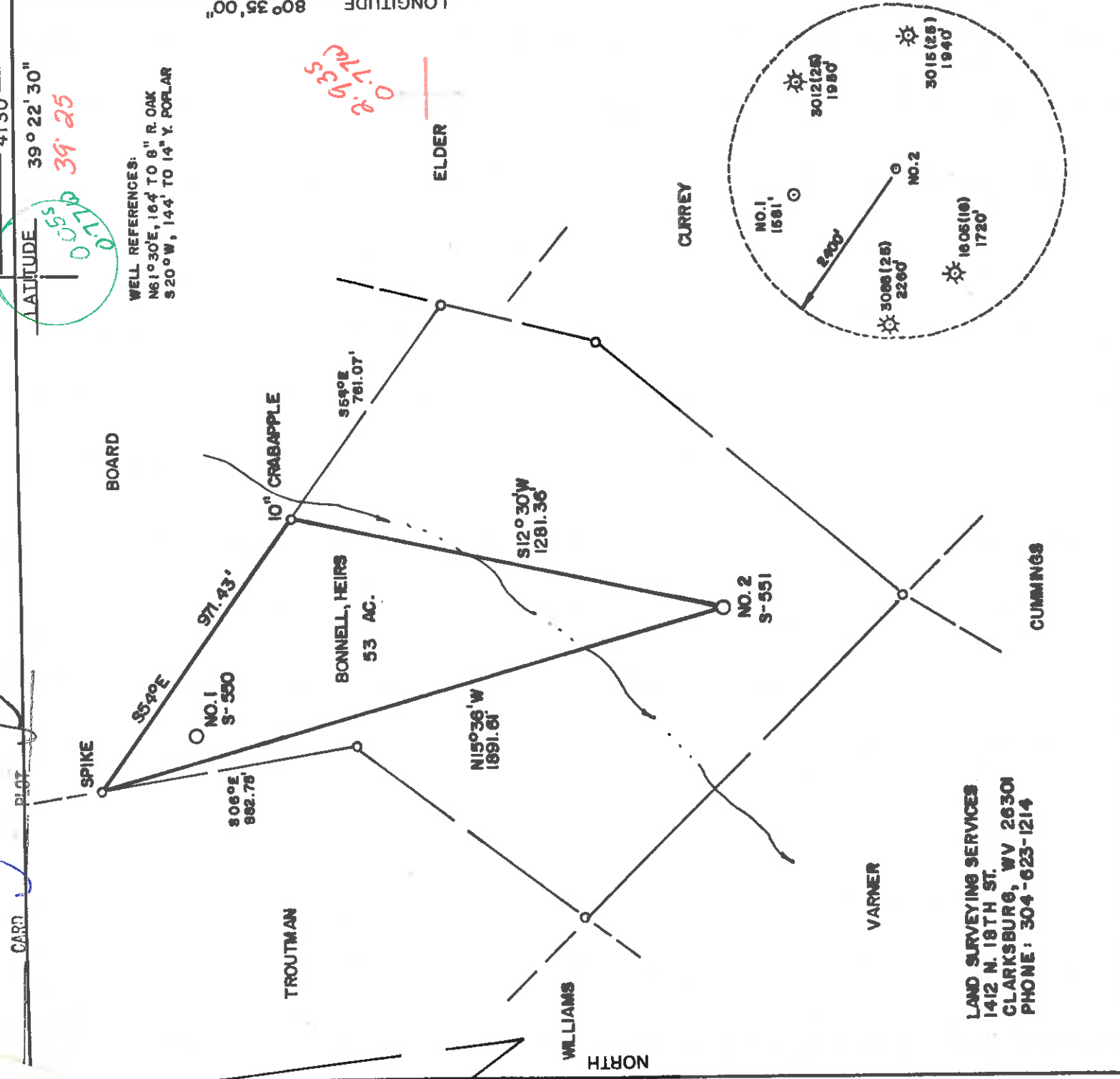


CARD PLOT LATITUDE 41 30' 39° 22' 30" LONGITUDE 80° 35' 00"

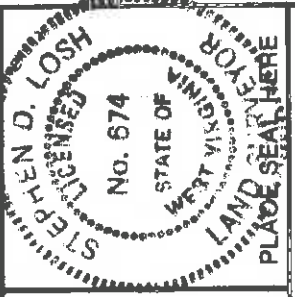


LAND SURVEYING SERVICES
 1412 N. 18TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-623-1214

(+) 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 BM 1900' S. OF LOCATION ELEV. - 928'

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.S. 674
 STEPHEN D. LOSH



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

DATE OCTOBER 15, 1984
 OPERATOR'S WELL NO. S-551
 API WELL NO. BONNELL NO. 2

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1038' WATER SHED ROBINSON FORK
 DISTRICT McCLELLAN COUNTY DODDORIDGE
 QUADRANGLE SALEM 7.5 min. 596 Center point 15' C.S.
 SURFACE OWNER BETTY J. SWIGER ACREAGE 48
 OIL & GAS ROYALTY OWNER BONNELL, HEIRS LEASE ACREAGE 53

