

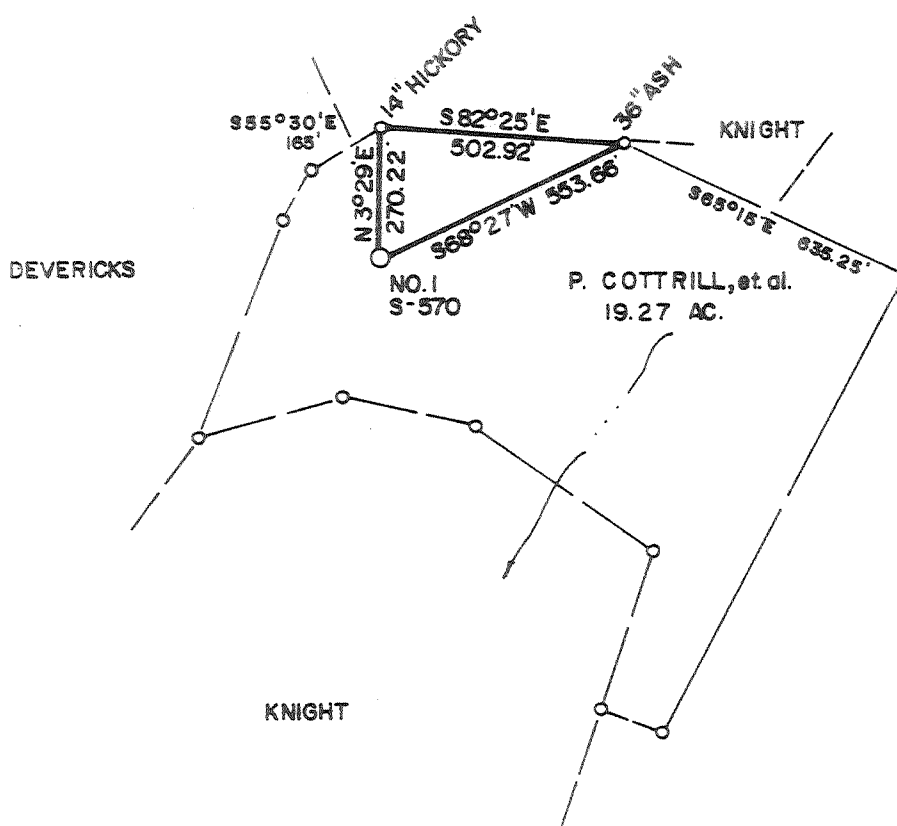
CODE _____ DATE _____ PLOT _____

FORD

HICKMAN

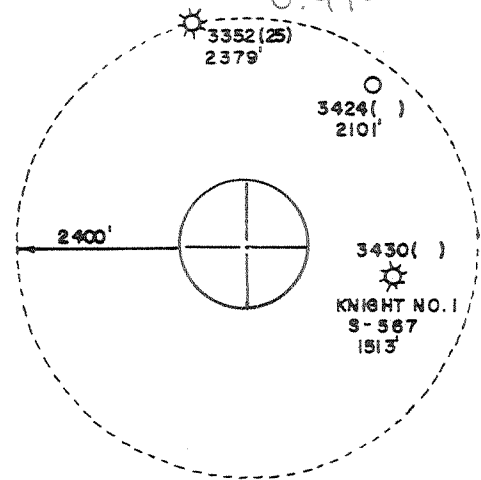
LONGITUDE 80° 35' 00"

NORTH



1.965
0.47w

1.965
0.47w



LAND SURVEYING SERVICES
 1412 N. 18TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

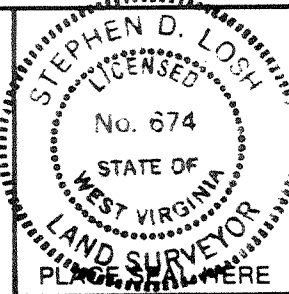
WELL REFERENCES:
 S50°30'W, 135' TO 6" HICKORY
 N45°E, 111' TO 6" ELM

(+) 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. 2000' S.W. OF LOCATION ELEV. - 974'

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) *Stephen D. Losh*
 R.P.E. _____ L.L.S. 674



STEPHEN D. LOSH

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE MAY 06, 19 85
 OPERATOR'S WELL NO. S-570
 API WELL NO. COTTRILL NO. 1
 47 - 017 - 3438
 STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 1326' WATER SHED INDIAN FORK
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252 Nadis 123 NCA
 SURFACE OWNER OPAL KNIGHT, et al. ACREAGE 46.05
 OIL & GAS ROYALTY OWNER PAULINE COTTRILL, et al. LEASE ACREAGE 22
 LEASE NO. 1885

