAME: CAIRO OIL # 1

I, C. JO MCCRADY (the above designated owner or operator, or authorized representative thereof) hereby verifies that the owner or owners of the mineral estate upon which this proposed well is to be located will receive minimum one-eighth (1/8) royalty payments for any gas or oil extracted therefrom. Copies of the 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, co-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.

Signed: C. J. McCrady
(Owner, Operator, or Authorized Rep.)

Notary: Bruce E. Doak (Signed)
My Commission expires JUNE 3, 1991

THIS ASSIGNMENT, Made this 21st day of May, 1982, by and between W. R. DEVELOPMENT COMPANY, a corporation, party of the first part, and OIL DEVELOPMENT COMPANY, a corporation, party of the second part.

W I T N E S S E T H:

That for and in consideration of the sum of Ten (\$10.00) Dollars, cash in hand paid, and other good and valuable considerations, the receipt and sufficiency of all of which is hereby acknowledged, the said party of the first part does hereby sell, transfer, grant, convey, and assign unto the said party of the second part, subject to the exceptions and reservations hereinafter set out, all those certain oil and gas leases and oil and gas leasehold estates created hereby, situate in Burning Springs District of Wirt County, West Virginia and more particularly identified and described as follows:

BEGINNING at a white oak and pointers, a corner to the Abner Pepper land; thence with said Pepper land North 3 W. 214 poles to a white oak another corner of said Pepper land, also a corner in the line described in a Commissioner's deed made by Peter G. VanWinkle, Commissioner of forfeited and escheated land, to Henry Moore, bearing date on Nov. 25, 1846, recorded in Deed Book 14, Page 114, and 115, of the land records of Wirt County; thence North 87 E. 434 poles to pointers in the line of land claimed by A. A. Haught and C. W. Kemp; thence with the line of land claimed by A.A. Haught and C. W. Kemp S. 10' W. 220 poles to stake and pointers; thence S. 87 W. 384 poles to the place of beginning, containing 545 acres, more or less.

There is excepted and reserved for the benefit of the party of the first part, an overriding royalty of one-sixteenth (1/16) of all oil, gas and other petroleum hydrocarbons produced, saved and marketed from all formations underlying the said tract.

The party of the second part covenants and agrees to commence operation for the drilling of two separate wells upon the subject tract within one (1) year from the date of this Assignment

RECEIVED

01/12/2024

DEC - 1 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

1164 - 983

and to pursue the drilling of said wells diligently to completion; that operations for the drilling of the first of these two (2) wells shall commence on or before 210 days from the date of this Assignment; that the party of the second part further covenants and agrees to commence operations for the drilling of two additional wells upon the subject tract within the primary term of this leasehold, that being three (3) years; this making a total of at least four (4) wells to be commenced within the said three (3) year primary term.

This assignment is made subject to that certain agreement between the parties hereto, bearing even date herewith.

This assignment is further made subject to all the terms and conditions of the original leasehold agreements and assignments occurring in the Chain of Title.

WITNESS the following signatures:

W. R. DEVELOPMENT COMPANY

BY Stephen D. Ward

ITS President

***** ***** ***** ***** *****

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

I, Bruce E. Deach, a Notary Public in the aforesaid County and State, do certify that Stephen D. Ward who signed the writing hereto annexed bearing date of the 21 day of May, 1982, for W. R. DEVELOPMENT COMPANY has this day in my said County, before me, acknowledged the said writing to be the act and agreement of said Corporation.

Given under my hand this 21 day of May, 1982.

My commission expires: JUNE 3 1991

Bruce E. Deach
Notary Public

01/12/2024

L. David Ward
Attorney at Law
P. O. Box 279
Elizabeth, WV 26143

THIS AGREEMENT, Made this 21st day of May, 1982, by and between W. R. DEVELOPMENT COMPANY, party of the first part, Assignor, and OIL DEVELOPMENT COMPANY, party of the second part, Assignee.

W I T N E S S E T H :

That for and in consideration of the sum of Ten (\$10.00) Dollars and other good and valuable considerations hereinafter set forth, the receipt and sufficiency of all which is hereby acknowledged, and for the mutual covenants and promises hereinafter contained, and the mutuality thereof, the parties hereto, do hereby promise, agree and covenant as follows, to-wit:

1. Assignee shall pay unto the Assignor the sum of \$135.00 for each acre of land in that certain leasehold created by that certain assignment from Lee A. Brown to the Assignor herein, being 545 acres, more or less. If upon proper survey of the premises by a duly licensed surveyor for and in the State of West Virginia, it be found that the above described tract contains less than 545 acres, the Assignor hereby agrees to refund such proportionate amount of said consideration as may be required by such difference. Furthermore, if it should be found that the subject tract should contain more than 545 acres, the Assignee hereby agrees to pay such proportionate amount as additional consideration as may be required by such difference.

2. It is understood and agreed that two of the four wells to be drilled by the Assignee or their successors in title shall be completed to a depth sufficient to test at least the uppermost one thousand (1,000) feet of the Devonian Shale formations, unless such well shall encounter natural oil or gas production at a shallower depth in such quantity as to render further drilling of this well to greater depth unsafe. Such wells shall be located in such a manner that at least two other accessible well sites fifteen hundred (1500) feet or more from the said wells remain on the subject tract.

RECEIVED
NOV 10 1982

01/12/2024

OIL & GAS DIVISION
DEPT. OF MINES

164-124

3. All rentals, bonuses, and royalties due to be paid hereafter under the assigned lease or any other leases of the subject tract shall be paid by assignee on or before the due date, with notice to assignor of such payment to be made within ten days thereof.

