

MINIMUM ERROR OF CLOSURE 1' IN 200

SOURCE OF ELEVATION USGS Elevation @ Intersection of Eckelberry Run & Piney Fork Road Elev. 838.0

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.

10-14-66

Company Quaker State Oil Refg. Corp  
 Address P.O. Box 1327 - Parkersburg, W. Va.  
 Farm John Mills Hrs Mineral Surface  
 Tract 5200 Acres \_\_\_\_\_ Lease No. \_\_\_\_\_  
 Well (Farm) No. 152 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1163  
 Quadrangle Lilleton - SW  
 County Wetzel District Greene  
 Engineer [Signature]  
 Engineer's Registration No. 2492  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date July 12, 1966 Scale 1" = 1000'

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

WELL LOCATION MAP  
 FILE NO. Wetz-573

+ 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 15

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Littleton  
Permit No. WET-573

WELL RECORD

Oil or Gas Well DRY  
(KIND)

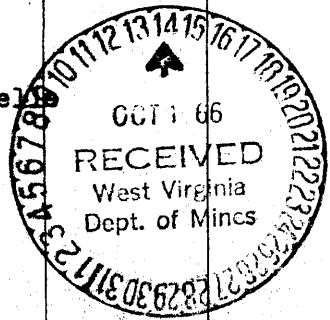
Company QUAKER STATE OIL REFINING CORPORATION  
Address P. O. Box 1327, Parkersburg, W. Va.  
Farm John Mills Acres 5200  
Location (waters) Eckelberry Run  
Well No. 152 Elev. 1163  
District Greene County Wetzel  
The surface of tract is owned in fee by ---  
Address ---  
Mineral rights are owned by Mills-Wetzel Lands  
Address Geneva, Illinois  
Drilling commenced 8-8-66  
Drilling completed 10-6-66  
Date Shot --- From --- To ---  
With ---  
Open Flow --- /10ths Water in --- Inch  
--- /10ths Merc. in --- Inch  
Volume Show gas Cu. Ft.  
Rock Pressure --- lbs. --- hrs.  
Oil 1/3 bopd bbls., 1st 24 hrs.  
WELL ACIDIZED (DETAILS) NO  
WELL FRACTURED (DETAILS) NO

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16	8'		Kind of Packer
13			
10	536		Size of
8 1/4	1472' 3"		
6 5/8	2188		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 NONE SIZE --- No. Ft. --- Date ---  
Amount of cement used (bags) ---  
Name of Service Co. ---  
COAL WAS ENCOUNTERED AT 462 FEET 12 INCHES  
927 FEET 12 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 445 Feet ---  
Producing Sand --- Depth ---

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Top soil			0	8			
Shale			8	45			
Red rock			45	56			
Sand			56	65			
Shale			65	80			
Lime			80	85			
Sand			85	112			
Red rock			112	140			
Lime			140	155			
Shale			155	165			
Red rock			165	187			
Shale			187	245			
Lime			245	260			
Red rock			260	266			
Shale & lime shells			266	285			
Lime			285	305			
Shale			305	330			
Red rock			330	355			
Shale & shells			355	385			
Red rock			385	390			
Shale			390	402			
Red rock			402	410			
Lime			410	418			
Shale			418	424			
Lime			424	436			
Shale			436	445			
Sand			445	451			
Shale			451	462			
Coal			462	463			
Lime			463	478			



1 - 13" bailer wtr. per hr. @ 445'

