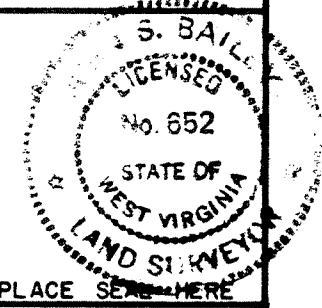


PREPARED BY MSES CONSULTANTS

FILE NO. MSES 83-175
 DRAWING NO. _____
 SCALE 1"=500'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200'
 PROVEN SOURCE OF ELEVATION JCT. OF ROUTE 20 & LAUREL RUN EL. 993.00'

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) John S. Bailey
 R. E. _____ L. L. S. # 652



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



DATE MARCH 11, 19 83
 OPERATOR'S WELL NO. S.S.# 2
 API WELL NO. _____
47 - 033 - 2887
 STATE COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION _____ STORAGE _____ DEEP _____ SHALLOW X)
 LOCATION: ELEVATION 1146.70' WATER SHED LAUREL RUN
 DISTRICT SARDIS COUNTY HARRISON
 QUADRANGLE WALLACE 7.5' (1978)
 SURFACE OWNER MARY E. GUMP ACREAGE 83.66
 OIL & GAS ROYALTY OWNER O. SWIGER HRS LEASE ACREAGE 87.49
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 SPEECHLY ESTIMATED DEPTH 3500'
 WELL OPERATOR SHELDON & SHELDON DESIGNATED AGENT DAVID J. SHELDON
 ADDRESS P.O. BOX 651 COWEN, W.V. ADDRESS P.O. BOX 651 COWEN, W.V.

MAR 21 1983

HARR, 2887

MAY 18 1983



IV-35
(Rev 8-81)

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia

Department of Mines
Oil and Gas Division

Date April 20, 1983
Operator's
Well No. #2
Farm Swiger
API No. 047-033 - 2887

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

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

LOCATION: Elevation: 1146 Watershed Laurel Run
District: Sardis County Harrison Quadrangle Wallace 7.5

COMPANY Sheldon & Sheldon, Inc.
ADDRESS P.O. Box 651, Cowan, WV 26206
DESIGNATED AGENT David Sheldon
ADDRESS Same as above
SURFACE OWNER Mary E. Gump
ADDRESS Rt. 1 Box 245, Wallace, WV 26448
MINERAL RIGHTS OWNER O. Swiger Heirs
ADDRESS
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Cassey ADDRESS Rt. 2 Box 232D, Jane Lew, WV
PERMIT ISSUED 3-11-83
DRILLING COMMENCED 3-17-83
DRILLING COMPLETED 3-27-83
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"	11 3/4	29.2	
9 5/8			
8 5/8	714.55	714.55	200
7	799.85	799.85	150
5 1/2			
4 1/2	3065	3065	140
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION 5th sand Depth 2864 feet
Depth of completed well 3065 feet Rotary x / Cable Tools
Water strata depth: Fresh 90' feet; Salt 1530 feet
Coal seam depths: 40, 60, 120 and 600 Is coal being mined in the area? No

OPEN FLOW DATA
Producing formation Comingled Injun 50 feet and 5th sand Pay zone depth 2864 feet
Gas: Initial open flow 30 Mcf/d Oil: Initial open flow show Bbl/d
Final open flow 296 Mcf/d Final open flow 8 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 420 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

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

2860 to 2552 - 24 holes → 2552 - 2592 - 50 ft
 1986 to 1982 - 3 holes Injun 2660 - 2860 - 5th

_____ using - 722 barrels water - 15,000 #80-100 Mosh Sand
 30,000 #20-40 Mosh Sand
 1500 gallons 15% Acid
 23 7/8" _____ balls
 143,000 S.C.F. Nitrogen

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
		Top soil	0	6	
		Lime	6	20	
		Shale	20	40	
		Coal	40	42	
		Shale	42	60	Fresh water 90' 2"
		Coal	60	70	
		Sand	70	120	
		Coal	120	124	
		Shale and sand	124	600	
		Coal	600	612	
		Shale and sand	612	722	
		Red rock	722	765	
		Sand and shale	765	1440	
		Sand and shale	1440	1468	
		Sand	1468	1514	Salt water 1530' 1/4"
		Shale	1514	1573	
		Sand	1573	1673	
		Shale	1673	1720	
		Sand and shale	1720	1903	
		Lime	1903	1940	
		Sand Injun	1940	2053	Gas
		Shale	2053	2545	
		Sand 50 ft.	2545	2592	Gas
		Shale	2592	2660	
		Sand 50 ft 5 th	2660	2864	Oil
		Shale	2864	3090	

(Attach separate sheets as necessary)

S+S NO. 2 LIMITED PARTNERSHIP
 Well Operator
 By: David J. Sheldon, General Partner
 Date: 05-16-83

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."



1) Date: March 11, 1983
 2) Operator's Well No. XXXXX 88-2
 3) API Well No. 47 State County Permit

DRILLING CONTRACTOR:

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: Watershed:
 District: County: Quadrangle:
- 6) WELL OPERATOR 11) DESIGNATED AGENT
 Address Address
- 7) OIL & GAS ROYALTY OWNER 12) COAL OPERATOR
 Address Address
- 8) SURFACE OWNER 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Name
 Acreage Address
- 9) FIELD SALE (IF MADE) TO: Name
 Address Address
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Name
 Address 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,
- 17) Estimated depth of completed well, feet
- 18) Approximate water strata depths: Fresh, feet; salt, feet.
- 19) Approximate coal seam depths: 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										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:

Signed:

My Commission Expires

Its:

OFFICE USE ONLY
DRILLING PERMIT

Permit number

19

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 November 15, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee

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 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 _____