



Well No. Hogue 1
Farm David R. Hogue
API # 47 - 073 - 1495
Date 4/22/82

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: 977' Watershed: French Creek
District: McKim County: Pleasants Quadrangle: Ellenboro

WELL OPERATOR SHAFFER OIL & GAS, INC.
Address P.O.Box 154
St. Marys, WV 26170

DESIGNATED AGENT Ira W. Shafer
Address P.O.Box 154
St. Marys, WV 26170

OIL AND GAS ROYALTY OWNER David R. Hogue
Address Route 1
St. Marys, WV 26170
Acreage 17.6

COAL OPERATOR N/A
Address _____

SURFACE OWNER Same as above
Address _____
Acreage _____

COAL OWNER(S) WITH DECLARATION ON RECORD:
NAME N/A
Address _____

FIELD SALE (IF MADE) TO:
NAME N/A
Address _____

NAME _____
Address _____

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Robert Lowther
Address _____
Middlebourne, WV
Telephone _____

COAL LESSEE WITH DECLARATION ON RECORD:
NAME N/A
Address _____

RECEIVED

MAY 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT 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 Nov. 9, 1981, to the undersigned well operator from David R. Hogue.

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

Recorded on Nov. 16, 1981, in the office of the Clerk of County Commission of

Pleasants County, West Virginia, in 169 Deed Book at page 347. 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.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1613 WASHINGTON ST., E.
CHARLESTON, WV 25311
Telephone - 304/348-3092

Shaffer Oil & Gas Inc.
Well Operator
By: Ira W. Shafer
Pres

BLANKET BOND

(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) _____

Address _____

GEOLOGICAL TARGET FORMATION Alexander

Estimated depth of completed well 5,000 feet. Rotary / Cable tools ___ /
Approximate water strata depths: Fresh, ~~50~~ 120 feet; salt, 1,000 feet.
Approximate coal seam depths: _____
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
	Size	Grade	Weight per ft	New	Used	For Drilling	Left in Well		
Conductor	11"			X		<u>170'</u>	<u>170'</u>	<u>CTS</u>	Kinds
Fresh water									
Coal									Sizes
Intermed.	8 5/8"	J-55	23 lb.	X		1177'	1177'	to surface	
Production Tubing	4 1/2"	J-55	10.5 lb.	X			5000'	350 sacks	Depths set
Liners									Perforations: Top Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

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

THIS PERMIT MUST BE POSTED AT THE WELL SITE.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling. THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 2-14-83.

BY [Signature]

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

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: [Signature]
Its: [Signature]



IV-9
(Rev 8-81)

DATE April 21, 1982
WELL NO. ONE (1)
API NO. 47-093-1495

State of West Virginia
Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME SHAFFER OIL & GAS CO. DESIGNATED AGENT TRAC SHAFFER
Address P.O. Box 154; St. Marys Address 214 Clay St. St. Marys
Telephone 684-2212 Telephone SAME
LANDOWNER DAVID R. HOGUE SOIL CONS. DISTRICT UPPER OHIO
Revegetation to be carried out by SHAFFER OIL & GAS CO. (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections
and additions become a part of this plan: 5/20/82
(Date)
Kenneth R. Mason
(SCD Agent)

ACCESS ROAD	LOCATION
Structure <u>OPEN DRAINAGE</u> (A)	Structure <u>DIVERSION</u> (1)
Spacing _____	Material _____
Page Ref. Manual <u>2:1</u>	Page Ref. Manual <u>2:12</u>
Structure <u>CROSS DRAINS</u> (B)	Structure _____ (2)
Spacing _____	Material RECEIVED
Page Ref. Manual <u>2:12</u>	Page Ref. Manual <u>MAY 21 1982</u>
Structure _____ (C)	Structure <u>OIL AND GAS DIVISION</u> <u>WV DEPARTMENT OF MINES</u>
Spacing _____	Material _____
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 _____ Tons/acre or correct to pH <u>6.5</u>	Lime _____ Tons/acre or correct to pH _____
Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent)	Fertilizer _____ lbs/acre (10-20-20 or equivalent)
Mulch <u>Hay (2)</u> Tons/acre	Mulch _____ Tons/acre
Seed* <u>LADINO CLOVER 15</u> lbs/acre	Seed* _____ lbs/acre
<u>TALL FESCUE 40</u> lbs/acre	_____ lbs/acre
_____ lbs/acre	_____ lbs/acre

