

MINIMUM ERROR OF CLOSURE 1' in 200  
 SOURCE OF ELEVATION Well No 1 El. 814.6

New Location   
 Drill Deeper   
 Abandonment

"I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS MAP IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY PARAGRAPH 6 OF THE RULES AND REGULATIONS OF THE OIL AND GAS SECTION OF THE MINING LAWS OF WEST VIRGINIA."

Company Quaker State Oil Refg. Corp  
 Address PO Box 1327 Parkersburg, W. Va.  
 Farm Paul Pierson Surface Harry Ash et al Mineral  
 Tract 291Ac 2P Acres \_\_\_\_\_ Lease No. \_\_\_\_\_  
 Well (Farm) No. TWO Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1149.8  
 Quadrangle West Union C  
 County Tyler District Centerville  
 Engineer D. F. Johnston  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Jan 30, 1967 Scale 1" = 50P 825'

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON

**WELL LOCATION MAP**  
 FILE NO. TYL-411

+ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

— Denotes one inch spaces on border line of original tracing.

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle WEST UNION

Permit No. TYL-411

WELL RECORD

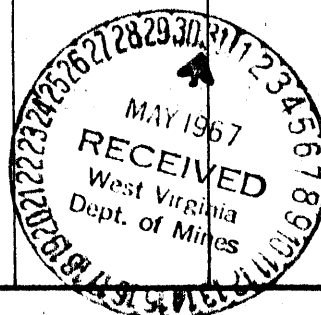
Oil or Gas Well Oil & Gas  
(KIND)

Company QUAKER STATE OIL REFINING CORPORATION  
Address P. O. Box 1327, Parkersburg, W. Va.  
Farm Harry Ash Acres 291  
Location (waters) McGee Run  
Well No. Two (2) Elev. 1149.8  
District Centerville County Tyler  
The surface of tract is owned in fee by ---  
Address ---  
Mineral rights are owned by Harry Ash, et al  
Address Alma, W. Va.  
Drilling commenced 2-16-67  
Drilling completed 4-7-67  
Date Shot -- From -- To --  
With --  
Open Flow /10ths Water in --- Inch  
/10ths Merc. in --- Inch  
Volume 20,000 cf @ T.D. Cu. Ft.  
Rock Pressure 620# lbs. -- hrs.  
Oil Show bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) No  
WELL FRACTURED (DETAILS) Will treat injun after plug back  
1000 bbl. water, 30,000# 20-40 sand, 250# Wac 10, & 15 gal. Morflo & 2100 HHP  
RESULT AFTER TREATMENT (Initial open Flow or bbls.) 6.9 BOPD & 53 MCF  
ROCK PRESSURE AFTER TREATMENT Not taken HOURS  
Fresh Water 150 Feet Salt Water 1972 Feet  
Producing Sand Injun Depth

Casing and Tubing Size	Used in Drilling	Left in Well	Packers
16			Kind of Packer
13	12	12	
10	861	--	Size of
8 1/4	1430	--	
6 3/4	2040	1846	Depth set
5 3/16		2258	
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.  
CASING CEMENTED 4 1/2 SIZE 2258 No. Ft. 4-14-67  
Amount of cement used (bags) 40 cf of pozmix  
Name of Service Co. Dowell  
COAL WAS ENCOUNTERED AT 582 FEET 12 INCHES  
914 FEET 12 INCHES FEET INCHES  
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface-(Red clay)			0	12			
Stone			12	20			
Clay			20	32			
Lime			32	40			
Shale			40	55			
Lime			55	60			
Red rock & lime shells			60	85			
Shale			85	97			
Red rock			97	110			
Shale			110	120			
Red rock			120	140			
Shale			140	150			
Red rock			150	160	5 - 13 bailers water/hr. @ 150'		
Lime			160	172			
Shale			172	182			
Gritty lime			182	198			
Shale			198	204			
Sand			204	220			
Shale			220	228			
Lime			228	236			
Shale			236	265			
Red rock			265	278			
Lime			278	290			
Shale			290	295			
Red rock			295	310			
Shale			310	317			
Red rock			317	330			
Lime			330	338			
Red rock			338	350			
Lime & shale			350	365			



