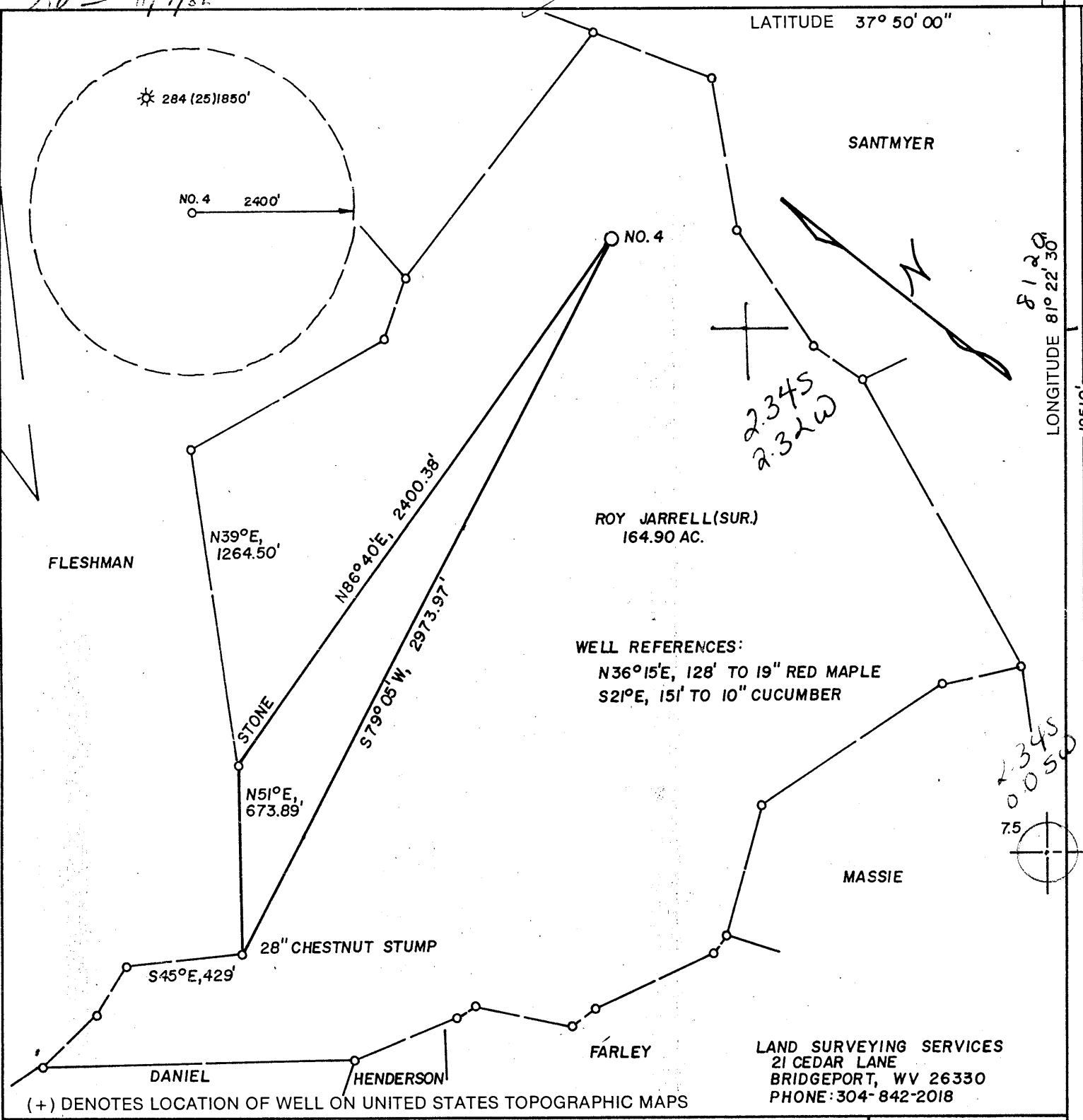


873 11/7/81

350'



WELL REFERENCES:
 N36°15'E, 128' TO 19" RED MAPLE
 S21°E, 151' TO 10" CUCUMBER

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF
 ACCURACY 1 IN 200
 PROVEN SOURCE OF
 ELEVATION TOP OF KNOB 2490'S.W.
OF LOC. AT ELEV. 2164'

