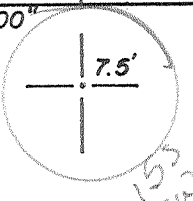


9/10/87

1320'

LATITUDE 39° 05' 00"



WV BOARD OF CONTROL

10 MORE FEET TO CORNER AT LOW WATER MARK

WEST FORK RIVER

B & O RR

-PROP. LINE WITH EAST BANK 2838'

CLAY MAXWELL 103.50 AC. O&G

DEERFIELD COUNTRY CLUB

N28°53'W, 2481.85'

S36°08'E 2615.72'

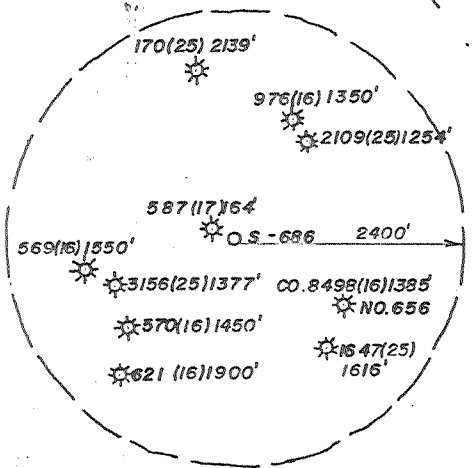
S-686

ADLER

WELL REFERENCES:

N75°W, 164.3' TO WELL 587 (17)  
N87°25'E, 228.65' TO 3" BLACK OAK

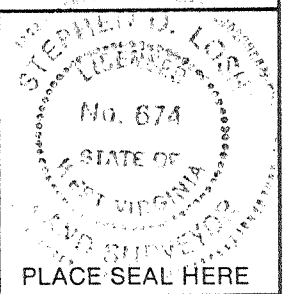
LAND SURVEYING SERVICES  
21 CEDAR LANE  
BRIDGEPORT, WV 26330  
PHONE: 304-842-2018



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_  
SCALE 1" = 500'  
MINIMUM DEGREE OF ACCURACY 1 IN 200  
PROVEN SOURCE OF ELEVATION B.M. 1385' SW. OF LOC. AT ELEV. 1002'

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 ENERGY.  
(SIGNED) *Stephen D. Losh*  
R.P.E. \_\_\_\_\_ L.L.S. NO. 674  
STEPHEN D. LOSH



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE SEPTEMBER 2, 19 87  
OPERATOR'S WELL NO. S-686  
API WELL NO. GARTON 2  
47 - 041 - 3849  
STATE COUNTY PERMIT

WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS,") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
LOCATION: ELEVATION 1010' WATER SHED WEST FORK RIVER  
DISTRICT HACKERS CREEK COUNTY LEWIS  
QUADRANGLE WESTON 7.5' 670 1327 SW Weston 15'  
SURFACE OWNER DEERFIELD COUNTRY CLUB ACREAGE 546.80  
OIL & GAS ROYALTY OWNER PATRICIA GARTON LEASE ACREAGE 103.50  
LEASE NO. 2035

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 BENSON ESTIMATED DEPTH 4500'  
WELL OPERATOR SCOTT OIL CO. DESIGNATED AGENT DARREL WRIGHT  
ADDRESS P.O. BOX 112 714 ADDRESS P.O. BOX 112  
SALEM, WV 26330 SALEM, WV 26330

OCT 5 1987

COUNTY NAME  
PERMIT

6-6 Weston (Jane Low) (153)

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NOV 09 1987



DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

Date October 15, 1987  
Operator's Well No. S-686  
Farm Patricia Garton #2  
API No. 47 - 041 - 3849

State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

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

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

LOCATION: Elevation: 1010 Watershed West Fork River  
District: Hackers Creek County Lewis Quadrangle Weston 7.5

COMPANY Scott Oil Company

ADDRESS P. O. Box 112, Salem, WV 26426

DESIGNATED AGENT Darrel Wright

ADDRESS P. O. Box 112, Salem, WV 26426

SURFACE OWNER Deerfield Country Club

ADDRESS Weston, WV

MINERAL RIGHTS OWNER Patricia Garton

ADDRESS Jane Lew, WV

OIL AND GAS INSPECTOR FOR THIS WORK Stephen

Casey ADDRESS Jane Lew, WV

PERMIT ISSUED 10/2/87

DRILLING COMMENCED 10/3/87

DRILLING COMPLETED 10/7/87

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"	30'		
9 5/8			
8 5/8		845	to surface
7			
5 1/2			
4 1/2		4180	325 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION \_\_\_\_\_ Depth \_\_\_\_\_ feet

