



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Cameron

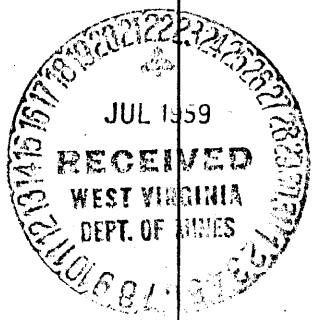
WELL RECORD

Permit No. MARS-340-REDRILL

Oil or Gas Well GAS
(KIND)

Company <u>The Manufacturers Light and Heat Company</u>	Casing and Tubing	Used in Drilling	Left in Well	Packers
Address <u>800 Union Trust Building, Pgh. 19, Penna.</u>				
Farm <u>William Davis</u> Acres <u>89</u>	Size			
Location (waters) _____	16			Kind of Packer _____
Well No. <u>4531</u> Elev. <u>881.31'</u>	18			
District <u>Liberty</u> County <u>Marshall</u>	10"	264	264	Size of _____
The surface of tract is owned in fee by _____	8 1/4"	724	724	
Address _____	6 3/4" 7"	1501	1501	Depth set _____
Mineral rights are owned by _____	5 3/16"			
Address _____	XK 4"	1726	1726	Perf. top _____
Drilling commenced <u>January 30, 1959</u>	2			Perf. bottom _____
Drilling completed <u>July 8, 1959</u>	Liners Used _____			Perf. top _____
Date Shot _____ From _____ To _____				Perf. bottom _____
With _____				
Open Flow _____ /10ths Water in _____ Inch	CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____			
_____ /10ths Merc. in _____ Inch	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Volume <u>15,000</u> Cu. Ft.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Rock Pressure _____ lbs. _____ hrs.	_____ FEET _____ INCHES _____ FEET _____ INCHES			
Oil _____ bbls., 1st 24 hrs.				
Fresh water _____ feet _____ feet				
Salt water _____ feet _____ feet				

Formation	Color	Hardness THICKNESS	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Schlumberger Well Survey							
✓ Pittsburgh Coal		6	550	556	All pipe measured over threads		
✓ Big Dunkard		68	1020	1088	Run 264' of 10 3/4" Casing, SM. GR.H,		
✓ Lower Maxton		19	1608	1627	32.75# on a steel shoe. Cemented with 75		
✓ Big Lime			1648	1627	bags cement and 9 bags Aquagel, 15 lbs.		
✓ Big Injun Sand				1952	per gallon. Good return of Aquagel but		
					no cement at the surface. Run 724' of		
TOTAL DEPTH				1928	8 5/8" Casing, Sm.J.24# on a steel shoe.		
4 1/2" Shoe set at				1700	Cemented with 250 bags of cement and 1/2		
					bag of Hydrotan. Good return of cement		
					at the surface. Run 1501' of 7" Casing,		
					Sm. J. 20# on a steel shoe set at 1492'.		
					Original 7" casing was left in the hole		
					from 1502' to 1690'. Ripped it from		
					1620' to 1640'. Cemented with 300 bags		
					of cement, 14.3 lbs. per gallon. Good		
					return of cement at the surface. Run		
					1726' of 4 1/2" Tubing, Sm.J. 12.60# on a		
					Haliburton Formation Packer Shoe set at		
					1700'. Cemented with 200 bags of cement		
					and 10 bags aquagel, 14.2 lbs. per		
					gallon. Good return of cement at the		
					surface. Filled back from 2000' to 1928'		
					with 27 bags of cement by using a cement		
					bailer.		
					Note: On start of reconditioning 35 bags		
					of cement and 15 bags of aquagel		
					were run through 2" tubing from		
					2200' to 2000' to shut off any gas		
					from lower sands.		
					(Note) Thirty (30) feet of cement was		
					squeezed behind old 7" Casing.		



Storage