cc: State, D. Van Dine, Q. E. Wood

JUN 5 1967

Formation	Color	Hard or Soft	Top $\epsilon$	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red rock & shale			365	375			
Lime			375	385			
Lime shells			385	400			
Sand			400	434			
Shale			434	447			
Red rock & shale			447	490			
Lime			490	498			
Shale			498	513			
Lime			513	520			
Shale			520	540			
Red rock			540	555			
Shale			555	582			
Coal			582	583			
Shale			583	592			
Lime & shale			592	619			
Lime			619	625			
Red rock			625	640			
Red rock & shale			640	651			
Lime- Shale Break @ 660			651	660			
Shale			660	663			
Hard Lime			663	677			
Shale			677	683			
Sand			683	730			
Shale			730	759			
Limey sand			759	768			
Shale			768	780			
Lime			780	798			
Shale	Black		798	837			
Lime			837	853			
Shale			853	865			
Lime			865	875			
Slate & shells			875	914			
Pittsburgh Coal			914	915			
Slate & shells			915	930			
Lime			930	945			
Red rock & shale			945	965			
Lime			965	978			
Red rock & shale			978	1017			
Lime			1017	1060			
Shale & lime			1060	1090			
Red rock			1090	1102			
Shale			1102	1115			
Lime			1115	1123			
Shale			1123	1132			
Lime			1132	1147			
Pink rock			1147	1160			
Shale, Lime & red rock			1160	1192			
Sandy lime			1192	1210			
Shale			1210	1250			
Lime			1250	1262			
Shale	Black		1262	1300			
Sand			1300	1332			
Shale	Black		1332	1347			
Sand			1347	1375			
Shale			1375	1380			
Lime			1380	1390			
Shale			1390	1425			
Sand			1425	1469			
Shale	Black		1469	1492			
Sand			1492	1535			
Shale			1535	1590			
Sand			1590	1710			
Shale & shells			1710	1750			
Shale	Black		1750	1825			
Sand			1825	1880			
Shale & shells			1880	1925			
Brown shale			1925	1937			

Date \_\_\_\_\_, 19\_\_\_\_

APPROVED \_\_\_\_\_, Owner

By \_\_\_\_\_

(Title)

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle WEST UNION  
Permit No. TYL-411

**WELL RECORD**

Oil or Gas Well (KIND)

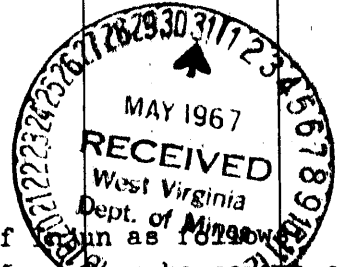
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District Centerville County Tyler  
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Address \_\_\_\_\_  
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Address Alma, W. Va.  
Drilling commenced 2-16-67  
Drilling completed 4-7-67  
Date Shot \_\_\_\_\_ From \_\_\_\_\_ To \_\_\_\_\_  
With \_\_\_\_\_  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/10ths Merc. in \_\_\_\_\_ Inch  
Volume \_\_\_\_\_ Cu. Ft.  
Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
Oil \_\_\_\_\_ bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			Size of
10			
8 1/4			Depth set
6 3/4			
5 3/16			Perf. top
4 1/2			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

Attach copy of cementing record.  
CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
Amount of cement used (bags) \_\_\_\_\_  
Name of Service Co. \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

RESULT AFTER TREATMENT (Initial open Flow or bbls.) \_\_\_\_\_  
ROCK PRESSURE AFTER TREATMENT \_\_\_\_\_ HOURS \_\_\_\_\_  
Fresh Water \_\_\_\_\_ Feet \_\_\_\_\_ Salt Water \_\_\_\_\_ Feet \_\_\_\_\_  
Producing Sand \_\_\_\_\_ Depth \_\_\_\_\_

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
			CONTINUED FROM PAGE NO. TWO				
Sand			1937	1958			
Shale			1958	1972			
Maxon Sand			1972	1995	H.F.W. @ 1972-95		
Shale			1995	2010			
Little Lime			2010	2022			
Shale			2022	2030			
Big Line			2030	2122			
Big Sand	Injan		2122	2173	55 mcf & show of oil @ 2132, 63mcf @ 2132		
Shale & shells			2273	2320			
Sandy shale			2320	2350	LOGGED BY SCHLUMBERGER 4-7-67: Gamma Ray, Neutron, Density, Temperature & Induction		
Shale			2350	2405			
Sandy shale			2405	2430			
Wier Sand			2430	2535	PERFORATIONS: 2121, 2123, 2125, 2126, 2138, 2142, 2196, 2198 & 2200.		
Sandy shale			2535	2550			
Shale			2550	2575			
Gray sand			2575	2590			
Sandy shale			2590	2620			
Shale & shells			2620	2732			
Pink Rock			2732	2744			
Lime shell			2744	2749			
Shale & sand shells			2749	3045			
Sand			3045	3046			
Shale			3046	3086			
TOTAL DEPTH				3086			



Well drilled to T.D. of 3086 - then P.B. to bottom of \_\_\_\_\_ as shown  
 Bridge @ 2565 - Crushed stone & clay 2565 - 2545 w/ 2 sacks cement on top;  
 Bridge @ 2430 - Crushed stone & clay 2430 - 2400 w/ 2 sacks cement on top;  
 Bridge @ 2320 - Crushed stone & clay 2320 - 2270 w/ 2 sacks cement on top.

F.D. in. 4.100  
near Con sand