



1) Date: 4/5, 19 83
 2) Operator's Well No. Emma Francis # 2
 3) API Well No. 47 013 1874 -FRAC
 State County Permit

DRILLING CONTRACTOR:

Francis Cain
Big Bend, WV 26136

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

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow)
- 5) LOCATION: Elevation: 925 Watershed: Laurel Creek
 District: Sherman County: Calhoun Quadrangle: Grantsville
- 6) WELL OPERATOR Smith & Barker Oil & Gas 11) DESIGNATED AGENT Walter E. Smith
 Address P. O. Box 244 Address P. O. Box 244
Grantsville, WV 26147 Grantsville, WV 26147
- 7) OIL & GAS ROYALTY OWNER Hall Francis & Etal 12) COAL OPERATOR No Coal
 Address Five Forks, WV Address _____
- 8) SURFACE OWNER John Stump 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Grantsville, WV Name _____
 Address _____
 Acreage 113 Name _____
 Address _____
- 9) FIELD SALE (IF MADE) TO: Consolidated Gas Corp. 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Address Clarksburg, WV Address _____
Pennzoil, Houston, Texas Name _____
 Address _____
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Deo Mace Address _____
 Address Sand Ridge, WV Address _____
- 15) PROPOSED WORK: Drill _____ / Drill deeper _____ / Redrill _____ / Fracture or stimulate
 Plug off old formation _____ / Perforate new formation _____
 Other physical change in well (specify) _____
- 16) GEOLOGICAL TARGET FORMATION, Big Injun
- 17) Estimated depth of completed well, 2035 feet
- 18) Approximate water strata depths: Fresh, none feet; salt, none feet.
- 19) Approximate coal seam depths: none Is coal being mined in the area? Yes _____ / No

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									Kinds
Fresh water									
Coal									Sizes
Intermediate									
Production	<u>5 1/2"</u>	<u>J55</u>	<u>14#</u>	<input checked="" type="checkbox"/>			<u>1978'</u>	<u>(V. 1959)</u> <u>100 SACKS</u>	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: Evelyn M. York
 My Commission Expires Sept. 26, 1987

Signed: [Signature]
 Its: Designated Agent

OFFICE USE ONLY

Permit number 47-013-1874-FRAC **DRILLING PERMIT** Date May 25 12/01/2023 ⁸³

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 January 25, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: <u>SB</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee
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[Signature]
 Administrator, Office of Oil and Gas

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

Line Item Explanation



- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.
- 24) **The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.**

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ of the coal under this well _____ 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.

12/01/2023

Date: _____, 19____

By _____

Its _____

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



Well No. 2
Farm Emma Francis
API # 47-013-1874
Date 4/5/83

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

LOCATION: Elevation: 825' Watershed: Laurel Creek
District: Sherman County: Calhoun Quadrangle: Arnoldsburg

WELL OPERATOR Smith and Barker Oil & Gas Co. DESIGNATED AGENT Walter E. Smith
Address P.O. Box 405 Address P.O. Box 244
Grantsville, WV 26147 Grantsville, WV 26147

OIL AND GAS ROYALTY OWNER Hall Francis et al COAL OPERATOR No Coal
Address Five Forks, WV Address _____

Acreage 113

SURFACE OWNER John Stump COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Grantsville, WV 26147 NAME _____
Address _____

Acreage 113

NAME _____
Address _____

FIELD SALE (IF MADE) TO:
NAME Consolidated Gas Supply Corp. - (Gas) COAL LESSEE WITH DECLARATION ON RECORD:
Address Clarksburg, WV 26101 NAME _____
Pennzoil - (Oil) Address _____
Houston, Texas

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Deo Mace
Address Sand Ridge, WV
Telephone 655-7398

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APR 20 1983

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated 12/14/59 to the undersigned well operator from Hope Gas Co.