Assignor shall be furnished with copies of all plats, permits, logs and well reports of wells on the subject tract and shall receive complete production records on such wells, within thirty (30) days after such logs, plats, permits, well reports, and records become available to assignee or are prepared thereby. All payments hereunder shall be made, and all notices and information hereunder shall be sent to W. R. Development Company, 422 Court Street, Elizabeth, West Virginia, 26143, or to such other party or parties as the Assignor or their successors in title shall from time to time designate.

Assignor furthermore reserves the right to enter upon and inspect, through its officers and authorized representatives, all oil and gas drill sites and other operations of assignee upon the subject tract.

4. Assignor agrees to give to the Assignee the right of first option to purchase by Assignment from the Assignor, that certain tract of land lying and situate in Grant District of Ritchie County, West Virginia, containing 351 acres, more or less, under the same terms and conditions as the said 545 acre tract was conveyed by the Assignor to the Assignee. Such option must be exercised within 10 days of written notification that the said Assignor is in position to assign the same.

5. The Assignor further agrees that should the leasehold created by the assignment between the parties hereto concerning the said 545 acre tract, prove to be defective upon proper certification by a duly licensed and practicing attorney from the State of West Virginia, and that the Assignee cannot without unreasonable expense cure such defect, then the Assignor hereby

01/12/2024

B-1



IV-35
(Rev 8-81)

Date March 23, 1983
Operator's WELL No. Cairo Oil # 1
Farm Cairo Oil
API No. 47 - 105 - 1030

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 xx / Liquid Injection / Waste Disposal /
(If "Gas," Production xx / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1119 Watershed Straight Fork Creek
District: Burning Springs County Wirt Quadrangle Macfarlan

COMPANY Alan Gable Oil Development Co.
ADDRESS P O Box 166, Davisville, WV 26142
DESIGNATED AGENT Ron Kudella
ADDRESS P O Box 166, Davisville, WV 26142
SURFACE OWNER Cairo Oil Company
ADDRESS Cairo, WV 26337
MINERAL RIGHTS OWNER same as surface
ADDRESS same
OIL AND GAS INSPECTOR FOR THIS WORK Deo Mace ADDRESS Sandridge, WV
PERMIT ISSUED # 1030
DRILLING COMMENCED March 2, 1983
DRILLING COMPLETED March 16, 1983
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 3/8	45'	
13-10"			
9 5/8			
8 5/8	8 5/8	1374	
7			
5 1/2			
4 1/2	4 1/2	5630'	
3			
2			
Liners used		APR 4 - 1983	
		OIL AND GAS DIVISION WV DEPARTMENT OF MINES	

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5800 feet
Depth of completed well 5700 feet Rotary xx / Cable Tools
Water strata depth: Fresh 167 feet; Salt 542 feet
Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Bradford, Balltown, Speechley Pay zone depth 3228-4092 feet
Gas: Initial open flow 1.8 Mcf/d Oil: Initial open flow 0 Bbl/d
Final open flow 1.7 Mcf/d Oil: Final open flow 2 Bbl/d
Time of open flow between initial and final tests 72 hours
Static rock pressure 1428 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Devonian Shale Pay zone depth 4462-5560 feet
Gas: Initial open flow AA Mcf/d Oil: Initial open flow AA 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 1030

B-2

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

5556-60	4 holes	4094-96	3 holes	
5067-69	5	3872-92	10	
4976-80	4	3806-20	9	
4828-32	4	3730-3766	13	1.5 MMCF N2
4571-78	7	3386-89	2	
4462-69	8	3328-30	2 holes	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
3rd Salt			1820	1880	
Maxon			1958	1985	
Big Lime			1989	2075	
Keener			2078	2109	
Big Injun			2110	2176	
Squaw			2190	2206	
Weir			2369	2444	
Berea			2574	2580	
Gantz			2668	2682	
Gordon			2940	2950	
Upper Speechley			3396	3483	
Balltown			3804	3841	
Bradford			3890	3944	
Riley					
Benson			4515	4576	
Alexander			4750	4830	
Elk			5062	5076	
Rhinestreet			5360	TD	

(Attach separate sheets as necessary)

Alan Gable Oil Development Co.

Well Operator

By: Ron Kudella

Date: March 28, 1983

01/12/2024

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."

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. 105-1030

Oil or Gas Well _____
(KIND)

Company BTL Oil
 Address _____
 Farm Cairo Oil Co
 Well No. 1
 District Bunny Spring County Coal
 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 _____

Remarks: Not Started.

12-30-82
DATE

W. Mace 01/12/2024
DISTRICT WELL INSPECTOR

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		
CEMENT-THICKNESS	PLUGS USED AND DEPTH PLACED		LEAD	CONSTRUCTION-LOCATION	CASING AND TUBING		
	WOOD-SIZE				RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

01/12/2024
DISTRICT WELL INSPECTOR

B-4

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

RECEIVED

MAR 02 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1030

Oil or Gas Well _____
(KIND)

Company B + L OIL CO

Address _____

Farm Cahoon Oil Co

Well No. 1

District Burnington Spring 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 _____

Remarks: Working on road to location

2-21-83
DATE

Wes/Maco
01/12/2024
DISTRICT WELL INSPECTOR

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	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: _____

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

01/12/2024

DISTRICT WELL INSPECTOR

B-5

RECEIVED

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

MAR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1030

Oil or Gas Well _____
(KIND)

Company BTL Oil
 Address _____
 Farm Cairo O & G
 Well No. 1
 District Burns Sp. 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
 Salt water _____ 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 Oil Development #

Remarks: Bigging up.

