



COMPANY QUAKER STATE OIL REFINING CORP.  
 ADDRESS PARKERSBURG, WEST VIRGINIA;  
 FARM JOHN MILLS, ESTATE,  
 TRACT ONE ACRES 5200 LEASE NO. \_\_\_\_\_  
 WELL (FARM) NO. 142, SERIAL NO. \_\_\_\_\_  
 ELEVATION (SPIRIT LEVEL) #1006 FEET  
 QUADRANGLE LITTLETON, SC  
 COUNTY WETZEL DISTRICT GRANT  
 ENGINEER J. M. COCHRAN  
 ENGINEER'S REGISTRATION NO. CO. SURVEYOR  
 FILE NO. \_\_\_\_\_ DRAWING NO. \_\_\_\_\_  
 DATE JULY 24, 1951 SCALE 1-IN. -400'

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

WELL LOCATION MAP  
 FILE NO. Wet-374

# DENOTES LOCATION OF WELL ON U. S. TOPOGRAPHIC MAPS, SCALE 1 TO 62,500. LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.  
 - D ENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

WEST VIRGINIA DEPARTMENT OF MINES  
OIL & GAS DIVISION  
W E L L R E C O R D

Permit no. ~~WEST~~-374  
Littleton Quad.

Oil

Company	Quaker State Oil Refining Corp.	CASING & TUBING	
Address	Box 1709, Parkersburg, W. Va.		
Farm	John Mills Estate Acres 5200	10	398
Location	Buffalo Run	6 1/2	1249
Well No.	142 Elev. 1006	6 5/8	2002 2002
District	Grant County - Wetzel	5 3/16	2710 2710
Mineral	Mills Wetzel Lands, Inc., Marietta, O.	2	2911 2911
Commenced	7/1/51	4 1/4	237 237
Completed	1/24/52		
Date Shot	11/23/51 from 2057 to 2061		Bottom hole packer
	12/6/51 2060 to 2111		5 3/16" Depth 2710'
With	60 Qts. in Gordon, 70 qts. in B.I.		
Oil	10 bbls.		Perf. top 2071, Bottom 2111
Fresh Water	400'. Salt Water 1690, 1775, 2184'.		Coal at 450' 454' 663' 667' 750' 755'.

1006  
450  
556  
  
1006  
663  
343  
  
1006  
750  
756

Shale & Shells	0	80	<del>Big</del> Lime	2000	2064
Shale & Sand	80	400	<del>Sand</del> Big Injun	2064	2290
Sand	400	450	Shale Dark	2290	2310
<del>Coal</del>	450	454	Shale Gritty	2310	2320
Shale & Sand	454	500	Shale & Shells	2320	2407
Lime Dark	500	550	Sand - Limoy	2407	2610
Red Rock	550	600	Lime & Shells	2610	2630
Lime Grey	600	663	Sand	2630	2659
<del>Coal</del> Mapletown	663	667	Lime & Shells	2659	2701
Shale & Lime Dark	667	750	Pink Rock	2701	2723
<del>Coal</del> Pgh.	750	755	Shale	2723	2731
Lime Gray	755	775	Sand	2731	2756
Red Rock	775	800	Shald	2756	2770
Slate White	800	825	Shale	2770	2839
Sand White	825	875	<del>Gordon</del> Stray	2839	2845
Shale Gray	875	950	Shale	2745	2740
Red Rock	950	955	<del>Gordon</del>	2845	2096
Sand Gray	955	995	Shale	2696	2932
Red Rock	995	1030	Lime shells	2932	2945
Lime & Shale	1030	1247	TOTAL DEPTH		2945
<del>Sand</del> Big Dunkard	1274	1274			
Lime & Shale	1274	1374			
Sand White <i>L.G.S.</i>	1374	1420	Water 4 bailers 60-400		
Shale Dark	1420	1460	Water 1690 2 bailers		
<del>Sand</del> White <i>W.C.R.</i>	1460	1510	Water 1775 70 gal/hr.		
Slate Black	1510	1600	Gas show 2064 Baker core		
Sand White <i>W.C.R.</i>	1600	1635	Oil 2090 2089-2102		
Shale	1635	1645	Water 2184		
Sand White	1645	1700			
Slate Dark	1700	1775	Hole reduced 2718		
Sand White <i>W.C.R.</i>	1775	1815			
Shale	1815	1839	Gas 2056 Baker core		
<del>Sand</del> Maxton	1839	1903	Oil 2062 2056-2075		
Red Rock	1903	1944			
Lime	1944	1960			
Shale	1960	1970			
Lime <i>W.C.R.</i>	1970	1997			
Pencil Cave	1997	2000			