(If said deed, lease, or other contract has been recorded:)

Recorded on 12/14/59, 19 59, in the office of the Clerk of County Commission of

Calhoun County, West Virginia, in Lease Book at page 480. A permit is requested as follows:

PROPOSED WORK: Drill / Drill Deeper / Redrill / Fracture or stimulate / Plug off old formation / Perforate new formation / Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code §22-4-3 must be filed with the Department of Mines within fifteen (15) days after receipt of this Application by the Dept. 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 lessees on or before the day of the mailing or delivery of this Application to the Department of Mines at Charleston, West Virginia. 12/01/2023

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Smith and Barker Oil & Gas
Well Operator
By: Walter E. Smith
Its: Designated Agent

(Revised 3-81)

PROPOSED WORK ORDER

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

DRILLING CONTRACTOR (IF KNOWN) Francis Cain

Address Big Bend, WV

GEOLOGICAL TARGET FORMATION Big Injun

Estimated depth of completed well 2046' feet. Rotary / Cable tools /

Approximate water strata depths: Fresh, _____ feet; salt, _____ feet.

Approximate coal seam depths: No Coal.

Is coal being mined in this area: Yes / No /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL- UP OR SACKS Cubic ft.	PACKERS Kinds
	Size	Grade	Weight per ft	New	Used	For Drill- ling		
Conductor								
Fresh water								
Coal								Sizes
Intermed.								
Production	5 1/2"	J55	14#	x		1978'		Depths set
Tubing								
Liners								Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code 822-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code 822-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code 822-4-12a, and (v) if applicable, the consent required by Code 822-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

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 822-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

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 regularions.

Date: _____, 19____.

By: _____

Its: _____

12/01/2023



DATE APRIL 8, 1983
WELL NO. #2
API NO. 47-013-1874

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME SMITH & BARKER OIL & GAS DESIGNATED AGENT WALTER SMITH
Address GRANTSVILLE, W.V. Address GRANTSVILLE, W.V.
Telephone 354-6551 Telephone 354-6551
LANDOWNER JOHN STUMP SOIL CONS. DISTRICT LITTLE KANAWHA
Revegetation to be carried out by WALTER SMITH (Agent)

This plan has been reviewed by Little Kanawha SCD. All corrections and additions become a part of this plan: 4-18-83 (Date)

Garrett Newton
(SCD Agent)

ACCESS ROAD

LOCATION

Structure DRAINAGE DITCH (A)
Spacing EARTHEN
Page Ref. Manual 2:9

Structure DIVERSION DITCH (C)
Material EARTHEN
Page Ref. Manual 2-13 2-12

Structure CROSS DRAIN (B)
Spacing EARTHEN
Page Ref. Manual 2:2

Structure RIPRAP
Material ROCK
Page Ref. Manual RECEIVED

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

Structure _____
Material _____
Page Ref. Manual OIL & GAS DIVISION
DEPT. OF MINES

RECEIVED
APR 20 1983
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

Treatment Area II

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 600-800 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 2 Tons/acre
Seed* KY 31 40 lbs/acre
LADINO CLOVER 5 lbs/acre
_____ lbs/acre

Lime _____ Tons/acre
or correct to pH 6.5
Fertilizer 600-800 lbs/acre
(10-20-20 or equivalent)
Mulch HAY 2 Tons/acre
Seed* KY 31 40 lbs/acre
LADINO CLOVER 5 lbs/acre
_____ lbs/acre

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

12/01/2023

PLAN PREPARED BY WALLACE J. BOARD LAND SURVEYOR

ADDRESS 343 MAIN ST.


