

WELL REFERENCES:

N33° 30' E, 200' TO 30" W. OAK
N05° W, 100.50' TO 26" FORKED R. OAK

KNIGHT

CODE _____ CARD _____ PLOT

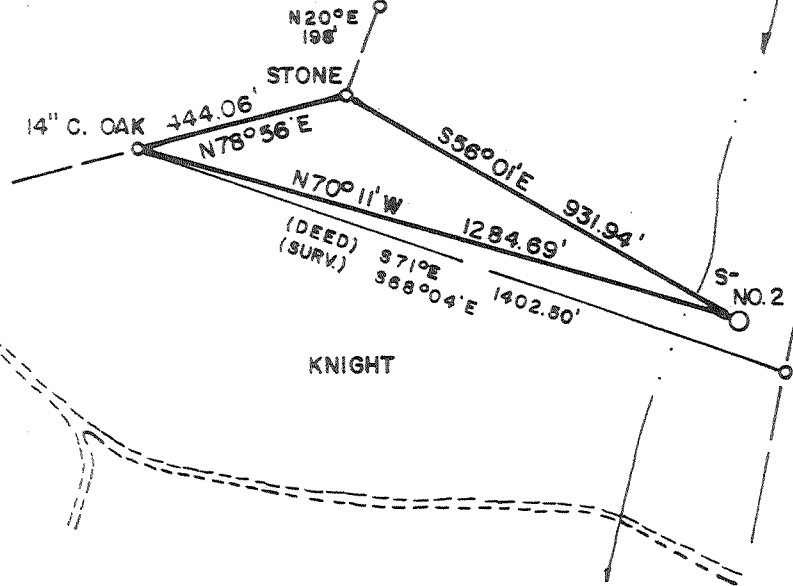
DEVERICKS

P. COTTRILL, et. al.
25.50 AC.

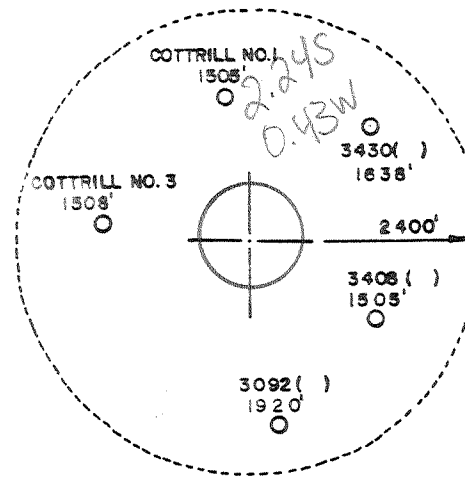
2.245
0.43W

LONGITUDE 80° 30' 00"
11,830'

NORTH



KNIGHT



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

(+) 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. 1500' 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) [Signature]
 R.P.E. _____ L.L.S. 674
STEPHEN D. LOSH

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JUNE 02, 19 85
 OPERATOR'S WELL NO. S-582
 API WELL NO. COTTRILL NO. 2
47-017-3449

WELL TYPE: OIL _____ GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS.") PRODUCTION STORAGE _____ DEEP _____ SHALLOW

LOCATION: ELEVATION 1044' WATERSHED INDIAN FORK
 DISTRICT GREENBRIER 4 COUNTY DODDRIDGE
 QUADRANGLE BIG ISAAC 7.5 min. 252 Radio 123 123 NC

SURFACE OWNER OPAL KNIGHT, et. al. ACREAGE 46.05
 OIL & GAS ROYALTY OWNER PAULINE COTTRILL, et. al. LEASE ACREAGE 46.05
 LEASE NO. _____

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 5350'
 WELL OPERATOR SCOTT OIL COMPANY 774 DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
SALEM, WV 26426 66 Jarriville (146)(45) SALEM, WV 26426

COUNTY NAME

PERMIT

JUL 15 1985



Date October 3, 1985

Operator's

Well No. S-582

Farm Pauline Cottrill #2

API No. 47 - 017 - 3449

RECEIVED
OCT - 4 1985

State of West Virginia

Department of Mines

Oil and Gas Division

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL OPERATOR'S REPORT
OF

IV-35
(Rev 8-81)