CO: 081 PMT: 748
 T Loc Digitized from OGIS 7.5' Mylar
 K QUAD: 218 DATE: 22-MAY-90
 H LAT: 37 50.0 Miles South: 2.33
 L LONG: 81 22.5 Miles West : 0.06
 M.
 (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
 PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE NOVEMBER 4, 19 86
 OPERATOR'S WELL NO. S-641
 API WELL NO. C. R. DANIELS 4
47-081-0748
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 2036' WATER SHED MARSH FORK
 DISTRICT TRAP HILL COUNTY RALEIGH
 QUADRANGLE ARNETT 7.5' 218 036 Sec 9 Ccdes
 SURFACE OWNER ROY JARRELL ACREAGE 164.90
 OIL & GAS ROYALTY OWNER C. R. DANIELS LEASE ACREAGE 164.90
 LEASE NO. 1484

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 GORDON ESTIMATED DEPTH 3800'
 WELL OPERATOR SCOTT OIL COMPANY DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
SALEM, WV 26426 774 SALEM, WV 26426

DEC 1 1986

H.T. HALL 48673 FORM WW-6

COUNTY NAME PERMIT



Date November 11, 1987
 Operator's _____
 Well No. S-641
 Farm C. R. Daniels #5
 API No. 47 - 081 - 0748

RECEIVED
 NOV 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: 2036 Watershed Marsh Fork
 District: Trap Hill County Raleigh Quadrangle Arnett

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 Roy Jarrell
 ADDRESS Fairdale, WV
 MINERAL RIGHTS OWNER Edith B. Daniel
 ADDRESS _____
 OIL AND GAS INSPECTOR FOR THIS WORK Rodney
Dillon ADDRESS Sophia, WV
 PERMIT ISSUED 11/24/86
 DRILLING COMMENCED 7/27/87
 DRILLING COMPLETED 8/4/87
 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			
7		1260	to surface
5 1/2			
4 1/2		3042	to surface
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet
 Depth of completed well 3033 feet Rotary ___ / Cable Tools _____
 Water strata depth: Fresh _____ feet; Salt _____ feet
 Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA
 Producing formation _____, Big Lime, Ravencliff Pay zone depth _____ feet
 Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
 Final open flow (207) Mcf/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ hours
 Static rock pressure 605 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

NOV 23 1987

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

Big Lime 2717-2922

6000 gal acid

Ravencliff 1650-1670

500 gal acid

[Faint handwritten notes and stamps]

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fres and salt water, coal, oil and ga
Fill			0	10	<p style="text-align: center;">RECEIVED NOV 16 1987</p> <p style="text-align: center;">DIVISION OF OIL & GAS DEPARTMENT OF ENERGY</p>
Sand & Shale			10	675	
Coal			675	678	
Sand & Shale			678	705	
Coal			705	709	
Sand & Shale			709	980	
Coal			980	985	
Sand & Shale			985	1514	
Sand			1514	1556	
Sand & Shale			1556	1600	
Sand			1600	1690	
Lime			1690	1730	
Sand & Shale			1730	2250	
Sand			2250	2300	
Sand & Shale			2300	2390	
Sand			2390	2445	
Sand & Shale			2445	2580	
✓ Big Lime			2580	3033 TD	
Gamma Ray ✓					
Princeton			1514	1556	
Ravencliff			1607	1690	
Avis Lime			1694	1730	
Maxton			2250	2302	
Lower Maxton			2391	2445	
Big Lime			2580	3033	

(Attach separate sheets as necessary)

Scott Oil Company
Well Operator
By: Daniel Wright
Date: Nov. 11, 1987

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: November 4, 1986
 2) Operator's Well No. S-641 C. R. Daniels #4
 3) API Well No. 47 081 0748
 State County Permit

7/85
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STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, OIL AND GAS DIVISION

APPLICATION FOR A WELL WORK PERMIT

- 4) DEPARTMENT OF ENERGY / Gas /
 B (If "Gas", Production / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 2036 Watershed: Marsh Fork
 District: Trap Hill 7 County: Raleigh Quadrangle: Arnett 218
- 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 Rodney Dillon Name _____
 Address P. O. Box 1526 Address _____
Sophia, 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, Gordon 49
- 12) Estimated depth of completed well, 3800 feet
 13) Approximate trata depths: Fresh, _____ feet; salt, _____ feet.
 14) Approximate coal seam depths: _____ Is coal being mined in the area? Yes _____ / No
- 15) 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	1 3/4					30'			Kinds
Fresh water									
Coal									Sizes
Intermediate	8 5/8						1250	to surface	Per Rule 15.05
Production	4 1/2						3800	400 sks	Depths set
Tubing									
Links									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47 - 081 - 0748 November, 24 1986
 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. 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 November 24, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <u>AS</u>	Plat: <input checked="" type="checkbox"/>	Casing: <u>AS</u>	Fee: <u>779</u>	WPOP: <input checked="" type="checkbox"/>	S/E: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
 Director, Division of Oil and Gas

File