2-28-83
DATE

W. S. Mace
DISTRICT WELL INSPECTOR

01/12/2024

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	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: _____

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

DATE

_____ 01/12/2024
 DISTRICT WELL INSPECTOR

B-6

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

RECEIVED

MAR 8 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 105-1030

Oil or Gas Well _____
(KIND)

Company <u>B+L Oil</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Cano O & G</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			
District <u>Bunny Sp.</u> County <u>Wirt</u>	10			Size of _____
Drilling commenced _____	8 1/4			
Drilling completed _____ Total depth _____	6 3/8			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 Oil Development # 21

Remarks:
1345' of 8 5/8" casing to be set tonight, Western will cement.
Hole casing, cannot get drill pipe out 11:PM

3-5-83 DATE
Des Mace DISTRICT WELL INSPECTOR

01/12/2024

3-24-83 DATE
Des Mace DISTRICT WELL INSPECTOR

Form 26
2/16/82

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

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	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:

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

DATE

01/12/2024

DISTRICT WELL INSPECTOR

B-8

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. 105-1030

Oil or Gas Well _____
(KIND)

Company Alan Gable
 Address _____
 Farm Cairo Oil
 Well No. #1
 District B S 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 _____

Remarks:
Location graded & seeded - no timber saved
no ID

9-9-83
DATE

D. Co. M...
DISTRICT WELL INSPECTOR

01/12/2024

FERC-121

1.0 API well number: (If not available, leave blank. 14 digits.)	47 - 105 - 1030												
2.0 Type of determination being sought: (Use the codes found on the front of this form.)	Ferc 121 Section of NGPA												
3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.)	5700 feet												
4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.)	Alan Gable Oil Development Co. OIL & GAS DIVISION Name P O Box 166 DEPT. OF MINES Street Davisville, WV 26142 City State Zip Code												
5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.)	Field Name Wirt 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.)	Cairo Oil # 1												
(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.)	Consolidated Gas 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.)	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:25%;">(a) Base Price (\$/MMBTU)</th> <th style="width:25%;">(b) Tax</th> <th style="width:25%;">(c) All Other Prices [Indicate (+) or (-).]</th> <th style="width:25%;">(d) Total of (a), (b) and (c)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>	(a) Base Price (\$/MMBTU)	(b) Tax	(c) All Other Prices [Indicate (+) or (-).]	(d) Total of (a), (b) and (c)	---	---	---	---	---	---	---	---
(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.)	<table border="1" style="width:100%; border-collapse: collapse;"> <tbody> <tr> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> <td style="text-align: center;">---</td> </tr> </tbody> </table>	---	---	---	---								
---	---	---	---										
9.0 Person responsible for this application:	Ronald Rudella Designated Agent Name Title Signature July 12, 1983 Date Application is Completed 304-424-5220 Phone Number												

RECEIVED
 103
 Category Code

AUG 24 1983

OIL & GAS DIVISION
 DEPT. OF MINES

01/12/2024

McFarlane

NOV 18 1983

PARTICIPANTS:

DATE:

BUYER-SELLER CODE

WELL OPERATOR: Alan Gable Oil Development Co.

FIRST PURCHASER: Consolidated Gas

OTHER:

-

004228

1500' ok

~~*22485 Well log incomplete (Sart - 1820)~~
~~*22485 No completion report~~
~~* No BHP~~

W. Va. Department of Mines, Oil & Gas Division
WELL DETERMINATION FILE NUMBER
830824-103-105 = 1030
Use Above File Number on all Communications
Relating to Determination of this Well

APPROVED

APR -3 1984

CHECK EACH ITEM AS COMPLETE OR NOTE WHAT IS MISSING

ITEM NO.

- 1. FERC -121 Items not completed - Line No. All 7.0 + 8.0
- 2. IV-1 Agent Ronald Kudella
- 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: 3-2-83 Date completed 3-16-83 Deepened ---
- (5) Production Depth: 3872-92, 3806-80, 3328-89, 4462-5
- (5) Production Formation: Bradford, Balltown, Speechley, Devonian
- (5) Final Open Flow: 1.7 MCF
- (5) After Frac. R. P. 1428# 24hrs.
- (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
- (5) Oil Production: --- From Completion Report ---
- 10-17. Does lease inventory indicate enhanced recovery being done NO
- 10-17. Is affidavit signed? Notarized?
- Does official well record with the Department confirm the submitted information? yes 01/12/2024
- Additional information --- Does computer program confirm? ---
- Was Determination Objected to --- By Whom? ---

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

Date July 12 1983

Operator's Well No. Cairo Oil # 1
API Well No. 105 1030
State 105 County 1030
Previous File No. _____
(If Applicable)

STATE APPLICATION FOR WELL CLASSIFICATION

WELL OPERATOR Alan Gable Oil Development Co.

DESIGNATED AGENT Ronald Kudella

ADDRESS P O Box 166
Davisville, WV 26142

ADDRESS P O Box 166
Davisville, WV 26142

Purchase Contract No. _____ and Date _____
(Month, day and year)

Name of First Purchaser Consolidated Gas
P O Box 2450
(Street or P. O. Box) Clarksburg, WV 26301
(City) (State) (Zip Code)

RC Seller Code _____ FERC Buyer Code _____

TYPE OF DETERMINATION BEING SOUGHT:

- (1) Initial determination (See FERC Form 121.) Ferc 121 103
Section of NGPA Category Code
- (2) Determination that increased production is the result of enhanced recovery technology.
- (3) Determination of a seasonally affected well.

