

NORTH

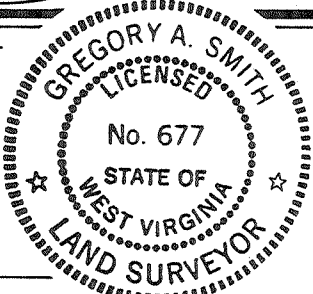
LONGITUDE 80-47-30

14,800



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 ENERGY.

L.L.S. *Gregory A. Smith*  
 677



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


DATE MAY 25, 19 89

OPERATORS WELL NO. MAXWELL HEIRS NO. 3

API WELL NO. 47 - 017 - 3735  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2060 (28-8)  
 PROVEN SOURCE OF ELEVATION BENCH MARK ELEV. 751 SCALE 1" = 500'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENERGY  
 OIL AND GAS DIVISION



WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 756' WATERSHED MIDDLE ISLAND CREEK 15' EC

DISTRICT WEST UNION COUNTY PODDRIDGE QUADRANGLE WEST UNION 7.5' 671  
 SURFACE OWNER JOE McCONNEL ACREAGE 26 133  
 ROYALTY OWNER CHARLES MAXWELL HRS. et.al. LEASE ACREAGE 26 OF 105

PROPOSED WORK:  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION BENSON  
 ESTIMATED DEPTH 4838'

WELL OPERATOR QUAKER STATE CORP. 721 DESIGNATED AGENT FRANK ROTUNDA  
 ADDRESS 1226 PUTNAM-HOWE DR. BELPRE, OHIO 45714 ADDRESS PO BOX 823 PARKERSBURG, WV 26102

COUNTY NAME PERMIT

RECEIVED  
SEP 28 1989

API # 47-17-03735

State of West Virginia  
DEPARTMENT OF ENERGY  
Division of Oil and Gas

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY  
Farm name: McCONNELL, JOE Well Operator's Report of Well Work

Operator Well No.: MAXWELL HEIRS#2

LOCATION: Elevation: 756.00 Quadrangle: WEST UNION

District: WESTUNION County: DODDRIDGE  
Latitude: 14800 Feet South of 39 Deg. 22Min. 30 Sec.  
Longitude: 5050 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: QUAKER STATE CORPORATION

1226 PUTNAM HOWE DR. P O B 189 | Casing | Used in | Left | Cement

BELPRE, OH 45714-0000

Agent: FRANK R. ROTUNDA

Inspector: MIKE UNDERWOOD  
Permit Issued: 07/07/89  
Well work Commenced: 08/03/89  
Well work Completed: 08/10/89  
Verbal Plugging  
Permission granted on:  
Rotary Cable Rig  
Total Depth (feet) 4882'  
Fresh water depths (ft) N/A  
Salt water depths (ft) N/A

& Tubing Size	Drilling	in Well	Fill Up Cu. Ft.
11 3/4"	132'	132'	70 sx. C.T.S.
8 5/8"	1715'	1715'	390 sx.
4 1/2"	4763'	4763'	205 sx.

Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

OPEN FLOW DATA

Producing formation Benson Pay zone depth (ft) 4656-62  
Gas: Initial open flow -- MCF/d Oil: Initial open flow -- Bbl/d  
Final open flow 100 MCF/d Final open flow -- Bbl/d  
Time of open flow between initial and final tests 24 Hours  
Static rock Pressure 1900 psig (surface pressure) after 24 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: Duane Clark  
QUAKER STATE CORPORATION

By: Duane Clark  
Date: September 26, 1989

SEP 29 1989

SEP 29 1989

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

Perforated in Benson from 4656' - 4662' with 19 shots, .39 hole.

Fractured with 75 sx. 80/100 sand, 525 sx. 20/40 sand, and 976.3 bbl. water with 325,000 SCF N<sub>2</sub>. Average pressure: 2505 PSI, average rate: 17.6 PSI, average HHP: 1086, ISIP: 1852 PSI, at 5 minutes: 1511 PSI.

<u>FORMATION</u>	<u>TOP FEET</u>	<u>BOTTOM FEET</u>
Surface	0	132
Shale/sandstone	132	1158
Salt sands	1158	1449
Shale	1449	1587
Little Lime	1587	1607
Pencil Cave	1607	1610
Big Lime	1610	1695
Big Injun	1695	1804
Shale	1804	1948
Weir	1948	2052
Berea	2052	2056
Shale/siltstone	2056	4205
Riley	4205	4245
Benson	4245	4652
Shale	4652	4882 T.D.

972

29

47-017-3735

Issued 7/7/89 Expired 7/7/91

Page 3 of 9

FORM WW-2B

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: Quaker State Corporation *40400, 8, 670*
- 2) Operator's Well Number: Maxwell Heirs #2 3) Elevation: 844
- 4) Well type: (a) Oil  / or Gas  /  
(b) If Gas: Production  / Underground Storage  /  
Deep  / Shallow  /
- 5) Proposed Target Formation(s): Benson, Riley
- 6) Proposed Total Depth: 4838 feet
- 7) Approximate fresh water strata depths: 196'
- 8) Approximate salt water depths: 1240'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  / No  /
- 11) Proposed Well Work: Drill & Stimulate New Well
- 12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11 3/4"	H-40	42	30'	---	---
Fresh Water	8 5/8"	H-40	23	<del>1344</del>	<del>1344</del>	<i>38 CR 18 11.3</i> CTS O.T.S.
Coal				<i>1000'</i>	<i>1000'</i>	
Intermediate						
Production	4 1/2"	J-55	9.5	4838	4838 ←	As required by 38 CR 18 11.1
Tubing						
Liners						

9172

PACKERS : Kind \_\_\_\_\_  
Sizes \_\_\_\_\_  
Depths set \_\_\_\_\_

RECEIVED  
JUN 13 1989

19313  
15 Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP  
 Plat  WW-9  WW-2B  Bond Blanket Sure Agent  
(Type)

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

RECEIVED  
JUN 13 1989

Page 1 of 9  
Form WW2-A  
(09/87)  
File Copy

DIVISION OF OIL & GAS  
DEPARTMENT OF ENERGY

1) Date: May 30, 1989  
2) Operator's well number  
Maxwell Heirs #3  
3) API Well No: 47 - 017 - 3735  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name <u>J. McConnell</u> Address <u>Mid. Star Route Box 418</u> <u>West Union, WV 26456</u></p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p>	<p>5) (a) Coal Operator:</p> <p>Name <u>N/A</u> Address _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>N/A</u> Address _____</p> <p>Name _____ Address _____</p>
<p>6) Inspector <u>Harold Mike Underwood</u> Address <u>Rt. 2, Box 114</u> <u>Salem, WV 26426</u> Telephone (304)- <u>782-1043</u></p>	<p>(c) Coal Lessee with Declaration Name <u>N/A</u> Address _____</p>

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR  
XX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 6 on the above named parties, by:

- XX Personal Service (Affidavit attached)
- \_\_\_\_\_ Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Quaker State Corporation  
By: Frank Rotunda  
Its: Designated Agent  
Address P.O. Box 823  
Parkersburg, WV 26102  
Telephone (614) 423-9543

Subscribed and sworn before me this 9th day of June, 1989

My commission expires \_\_\_\_\_  
Dolores L. Branch  
Notary Public, State Of Ohio Dolores L. Branch Notary Public  
My Commission Expires March 14, 1990