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

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

PLAN PREPARED BY DONALD C. KESTER, JR.
ADDRESS P.O. Box 2036
PAUKERSBURG, W. V.
PHONE NO. 485-9111

IV-9 REVERSE
(REV 8-81)

ATTACH OR PHOTOCOPY SECTION OF
INVOLVED TOPOGRAPHIC MAP,
QUADRANGLE FLENBORO 7.5

LEGEND

Well Site ⊕

Access Road ———

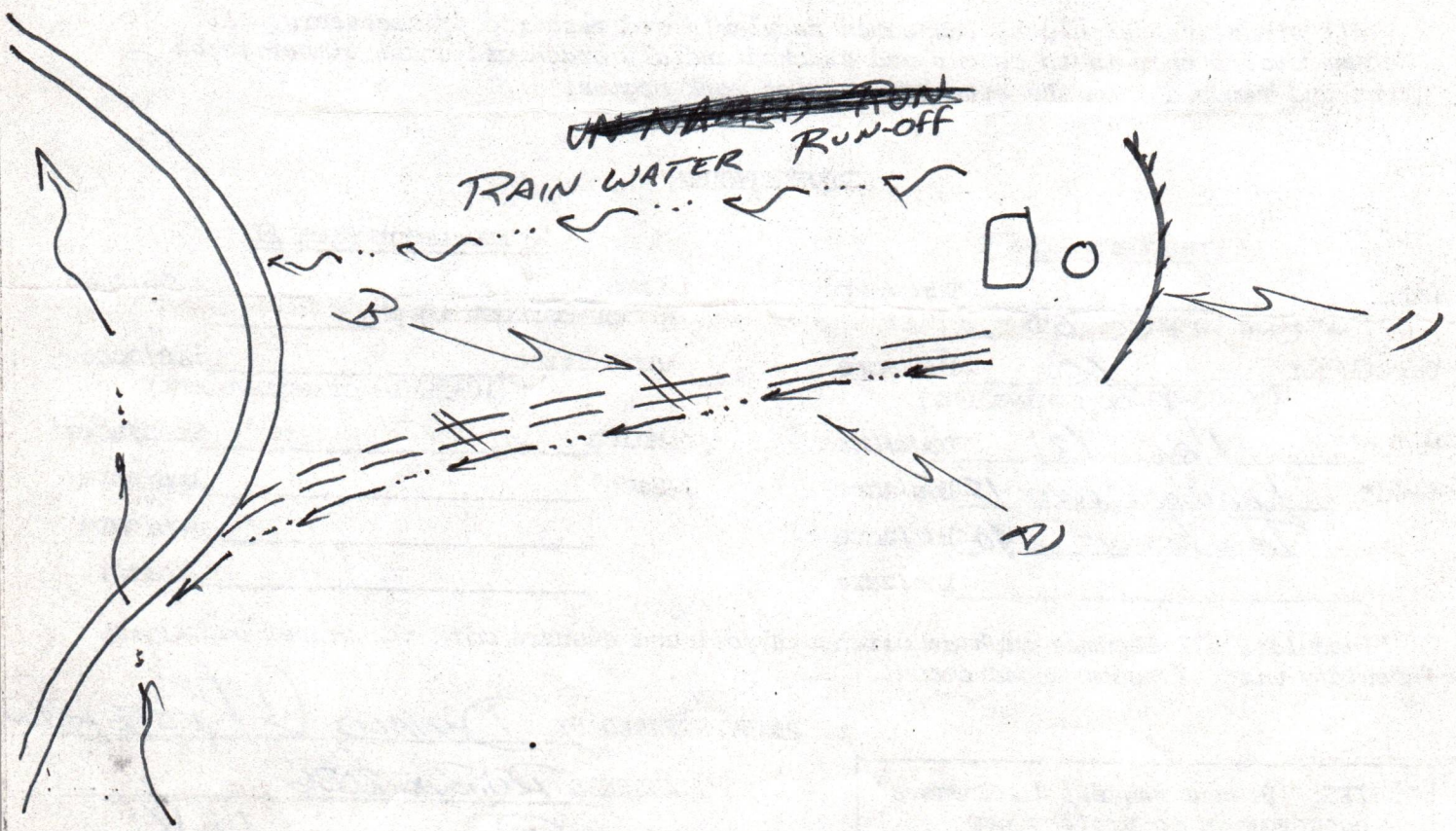
SEE ATTACHED

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		Wet spot	
Planned fence		Building	
Stream		Drain pipe	
Open ditch		Waterway	