Ronald Kudella Designated Agent
Name (Print) Title
[Signature]
Signature
P O Box 166
Street or P. O. Box
Davisville, WV 26142
City State (Zip Code)
(304) 424-5220
Area Code Phone Number

(Certificate of Proof of Service to Purchaser)

of the above to be completed by the Operator/Applicant)

completed by Jurisdictional Agency. Executed copy to be returned to Operator/Applicant and
ser, if known).

The Department of Mines has received a request for certification of the above described well meeting the requirements of Section _____ under the Natural Gas Policy Act of 1975, or for determination that increased production is the result of enhanced recovery technology, or Section 106 of (NGPA); or for determination of a seasonally affected well under Section _____.

All interested parties are hereby notified that on the _____ day of _____, 19____ at _____ of the Oil and Gas Division in Charleston, West Virginia, or as soon thereafter as it may be determined 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 _____ to certification as claimed under the Natural Gas Policy Act (NGPA). A review of this evidence and additional evidence will be made at the time appointed for a public hearing or as soon thereafter as a hearing may be held.

Unless objections are timely filed or a request for a hearing is made within fifteen days after the date of the public hearing, a hearing will not be held except on ex parte motion of the department and the matter will be determined.

WEST VIRGINIA DEPARTMENT OF MINES

AUG 24 1983

By _____
Title _____

By *[Signature]*
Title _____

01/12/2024

01/12/2024

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

Date July 12 1983

Operator's Well No. Cairo Oil # 1

API Well No. 47 - 105 - 1030
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT Ronald Kudella

ADDRESS P O Box 166
Davisville, WV 26142

WELL OPERATOR Alan Gable Oil Development Co
ADDRESS P O Box 166
Davisville, WV 26142

LOCATION: Elevation 1119'
Watershed Straight Fork Creek
Dist. Burning Springs Wirt Quad. Macfarlan

GAS PURCHASER Consolidated Gas
ADDRESS P O Box 2450
Clarksburg, WV 26301

Gas Purchase Contract No. _____
Meter Chart Code _____
Date of Contract _____

* * * * *

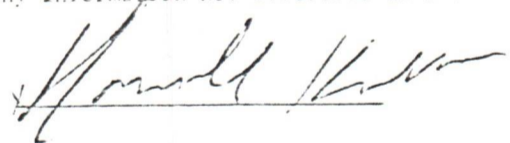
Date surface drilling was begun: March 2, 1983

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

$$BHP = P_1 + P_2 (e^x - 1)$$
$$BHP = 1428 + 1428 (e^x - 1)$$
$$BHP = 1510 \text{ psig}$$

AFFIDAVIT

I, Ronald Kudella, 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.



STATE OF WEST VIRGINIA.

COUNTY OF Wirt, TO WIT:

I, C. Jo McCrady, a Notary Public in and for the state and county aforesaid, do certify that Ronald Kudella, whose name is signed to the writing above, bearing date the 12 day of July, 19 83 has acknowledged the same before me, in my county aforesaid. Given under my hand and official seal this 12 day of July, 19 83. My term of office expires on the 5 day of July, 19 89.

[NOTARIAL SEAL]


Notary Public

01/12/2024



DATE September 10, 1982

WELL NO. Cairo Oil # 1

State of West Virginia

API NO. 47 - 105 - 1030

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME B & L OIL CO.
Address 1420 7th st. PARKERSBURG, WV
26101
Telephone 304-424-5220

DESIGNATED AGENT C. JO MCCRADY
Address 1420 7th st, PARKERSBURG, WV
26101
Telephone 304-424-5220

LANDOWNER Cairo Oil Company
Revegetation to be carried out by C. JO MCCRADY

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: 9-16-82

(Date)
Jarrett Newlan
(SCD Agent)

ACCESS ROAD	
Structure <u>Cross Drains</u>	(A)
Spacing <u>250' on slope of 2%</u>	
Page Ref. Manual <u>2-4</u>	
Structure <u>Open Drain</u>	(B)
Spacing _____	
Page Ref. Manual <u>2-12</u>	
Structure <u>None Needed</u>	(C)
Spacing _____	
Page Ref. Manual _____	

LOCATION	
Structure <u>Diversion Ditch</u>	(1)
Material <u>Soil</u>	
Page Ref. Manual <u>2-12</u>	
Structure _____	(2)
Material _____	
Page Ref. Manual _____	
Structure _____	(3)
Material _____	
Page Ref. Manual _____	

RECEIVED
NOV 10 1982
OIL & GAS DIVISION
DEPT. OF MINES

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 _____ Tons/acre
or correct to pH 6.5

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

Mulch hay or straw 1.5 Tons/acre

Seed* KY 31 40 lbs/acre
REDTOP 5 lbs/acre
LADINO CLOVER 3 lbs/acre

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5

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

Mulch hay or straw 1.5 Tons/acre

Seed* KY 31 40 lbs/acre
REDTOP 5 lbs/acre
LADINO CLOVER 3 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount. 01/12/2024

