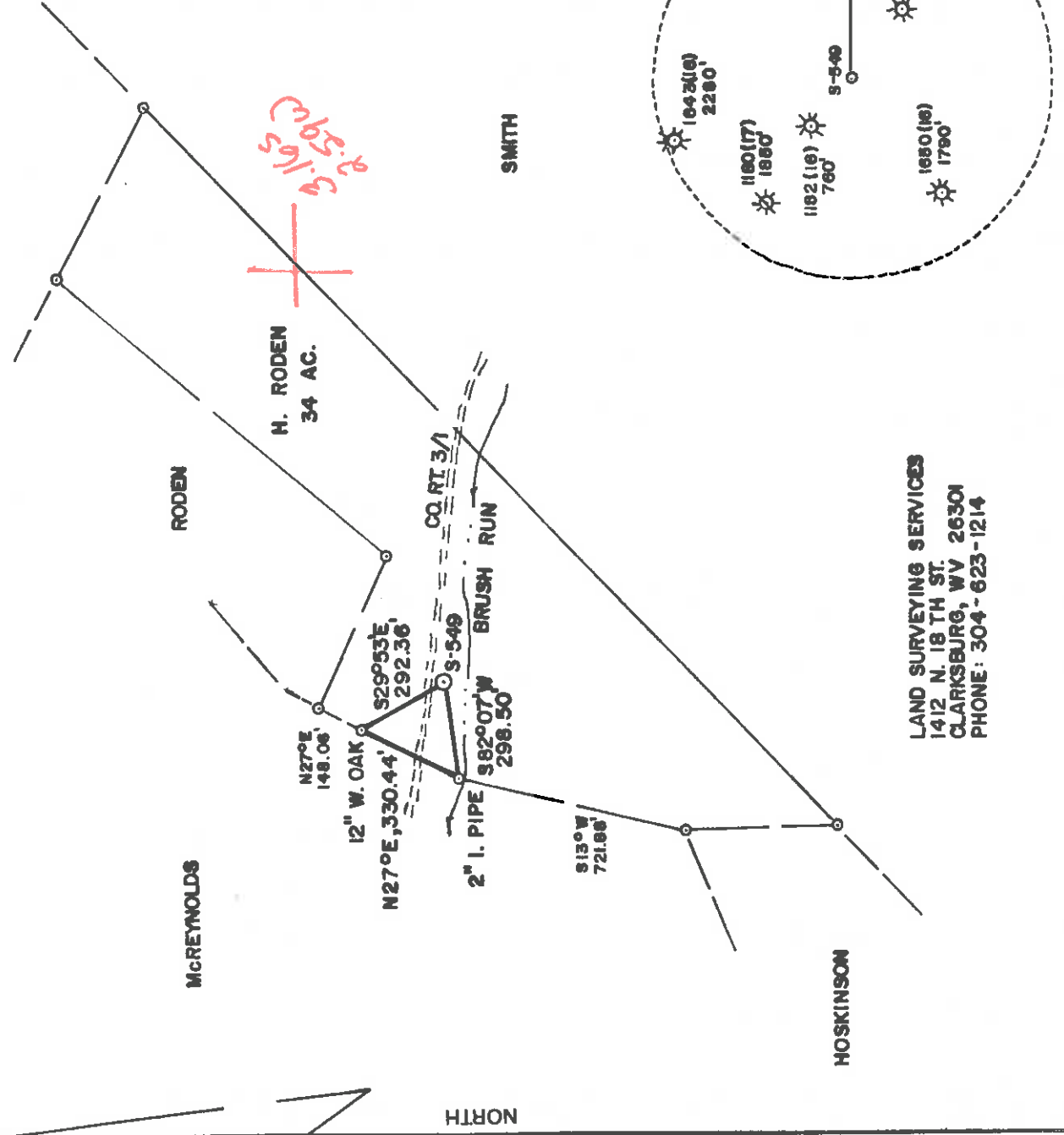


2010 11/20/84

39 28' 2020

LATITUDE 39°22'30" LONGITUDE 80°42'30"

WELL REFERENCES:
S02°30'W, 59' TO 24" SYCAMORE
S74°30'W, 139' TO 14" B. WALNUT



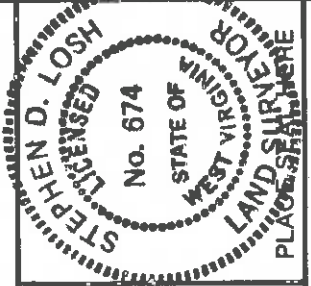
LAND SURVEYING SERVICES
1412 N. 18 TH ST.
CLARKSBURG, WV 26301
PHONE: 304-623-1214

