

Minimum Error of Closure 1' in 200

Source of Elevation USGS BM  $\phi$  138 on stone above

Mouth of Seese Run ELEV. 777.0

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.

Signed: [Signature]  
Squares: N S E W

- Fracture
- New Location
- Drill Deeper
- Abandonment

Map No. \_\_\_\_\_

Company Quaker State Oil Refg. Corp  
 Address P.O. Box 1327 Parkersburg, W.Va.  
 Farm State of W.Va. Surface  
John Mills Hrs. Mineral  
 Tract \_\_\_\_\_ Acres 5200 Lease No. \_\_\_\_\_  
 Well (Farm) No. 149 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 873.4  
 Quadrangle Littleton - SC  
 County Wetzel District Grant  
 Engineer [Signature]  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date Aug 6, 1965 Scale 1" = 495

STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION  
 CHARLESTON  
**WELL LOCATION MAP**  
 FILE NO. WeT-568

+ 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.



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Oil or Gas Well  Oil & Gas  
(KIND)

Quadrangle Littleton

Permit No. WET-568

WELL RECORD

17

Company Quaker State Oil Refining Corporation  
Address P. O. Box 1327, Parkersburg, W. Va.  
Farm John Mills Acres 5200  
Location (waters) Seese Run  
Well No. 149 Elev. 873.4  
District Grant County Wetzel

The surface of tract is owned in fee by \_\_\_\_\_  
Address \_\_\_\_\_  
Mineral rights are owned by Mills-Wetzel Lands, Inc.  
418 South 5th Street Address Geneva, Illinois  
Drilling commenced 9-13-65  
Drilling completed 11-2-65  
Date Shot 11-16-65 From 2710 1/2 To 2742  
With 80 qts. L.N.G.

Open Flow 10ths Water in \_\_\_\_\_ Inch  
10ths Merc. in \_\_\_\_\_ Inch  
Volume 45,000 cf/day Gordon Cu. Ft.  
Rock Pressure 71# + lbs. \_\_\_\_\_ hrs.  
Oil 1.87 bopd (1st 7 day average) 1/4 bbls., 1st 24 hrs.

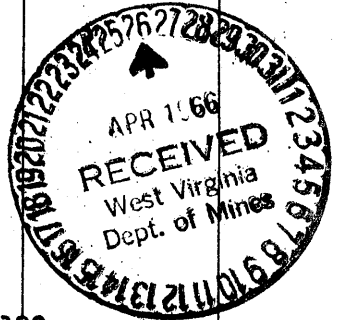
WELL ACIDIZED (DETAILS) \_\_\_\_\_  
WELL FRACTURED (DETAILS) Injun 3-15-66 by Halliburton used 200 gal. acid, 22,310 gallon water and 14,000# 20-40 sand

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 6.50 bopd and 10 bwpd - steady production  
ROCK PRESSURE AFTER TREATMENT 300# + in 40 HOURS  
Fresh Water 47 Feet 12 bailers/hr. Salt Water 1395 Feet  
Producing Sand Injun - bridge plug set at bottom of Injun - Gordon temporarily shut off. Depth \_\_\_\_\_

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13	12	12	Parma.co
10	315	--	Size of <u>5 1/2" x 7"</u>
8 1/4	1115	--	
<del>7 1/2</del> 7	1714	1387'	Depth set <u>2090'</u>
5 3/4		2758	
4 1/2			
3		2010'	Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementin<sup>e</sup> record.  
CASING CEMENTED 5 1/2" SIZE 2758 No. Ft. 3-9-66 Date  
Amount of cement used (bags) 35 cf Pozmix  
Name of Service Co. Dowell  
COAL WAS ENCOUNTERED AT 133 FEET show INCHES  
256 FEET show INCHES 364 FEET show INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay			Surface	5			
Rock			5	8			
Red rock			8	11			
Sand rock			11	46			
Red rock			46	52			
Shale			52	70			
Red rock			70	76			
Shale & shells			76	103			
Red rock			103	108			
Shale			108	111			
Sand			111	128			
Shale			128	145		Show coal 133	
Sand			145	149			
Shale			149	160			
Red rock			160	168			
Shale			168	185			
Sand shells			185	199			
Shale & shells			199	235			
Red rock			235	243			
Shale			243	254			
Black shale			254	259		Show coal 256	
Shale & shells			259	296			
Red rock			296	315			
Lime			315	319			
Shale & shells			319	394		Show coal 364	
Lime			394	406			
Red rock			406	418			
Shale			418	442			
Lime			442	500			
Shale			500	520			



Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Lime			520	540			
Shale			540	550			
Lime			550	568			
Shale			568	579			
Lime			579	582			
Dark shale			582	594			
Lime			594	607			
Shale			607	631			
Lime & shells			631	635			
Shale			635	650			
Sand			650	662			
Shale			662	665			
Lime & shale			665	675			
Red rock			675	679			
Shale			679	700			
Sand			700	725			
Shale			725	742			
Sand			742	760			
Shale			760	764			
Lime & shale			764	776			
Lime			776	790			
Shale			790	796			
Red rock & shale			796	804			
Lime			804	830			
Red rock			830	855			
Shale & shells			855	878			
Lime & shale			878	894			
Dark shale			894	922			
Red rock			922	945			
Shale			945	982			
Sand			982	1001	Show oil	990-98	
Shale			1001	1020			
Lime			1020	1026			
Dark shale			1026	1058			
Sandy shale			1058	1105			
Sand			1105	1116			
Sandy shale			1116	1131			
Sand			1131	1169			
Shale			1169	1195			
Sand			1195	1245			
Dark shale			1245	1260			
Sand			1260	1295			
Shale break			1295	1298			
Sand			1298	1304			
Shale break			1304	1308			
Sand			1308	1328			
Shale			1328	1342			
Sand			1342	1355			
Dark shale			1355	1385			
Lime			1385	1388			
Sand			1388	1455	Hole full of water	1395'	
Shale			1455	1488			
Sand			1488	1520			
Water sand			1520	1530			
Sand			1530	1536			
Shale			1536	1555			
Lime			1555	1570			
Shale			1570	1610			
Sand			1610	1640			
Lime & shale			1640	1655			
Sand			1655	1660			
Slate & shale			1660	1687			
Lime			1687	1724			
Red rock			1724	1800			
Sand			1800	1810			
Shale			1810	1825			
Lime			1825	1831			
Shale			1831	1846			

Date April 22, 1966

APPROVED QUAKER STATE OIL REFINING CORPORATION Own

By Thomas H. Richard  
(Title) Engineer



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Littleton

Permit No. WET-568

WELL RECORD

Oil or Gas Well \_\_\_\_\_ (KIND)

Company Quaker State Oil Refining Corporation  
 Address P. O. Box 1327, Parkersburg, W. Va.  
 Farm John Mills Acres 5200  
 Location (waters) Seese Run  
 Well No. 149 Elev. 873.4  
 District Crant County Wetzel  
 The surface of tract is owned in fee by \_\_\_\_\_  
 Address \_\_\_\_\_  
 Mineral rights are owned by Mills-Wetzel Lands Inc.  
418 South 5th Street Address Geneva, Illinois  
 Drilling commenced 9-13-65  
 Drilling completed 11-2-65  
 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			
10			Size of
8 1/4			
6 1/2			Depth set
5 3/16			
4 1/2			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

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

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. ONE							
<u>Little Line</u>			1846	1854			
Shale			1854	1858			
<u>Big Line</u>			1858	1916			
Sand } Keener			1916	1947			
Soft sand			1947	1985			
Shale } Injun			1985	1991			
Sand			1991	2111			
Shale			2111	2165			
Shale & shells			2165	2258			
Hard sand			2258	2285			
Sandy shale			2285	2320			
Lime & shale			2320	2380			
Shale			2380	2462			
Lime			2462	2480			
Shale			2480	2492			
Lime			2492	2498			
Shale & shells			2498	2682			
<u>Gordon Sand</u>			2683	2743			
Shale			2743	2762			
				2762			
							Total Depth
LOGS:	Schlumberger 11-2-65 Gamma Ray, Density Neutron & Induction						
							PERFORATIONS: 2081 (5 holes) to cement 5 1/2" 2032 - 38 (10 holes) - Injun (couldn't break down) 1955 - 65 -(10 holes) Injun (fraced)