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

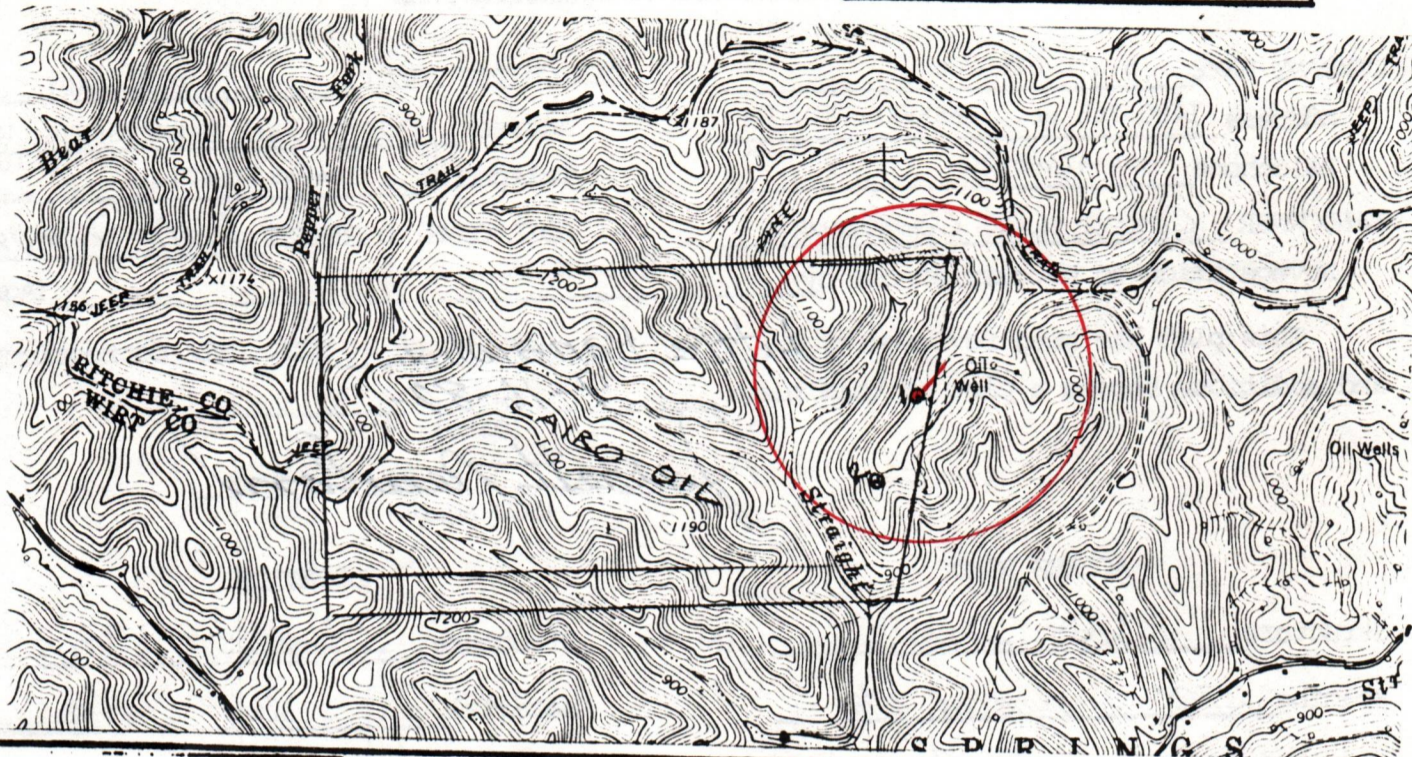
PLAN PREPARED BY NEAL HUGHES
ADDRESS RT 1 BOX 2
BEREA, WV 26327
PHONE NO. 304-659-2378

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE Macfarlan (7.5°)

LEGEND

Well Site ⊕

Access Road ———



LEGEND

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

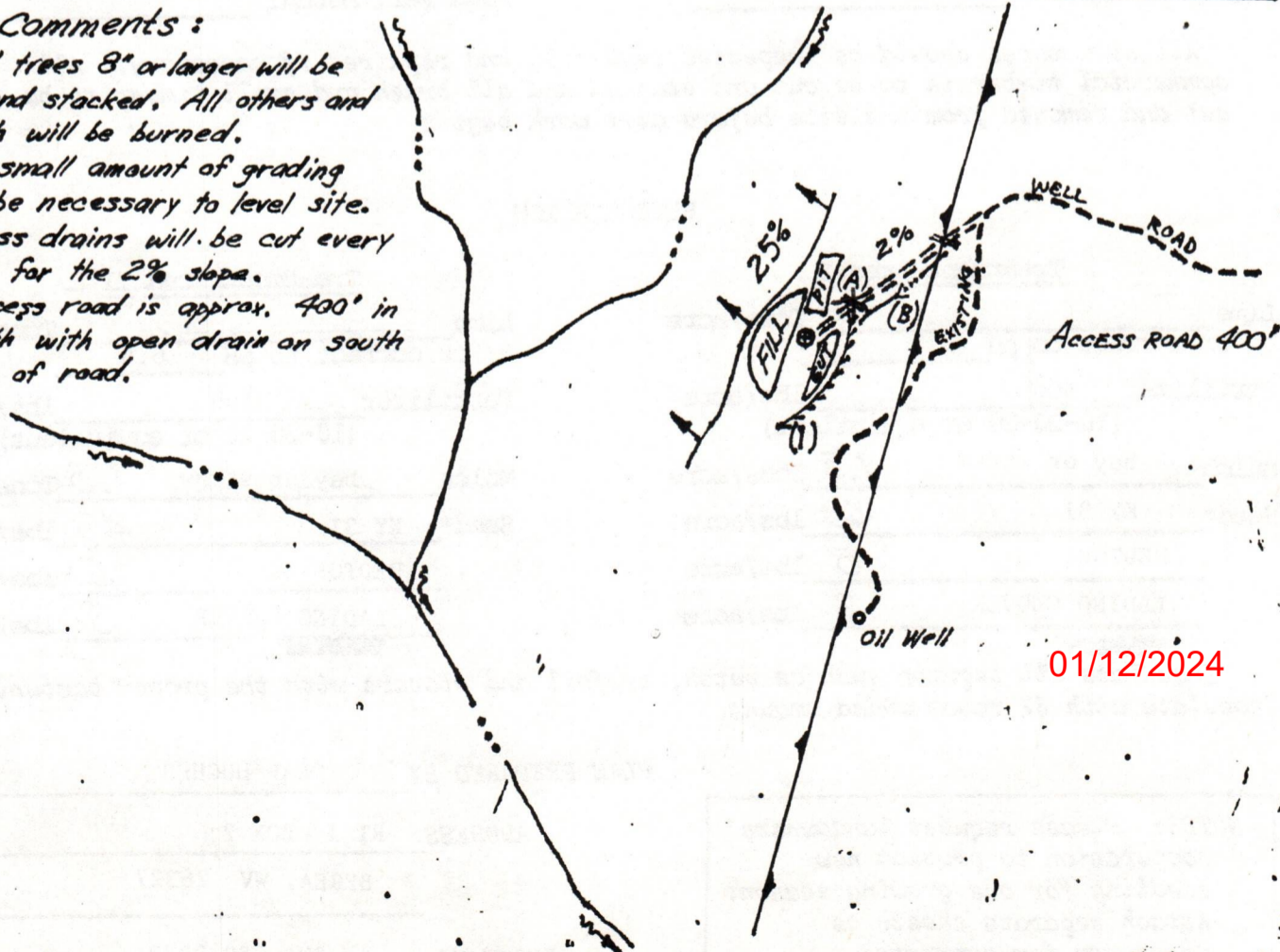
Comments :