SPENCER, W.V. 25276

PHONE NO. 927-5730

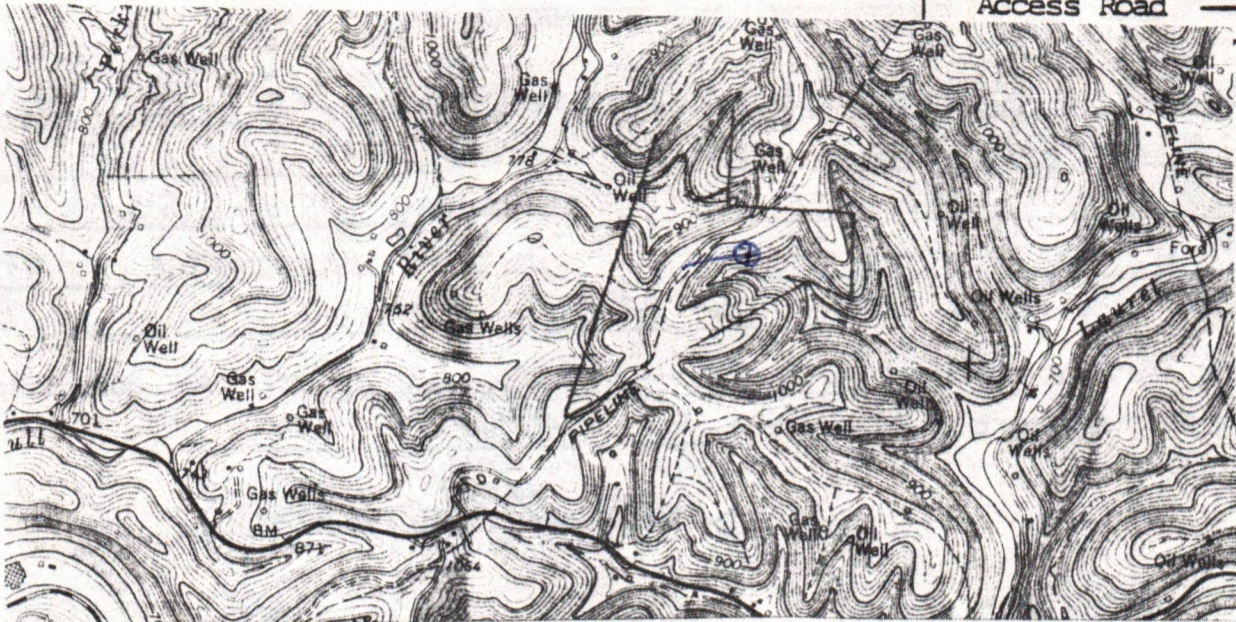
NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

