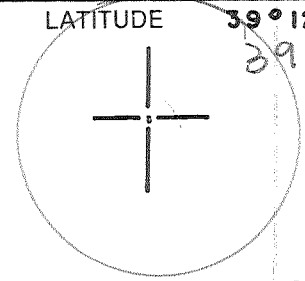


SFB 1/27/87

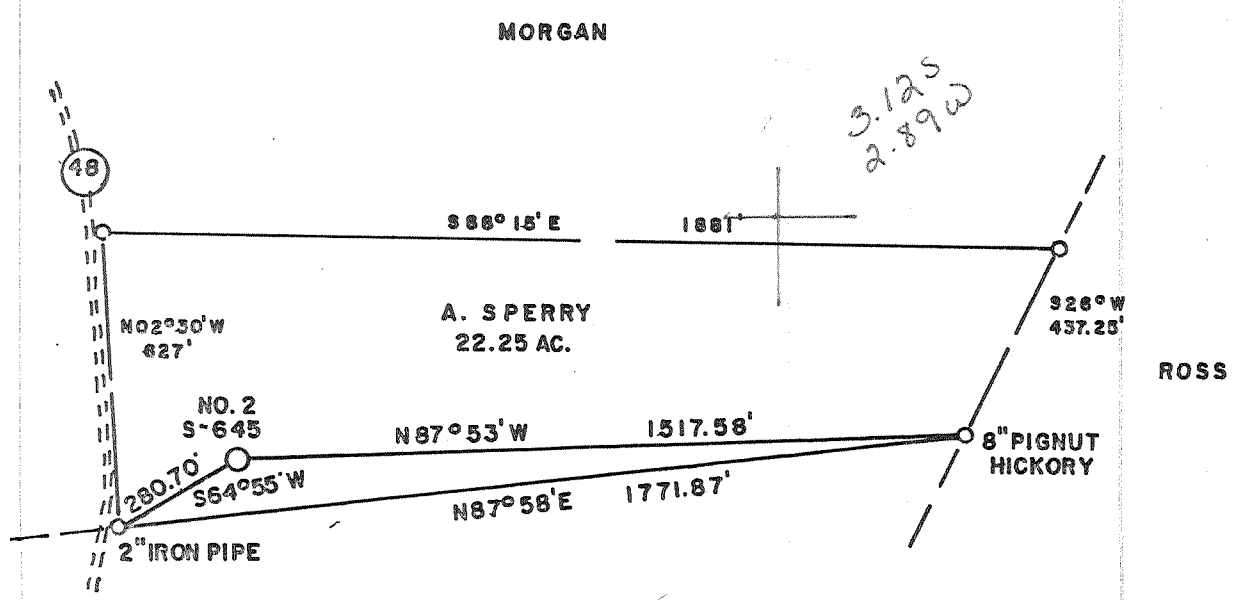
LATITUDE 39° 12' 30" 3915

WELL REFERENCES:
 S25° 45' E, 121' TO 14" BEECH
 S27° 15' W, 124' TO 6" TWIN SUGAR



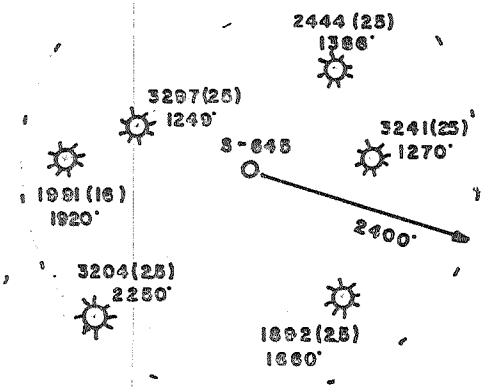
LONGITUDE 80° 32' 30" 8030

NORTH



3.125
2.89W

0.245
0.666



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" = 400'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION RD. INTER. 600' S.W.
 OF LOCATION ELEV. - 955'

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. 674
 STEPHEN D. LOSH

STEPHEN D. LOSH
 No. 674
 STATE OF WEST VIRGINIA
 LAND SURVEYOR
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE JANUARY 12, 19 87
 OPERATOR'S WELL NO. S-645
 API WELL NO. SPERRY NO. 2
 47 - 017 - 3521
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
 LOCATION: ELEVATION 1046' WATER SHED BIG ISAAC CREEK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252 123 NE3 VADIS
 SURFACE OWNER CHARLES SPERRY ACREAGE 22.25
 OIL & GAS ROYALTY OWNER ARMINDA SPERRY LEASE ACREAGE 22.25
 LEASE NO. 324
 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, ALEX. ESTIMATED DEPTH 5600'
 WELL OPERATOR SCOTT OIL COMPANY DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 774 ADDRESS P.O. BOX 112
 SALEM, WV 26426 SALEM, WV 26426