All trees 8" or larger will be cut and stacked. All others and brush will be burned.

A small amount of grading will be necessary to level site.

Cross drains will be cut every 250' for the 2% slope.

Access road is approx. 400' in length with open drain on south edge of road.



01/12/2024

B & L OIL COMPANY



1420 Seventh Street
Parkersburg, WV 26101
(304) 424-5220

CAIRO OIL WIRT CO. BURNING SPRINGS DIST.

ROYALTY PROVISIONS

Milburn E. Anderson and his heirs receives $9/10$ of $15/16$ of $1/8$ R.I.

Ann Stiernberg and her heirs receives 2.662 % of $1/8$ R.I.

Lloyd L. Stiernberg and his heirs receives 26.22 % of $1/10$ of
 $15/16$ of $1/8$ R.I. less the 2.662 % to Ann

Claude L. Carter and his heirs receives 26.22% of $1/10$ of $15/16$
of $1/8$ R.I.

Jack Skaggs and his heirs receives 26.22% of $1/10$ of $15/16$ of
 $1/8$ R.I.

Rollins M. Koppel and his heirs receives 21.34% of $1/10$ of $15/16$
of $1/8$ R.I.

Herbert Scoville, Jr. and his heirs receives $1/32$ of $1/8$ R.I.

Orlena Firuski Gignoux and her heirs receives $1/32$ of $1/8$ R.I.

W.R. DEVELOPMENT COMPANY receives $1/16$ overriding interest

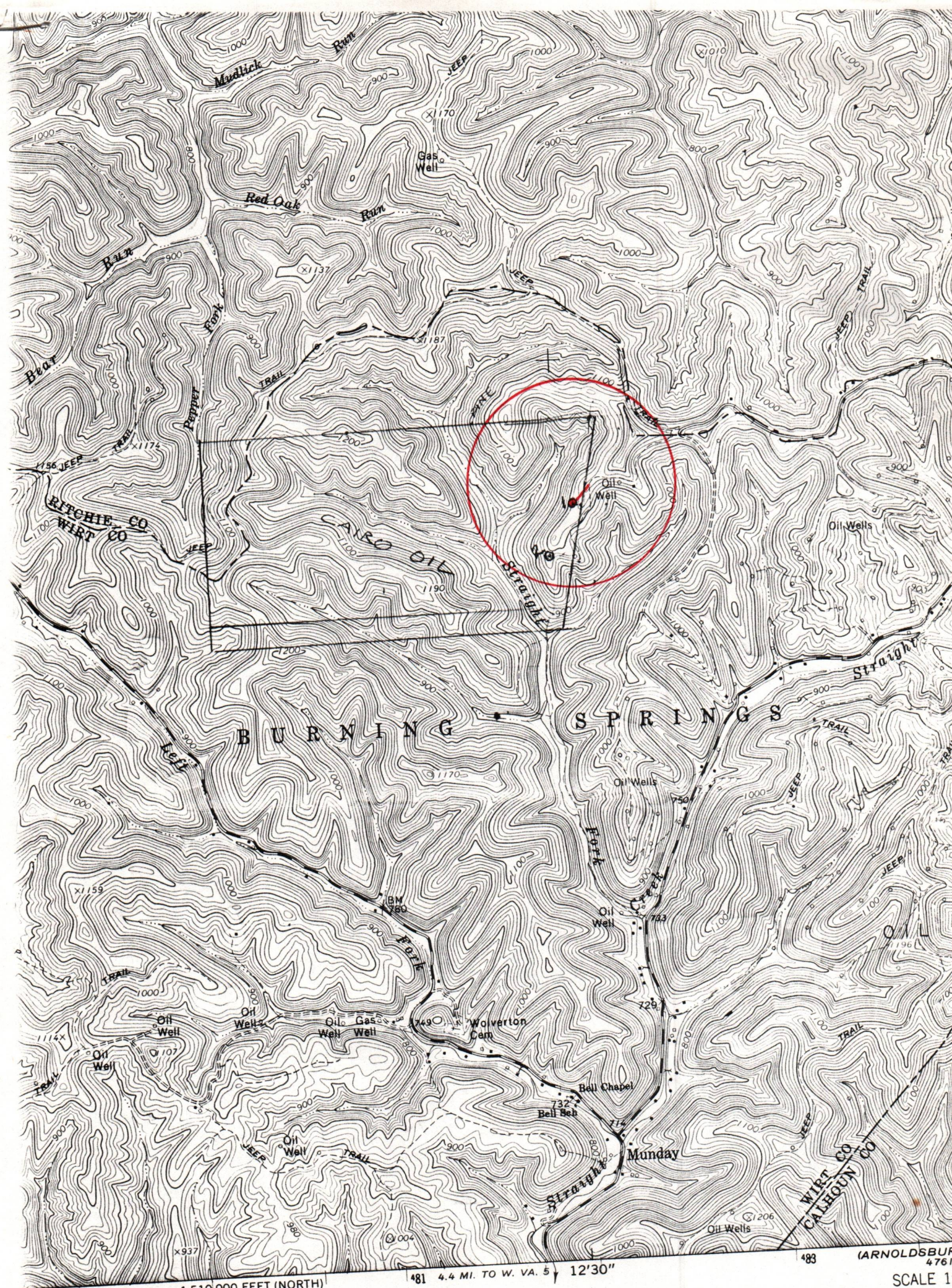
B & L OIL CO. DBA Oil Development Co. receives remaining W.I.