ATTACH OR PHOTOCOPIY SECTION OF
INVOLVED TOPOGRAPHIC MAP.
QUADRANGLE GRANTSVILLE 7.5

LEGEND













Well Site 

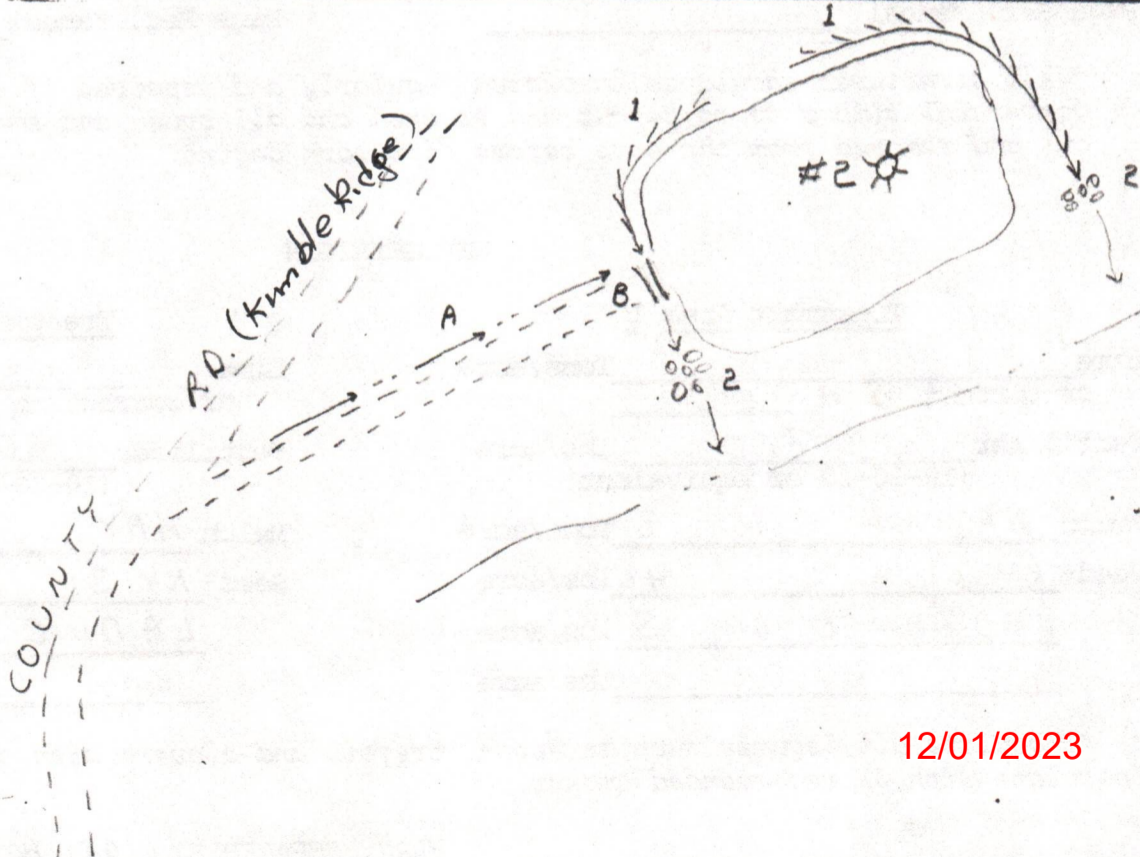
Access Road 



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 	Wet spot 
Planned fence 	Building 
Stream 	Drain pipe 
Open ditch 	Waterway 



12/01/2023

Index 40-1-480
12/14/59

THIS ASSIGNMENT AND AGREEMENT made and entered into the 14th day of December, 1959, by and between HOPE NATURAL GAS COMPANY, a West Virginia corporation, party of the first part, hereinafter referred to as Hope, and SMITH & BARKER OIL & GAS COMPANY, INC., a West Virginia corporation, party of the second part, hereinafter referred to as Smith & Barker.

WITNESSETH: That for and in consideration of the sum of One Dollar (\$1.00) in hand paid to Hope, the receipt of which is hereby acknowledged, and of the covenants and agreements hereinafter set forth, Hope hereby grants, bargains, sells and assigns unto Smith & Barker, subject to the exceptions, reservations, and covenants set out below, all of Hope's right, title and interest in and to the leasehold oil and gas and the oil and gas leasehold estates in and upon certain lands situate in Sherman District, Calhoun County, West Virginia, which said land and leasehold estates are described and set forth in the following oil and gas lease and agreements:

<u>Hope Lease No.</u>	<u>Lessor</u>	<u>Date</u>	<u>Acres</u>	<u>Recorded</u>	
				<u>Book</u>	<u>Page</u>
55606	J. L. Francis, et ux	8/16/1943	113	13-B	94
	J. L. Francis, et ux	5/19/1948		2	4
	J. L. Francis, et ux	6/11/1958		13-D	96

Hope expressly excepts and reserves from the operation hereof all of the leasehold oil and gas in sands and formations below the top of the Onondaga limestone in said lands, together with the oil and gas leasehold estates, rights and privileges therein to produce and market said oil and gas.

481

Smith & Barker covenants and agrees to commence within ninety days from the date of this agreement the drilling of a well for oil or gas on said land and to drill the same to completion with due diligence.

12/01/2023

All wells drilled by Smith & Barker on said lands shall be located more than three hundred feet from adjoining lands on which Hope has oil and gas leases at the time the drilling of such wells may be commenced. The location of each well to be drilled by Smith & Barker on said lands shall be approved by Hope before drilling is started.

Smith & Barker covenant and agree to deliver to the credit of Hope, free of cost, in tanks or pipelines an overriding royalty of one-sixteenth part of all oil produced and saved from said lands, which overriding royalty is in addition to the one-eighth part of the oil to be delivered to the credit of the owners under the terms of the lease on such lands.

Smith & Barker covenant and agree to sell unto Hope all the natural gas that may be produced from sands and formations above the top of the Onondaga limestone in said lands and to deliver such gas into one of Hope's pipelines under a Gas Purchase Contract, similar in terms and provisions to one dated July 28, 1959 (Hope's No. 2046) made between Hope and Smith & Barker.