RECEIVED
OCT 9 - 1985

DIVISION OF OIL & GAS DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE
DEPT. OF ENERGY

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

LOCATION: Elevation: 1044 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 Salem, WV
PERMIT ISSUED 7/8/85
DRILLING COMMENCED 9/17/85
DRILLING COMPLETED 9/22/85
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"	40'		
9 5/8			
8 5/8		815	to surface
7			
5 1/2			
4 1/2		5370	745 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander, Benson, Bradford, 5th Depth feet
Depth of completed well 5430 feet Rotary Sand Cable Tools
Water strata depth: Fresh 110 feet; Salt 1720 feet
Coal seam depths: 390-394 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Alexander, Benson, Bradford Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 671 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours
Static rock pressure 1750 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

OCT 21 1985

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

Alexander	5270-5295	Sand 20/40	350 sks	522 bbl H ₂ O
Benson	4946-4950	Sand 20/40	450 sks	581 bbl H ₂ O
Bradford	4427-4451	Sand 20/40	280 sks	413 bbl H ₂ O
		80/100	50 sks	
5th Sand	2866-2869	Sand 20/40	200 sks	334 bbl H ₂ O

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fre and salt water, coal, oil and
Silt & Shale			50	110	
Sand			110	180	
Sand & Shale			180	390	
Coal			390	394	
Sand & Shale			394	830	
Red Rock & Shale			830	1115	
Sand			1115	1160	
Sand & Shale			1160	1999	
Big Lime			1999	2076	
Sand <i>Injun - GER</i>			2076	2150	
Sand & Shale			2150	2635	
Sand - <i>Gordon</i>			2635	2647	
Sand & Shale			2647	2854	
Sand - <i>5th</i>			2854	3000	
Sand & Shale			3000	3074	
Sand			3074	3120	
Sand & Shale			3120	4410	
Sand - <i>Bradford</i>			4410	4440	
Sand & Shale			4440	5285	
Sand - <i>Alexander</i>			5285	5312	
Sand & Shale			5312	5430 TD	
					<i>Alex @ TD.</i>
Gamma Ray Tops ✓					
Big Lime			2010	2070	
Big Injun			2070	2160	
Gordon			2647	2725	
5th Sand			2853	2870	
Bradford			4425	4455	
Benson			4940	4950	
Alexander			5270	5300	

*How nearby gamma ray log is
p Dev = 2400'*

(Attach separate sheets as necessary)

Scott Oil Company
Well Operator
By: *Daniel Wright*
Date: *12/3/52*

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."

REVISED

JUN 10 1985



1) Date: _____, 19____
 2) Operator's Well No. S-582 Pauline Cottrill #2
 3) API Well No. 47 - 017-3449
 State County Permit

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

DIVISION
DEPT. OF MINES

- 4) WELL TYPE: A Oil _____ Gas X /
 B (If "Gas", Production X / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 1044 Watershed: Indian Fork
 District: Greenbrier County: Doddridge Quadrangle: Big Isaac
- 6) WELL OPERATOR Scott Oil Company (774) 7) 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 9) DRILLING CONTRACTOR:
 Name Mike Underwood Name _____
 Address Route 2 Address _____
Salem, WV 26426
- 10) PROPOSED WELL WORK: Drill X / Drill deeper _____ / Redrill _____ / Stimulate _____ /
 Plug off old formation _____ / Perforate new formation _____ /
 Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Alexander, Benson (439)
- 12) Estimated depth of completed well, 5350 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 FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor	11 3/4					120-200'	200'	CFS	Kinds
Fresh water								by rule	Sizes
Coal									
Intermediate	8 5/8						1450	to surface	
Production	4 1/2						5400	300 sks	Depths set:
Tubing									
Liners									Perforations:
									Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3449 Date July 8 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 July 8, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
137	ALB	MW	MW	156

Margaret J. Hasse
 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