RECEIVED

DEC - 1 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

01/12/2024

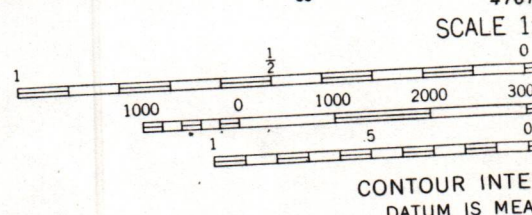
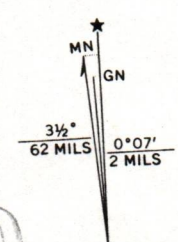


and published by the Geological Survey
 SC&GS, and USCE
 grammetric methods from aerial
 962. Field checked 1964
 1927 North American datum
 used on West Virginia coordinate system, north
 al Transverse Mercator grid ticks,
 alue

RECEIVED
 NOV 10 1982

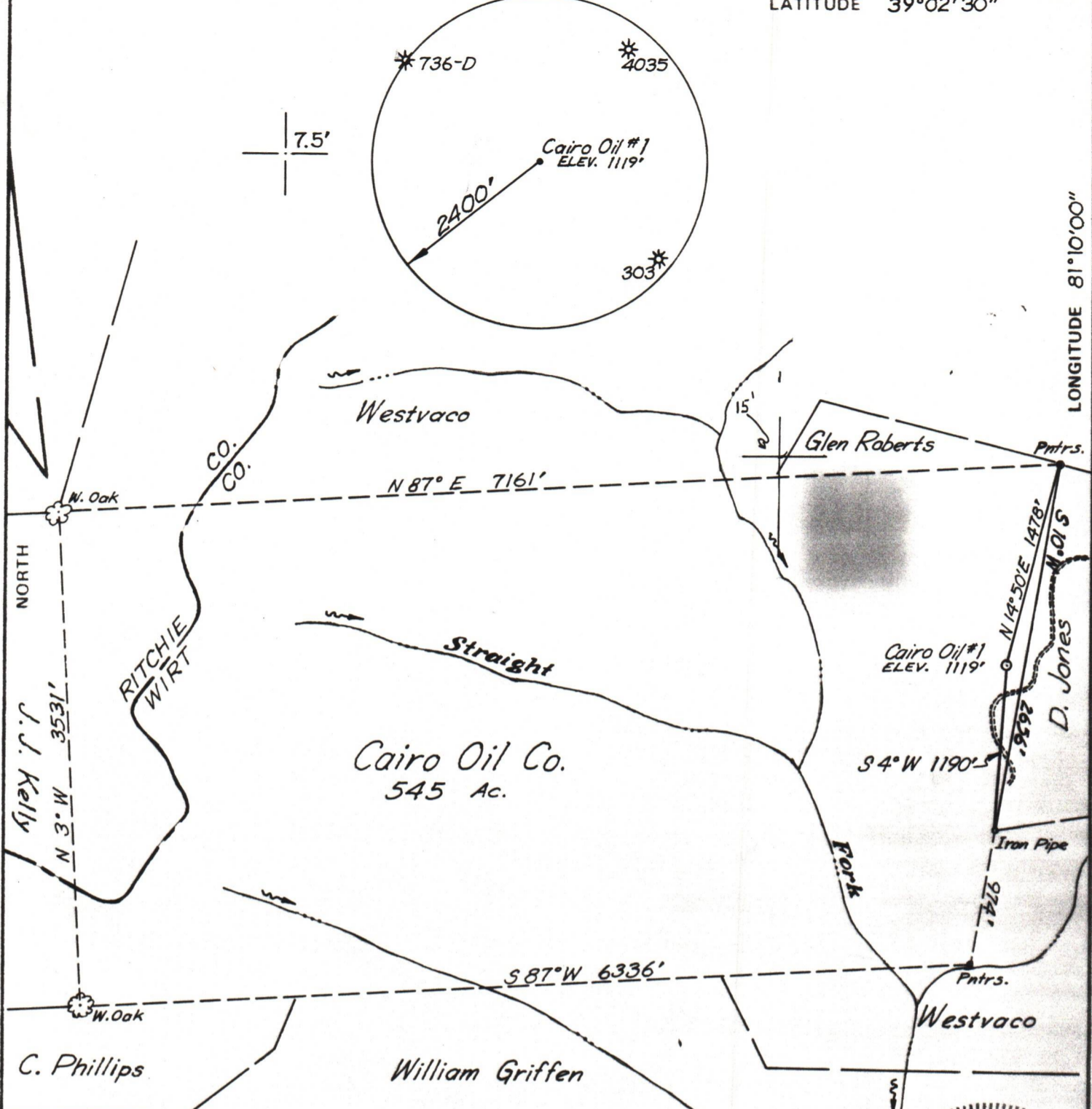
OIL & GAS DIVISION
 DEPT. OF MINES

UTM GRID AND 1964 MAGNETIC NORTH
 DECLINATION AT CENTER OF SHEET



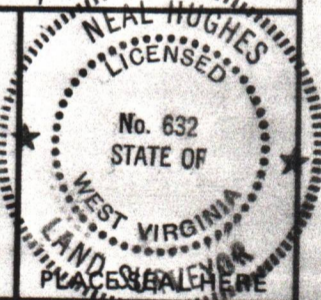
01/12/2024

THIS MAP COMPLIES WITH NATIONAL
 FOR SALE BY U.S. GEOLOGICAL
 A FOLDER DESCRIBING TOPOGRAPHIC MAP



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION ROAD INTERSECT. 941'

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. *Neal Hughes*
 (SIGNED) Neal Hughes
 R.P.E. _____ L.L.S. 632



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE SEPTEMBER 8, 19 82
 OPERATOR'S WELL NO. CAIRO OIL #1
 API WELL NO. _____
47 - 105 - 1030
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 1119' WATER SHED STRAIGHT FORK CREEK
 DISTRICT BURNING SPRINGS COUNTY WIRT
 QUADRANGLE MACFARLAN (7.5')
 SURFACE OWNER CAIRO OIL COMPANY ACREAGE 545
 OIL & GAS ROYALTY OWNER CAIRO OIL COMPANY LEASE ACREAGE 545
 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 MARCELLUS SHALE ESTIMATED DEPTH 5800'
 WELL OPERATOR B+L OIL COMPANY DESIGNATED AGENT C. JO MCCRADY
 ADDRESS 1420 7TH STREET ADDRESS 1420 7TH STREET
PARKERSBURG, W.VA. 26101 PARKERSBURG, W.VA. 26101

01/12/2024



IV-35
(Rev 8-81)

Date March 23, 1983
Operator's
Well No. Cairo Oil # 1
Farm Cairo Oil
API No. 47 - 105 - 1030

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 xx / Liquid Injection / Waste Disposal /
(If "Gas," Production xx / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 1119 Watershed Straight Fork Creek
District: Burning Springs County Wirt Quadrangle Macfarlan

COMPANY Alan Gable Oil Development Co.

ADDRESS P O Box 166, Davisville, WV 26142

