

MINIMUM ERROR OF CLOSURE $\frac{1}{200}$

SOURCE OF ELEVATION U.S.C. & G. B.M. J-B1. LOCATED ON
TRESTLE WALL ACROSS WILHELM RUN

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."

Company HARVEY L. STARR
 Address 1204-16TH ST., PARKERSBURG, W.VA
 Farm E. E. COTTRILL
 Tract _____ Acres 15 ± Lease No. _____
 Well (Farm) No. 1 Serial No. _____
 Elevation (Spirit Level) 1035'
 Quadrangle WEST UNION, W.VA. SC
 County DODDRIDGE District CENTRAL
 Engineer Warren S. Frank
 Engineer's Registration No. 3688
 File No. _____ Drawing No. _____
 Date 2-27-65 Scale 1" = 300'

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

WELL LOCATION MAP
 FILE NO. DOD-1227

+ 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 9

Rotary
Spudder
Cable Tools
Storage

*Miss [unclear]
for [unclear]
3-21-66*

Quadrangle West Union

Permit No. DOD-1227

WELL RECORD

Oil or Gas Well O & G
(KIND)

Company Harvey L. Starr
Address 920 Market St., Parkersburg, W. Va.
Farm E. E. Cottrill Acres 15
Location (waters) Wilhelm Creek
Well No. One Elev. 1035
District Central County Doddridge
The surface of tract is owned in fee by E. E. Cottrill
Address Central Sta. W.Va.
Mineral rights are owned by E. E. Cottrill
Address Central Sta. W.Va.
Drilling commenced March 3, 1965
Drilling completed April 9, 1965
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
WELL FRACTURED 9-4-65

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18	33	33	
10	625	0	Size of
8 1/4	1065	0	
6 5/8			Depth set
5 3/16			
3 4 1/2" OD		2175	Perf. top 2072
2			Perf. bottom 2100
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED 4 1/2" SIZE 2175 No. Ft. 4-10-65 Date

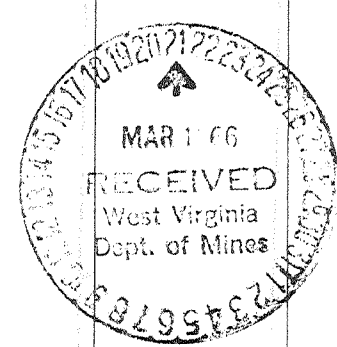
COAL WAS ENCOUNTERED AT FEET INCHES
FEET INCHES FEET INCHES
5 FEET INCHES FEET INCHES

RESULT AFTER TREATMENT 100 bbl. Oil per day -- 1,000,000 CF Gas *Keener* *Big Jimmy*

ROCK PRESSURE AFTER TREATMENT 810 lbs.

Fresh Water 195 Ft. Feet Salt Water Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Soil			0	12			
Lime			12	20			
Red Rock			20	48			
Sand			48	70			
Sand			70	110			
Lime			110	144			
Red Rock			144	190			
Lime			190	195			
Red Rock			195	202			
Lime		Hard	202	208			
Slate			208	278			
Gritty Lime		Hard	278	288			
Red Rock			288	317			
Lime		Hard	317	339			
Red Rock			339	360			
Lime			360	375			
Med rock			375	388			
Lime			388	393			
Red Rock			393	415			
Lime			415	435			
Red Rock			435	445			
Lime			445	455			
Sand & Lime		Hard	455	487			
Red Rock			487	495			
Lime			495	525			
Red Rock			525	530			
Lime			530	536			
Red Rock			536	569			
Sand			569	585			
Red Rock			585	595			



Formation	Color	Hard or Soft	Top ⁹	Bottom	Oil, Gas or Water	Depth Found	Remarks
Gritty Lime			595	655			
Salte & Shells			655	725			
Lime			725	752			
Slate & Shells			752	800			
Sand		Hard	800	847			
Red Rock			847	865			
Lime			865	873			
Red rock			873	880			
Red Lime			880	920			
Red Rock			920	963			
Gritty Lime			963	989			
Sand			989	1016			
Slate			1016	1066			
Red Rock			1066	1108			
Slate			1108	1145			
Lime			1145	1162			
Sand			1162	1203			
Slate			1203	1228			
Sand			1228	1252			
Slate			1252	1265			
Lime		Hard	1265	1375			
Sand			1375	1415			
Slate & Shells			1415	1480			
Sand			1480	1514			
Slate & Shells			1514	1530			Sharp
Lime			1530	1545			
Sand			1545	1624			
Slate			1624	1650			
Dark Slate			1650	1706			
Sand			1706	1740			
Slate			1740	1755			
Sand		Hard	1755	1820			
Slate			1820	1947			
Lime-Little		Hard	1947	1978			
Pencil Cave			1978	1982			
Big Lime			1982	2048			
Keener Sand		Hard	2048	2108	Oil 2050-2054		
Big Injun Sand		Hard	2081	2138	Gas 2080-2084		
Slate			2108	2138			
Gray Lime		Hard	2138	2175	TOTAL DEPTH		

Date March 15, 1966

APPROVED Harvey L. Starr, Owner

By Harvey L. Starr
(Title)