QUAKER STATE OIL REFINING CORPORATION

*Jacksonburg - Stringtown*

WILSON FARM

WELL #112 WETZEL 374

KEMPER SAND

No.	Saturation No.	Depth	Total	PERCENT WATER SATURATION		Residual Connate*
				Drill	Flood	
<u>SECTION NO. 1</u>						
1	1	2090.0	86.5	79.5	7.8	71.2
2	2	2091.2	69.5	6.1	.9	60.8
3	3	2092.2	66.7	8.8	.1	53.8
<u>SECTION NO. 2</u>						
4	4	2093.7	66.9	24.6	12.0	20.3
5	5	2094.9	59.1	44.9	2.1	10.1
6	6	2095.6	70.3	43.2		39.0
7	7	2096.7	71.1	56.0	3.4	9.7
8	8	2097.8	67.8	31.5	7.2	27.2
9	9	2098.7	65.1	50.2		24.4
10	10	2099.8	65.4	29.0		38.5
11	11	2100.4	51.1	21.2	3.8	28.1
<u>SECTION NO. 3</u>						
12	12	2101.3	61.8	3.7		75.0
13	13	2101.9	47.0	1.4		69.0

\*Salinity 100,000 PPM

**JOHN DEPETRO**  
**PETROLEUM ENGINEER**  
 BRADFORD, PA.

No.	Sample and No.	Depth	Percent Porosity
<b>SECTION NO. 1 - 2089.1' - 2092.5'</b>			
1	P 1	2089.5	
2	P 1	2090.0	8.50
3	P 2	2090.4	
4	P 3	2091.0	
5	P 4	2091.3	8.75
6	P 4	2091.8	
7	P 5	2092.4	11.51
<b>SECTION NO. 2 - 2092.5' - 2101.0'</b>			
8	P 6	2092.7	
9	P 6	2093.3	
10	S 1	2093.7	13.43
11	P 7	2094.2	
12	S 5	2094.9	15.80
13	P 8	2095.3	
14	S 6	2095.6	14.41
15	P 7	2096.1	
16	S 7	2096.7	13.26
17	P 10	2097.1	
18	S 8	2097.8	13.65
19	P 11	2098.3	
20	S 9	2098.7	12.18
21	P 12	2099.2	
22	S 10	2099.8	14.59
23	P 13	2100.1	
24	S 11	2100.4	14.48
25	P 11	2100.9	
<b>SECTION NO. 3 - 2101.0' - 2102.1'</b>			
26	S 12	2101.3	5.20
27	P 13	2101.7	
28	S 13	2101.9	4.75
			*Value per

QUAKER STATE OIL REFINING CORPORATION

HILLS FARM

WELL #142 WETZEL 374

KEENER SAND

*Jacksonburg - Stringtown*

Percent Oil Saturation	Permeability Millidarcies	Barrels per Acre Foot Oil	Sand Thickness per Sample	Barrels Per Acre Oil	Recovery Barrels per Acre Oil	Percent Water Saturation
10.8	2403 3152	71	.6 .6	43 43		86.5
22.3	110	155	.4	78		69.8
7.9	1000	71	.3	36		64.7
	326.00		.5	92		
17.6	203.00	183	.5	92		56.9
	160.50		.5	92		
18.0	216.00	221	.5	111		59.1
	608.00		.5	88		
17.2	600.00	193	.5	97		70.3
	266.00		.5	97		
23.5	197.80	212	.5	121		72.1
	167.30		.5	145		
27.7	122.80	293	.5	147		67.9
	593.00		.5	151		
32.0	410.00	302	.5	151		65.3
	471.00		.5	152		
26.9	450.00	304	.5	152		65.4
	130.00		.3	113		
33.7	119.20	376	.4	151		53.1
	194.80		.3	113		
	27.80		.3	113		
			8.5	2,157		
11.5	.20	48	.5	24		65.5
	0		.3	20		
18.3	0	67	.3	20		57.0
			1.1	64		

fly estimated - sample cracked under test