



FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 500'  
 MINIMUM DEGREE OF ACCURACY 1:200  
 PROVEN SOURCE OF ELEVATION HIGHEST POINT  
EL. 974

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) Burl J. Smith  
 R.P.E. 6988 L.L.S. \_\_\_\_\_

PLACE SEAL HERE

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



DATE OCTOBER 24 1983  
 OPERATOR'S WELL NO. PETTY #1  
 API WELL NO. \_\_\_\_\_  
47 - 107 - 1295  
 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 915 WATER SHED BULL CREEK  
 DISTRICT UNION COUNTY WOOD  
 QUADRANGLE WILLOW ISLAND Marsetta 151 S  
 SURFACE OWNER MARVIN A. PETTY ET UX ACREAGE 50 ACRES  
 OIL & GAS ROYALTY OWNER MARVIN A. PETTY ET UX LEASE ACREAGE \_\_\_\_\_  
 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 GORDON ESTIMATED DEPTH 2500  
 WELL OPERATOR BEREA OIL & GAS CORP DESIGNATED AGENT MARK SCHUMACHER  
 ADDRESS 901 CHEMICAL BANK BLDG 69 DELAWARE ADDRESS ONE BEREA PLAZA  
BUFFALO, NY 14202 BRIDGEPORT, WV 26301

NOV 28 1983

**RECEIVED**



JUL 13 1984

State of West Virginia

OIL & GAS DIVISION  
DEPT. OF MINES  
Department of Mines  
Oil and Gas Division

Date July 12, 1984  
Operator's Well No. Petty #1  
Farm Marvin A. Petty ET UX  
API No. 47 - 107 - 1295

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

**RECEIVED**  
AUG 14 1984

WELL TYPE: Oil  / Gas  / Liquid Injection  / Waste Disposal  / OIL & GAS DIVISION  
(If "Gas," Production  / Underground Storage  / Deep  DEPT. OF MINES

LOCATION: Elevation: 915' Watershed Bull Creek  
District: Union County Wood Quadrangle Willow Island

COMPANY Berea Oil & Gas Corp.  
ADDRESS P. O. Box 299, Bridgeport, WV 26330  
DESIGNATED AGENT Thomas E. Riley, P.E.  
ADDRESS P. O. Box 299, Bridgeport, WV 26330  
SURFACE OWNER Marvin A. Petty  
ADDRESS RT #1, Box 52, Waverly, WV 26184  
MINERAL RIGHTS OWNER Marvin A. Petty  
ADDRESS RT #1, Box 52, Waverly, WV 26184  
OIL AND GAS INSPECTOR FOR THIS WORK Samuel N. Hershman ADDRESS P.O. Box 66, Smithville, WV 26178  
PERMIT ISSUED 11-28-83  
DRILLING COMMENCED 6-22-84  
DRILLING COMPLETED 6-26-84  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REMARKING. VERBAL PERMISSION OBTAINED ON \_\_\_\_\_

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	319'	267'	130 sk.
7			
5 1/2			
4 1/2	2429'	2356.6'	165 sk.
3			
2 3/8"	---	2264'	----
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2500 feet  
Depth of completed well 2429 feet Rotary  / Cable Tools   
Water strata depth: Fresh N/A feet; Salt N/A feet  
Coal seam depths: N/A Is coal being mined in the area? No

OPEN FLOW DATA See Well Treatment Details  
Producing formation Berea-Coffee Shale Pay zone depth \_\_\_\_\_ feet  
Gas: Initial open flow none Mcf/d Oil: Initial open flow none Bbl/d  
Final Date 7/11/84 Final open flow 30 Mcf/d Oil: Final open flow 8 Bbl/d

Time of open flow between initial and final tests 2 hours  
Static rock pressure 350 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.

7/5/84 Coffee Shale 2289' - 2291' (3holes)  
2296' - 2298 (2 " )

7/6/84 Coffee Shale/Berea

7/5/84 Berea 2301' - 2306' (10 holes)

Formation broke @ 2950'. ISIP 1250#, 5 min 910#. Used 979 BW, 500 gal 15% FE acid, 35,000 20/40 sand, 10,000# 10/20 sand, 110,000 SCF Nitrogen. Avg. pump rate 34.8 BPM @ 2325#.

WELL LOG

FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
<u>FROM DRILLERS LOG</u>			
Surface	0	40	
Red & Gray Sand	40	104	
Shale	104	109	
Red Rock	109	162	
Shale	162	168	
Red Rock	168	201	
Red Rock	201	249	
Sand	249	254	
Red Rock	254	258	
Sand	258	289	
Red Rock	289	294	
Shale	294	298	
Red Rock	298	326	
Shale	326	385	
Red Rock	385	390	
Shale	390	425	
Red Rock	425	435	
Shale	435	450	
Red Rock	450	735	
Sand	735	740	
Shale	740	890	
<u>FROM CDL</u>			
Shale	890	905	
Sand & Shale	905	930	
Sand	930	955	
Silt & Shale	955	1100	
Sand	1100	1126	
Shale	1126	1160	
Sand	1160	1190	
Sand & Shale	1190	1228	
Sand	1228	1256	
Sand & Shale	1256	1362	
Shale	1362	1390	
Sand	1390	1500	
Sand & Shale	1500	1610	
Sandy Shale	1610	1690	
Sand	1690	1740	
Shale	1740	1766	

(Continued on page two)

(Attach separate sheets as necessary)

Berea Oil & Gas Corp.

Well Operator

By: Thomas E. Riley, P.E. Manager of Engineering

Date: July 12, 1984

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."