All wells abandoned by Smith & Barker shall be filled and plugged in the manner required by the laws and regulations of the State of West Virginia. Smith & Barker hereby agrees to indemnify and save Hope harmless from all claims and demands for damages, losses, and payments which may arise out of the improper plugging of such wells or from covenants contained in the oil and gas lease on such lands. Smith & Barker assumes the payment of and agrees with Hope to pay all rentals which shall become due and payable under the terms of the oil and gas leases and all royalties which may become due and payable on the estates hereby assigned. 12/01/2023

Before Smith & Barker abandon any well drilled on said lands, it shall give to Hope thirty days' notice, in writing, of its intention to abandon such well, during which period Hope shall have the right to purchase the well and materials therein together with neces-

sary leasehold operating rights, all for a sum of money equal to the market value of the materials in the well at that time.

In the event either party should desire to surrender such party's interest in the oil and gas leasehold estates in all or any part of said lands, the other party shall join in making a surrender of all leasehold estates therein, or take an assignment, without consideration therefor, of the interest held by the party desiring to make the surrender.

The terms, conditions, and covenants hereof shall extend to and be binding upon the respective successors and assigns of the parties hereto.

IN WITNESS WHEREOF Hope and Smith & Barker have caused their names to be signed and their corporate seals to be affixed by their duly authorized officers, all as of the day and year first above written.

ATTEST:

Claude E. Hardwin Jr.
Assistant Secretary

HOPE NATURAL GAS COMPANY
By J. S. Rhodes
Manager-Land, Lease & Right of Way

ATTEST:

Walter H. Gregory

SMITH & BARKER OIL & GAS COMPANY, INC.
By Walter H. Gregory

STATE OF WEST VIRGINIA
COUNTY OF HARRISON, TO-WIT:

I, Raymond J. Nath, a notary public of said county, do certify that J. G. Rhodes, who signed the writing above, bearing date the 14th day of December, 1959, for Hope Natural Gas Company, a corporation, has this day in my said county, before me, acknowledged the said writing to be the act and deed of said corporation.

Given under my hand this 14th day of December, 1959. 12/01/2023

My commission expires
December 3, 1967

Raymond J. Nath
Notary Public

Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Redrock			598	636			
Sand			636	665			
Lime			665	675			
Redrock			675	698			
Slate			698	756			
Lime			756	778			
Redrock			778	823			
Slate			823	845			
Redrock			845	888			
Lime			888	900			
Slate & Shells			900	971			
Lime			971	980			
Slate			980	1056			
Sand			1056	1122			
Slate			1122	1148			
Sand			1148	1296			
Slate			1296	1315			
Sand			1315	1342			
Lime			1342	1368			
Sand			1368	1400			
Slate			1400	1463			
Lime			1463	1490			
Slate			1490	1576			
Lime			1576	1594			
Slate			1594	1685			
Lime			1685	1711			
Sand			1711	1745			
Slate & Shells			1745	1791			
Lime			1791	1803			
Sand			1803	1818			
Slate			1818	1824			
Red Lime			1824	1833			
Slate			1833	1848			
Lime			1848	1863			
Slate			1863	1886			
Lime			1894	1974			
Sand			1974	2039	0.6G.	1893-97	Show
Slate			2039	2046			
Total Depth				2046			

12/01/2023

Date 12/28/60

APPROVED Emma J. ... #2

By *[Signature]*
(Title)

Date: 11/17/83, 1983

Operator's Well No. 2

API Well No. 47-013-1874
State County Permit

RECEIVED

NOV 21 1983

OIL & GAS DIVISION STATE OF WEST VIRGINIA DEPARTMENT OF MINES, OIL AND GAS DIVISION DEPT. OF MINES

WELL OPERATOR'S REPORT OF INITIAL GAS-OIL RATIO TEST

WELL OPERATOR Smith & Barker Oil & Gas Co. T
Address P.O. Box 405
Grantville, WV 26147

DESIGNATED AGENT Walter E. Smith
Address P.O. Box 405
Grantville, WV 26147

GEOLOGICAL TARGET FORMATION: Big Injun Depth 2035' feet
Perforation Interval None feet

GUIDELINES FOR TESTING:

- 1- A minimum of gas vented or flared
- 2- A 24 hour preflow into pipelines or tanks
- 3- Uniform producing rate during the 24 hour test per test period
- 4- Measurement standards as for Form IV-39, "Report of Annual Production" (see Regulation 51.01)
- 5- Separate Form IV-36 for each producing formation in a multiple completion