Depth of completed well 4509 feet Rotary \_\_\_ / Cable Tools \_\_\_\_\_

Water strata depth: Fresh 41 feet; Salt \_\_\_\_\_ feet

Coal seam depths: 380,525,839 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson, Balltown Pay zone depth \_\_\_\_\_ feet

Gas: Initial open flow \_\_\_\_\_ Mcf/d Oil: Initial open flow \_\_\_\_\_ Bbl/d

Final open flow (211) Mcf/d Final open flow \_\_\_\_\_ Bbl/d

Time of open flow between initial and final tests \_\_\_\_\_ hours

m Static rock pressure 1050 psig (surface measurement) after 72 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)

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

Benson	4022-4032	Sand 20/40	40,000#	502 bbl H <sub>2</sub> O
Balltown	2948-2979	Sand 20/40	50,000#	586 bbl H <sub>2</sub> O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0	380	
Coal			380	384	
Sand & Shale			384	525	
Coal			525	530	
Sand & Shale			530	839	
Coal			839	845	
Sand & Shale			845	892	
Red Rock			892	928	
Red Rock & Shale			928	1176	
Big Lime			1176	1871	
Sand & Shale			1871	2020	
5th Sand			2020	2075	
Sand & Shale			2075	2900	
Balltown			2900	3009	
Sand & Shale			2009	4010	
Benson			4020	4050	
Sand & Shale			4050	4503	
TD			4503		
Gamma Ray ✓					
Big Lime			1182	1240	
Big Injun			1240	1348	
5th Sand			2026	2047	
Balltown			2926	2986	
Benson			4024	4046	

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DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Scott Oil Company

Well Operator

By:

Date:

*Samuel Wright*

10/15/87

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  
minerals, encountered in the drilling of a well."

(Obverse)  
7/85  
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1) Date: September 3, 19 87  
 2) Operator's Well No. Patricia Garton #2 S-686  
 3) API Well No. 47 041 3849  
 State County Permit

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

DIVISION OF OIL & GAS  
 DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil  Gas   
 B (If "Gas", Production  Underground storage  Deep  Shallow )
- 5) LOCATION: Elevation: 1010 Watershed: West Fork River  
 District: Hackers Creek #4 County: Lewis 041 Quadrangle: Weston 7.5 6669
- 6) WELL OPERATOR Scott Oil Co. CODE: 44315 7) DESIGNATED AGENT Darrel Wright  
 Address P. O. Box 112 Address P. O. Box 112  
Salem, WV 26426 Salem, WV 26426
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:  
 Name Stephen Casey Name \_\_\_\_\_  
 Address Route 2 Address \_\_\_\_\_  
Jane Lew, WV
- 10) PROPOSED WELL WORK: Drill  / Drill deeper  / Redrill  / Stimulate   
 Plug off old formation  / Perforate new formation   
 Other physical change in well (specify) \_\_\_\_\_
- 11) GEOLOGICAL TARGET FORMATION, Benson 425  
 12) Estimated depth of completed well, 4500' feet  
 13) Approximate strata depths: Fresh, 2475 feet; salt, \_\_\_\_\_ feet.  
 14) Approximate coal seam depths: 550 Is coal being mined in the area? Yes \_\_\_\_\_ / No

15) CASING AND TUBING PROGRAM *see Lewis 1047*

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	11 3/4					30'			Kinds
Fresh water									Sizes
Coal									
Intermediate	8 5/8						825	to surface	33 CSR 18-11.1, 11.2, 2
Production	4 1/2						5400	600 sks	Depths set
Tubing									38 CSR 18-11.3
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-041-3849 Date October 2 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.  
 Permit expires October 2, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>230</u> <u>1120</u>	WPCP: <input checked="" type="checkbox"/>	S&E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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*John W. Johnston* by *Margaret J. Hesse*  
 Director, Division of Oil and Gas