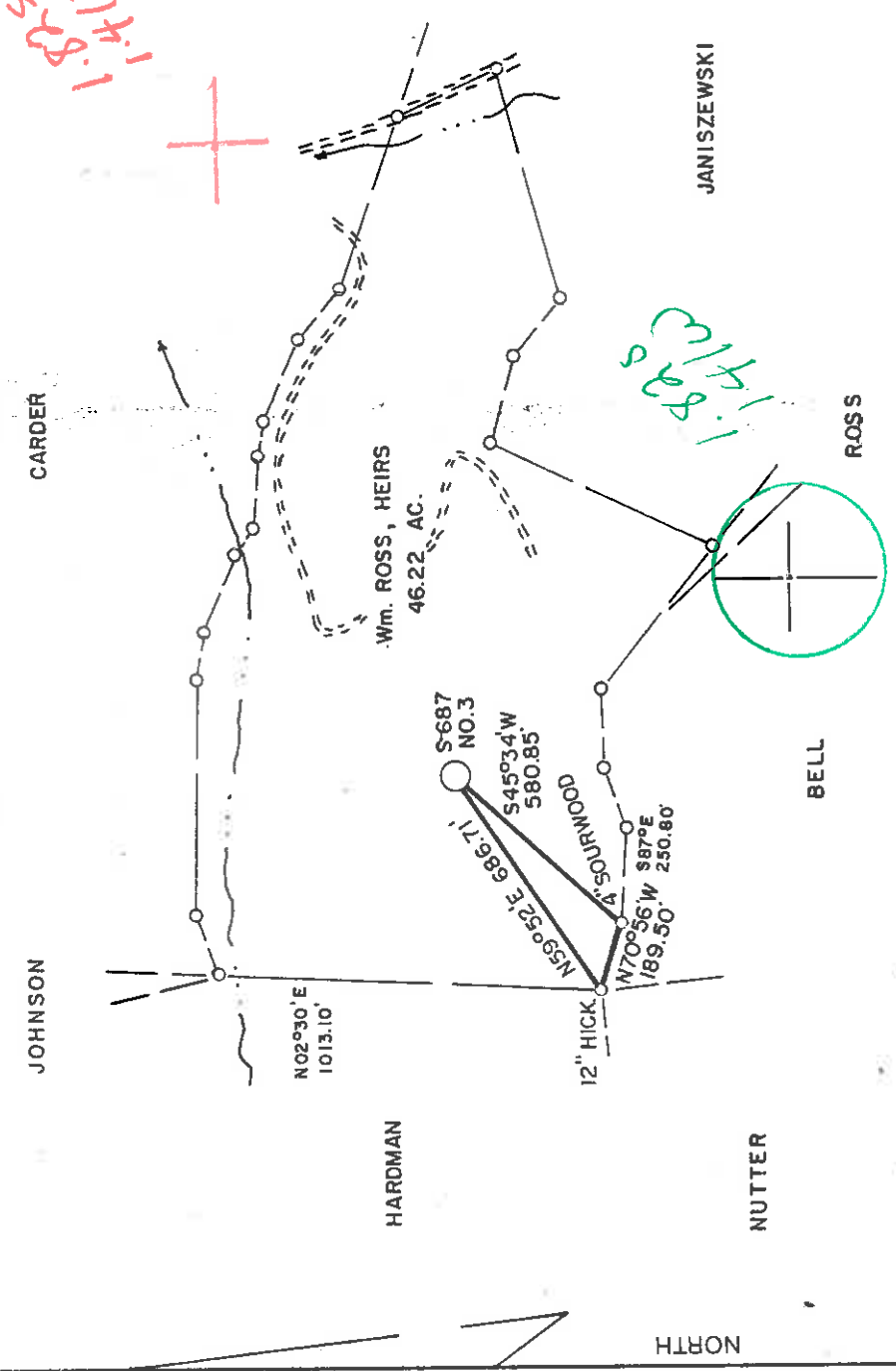


9/10/87

7515' LATITUDE 39° 15' 00"

80° 35' 00" LONGITUDE 9700



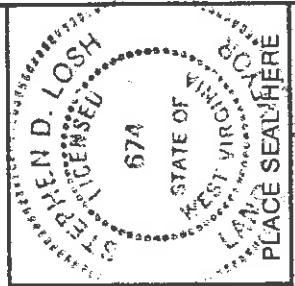
WELL REFERENCES:
 N78°30'W, 156.50' TO 15" POPLAR
 S64°30'W, 168.50' TO 10" R. MAPLE

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 RD. INTER. 2200' S.E. OF _____
 LOCATION ELEV. - 913'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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. _____ I.L.S. STEPHEN D. LOSH 674