TEST DATA				
START OF TEST-DATE	TIME	END OF TEST-DATE	TIME	DURATION OF TEST
<u>11-16-83</u>	<u>9:00 AM</u>	<u>11-17-83</u>	<u>9:00 AM</u>	<u>24 Hrs.</u>
TUBING PRESSURE	CASING PRESSURE	SEPARATOR PRESSURE	SEPARATOR TEMPERATURE	
<u>Pumping Well</u>				
OIL PRODUCTION DURING TEST	GAS PRODUCTION DURING TEST	WATER PRODUCTION DURING TEST & SALINITY		
<u>3</u> bbls.	<u>5</u> Mcf	<u>None</u> bbls. ppm.		
OIL GRAVITY	PRODUCING METHOD (Flowing, pumping, gas lift, etc.)			
<u>47</u> °API	<u>Pumping</u>			

GAS PRODUCTION		
MEASUREMENT METHOD	POSITIVE CHOKE	
FLANGE TAP <input type="checkbox"/>	PIPE TAP <input type="checkbox"/>	L-10 <input type="checkbox"/>
		CRITICAL FLOW PROVER <input type="checkbox"/>
ORIFICE DIAMETER	PIPE DIAMETER (INSIDE DIAM.)	NOMINAL CHOKE SIZE - IN.
DIFFERENTIAL PRESSURE RANGE	MAX. STATIC PRESSURE RANGE	PROVER & ORIFICE DIAM. - IN.
DIFFERENTIAL	STATIC	GAS GRAVITY (Air-1.0)
		MEASURED ESTIMATED
GAS GRAVITY (Air-1.0)	FLOWING TEMPERATURE	GAS TEMPERATURE °F
24 HOUR COEFFICIENT	24 HOUR COEFFICIENT	
	PRESSURE - psia	

TEST RESULTS			
DAILY OIL	DAILY WATER	DAILY GAS	GAS-OIL RATIO
<u>3</u> bbls.	<u>None</u> bbls.	<u>5</u> Mcf.	SCF/STB

Gas measured by Direct Meter:
Meter Reading 11/16/83 0084
Meter Reading 11/17/83 0089

Smith & Barker Oil & Gas Co.
Well Operator
By: Walter E. Smith
Its: Designated Agent

12/01/2023

FRACTURE RECORD

Well Name and No. EMMA FRANCIS #2

District Sherman County Calhoun

Permit No. 013-1874 Frac Completion Date 9/15/83

Formation Acidized: Fractured:

Material:

Top _____

214 Gal. H15 HCL ACID 15%

Bottom _____

400 Gal K147 Toluene

Rock Pressure:

Test After Fracture:

Before Fracture 55 #

Oil 2 1/2 Bbl. D29

After Fracture 55 #

Gas 40 Mcf

Walter E. Smith
Signature

10/30/83
Date

Company Smith & Barker Oil & Gas Co.

Walter E. Smith, Agent

PO Box 244

Grantsville, WV 26147

Please complete the above form and return to this office so we can complete our files.

West Virginia Department of Mines
Office of Oil and Gas
1615 Washington Street, East
Charleston, West Virginia 25311

RECEIVED

NOV 2 - 1983

OIL & GAS DIVISION
DEPT. OF MINES

INVOICE

AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

REMIT TO:

DOWELL DIVISION
DOW CHEMICAL US
P.O. BOX 360182
PITTS, PA 15230

INVOICE DATE

08/30/83

PAGE

1

INVOICE NUMBER

01-12-1962

TYPE SERVICE

ACTOIZING

API # 013-1874 Frac

JOB SITE	STATE	COUNTY/CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
Enmore Division #2	WV	CALHOUN	GLENNVILLE WV	DOWELL	VERBAL
JOB LOCATION			DATE OF SERVICE ORDER	AUTHORIZED BY	
			08/30/83	FDDIE JACK	

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION	UNIT PRICE	AMOUNT
013044054	15	GAL	U79, DISPERSING AGENT	26.65	399.75
010013001	214	GAL	H15, HCL ACID 15%	0.55	117.70
036027000	400	GAL	K147, TOLUENE	2.80	1,120.00
059200009	22	HL	MILE AGE, LEACH ACID TRANSPORT	2.15	47.30
011028053	2	GAL	A200, 2% CDRKSTON INHIBITOR	22.25	44.50
SUB-TOTAL --					1,729.25