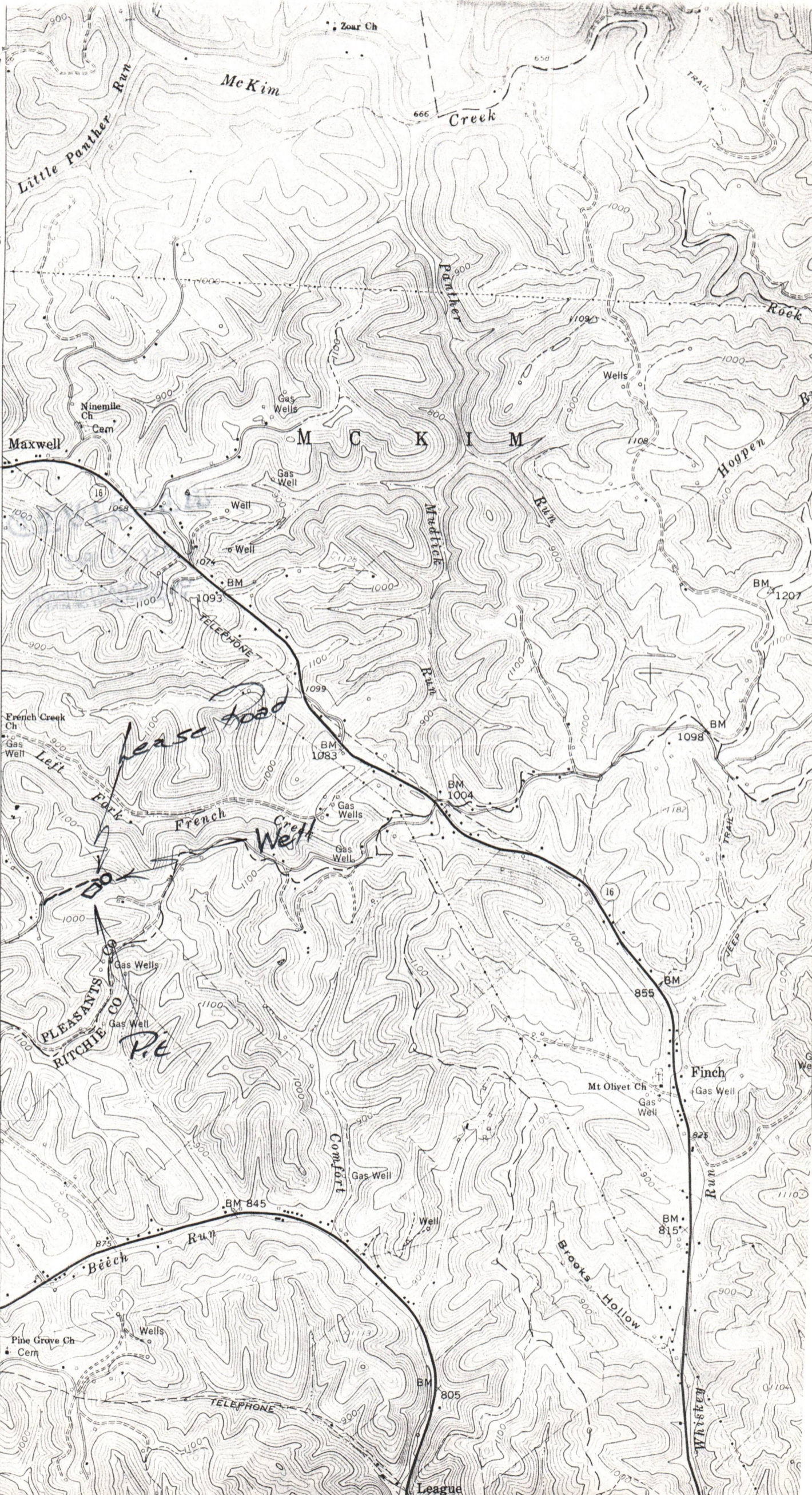


MARIETTA, OHIO 25 MI.
ST. MARYS (W. VA. 2) 6.5 MI.

4762 1 SW
(SCHULTZ)

PARKERSBURG 30 MI.
NUTTER FARM 7.5 MI.

17'30"



RECEIVED

MAY 21 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



IV-35
(Rev 8-81)

Date February 4, 1985
Operator's
Well No. #1
Farm Hogue
API No. 47 - 073 - 1495

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

LOCATION: Elevation: 977' Watershed French Creek
District: McKim County Pleasants Quadrangle Ellenboro 7.5'

COMPANY Shafer Oil & Gas Co., Inc.
ADDRESS P. O. Box 154, St. Marys, WV 26170
DESIGNATED AGENT Ira A. Shafer
ADDRESS P.O. Box 154, St. Marys, WV 26170
SURFACE OWNER David R. Hogue
ADDRESS Rt. 1, St. Marys, WV 26170
MINERAL RIGHTS OWNER David R. Hogue
ADDRESS Rt. 1, St. Marys, WV 26170
OIL AND GAS INSPECTOR FOR THIS WORK Robert
Lowther General Delivery
ADDRESS Middlebourne, WV 26149
PERMIT ISSUED June 14, 1982
DRILLING COMMENCED August 18, 1982
DRILLING COMPLETED August 24, 1982
IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	178.25'	178.25'	47#/ft.
9 5/8			
8 5/8	1843.50'	1843.50'	23#/ft.
7			
5 1/2			
4 1/2	4874'	4874'	10.5#/ft.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5000' feet
Depth of completed well 4853' feet Rotary / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Devonian Shale Pay zone depth 4680-90, 4201-4211, 3964-3977 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 400 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure 800 psig (surface measurement) after hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

PLEASANTS 1495

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

1st Stage: 645 MCF Nitrogen, 500 Gallons 15% Acid, 4680-4290 w/ 40 holes

2nd Stage: 640,500 CF Nitrogen, 420 Gallons 15% Acid, 4201-4211 w/40 holes

3rd Stage: 1,095,500 Nitrogen, 252 Gallons 15% Acid, 3964-3977 w/ 40 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
LOG TOPS					
BIG LIME			1730		
BIG INJUN			1840		
WEIR			2085		
BEREA			2326		
GORDON			2438		
DEVONIAN SHALE			2755		
TOTAL DEPTH			4853		

(Attach separate sheets as necessary)

HOGUE LEASE PARTNERSHIP

Well Operator

By: *[Signature]*

ITS CONSULTANT

Date: February 4, 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."

