



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

Quadrangle Littleton

Permit No. Wet - 178

WELL RECORD

Oil or Gas Well Oil Well
(KIND)

Company Quaker State Oil Refng. Corp.
Address Box 1789, Parkersburg, W. Va.
Farm John Mills Acres 5200

Location (waters) _____
Well No. 145 Elev. 1115'
District Grant County Wetzel

The surface of tract is owned in fee by _____
Address _____

Mineral rights are owned by Mills-Wetzel Lands Inc.
134 S. La Salle St. Address Chicago, Ill.

Drilling commenced June 28, 1960

Drilling completed August 16, 1960

Date Shot None From _____ To _____

With _____

Open Flow /10ths Water in _____ Inch

/10ths Merc. in _____ Inch

Volume 627,000 Cu. Ft.

Rock Pressure 40# lbs. _____ hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED _____

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet

Salt Water _____ Feet

_____ Feet

_____ Feet

_____ Feet

_____ Feet

_____ Feet

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_____ Feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer _____
13			Screw Anchor _____
10	477	-	Size of <u>5-3/16-6-5/8</u>
8 1/4	1418	-	
6 3/4	2130	2130	Depth set <u>2945</u>
5 3/16		3011	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____
6 5/8" and 5 3/16" Aquagel to surface

COAL WAS ENCOUNTERED AT 755 FEET _____ INCHES
845 FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
coal a mixture of slate & coal - not of marketable quality

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Yellow rock		Medium	0	20			
Red Rock		Medium	20	25			
Lime		Medium	25	33			
Shale		Medium	33	38			
Red Rock		Medium	38	45			
Shale		Medium	45	80			
Red Rock		Medium	80	117			
Shale		Medium	117	140			
Red Rock		Medium	140	158			
Shale		Medium	158	210			
Red Rock		Medium	210	226			
Shale		Medium	226	237			
Red Rock		Medium	237	308			
Shale		Medium	308	320			
Sand		Medium	320	346			
Shale		Medium	346	348			
Lime		Hard	348	581			
Sand		Hard	581	603			477' 10" casing, (pulled)
Shale		Medium	603	619			
Lime		Medium	619	651			
Sand		Hard	651	695			
Lime		Hard	695	761			755-761' show of coal, soft
Shale		Medium	761	800			
Lime		Medium	800	845			
Pitts. Coal			845	853			Steel Pipe
Lime		Hard	853	858			
Shale		Medium	858	889			
Lime		Medium	889	1062			
Red Rock		Medium	1062	1086			
Shale		Medium	1086	1152			

Formation	Color	Hard or Soft	Top //	Bottom	Oil, Gas or Water	Depth Found	Remarks
Sand		Hard	1152	1168			
Red Rock		Medium	1168	1183			
Shale		Medium	1183	1197			
Red Rock		Medium	1197	1202			
Shale		Medium	1202	1229			
Sand		Medium	1229	1283			
Shale		Medium	1283	1293			
Sand		Hard	1293	1420			
Lime		Hard	1420	1491	(S.L.M. 1418'	- 8 1/4" Casing	pulled
Sand		Hard	1491	1509			
Shale		Medium	1509	1577			
Sand		Hard	1577	1600			
Shale		Medium	1600	1630			
Sand		Hard	1630	1678			
Sand (water)		Hard	1678	1806			
Shale		Medium	1806	1951		2108	
Red Rock		Medium	1951	2028		1115	
Shale		Medium	2028	2048		772	
Lime		Medium	2048	2085			
Little Lime		Medium	2085	2101			
Pencil Cave		Medium	2101	2108			
Big Lime		Hard	2108	2171	2130' SLM 7"	Casing	
Keener Sand		Hard	2171	2200			
Shale		Medium	2200	2207			
Big Injun Sand		Hard	2207	2378	2210-2373		
Shale		Medium	2378	2521			
Ganta Sand		Hard	2521	2562	2515-68		
Sand & Lime		Hard	2562	2636			
Shale		Medium	2636	2731			
Fifty Foot Sand		Hard	2731	2772			
Shale			2772	2833			
Pink Rock			2833	2841			
Shale			2841	2942			
Gordon Stray Sand			2942	2947			
Break			2947	2950			
Gordon Sand			2950	2993	2930-83		
	Gas		2954	57,600 cu ft/day			
			2963	333,000 " " "			
			2982	627,000 " " "			
	Oil		2972	2990			
			2993	3011	Shale SLM	Total Depth	

Date _____, 19____

APPROVED _____, Owner

By _____ (Title)