

WELL REFERENCES:
 S86°30'W, 195' TO POWER POLE 50 6
 N70°40'E, 244' TO POWER POLE 50 9

LAND SURVEYING SERVICES
 1419 NORTH 10 TH ST.
 CLARKSBURG, WV 26301
 PHONE: 304-823-1214

FILE NO. _____
 DRAWING NO. _____
 SCALE one inch = 400 feet
 MINIMUM DEGREE OF _____
 ACCURACY one in 200
 PROVEN SOURCE OF _____
 ELEVATION well no. 1887, 2865'
northwest of location elevation 1036

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. Lorb
 R.P.E. _____ L.I.S. NO. 674
 STEPHEN D. LORB



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE JULY 25, 19 84
 OPERATOR'S WELL NO. McMILLAN NO. 1
 API WELL NO. S-528
47-017 STATE 47 COUNTY DOODRIDGE PERMIT
 LEASE NO. 1736

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

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

LOCATION: ELEVATION 848' WATER SHED NEDS RUN

DISTRICT GRANT COUNTY DOODRIDGE
 QUADRANGLE SMITHBURG 4-1 Centerpoint 15, 264
 SURFACE OWNER CLYDE McMILLAN ESTATE ACREAGE 284.99
 OIL & GAS ROYALTY OWNER JOHN I. McMILLAN LEASE ACREAGE 12

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 ESTIMATED DEPTH 5400'
 WELL OPERATOR JAMES E. SCOTT DESIGNATED AGENT DARREL WRIGHT
 ADDRESS P.O. BOX 112 ADDRESS P.O. BOX 112
SALEM, WV 26426 SALAM, WV 26426

RECEIVED

NOV 13 1984

IV-35
(Rev 8-81)

OIL & GAS DIVISION

DEPT. OF MINES OF West Virginia

Department of Mines

Oil and Gas Division

Date November 9, 1984

Operator's S-528

Well No.

Farm John McMillan #2

API No. 47 - 017 - 3355

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: 848 Watershed Neds Run
District: Grant County Doddridge Quadrangle Smithburg

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 Clyde McMillan Estate
ADDRESS Route 2, West Union, WV 26456
MINERAL RIGHTS OWNER John McMillan
ADDRESS Weirton, WV 26062

OIL AND GAS INSPECTOR FOR THIS WORK Mike
Underwood ADDRESS Route 1, Salem, WV
PERMIT ISSUED 9/10/84
DRILLING COMMENCED 9/18/84
DRILLING COMPLETED 9/26/84

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.	25'		
13-10"	79'		
9 5/8			
8 5/8		920'	to surface
7			
5 1/2			
4 1/2		4985'	465 sks
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth feet
Depth of completed well 5011 feet Rotary x / Cable Tools
Water strata depth: Fresh 25-30' feet; Salt 45' feet
Coal seam depths: 150-154, Is coal being mined in the area?

OPEN FLOW DATA

Producing formation Benson, Fifth Sand Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow 119 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours
Static rock pressure 1100 # 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

DEC 03 1984

(Continue on reverse side)

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

Benson Perfs 4869-4872 100 sks 80/100 sand
 350 sks 20/40 sand
5th Sand Perfs 2821-2825 20/40 sand 250 sks

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fire and salt water, coal, oil and g.
Sand & Gravel			0	30	
Shale			30	150	
Coal			150	154	
Shale			154	268	
Sand			268	284	
Sand & Shale			284	349	
Shale			349	416	
Sand & Shale			416	660	
Shale			660	782	
Sand & Shale			782	848	
Sand			848	917	
Sand & Shale			917	1650	
Shale			1650	1712	
Little Lime			1712	1725	
Blue Monday			1725	1753	
Big Lime			1753	1845	
Shale			1845	1875	
Sand			1875	1937	
Shale			1937	2120	
Sand			2120	2301	
Sand & Shale			2301	2321	
Sand			2321	2329	
Sand & Shale			2329	2526	
Gordon			2526	2539	
Sand			2539	2551	
Sand & Shale			2551	2676	
Shale			2676	2832	
Sand 5th			2832	3000	
Shale			3000	3320	
Sand			3320	3331	
Sand			3331	3341	
Shale			3341	3726	
Sand			3726	4324	
Shale			4324	4890	
Sand			4890	4511	
Shale			4511	4573	
Sand			4573	4813	
Sand			4813	4873	
Shale			4873	5011 TD	

(Attach separate sheets as necessary)

James F. Scott

Well Operator

By: James F. Scott

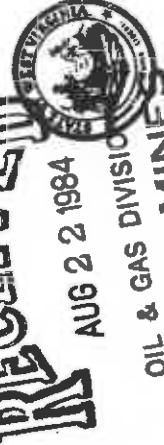
Date: 11/9/84

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
 sandstone, limestone, shale, etc."

1) Date: August 15, 19 84

2) Operator's S-528 John McMillan #1
Well No.

3) API Well No. 47 - 017 - 3355
State County Permit



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

4) WELL TYPE: A Oil Gas B (If "Gas", Production Underground storage Shallow
Elevation: 848 Watershed: Neds Run 0 Mi 30 H4 Deep Smithburg

5) LOCATION: District: Grant County: Doddridge Quadrangle: Darrel Wright

6) WELL OPERATOR: James F. Scott P.O. Box 112 Address: Salem, WV 26426
7) DESIGNATED AGENT: Darrel Wright P.O. Box 112 Address: Salem, WV 26426

8) OIL & GAS INSPECTOR TO BE NOTIFIED: Mike Underwood
9) DRILLING CONTRACTOR: Name: Address: Stimulus: Address:

10) PROPOSED WELL WORK: Drill deeper Drill deeper Redrill Stimulus
Plug off old formation Perforate new formation
Other physical change in well (specify) Alexander 5400 feet
Is coal being mined in the area? Yes No

11) GEOLOGICAL TARGET FORMATION, Alexander 5400 feet
12) Estimated depth of completed well, 5400 feet
13) Approximate true depths: Fresh, 5400 feet; salt, 5400 feet
14) Approximate coal seam depths:

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	1 3/4						
Fresh water							
Coal							
Intermediate	8 5/8						
Production	4 1/2						
Tubing							
Liners							

Left in well: 30'
For drilling: 1000'
5400'
to surface
200 sks
or as required by
Perforate rule 15.01

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-017-3355 Date September 10, 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 September 10, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: 137	Agent: <u>Lo</u>	Plat: <u>MUMH 240</u>	Casing	Fee
BLANKET				

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