\$372
9/23/83

\$372
9/23/83

TERMS

NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE

PAY THIS AMOUNT

12/01/2023

WITH QUESTIONS ABOUT YOUR ACCOUNT CALL 713-978-3251
OR WRITE TO DOWELL, CUSTOMER FINANCIAL SERVICES,
P.O. BOX 4378, HOUSTON, TEXAS 77210

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



APR 23 1986

INSPECTOR'S WELL REPORT

Permit No. 13-1874-F

Fracture Permit 5-25-83

Oil or Gas Well _____
(KIND)

Company <u>Walter Smith</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size			
Farm <u>Emma Francis</u>	16			Kind of Packer _____
Well No. <u>2</u>	13			
District <u>Sherman</u> County <u>Cal</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 _____

Remarks:

Release Reclamation

4-19-86

DATE

Des 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 _____

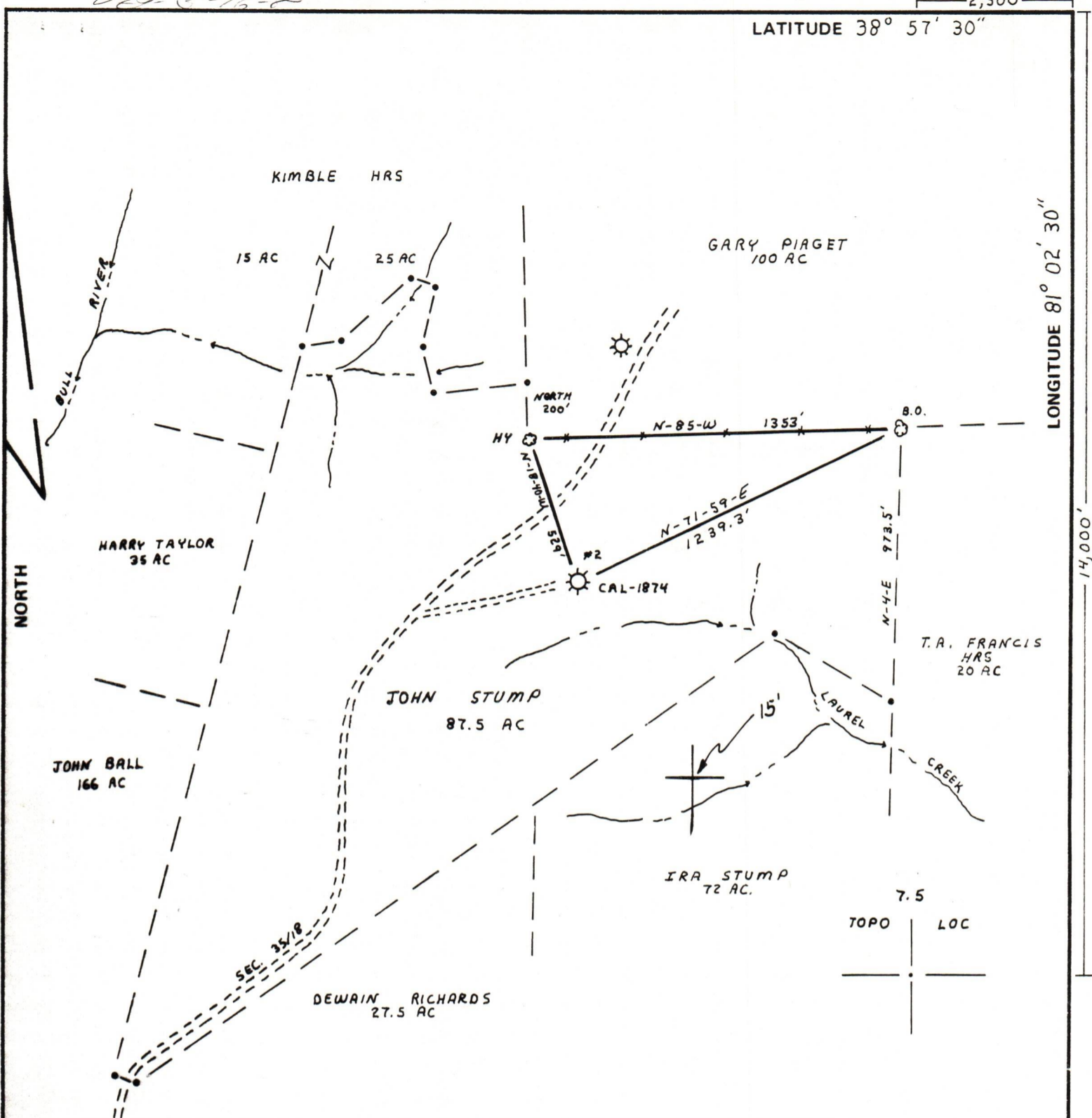
Liner			Location	Amount	Packer	Location		
PLUGS USED AND DEPTH PLACED			BRIDGES			CASING AND TUBING		
CEMENT-THICKNESS	WOOD-SIZE	LEAD	CONSTRUCTION-LOCATION			RECOVERED	SIZE	LOST

