

Minimum Error of Closure 1' in 200'

Source of Elevation Pennzoil Well #9 Albert Pearcy

Ground elev. 932.70'

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.

Signed: A.C. Hillbert

Map No. N17 Squares: N S18 E W8

Company PENNZOIL COMPANY
 Address P.O. Box 1588, Parkersburg, W.Va.
 Farm Albert Pearcy
 Tract _____ Acres 375 Lease No. 31413
 Well (Farm) No. 10 Serial No. 31414
 Elevation (Spirit Level) 990.54' ground
 Quadrangle VADIS -NW
 County Doddridge District New Milton
 Engineer A.C. Hillbert
 Engineer's Registration No. 2534
 File No. 887 Drawing No. _____
 Date March 23, 1964 Scale 1" = 800'

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

WELL LOCATION MAP

FILE NO. DOD-1117

† 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

Quadrangle VADIS

Permit No. DOD-1117

WELL RECORD

Oil or Gas Well O & G

Company PENNZOIL COMPANY
Address P. O. Box 1588, Parkersburg, W. Va.
Farm Albert Pearcy Acres 375
Location (waters) Right Fork of Tom's Run
Well No. 10 Elev. 990.54
District New Milton County Doddridge
The surface of tract is owned in fee by Paul W. Clevenger
Address Smithville, W. Va.
Mineral rights are owned by Lyle B. Horner & Co.,
Goff Building Realtor Agent
Address Clarksburg, W. Va.
Drilling commenced April 11, 1964
Drilling completed April 20, 1964
Date Shot - From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Show Oil & Gas (Drilled w/Rotary) Cu. Ft.
Rock Pressure lbs. hrs.
Oil * See Electric Log bbls., 1st 24 hrs.
WELL ACIDIZED

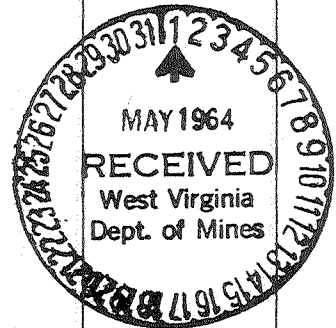
Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
16			Kind of Packer
13			Steel shoe
10			Float Collar
8 5/8"	368'	368'	Guide Shoe
6 5/8"			Size of shoe
4 1/2"	2052.55'	2052.55'	4 1/2"
3			Depth set
2			1975.70'
Liners Used			2052'
			Perf. top
			Perf. bottom
			Perf. top
			Perf. bottom

CASING CEMENTED 8 5/8" SIZE 368 No. Ft. 4/12/64 Date
4 1/2" 300' 4/21/64

COAL WAS ENCOUNTERED AT 1290 FEET 36 INCHES
1323 FEET 24 INCHES FEET INCHES
FEET INCHES FEET INCHES

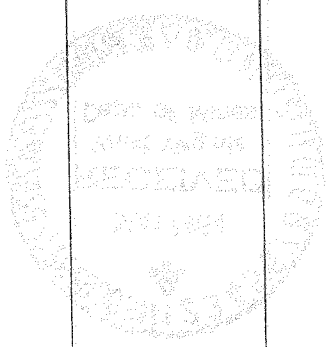
WELL FRACTURED April 27, 1964 - Used: 400 Lbs. WAC-8, 35 Gals. Alco Suds, 45 Gals. Mor-flo,
300 Gals. MCA Acid, 70,000 Lbs. 20-40 Sand and 46,124 Gals. Water
RESULT AFTER TREATMENT Gas - 150,000 Cu. Ft.
Oil - 100 Bbls.
ROCK PRESSURE AFTER TREATMENT 500 Lbs.
Fresh Water - Feet Salt Water - Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale & R. Rock			0	145			
Sand			145	160			
R. Rock & Shale			160	175			
Sand			175	182			
Sandy Shale			182	214			
Shale			214	230			
Sandy Shale			230	275			
Sand & Shale			275	358			
White Sand			358	415			
Shale & R. Rock			415	520			
Lime			520	536			
Shale			536	550			
Sandy Shale			550	566			
Shale			566	632			
Sandy Shale			632	667			
Red Rock			667	669			
Shale & R. Rock			669	730			
Shale			730	740			
Sandy Shale			740	758			
Grey Shale & Sand			758	810			
Red Shale			810	820			
Grey Shale			820	895			
Grey Shale & Red Rock			895	995			
Sand & Shale			995	1030			
Shale & Sand Stringers			1030	1110			
Shale			1110	1170			
Sandy Shale			1170	1290			
Coal			1290	1293			
Sandy Shale			1293	1323			



(over)

Formation	Color	Hard or Soft	Top ⁴	Bottom	Oil, Gas or Water	Depth Found	Remarks
Coal			1323	1325			
Sand & Linn			1325	1396			
Sand & Shale			1396	1471			
Shale			1471	1486			
Sand & Shale			1486	1640			
Sandy Linn			1640	1673			
Sandy Shale			1673	1734			
Sand			1734	1739			
Shale			1739	1793			
Sandy Shale			1793	1836			
Little Linn			1836	1868			
Shale			1868	1856			
Miss Monday			1856	1872			
Fossil Cove			1872	1886			
Big Linn			1886	1940			
Big Linn			1940	2027			
Pay Zone			1982	2024	1982 2024		
Shale			2027	2034			
TOTAL DEPTH				2034			



Date **April 30**, 19 **64**

APPROVED _____

FEDERAL OIL AND GAS ADMINISTRATION

By *George W. Williams* **Manager**

Land-Grant Records Department

Owner _____