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IV-35  
(Rev 8-81)

OIL & GAS DIVISION  
DEPT. OF MINES

State of West Virginia  
Department of Mines  
Oil and Gas Division

Date December 27, 1983  
Operator's  
Well No. 158-A  
Farm JOHN MILLS, JR.  
API No. 47 - 103 - 1287

WELL OPERATOR'S REPORT  
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

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

LOCATION: Elevation: 1080 Watershed Buffalo Run  
District: Grant County Wetzel Quadrangle Pine Grove 7.5'

COMPANY QUAKER STATE OIL REFG. CORP.  
ADDRESS P.O.Box 1327, Parkersburg, WV 26102-1327  
DESIGNATED AGENT Carl J. Carlson  
ADDRESS same as above  
SURFACE OWNER Dept. of Natural Resources  
ADDRESS Charleston, WV 25305  
MINERAL RIGHTS OWNER Mills Wetzel Lands, Inc.  
c/o Elston Bank & Trust Co.  
ADDRESS Crawfordsville, Ind. 47933  
OIL AND GAS INSPECTOR FOR THIS WORK     
R. Lowther ADDRESS General Delivery  
   Middlebourne, WV 26149  
PERMIT ISSUED 7/19/83  
DRILLING COMMENCED 7/25/83  
DRILLING COMPLETED 8/3/83

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	285	285	cts
7			
5 1/2			
4 1/2	2930	2930	397 sk
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Gordon Depth 2932 - 74 feet  
Depth of completed well 3018 feet Rotary xx / Cable Tools     
Water strata depth: Fresh 264 feet; Salt 1400 feet  
Coal seam depths: na Is coal being mined in the area? no

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2932 - 74 feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow 10 Mcf/d Final open flow 1 1/2 Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure    psig (surface measurement) after    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

FEB 21 1984

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

Frac'd open hole w/150 ga. of 15% NCL, 300 bbl. foamed methanol and  
600 sx of 20/40 sand.  
Fm. broke down at 3100 psi  
Treated at 3000 psi  
ISIP - 2400 psi

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Shale & Sandstone			0	1400	
Salt Sand			1400	1906	
Shale			1906	2066	
Little Lime			2066	2079	
Pencil Cave			2079	2094	
Big Lime			2094	2169	
Big Injun Sand			2169	2360	
Shale			2360	2507	
Weir Sand			2507	2549	
Shale & Siltstone			2549	2917	
Gordon Stray			2917	2920	
Shale			2920	2932	
Gordon Sand			2932	2974	show of oil
Shale			2974	<u>3018 TD</u>	

(Attach separate sheets as necessary)

QUAKER STATE OIL REFINING CORPORATION

Well Operator

Steve Opritza - Geologist

By: Steve Opritza

Date: December 27, 1983

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