(+) 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 TOP OF KNOB 3000' W.
OF LOCATION ELEV. - 1217'

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 OCTOBER 10 19 84
OPERATOR'S WELL NO. S-549
API WELL NO. RODEN NO. 1

47 - 017 - 3381

STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL _____
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 776' WATER SHED BRUSH RUN
DISTRICT GRANT 3 COUNTY DODDRIDGE
QUADRANGLE 612 SMITHBURG 7.5 min. Center point 15' 6104
SURFACE OWNER Albert C. Leasure
OIL & GAS ROYALTY OWNER HARRY RODEN LEASE ACREAGE 34
LEASE NO. 1722

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 BENSON ESTIMATED DEPTH 5000'
WELL OPERATOR JAMES F. SCOTT 802 DESIGNATED AGENT DARREL WRIGHT
ADDRESS P. O. BOX 112 ADDRESS P. O. BOX 112
SALEM, WV 26426 SALEM, WV 26426

PERMIT
DEC 0 0 1984

6-6 Smithton-Flint-Sedalia (99)



Date January 15, 1985
 Operator's Well No. S-549
 State of West Virginia
 Department of Mines
 Oil and Gas Division
 Farm Harry Roden
 API No. 47 - 017 - 3381

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: 776 Water shed Brush Run
 District: Grant County Doddridge Quadrangle Smithburg 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 Albert Leasure

ADDRESS Box 60, West Union, WV 26456

MINERAL RIGHTS OWNER Harry Roden

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK Mike

Underwood ADDRESS Rt. 2, Salem, WV 26426

PERMIT ISSUED 11/20/84

DRILLING COMMENCED 11/30/84

DRILLING COMPLETED 12/6/84

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.	75'		
13-10"			
9 5/8			
8 5/8		1228	to surface
7			
5 1/2			
4 1/2		4955	100 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson

Depth of completed well 5017 feet Rotary / Cable Tools Depth feet

Water strata depth: Fresh 18' feet; Salt feet

Coal seam depths: no coal Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Benson Pay zone depth 4869-4872 feet

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

Final open flow 239 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests 4 hours

Static rock pressure 1550 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.

Benson Perfs 4869-4872 Sand 80/100 100 sks
20/40 375 sks

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fractures and salt water, coal, oil and gas
Topsoil			0	18	
Shale			18	168	
Sand & Shale			168	202	
Shale			202	217	
Sand & Shale			217	470	
Shale			470	760	
Sand			760	790	
Shale			790	1068	
Sand			1068	1099	
Shale			1099	1130	
Sand			1130	1161	
Shale			1161	1270	
Sand			1270	1318	
Shale			1318	1710	
Shale			1710	1723	
Little Lime			1723	1738	
Blue Monday			1738	1848	
Big Lime			1848	1876	
Shale			1876	1948	
Big Injun			1948	1980	
Sand			1980	2110	
Shale			2110	2250	
Sand			2250	2550	
Shale			2550	2572	
Gordon			2572	4865	
Shale			4865	4920	
Benson			4920	<u>5017TD</u>	
Shale					
Gamma Ray Tops			1762		
Big Lime			2114		
Weir			2535		
Gordon			4868		
Benson					

(Attach separate sheets as necessary)

James F. Scott
Well Operator
By: J. Scott
Date: January 15, 1985

Note: Regulation 2.02(i) provides as follows:
The term 'log' or 'well log' shall mean a systematic
formal geological record of all formations including

1) Date: October 29, 19 84
 2) Operator's Well No. Harry Roden S-549
 3) API Well No. 47 - 017 - 3381 State County Permit



RECEIVED
 OCT 31 1984

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

OIL & GAS DIVISION
 DEPT. OF MINES

WELL TYPE: A Oil Gas B (If "Gas", Production Undergrnd storage Deep Shallow
 Elevation: 776 Watershed: Brush Run
 District: Grant County: Doddridge Quadrangle: Smithburg 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 Salem, WV 26426

8) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Mike Underwood Name
 Address Route 2 Address
Salem, WV 26426 Salem, WV 26426

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, BENSON
 12) Estimated depth of completed well, 5000 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	16"			For drilling 30'		
Fresh water	13 3/8"			Left in well 100'	CTS MEAT	Kind CTS MEAT Size
Coal				1125	to surface	
Intermediate	8 5/8"			4950	300 SKS	Depths set
Production	4 1/2"					Perforations: Top Bottom
Tubing						
Liners						

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3381 Date November 20, 19 84

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 20, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond:	Agent:	Plat:	Casing	Fee
137	RW	MU	MU	531

Margaret J. Haan
 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