Formation	Color	Hard or Soft	Top 15	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale			478	491			
Red rock			491	497			
Shale & lime			497	510			
Shale			510	534			
Lime			534	542			
Red rock			542	557			
Lime			557	560			
Shale			560	565			
Sand			565	583			
Shale			583	602			
Lime			602	621			
Shale			621	637			
Red rock			637	647			
Lime			647	662			
Shale			662	670			
Lime			670	685			
Shale			685	693			
Lime			693	714			
Shale			714	724			
Lime			724	740			
Red rock			740	752			
Lime			752	758			
Shale			758	768			
Lime			768	796			
Shale			796	804			
Lime			804	830			
Shale			830	835			
Lime			835	846			
Shale & shells			846	927			
Pittsburgh Coal			927	928			
Shale			928	934			
Lime			934	951			
Shale			951	963			
Lime			963	974			
Shale & shells			974	1008			
Red rock			1008	1035			
Shale			1035	1040	1163		
Sand			1040	1070	127		
Shale			1070	1082	236		
Lime			1082	1091			
Red rock			1091	1097			
Lime	Gritty		1097	1109			
Shale & shells			1109	1120			
Red rock			1120	1125			
Shale & shells			1125	1133			
Lime			1133	1156			
Shale			1156	1170			
Lime			1170	1182			
Shale			1182	1190			
Red rock			1190	1205			
Shale			1205	1220			
Lime			1220	1226			
Shale, shells, Red rock			1226	1255			
Red rock			1255	1264			
Lime			1264	1272			
Red rock			1272	1292			
Shale			1292	1330			
Gritty shell			1330	1334			
Shale	Dark		1334	1358			
Sand			1358	1370			
Shale	Black		1370	1404			
Lime			1404	1412			
Shale			1412	1462			
Sand			1462	1487			
Shale			1487	1493			
Sand			1493	1512			
Shale			1512	1534			

(CONTINUED ON PAGE 3)

Date October 13, 19 66

APPROVED QUAKER STATE OIL REFINING CORPORATION, Owner

By Thomas H. Richard  
(Title) Engineer



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION 15-1

Rotary   
Spudder   
Cable Tools   
Storage

Quadrangle Littleton  
Permit No. WET-573

WELL RECORD

Oil or Gas Well DRY  
(KIND)

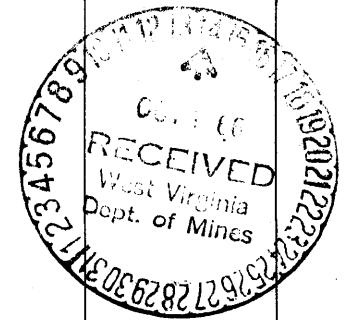
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Date Shot From            To             
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Open Flow /10ths Water in            Inch  
                  /10ths Merc. in            Inch  
Volume            Cu. Ft.  
Rock Pressure            lbs.            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 3/8			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.            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
Lime & sand			1534	1582			
Shale	Dark		1582	1592			
Sand <i>inter</i>			1592	1653			
Shale	Dark		1653	1685			
Sand <i>1st salt</i>			1685	1700			
Shale & shells			1700	1772			
Shale	Dark		1772	1806			
Sand <i>2nd salt</i>			1806	1818			
Shale	Dark		1818	1825			
Sand			1825	1857			
Shale			1857	1872			
Sand <i>3rd salt</i>			1872	1910			
Shale	Black		1910	1932			
Sand <i>4th salt</i>			1932	1985			
Shale & L. Shells			1985	2040			
Sand <i>main</i>			2040	2053			
Shale	Black		2053	2060			
Red rock & lime shells			2060	2095			
Sand			2095	2110			
Shale			2110	2143			
Lime			2143	2166			
Big Lime			2166	2242			
Big Injun Sand			2242	2427			
Slate & shells			2427	2475			
Lime	Gritty		2475	2495			
Shale & shells			2495	2579			
Sand <i>1st</i>			2579	2600			
Shale break			2600	2604			
Lime			2604	2618			
Sandy Shale			2618	2678			



2' shale break 2240-42

Formation	Color	Hard or Soft	Top 10-2	Bottom	Oil, Gas or Water	Depth Found	Remarks
Shale & shells			2678	2760			
Lime			2760	2768			
Shale			2768	2780			
Lime			2780	2797			
Shale			2797	2803			
Lime			2803	2813			
Shale & L. Shells			2813	2852			
Sand			2852	2857			
Shale & shells			2857	2864			
Lime			2864	2870			
Pink rock			2870	2898			
Sand 50'			2898	2916	Show oil	2898-2916	
Lime & shale			2916	2956			
Sand			2956	2967			
Shale			2967	2997			
Sand Gordon Sand			2997	3018	Show gas & oil @ 3000'		
Shale			3018	3020			
Sand			3020	3037			
Shale			3037	3041			
Sand			3041	3057	Gordon Sand		
Shale			3057	3096			
TOTAL DEPTH				3096			

LOGGED BY BIRDWELL 10-7-66  
G R, Neutron,  
Density &  
Induction

Date October 13, 1966

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(Title) Engineer