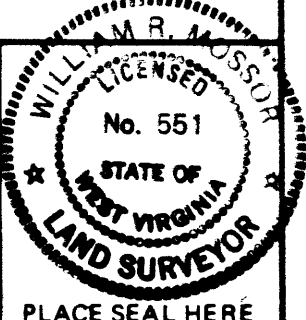


FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=100'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION STREET INT. ELEV. 710'

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) William R. Mossor
 R.P.E. _____ L.L.S. 551



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE 20 SEPTEMBER, 19 85
 OPERATOR'S WELL NO. 3
 API WELL NO. _____
47 - 029 - 0121
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS,") PRODUCTION STORAGE _____ DEEP _____ SHALLOW
 LOCATION: ELEVATION 715' WATER SHED MARKS RUN
 DISTRICT CHESTER CORP. COUNTY HANCOCK
 QUADRANGLE EAST LIVERPOOL SOUTH 330 131 EC6 Wellsville
 SURFACE OWNER HANS F. DIETZ ACREAGE 9.5247
 OIL & GAS ROYALTY OWNER HANS F. DIETZ LEASE ACREAGE 3.53
 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 LOWER DEVONIAN ESTIMATED DEPTH 4000 6-6 Smiths Ferry (4)
 WELL OPERATOR G.O.W. RESOURCES DESIGNATED AGENT RUSSELL G. SMITH
 ADDRESS PO. BOX 191 423 CHESTER, WV. 26034 ADDRESS ROUTE 1 BOX 66 CHESTER, WV 26034



RECEIVED
DEPARTMENT OF ENERGY
OIL AND GAS

State of West Virginia

DEPARTMENT OF ENERGY
Oil and Gas Division

APR 4 1986

Date April 2, 1986
Operator's
Well No. G.O.W. #3
Farm Dietz
API No. 47-029-0121

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 715' Watershed Marks Run
District: Grant County Hancock Quadrangle East Liverpool-South

COMPANY G.O.W. Resources

ADDRESS P.O. Box 191 Chester, W.VA. 26034

DESIGNATED AGENT Russell G. Smith

ADDRESS R.D. #1 Box 66 Chester, W.VA. 26034

SURFACE OWNER Hans Dietz

ADDRESS 205 Carolina Ave. Chester, W.Va.

MINERAL RIGHTS OWNER Hans Dietz

ADDRESS 205 Carolina Ave. Chester, W.Va.

OIL AND GAS INSPECTOR FOR THIS WORK Donald

Ellas ADDRESS Fairmont, W.Va.

PERMIT ISSUED December 6, 1985

DRILLING COMMENCED December 7, 1985

DRILLING COMPLETED March 8, 1986

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing & Tubing Size Cond.	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16			
13-10"			
9 5/8	28'	28'	
8 5/8	80'	80'	
7	459'	459'	To surface
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Berea Sand Depth 529-566 feet

Depth of completed well 618 feet Rotary / Cable Tools X

Water strata depth: Fresh 60-130 feet; Salt feet

Coal seam depths: none Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Berea Sand Pay zone depth 543-560 feet

Gas: Initial open flow 20,000 Mcf/d Oil: Initial open flow Show Bbl/d

Final open flow 30,000 Mcf/d Final open flow 1/4 Bbl/d

Time of open flow between initial and final tests 48 hours

Static rock pressure 80 psig (surface measurement) after 24 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

(Continue on reverse side)

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

Shot Well with 105qts. of Nitro. Had shot tamped in.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Fill Dirt	Mixed	Soft	0	20'	
Sand and Gravel	Brown	Soft	20'	80'	Water 60ft. Fresh
Rock	Blue	Hard	80'	110'	Water 130ft. Fresh
Shale	Dark Gray	Med. Hard	110'	130'	
Rock	Gray	Med. Hard	130'	140'	
Shale	Light and Dark Gray	M.H.	140'	210'	
Sand and Shale	Dark Gray	M. H.	210'	290'	
Sand	Dark Gray	Hard.	290'	325'	
Shale	Light and Dark Gray	M.H.	325'	367'	
Sand	Dark Gray	Hard	367'	378'	
Shale	Light Gray	M. Hard	378'	410'	
Sand	Dark Gray	M. Hard	410'	450'	
Shale	Dark Gray	Med. Hard	450'	470'	
Lime	Dark Gray	Hard	470'	480'	
Shale	Dark Gray	Med. Hard	480'	490'	
Shale	Black	Med. Hard	490'	525'	
Lime	Black	Hard	525'	529'	
Sand	White and L. Gray	H. & S.	529'	566'	Berea
Shale streaks of sand and Lime mixed	Light and Dark Gray	Medium Hard	566'	618'	

(Attach separate sheets as necessary)

G.O.W. Resources Chester, West Virginia 2603
Well Operator

By: Russell H. Smith Partner
Date: 4-2-86

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."

RECEIVED
DEC - 2 1985



1) Date: Nov. 22, 1985
 2) Operator's Well No. #3
 3) API Well No. 47 029-0121
 State County Permit

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

- 4) WELL TYPE: A Oil Gas
 B (If "Gas", Production Underground storage Deep Shallow)
- 5) LOCATION: Elevation: 715' Watershed: Marks Run
 District: Gyant 423 County: Hancock Quadrangle: E. Liverpool South
- 6) WELL OPERATOR G.O.W. Resources CODE: 18575 7) DESIGNATED AGENT Russell G. Smith
 Address P.O. Box 191 Chester W.Va. 26034 Address RD #1 Box 66 Chester, W.Va. 26034
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED. Name Robert J. J. J. J. 9) DRILLING CONTRACTOR: Name G.O.W. Resources
 Address Middletown W.Va. 26034 Address P.O. Box 191 Chester, W.Va. 26034
- 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, Lower Devonian 401
- 12) Estimated depth of completed well, 4,030 feet
 13) Approximate strata depths: Fresh, 60-90 feet; salt, 260' feet.
 14) Approximate coal seam depths: none 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.	New	Used	For drilling		
Conductor	10"	A	40#		X	25ft.	25ft.	Kinds
Fresh water	8"	A	28#		X	90ft.	90ft.	
Coal	None							Sizes
Intermediate	7"	A	30#		X	460ft.	460ft.	Cement To Surface
Production	4 1/2"	A	16 1/2#	X		3,500ft.	3,500ft.	200 Sks. Depths set
Tubing	2"							
Liners								Perforations: Top Bottom

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-029-0121 December 6 1985
 Date

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 December 6, 1987 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>50</u>	Agent: <u>SO</u>	Plat: <u>MX</u>	Casing: <u>MX</u>	Fee: <u>978</u>	WPCP: <u>MX</u>	S&E: <u>MX</u>	Other: <u></u>
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NOTE: Keep one copy of this permit posted at the drilling location.

John H. J. J.
 Director, Division of Oil and Gas

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.