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

RECEIVED

AUG 23 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1495

Oil or Gas Well _____
(KIND)

Company <u>Shaker Oil & Gas</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address <u>St Marys W. Va</u>	Size			
Farm <u>David Hoguel</u>	16			Kind of Packer _____
Well No. <u>1</u>	13			Size of _____
District <u>McKim</u> County <u>Pleasant</u>	11 ³ / ₄	176	176	Depth set _____
Drilling commenced <u>8-18-82</u>	8 1/4			Perf. top _____
Drilling completed _____ Total depth <u>185</u>	6 5/8			Perf. bottom _____
Date shot _____ Depth of shot _____	5 3/16			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	3			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	2			Perf. top _____
Volume _____ Cu. Ft.	Liners Used			Perf. bottom _____
Rock pressure _____ lbs. _____ hrs.	CASING CEMENTED <u>11 3/4</u> SIZE <u>176</u> No. FT. <u>818-82</u> Date			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY <u>Halliburton</u>			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES _____ FEET _____ INCHES			
	_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names _____

Remarks: _____

8-19-82
DATE

R.A. Louther
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: _____

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

DISTRICT WELL INSPECTOR

13-Feb-85

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OFFICE OF OIL AND GAS
CHARLESTON 25305
FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT

RECEIVED
MAY 8 - 1985

Company: SHAFER O & G CO
Farm: HOGUE, DAVID R.

Well: 1

47-73-1495 OIL & GAS DIVISION
Permit No. 47-73-14 DEPT. of MINES
County: PLEASANTS

Rule	Description	In Compliance	
		Yes	No
23.06	Notification prior to starting work	✓	
25.04	Prepared before drilling to prevent waste	✓	
25.03	High Pressure drilling	✓	
16.01	Required permits at wellsite	✓	
15.03	Adequate Fresh Water Casings	✓	
15.02	Adequate Coal Casings	✓	
15.01	Adequate Production Casings	✓	
15.04	Adequate Cement Strength	✓	
15.05	Cement Type	✓	
23.02	Maintained Access Roads	✓	
25.01	Necessary Equipment to Prevent Waste	✓	
23.04	Reclaimed Drilling Pits	✓	
23.05	No Surface or Underground Pollution	✓	
23.07	Requirements for Production & Gathering Pipelines	✓	
17.01	Well Records on Site	✓	
17.02	Well Records Filed	✓	
17.05	Identification Markings	✓	