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 LEASE NO. 1581

PLUG AND ABANDON CLEAN OUT AND REPLUG _____
 TARGET FORMATION BENSON ESTIMATED DEPTH 5100'
 WELL OPERATOR JAMES F. SCOTT DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS R.O. BOX 112
 SALEM, WV 26426 SALEM, WV 26426

FORM IV-6 (8-78) H.T. HALL

6-6 Smithton-Flint-Sedalia (99) DEC 09 1984



IV-35
(Rev 8-81)

Date January 3, 1985
Operator's
Well No. S-551 Bonnell Heirs #1
Farm Bonnell Heirs #1
API No. 47 - 017 - 3386

State of West Virginia
Department of Mines
Oil and Gas Division

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: 1038 Watershed Robinson Fork
District: McClellan County Doddridge Quadrangle Salem 7.5

COMPANY James F. Scott
ADDRESS P. O. Box 112, Salem, WV 26426
DESIGNATED AGENT Darrel Wright
ADDRESS P. O. Box 112, Salem, WV 26426
SURFACE OWNER Betty J. Swiger
ADDRESS 3476 Wilson Avenue, Stow, Ohio 44224
MINERAL RIGHTS OWNER Ruth Bonnell
ADDRESS 36752 Harper, Mt. Clemens, Michigan
OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Rt. 2, Salem, WV
PERMIT ISSUED 11/29/84
DRILLING COMMENCED 12/8/84
DRILLING COMPLETED 12/14/84
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		1220	to surface
7			
5 1/2			
4 1/2		5135	520 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION

Depth of completed well 5175 feet Rotary / Cable Tools
Water strata depth: Fresh 50,90, feet; Salt 412 feet
Coal seam depths: 568-580, 232-236 Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson Pay zone depth 5006-5009 feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 1900 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 4 hours

Static rock pressure 1600# 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 18 hours
Static rock pressure psig (surface measurement) after hours shut in

(Continued on reverse side)

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

Benson Perfs 5006-5009

Sand 80/100 10,000# 625 bb1 H₂O
24/40 40,000 #

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Top soil			0	15	Including indication of all free and salt water, coal, oil and gas
Sand			15	25	
Shale			25	59	
Sand			59	166	
Shale			166	175	
Sand			175	192	
Shale			192	198	
Sand			198	207	
Shale			207	223	
Sand			223	232	
Coal			232	236	
Shale			236	246	
Sand			246	340	
Shale			340	358	
Sand & Shale			358	500	
Shale			500	527	
Sand			527	530	
Shale			530	568	
Coal			568	580	
Shale			580	670	
Sand			670	700	
Shale			700	1260	
Sand			1260	1565	
Shale			1565	1649	
Sand			1649	1724	
Shale			1724	1850	
Shale			1850	1865	
Little Lime			1865	1886	
Shale			1886	1991	
Big Lime			1991	2646	
Sand & Shale			2646	2686	
Gordon			2686	2780	
Shale			2780	2786	
4th Sand			2786	4297	
Sand & Shale			4297	4329	
Sand			4329	5175TD	
Shale			4329	5175TD	

✓ Gamma Ray Tops:
Big Lime 1896-1954
Big Injun 1954-2032
Pocono 2050-2090
5th Sand 2748-2786
Benson 5010-5020

(Attach separate sheets as necessary)

James F. Scott

WEN Operator

By: James F. Scott

Date: January 2, 1985

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 ^{and} intervals encountered in the drilling of a well."



FILE COPY RECEIVED
1984

- 1) Date: November 8, 1984
- 2) Operator's Well No. S-551 Bonnell Heirs #2
- 3) API Well No. 47 - 017 - 3386
State County Permit

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

- 4) WELL TYPE: A Oil / Gas X
B (If "Gas", Production X / Underground storage / Deep / Shallow)
- 5) LOCATION: Elevation: 1038 Watershed: Robinson Fork
District: McClellan County: Doddridge Quadrangle: Salem 7.5
- 6) WELL OPERATOR: James F. Scott 7) DESIGNATED AGENT: Darrel Wright
Address: P. O. Box 112 Address: P. O. Box 112
Salem, WV 26426 Address: 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 / deeper / Redrill / Stimulate X
Plug off old formation / Perforate new formation
Other physical change in well (specify)

- 11) GEOLOGICAL TARGET FORMATION, BENSON
- 12) Estimated depth of completed well, 5100 feet
- 13) Approximate true 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		
Conductor	11 3/4					30'	
Fresh water							
Coal							
Intermediate	8 5/8					750'	to surface
Production	4 1/2					4900'	250 sks
Tubing							
Liners							

**OFFICE USE ONLY
DRILLING PERMIT**

Permit number 47-017-3386 Date November 29, 1984

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 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing:	Fec:
137	JU	75	JFH	2552

Margaret Hoover
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