COUNTY NAME PERMIT

6-6 Meathouse Fork - Bristol (146)



Date September 9, 1987
 Operator's Well No. S-645
Farm Arminda Sperry #2
API No. 47 - 017 - 3521

WR-35
RECEIVED
 OCT 16 1987

State of West Virginia
 DEPARTMENT OF ENERGY
 Oil and Gas Division

DIVISION OF OIL & GAS
 DEPARTMENT OF ENERGY

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: 1046 Watershed Big Isaac Creek
 District: Greenbrier County Doddridge Quadrangle Big Isaac

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 Mrs. C. M. Sperry, et al
 ADDRESS Salem, WV 26426
 MINERAL RIGHTS OWNER same as above
 ADDRESS _____
 OIL AND GAS INSPECTOR FOR THIS WORK Mike Underwood
 ADDRESS Route 2, Salem
 PERMIT ISSUED February 6, 1987
 DRILLING COMMENCED 8/27/87
 DRILLING COMPLETED 9/1/87
 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		746	to surface
7			
5 1/2			
4 1/2		5297	225 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
 Depth of completed well 5366 feet Rotary ___ / Cable Tools _____
 Water strata depth: Fresh 134 feet; Salt _____ feet
 Coal seam depths: 125-131 Is coal being mined in the area? no

OPEN FLOW DATA

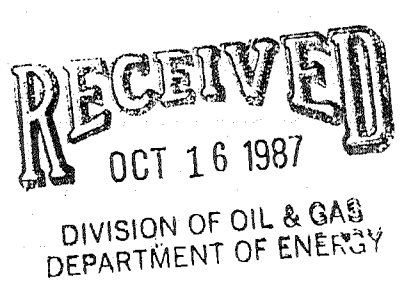
Producing formation Benson, Alexander Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow 678 Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure 1725 psig (surface measurement) 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

OCT 16 1987

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

<u>Benson</u>	<u>4826-4840</u>	Sand 500 sks	600 bbl fluid
<u>Alexander</u>	<u>5115-5200</u>	Sand 400 sks	550 bbl fluid

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Sandy Shale			0	42	
Shale & Sand			42	125	
Coal			125	131	
Sand & Shale			131	1691	
Red Rock			1691	1720	
Shale			1720	1912	
Big Lime			1912	2021	
Sand			2021	2063	
Sandy Shale			2063	2500	
Sand			2500	2532	
Sand & Shale			2532	2630	
Sand			2630	2640	
Sand & Shale			2640	4800	
Sand			4800	4850	
Sand & Shale			4850	5110	
Sand			5110	5200	
Sand & Shale			5200	5366 TD	
✓ Gamma Ray					
Big Lime			1910	1960	
Big Injun			1960	2045	
Gordon			2630	2650	
Benson			4826	4840	
✓ Alexander			5115	5200	

(Attach separate sheets as necessary)

Scott Oil Company
Well Operator
By: Daniel W. Wright
Date: 9/9/87

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 coal, encountered in the drilling of a well."
243

FORM WV-2 (B) RECEIVED
 (OBTAIN FROM THE DIVISION OF OIL & GAS)
 7/85
 JAN 26 1987



216
 1) Date: January 20, 19 87
 2) Operator's Well No. S-645 Arminda Sperry #2
 3) API Well No. 47 State 017 County 3521 Permit

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

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow X)
- 5) LOCATION: Elevation: 1046 Watershed: Big Isaac Creek
 District: Greenbrier 4 County: Doddridge 017 Quadrangle: Big Isaac 252
- 6) WELL OPERATOR Scott Oil Co. 784 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 Mike Underwood Name
 Address Route 2, Salem, WV Address
- 10) PROPOSED WELL WORK: Drill X / Drill deeper / Redrill / Stimulate X /
 Plug off old formation / Perforate new formation
 Other physical change in well (specify)
- 11) GEOLOGICAL TARGET FORMATION, Benson, Alexander
- 12) Estimated depth of completed well, 5600 feet
 13) Approximate strata depths: Fresh, feet; salt, feet.
 14) Approximate coal seam depths: Is coal being mined in the area? Yes / No X
- 15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILLUP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4					20' 250	250	CTS Per	Rule 15.05
Fresh water									
Coal									
Intermediate	8 5/8						725	to surface	Per Rule 15.05
Production	4 1/2						5300	400 sks	Depths set
Tubing								ARAS REQUIRED BY	Rule 15.01
Liners								Perforations:	
								Top	Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3521 Date February 6 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 February 6, 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>864</u>	WCCP: <input checked="" type="checkbox"/>	S&F: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location. Director, Division of Oil and Gas File