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

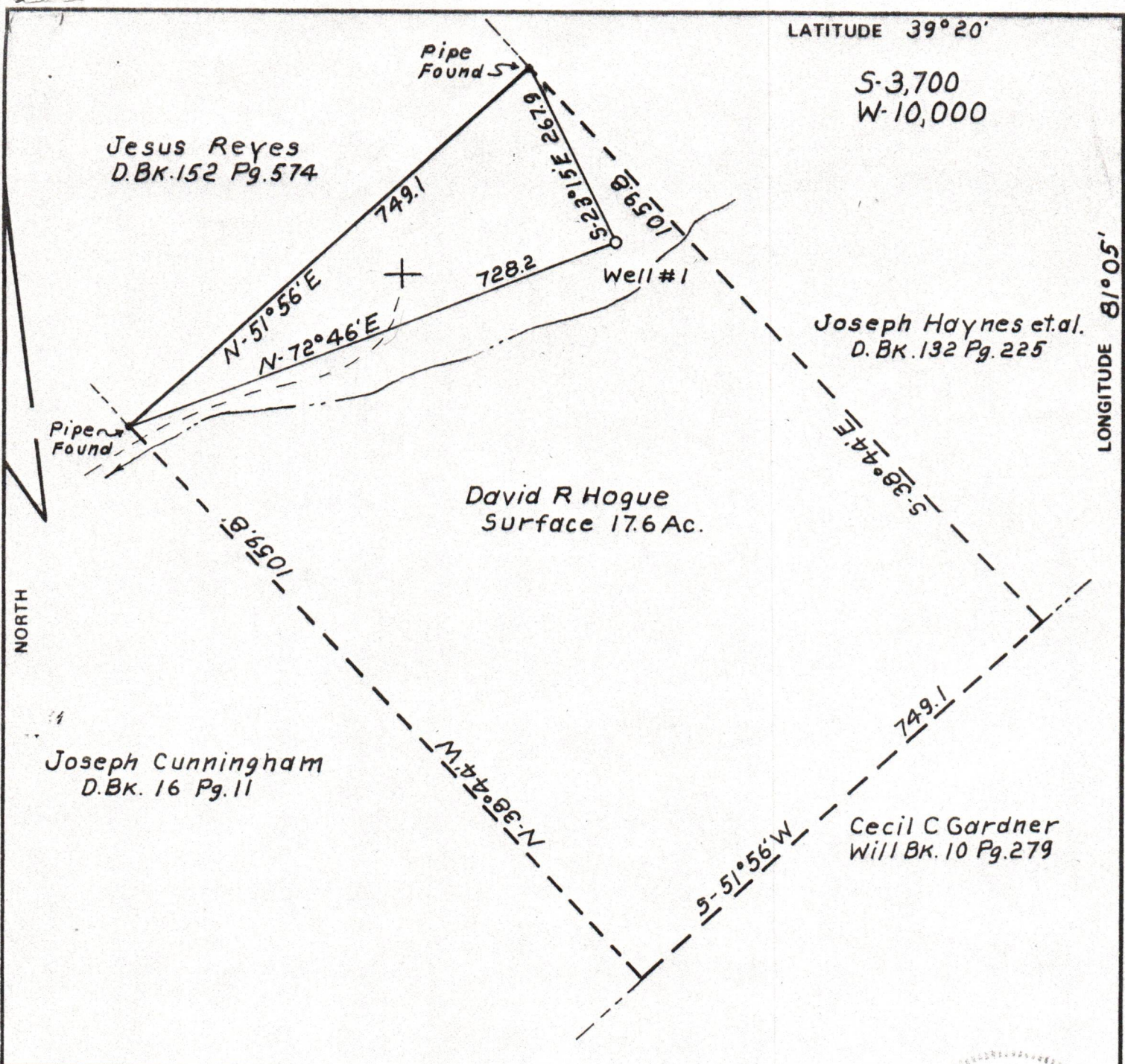
SIGNED: *R.A. Lowther*
DATE: *May 7, 1985*

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T.H. r. BB

Administrator

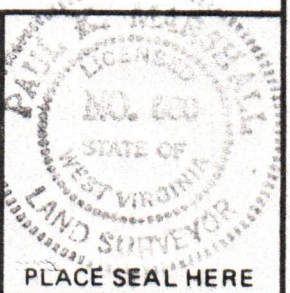
Date *May 13, 1985*



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 200'
 MINIMUM DEGREE OF ACCURACY 1' in 200
 PROVEN SOURCE OF ELEVATION U.S.G.S. 1198

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Paul K. Marshall
 R.P.E. _____ L.L.S. 580



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



DATE Dec. 2, 1981
 OPERATOR'S WELL NO. 1
 API WELL NO. 073 - 1495
 STATE 47 COUNTY Pleasants 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 977 WATER SHED French Creek
 DISTRICT McKim COUNTY Pleasants
 QUADRANGLE Ellenboro W.Va.
 SURFACE OWNER David R. Hogue ACREAGE 17.6
 OIL & GAS ROYALTY OWNER David R. Hogue et al. LEASE ACREAGE 17.6
 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 Alexander ESTIMATED DEPTH 5000'
 WELL OPERATOR Shafer Oil & Gas Co. Inc. DESIGNATED AGENT _____
 ADDRESS P.O. Box 154 ADDRESS _____
St Marys W.Va. 26170