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION

DATE SEPTEMBER 02, 19 87
 OPERATOR'S WELL NO. S-687
 API WELL NO. 47-017-3591

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1124' WATERSHED INDIAN FORK
 DISTRICT GREENBRIER COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252
 SURFACE OWNER WILLIAM ROSS, HEIRS ARCHIE FAYE
 OIL & GAS ROYALTY OWNER WILLIAM ROSS, HEIRS LEASE ACREAGE 132
 LEASE NO. 2030

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/BENSON ESTIMATED DEPTH 5500'
 WELL OPERATOR SCOTT OIL COMPANY DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
 SALEM, WV 26426 SALEM, WV 26426

6-6 Zinnia (145)

SEP 21 1987

COUNTY NAME _____

PERMIT _____



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State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

Date October 20, 1987

Operator's
Well No. S-687

Farm William Ross #3

API No. 47 - 017 - 3591

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: 1124 Watershed Indian Fork

District: Greenbrier County Doddridge Quadrangle Big Isaac 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 Archie Frye

ADDRESS 3679 Marlin Avenue, Dayton, Ohio

MINERAL RIGHTS OWNER WV Ross Heirs

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt. 2, Salem, WV

PERMIT ISSUED 9/16/87

DRILLING COMMENCED 9/21/87

DRILLING COMPLETED 9/28/87

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"	30		
9 5/8			
8 5/8		1191	to surface
7			
5 1/2			
4 1/2		5577	210 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet

Depth of completed well 5703 feet Rotary / Cable Tools _____

Water strata depth: Fresh 143 feet; Salt _____ feet

Coal seam depths: none reported _____ Is coal being mined in the area? no.

OPEN FLOW DATA

Producing formation Alexander-Benson

Pay zone depth 5432-5095 feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 381 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 1760 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 OCT 26 1987

Static rock pressure _____ psig (surface measurement) after _____ hours shut in

FORM MW-2 (B) FILE COPY
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1) Date: September 3 19 87
 2) Operator's Well No. S-687 William Ross #3
 3) API Well No. 017 3591 County State 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 B (If "Gas", Production Underground storage Deep Shallow
 5) LOCATION: Elevation: 1124 Watershed: Indian Fork
 District: Greenbrier County: Doddrige 017 Quadrangle: Big Isaac 7.5
 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
 Name Mike Underwood Name
 Address Route 2 Address
Salem, WV 26426

10) PROPOSED WELL WORK: Drill deeper Redrill Stimulate
 Plug off old formation Perforate new formation
 Other physical change in well (specify)

11) GEOLOGICAL TARGET FORMATION, Alexander/Benson

12) Estimated depth of completed well, 5500 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.			
Conductor	11 3/4			For drilling 30' Left in well		Kind
Fresh water						
Coal						
Intermediate	8 5/8			1175	CTS	Sizes <u>30CSR18-11.3</u>
Production	4 1/2			5600	400 SKS	to surface <u>30CSR18-11.2</u> Depths set <u>30CSR18-11.1</u>
Tubing						Perforations: Top <u> </u> Bottom <u> </u>
Liners						

OFFICE USE ONLY
 DRILLING PERMIT

47-017-3591

September 16 19 87
 Date

Permit number

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 September 16, 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>	WPCP: <input checked="" type="checkbox"/>	SAE: <input checked="" type="checkbox"/>	Other: <input type="checkbox"/>
				<u>1120</u>			

10786

John H. Roberts
 Director, Division of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

See the reverse side of the APPLICANT'S COPY for instructions to the well operator. File

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

<u>Alexander</u>	<u>5432-5458</u>	16 holes	Sand 80/100	5000 #	529	bb1	H ₂ O
<u>Benson</u>	<u>5095-5101</u>	16 holes	Sand 80/100	5000 #	598	bb1	H ₂ O
			Sand 20/40	50000 #			

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
GI			0	10	
Red Rock & Shale			10	163	
Sand			163	182	
Sand & Shale			182	312	
Sand & Shale & Red Rock			312	611	
Sand & Shale			611	625	
Red Rock			625	641	
Sand & Shale			641	681	
Red Rock			681	688	
Sand & Shale			688	894	
Red Rock			894	947	
Sand & Shale			947	2157	
Big Lime			2157	2295	
Sand & Shale			2295	5095	
Benson			5095	5105	
Sand & Shale			5105	5380	
Alexander			5380	5464	
Sand & Shale			5464	5703 TD	
Gamma Ray					
Big Lime			2160	2220	
Big Injun			2220	2300	
Benson			5095	5105	
Alexander			5380	5464	

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DEPARTMENT OF ENERGY

(Attach separate sheets as necessary)

Scott Oil Company
Well Operator
By: David Wright
Date: 10/20/87

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
well, encountered in the drilling of a well."