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 5600'
 WELL OPERATOR JAMES E. SCOTT DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P. O. BOX 112 806 ADDRESS P. O. BOX 112
 SALEM, WV 26426 SALEM, WV 26426

JUN 17 2/4 1985

6-6 Meathouse Fork (Bristol) (146)

FORM IV-6 (8-78)

HT. HALL

COUNTY NAME PERMIT

IV-35
(Rev 8-81)

Lead
9/30/85



State of West Virginia
Department of Mines
Oil and Gas Division

Date September 27, 1985
Operator's
Well No. S-570
Farm Pauline Cottrill #1
API No. 47 - 017 - 3438

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: 1326 Watershed Indian Fork
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 Pearl Marks et al
ADDRESS Salem, WV 26426
MINERAL RIGHTS OWNER Pauline Cottrill
ADDRESS Salem, WV 26426
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Rt. 2, Salem, WV
PERMIT ISSUED June 12, 1985
DRILLING COMMENCED 9/11/85
DRILLING COMPLETED 9/17/85

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		1013	to surface
7			
5 1/2			
4 1/2		5679	800 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander, Benson, 5th Sand Depth feet
Depth of completed well 5744 feet Rotary / Cable Tools
Water strata depth: Fresh feet; Salt feet
Coal seam depths: 432-437, 1328-1334 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Alexander, Benson, 5th Sand Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 686 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1700 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

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

<u>Alexander</u>	<u>5543-5548</u>	Sand 80/100 70 sks 20/40 350 sks	527 bbl H ₂ O 2
<u>Benson</u>	<u>5216-5224</u>	Sand 80/100 80 sks 20/40 400 sks	536 bbl H ₂ O
<u>5th Sand</u> <i>F Bayard</i>	<u>3150-3252</u>	Sand 80/100 50 sks 20/40 280 sks	384 bbl H ₂ O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fr and salt water, coal, oil and
Sand & Clay			0	54	
Red Rock			54	63	
Sand & Shale			63	97	
Red Rock			97	108	
Sand & Shale			151	432	
Coal			432	437	
Sand & Shale			437	636	
Coal			636	639	
Sand & Shale			639	940	
Coal			940	947	
Sand & Shale			947	1328	
Coal			1328	1334	
Sand & Shale			1334	2275	
Lime			2275	2422	
Sand & Shale			2422	2916	
Sand			2916	2931	
Sand & Shale			2931	3666	
Sand			3666	3685	
Sand & Shale			3685	4562	
Sand			4562	4655	
Sand & Shale			4655	5720TD	
Gamma Ray Tops		✓			
Big Limw			2283	2340	
Big Injun	GER		2340	2436	from nearby log: Top Dev @ 2696'
5th Sand			3130	3160	
Lower Fifth	Bayard		3248	3260	
Benson			5214	5226	
Alexander		✓	5491	5590	

(Attach separate sheets as necessary)

Scott Oil Company

Well Operator

By:

Date:

September 27, 1985

David Wright

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



RECEIVED

MAY 22 1985

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

1) Date: _____, 19____
2) Operator's Well No. S-570 Pauline Cottrill
3) API Well No. 47 -017-3438
State County Permit

OIL & GAS DIVISION

- 4) WELL TYPE: DEPT. OF MINES /
B (If "Gas", Production / Underground storage _____ / Deep _____ / Shallow /)
- 5) LOCATION: Elevation: 1326 / Watershed: Indian Fork
District: Greenbrier / County: Doddridge / Quadrangle: Big Isaac
- 6) WELL OPERATOR: Scott Oil Company / DESIGNATED AGENT: Darrel Wright
Address: P. O. Box 112 / Address: P. O. Box 112
Salem, WV 26426 44315 / Salem, WV 26426
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED: Name Mike Underwood
Address: Route 2
Salem, WV 26426
- 9) DRILLING CONTRACTOR: Name _____
Address _____
- 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: Alexander Benson
- 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 /

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	11 3/4					30'			Kinds:
Fresh water									
Coal									Sizes
Intermediate	8 5/8						950	to surface	by rule 15.05
Production	4 1/2						5300	300 sks	Depths set
Tubing									or as required by
Liners									rule 15.01
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3438 Date June 12 19 85

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 June 12, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
<u>137</u>	<u>MU</u>	<u>MU</u>	<u>MU</u>	<u>129</u>

Margaret J. Hesse
Administrator, Office 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