Drillers' Names _____

Remarks: _____

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

12/01/2023
DISTRICT WELL INSPECTOR



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1 IN 200
 PROVEN SOURCE OF ELEVATION R.D. INTERSECTION 2500'
WEST OF WELL. EL = 788

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
 (SIGNED) Carl B. O'Brien
 R.P.E. _____ L.I.S. 757

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE APRIL 7, 19 83
 OPERATOR'S WELL NO. # 2
 API WELL NO. _____
47 - 013 - 1874-Frac
 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 925 WATER SHED LAUREL CREEK
 DISTRICT SHERMAN COUNTY CALHOUN
 QUADRANGLE GRANTSVILLE

SURFACE OWNER JOHN STUMP ACREAGE 87.5
 OIL & GAS ROYALTY OWNER HALL FRANCIS LEASE ACREAGE 112
 LEASE NO. _____

12/01/2023

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 INJUN SAND ESTIMATED DEPTH 2035
 WELL OPERATOR SMITH & BARKER OIL & GAS DESIGNATED AGENT WALTER E. SMITH
 ADDRESS P.O. BOX 405 ADDRESS P.O. BOX 405
GRANTSVILLE, W.V. 26147 GRANTSVILLE, W.V. 26147



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 4

Quadrangle ARNOLDSBURG

WELL RECORD

Oil or Gas Well O & G
(KIND)

Permit No. CAL-1874

Company Emma Francis O. & G. Co. #2
Address Box 405, Grantville, W. Va.
Farm Emma Francis Acres 113
Location (waters) Lanfel Creek
Well No. 2 Elev. 825'
District Sherman County Calhoun
The surface of tract is owned in fee by Charles Stump
Address Grantville
Mineral rights are owned by J. L. Francis, et al
Address Grantville
Drilling commenced 11/23/60
Drilling completed 12/22/60
Date Shot From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			<u>None</u>
13			Size of
10	<u>277</u>	<u>None</u>	
8 1/2	<u>974</u>	<u>None</u>	Depth set
6 3/8			
5 3/16	<u>1978</u>	<u>1978</u>	Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

Open Flow /10ths Water in _____ Inch
/10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED 1000 Bbl. Water - 41,000# Sand - 1000 Gal. Acid

CASING CEMENTED 5" SIZE No. Ft. 1978 Date _____
25 sks. Cement - 10 sks. Aquagel - Halliburton
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

RESULT AFTER TREATMENT .1,500 MCF - 6-Bbl. Oil
ROCK PRESSURE AFTER TREATMENT 460# 24Hrs.
Fresh Water 165 Feet Salt Water 1690 Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	6			
Redrock			6	17			
Sand			17	35			
Slate			35	60			
Redrock			50	90			
Sand			90	160			
slate			180	170			
Redrock			170	205			
Slate			205	206			
Sand			206	251			
Slate			251	280			
Sand			280	304			
Slate			304	325			
Slate & Shells			325	340			
Redrock			340	390			
Slate & Shells			390	401			
Sand			401	443			
Redrock			443	456			
Lime			456	517			
Sand			517	598			