DESIGNATED AGENT Ron Kudella

ADDRESS P O Box 166, Davisville, WV 26142

SURFACE OWNER Cairo Oil Company

ADDRESS Cairo, WV 26337

MINERAL RIGHTS OWNER same as surface

ADDRESS same

OIL AND GAS INSPECTOR FOR THIS WORK

Deo Mace ADDRESS Sandridge, WV

PERMIT ISSUED # 1030

DRILLING COMMENCED March 2, 1983

DRILLING COMPLETED March 16, 1983

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 3/8	45'	
13-10"			
9 5/8			
8 5/8	8 5/8	1374	
7			
5 1/2			
4 1/2	4 1/2	5630'	
3			
2			
Liners used		APR 4 - 1983	
		OIL AND GAS DIVISION WV DEPARTMENT OF MINES	

GEOLOGICAL TARGET FORMATION Marcellus Shale Depth 5800 feet

Depth of completed well 5700 feet Rotary xx / Cable Tools

Water strata depth: Fresh 167 feet; Salt 542 feet

Coal seam depths: n/a Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Bradford, Balltown, Speechley Pay zone depth 3228-4092 feet

Gas: Initial open flow 1.8 Mcf/d Oil: Initial open flow 0 Bbl/d

Final open flow 1.7 Mcf/d Final open flow 2 Bbl/d

Time of open flow between initial and final tests 72 hours

Static rock pressure 1428 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Devonian Shale Pay zone depth 4462-5560 feet

Gas: Initial open flow AA Mcf/d Oil: Initial open flow AA 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.

5556-60	4 holes	4094-96	3 holes	
5067-69	5	3872-92	10	
4976-80	4	3806-20	9	
4828-32	4	3730-3766	13	1.5 MMCF N2
4571-78	7	3386-89	2	
4462-69	8	3328-30	2 holes	

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
3rd Salt			1820	1880	
Maxon			1958	1985	
Big Lime			1989	2075	
Keener			2078	2109	
Big Injun			2110	2176	
Squaw			2190	2206	
Weir			2369	2444	
Berea			2574	2580	
Gantz			2668	2682	
Gordon			2940	2950	
Upper Speechley			3396	3483	
Balltown			3804	3841	
Bradford			3890	3944	
Riley					
Benson			4515	4576	
Alexander			4750	4830	
Elk			5062	5076	
Rhinestreet			5360	TD	

(Attach separate sheets as necessary)

Alan Gable Oil Development Co.

Well Operator

By: Ron Kudella

01/12/2024

Date: March 28, 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."