

Minimum Error of Closure $\frac{1}{2000}$

Source of Elevation ROAD XING RAIL ROAD LIMIT S.W. OF LOCATION

- Fracture
- 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.

Signed: Paul S. Dean

Map No. _____ Squares: N S E W

Company N. G. CLARK, ET. AL.
 Address Box 427, CHARLESTON 22, W.VA.
 Farm W. A. DUCKWORTH, HEIRS
 Tract 1 Acres 146 1/2 ± Lease No. _____
 Well (Farm) No. SEVEN Serial No. _____
 Elevation (Spirit Level) 985
 Quadrangle WEST UNION SP
 County DODDRIEDGE District CENTRAL
 Engineer PAUL G. DEAN
 Engineer's Registration No. 1856
 File No. 136-9-42 Drawing No. 67-56
 Date SEPT 15, 1967 Scale 1" = 600'

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

WELL LOCATION MAP

FILE NO. DOD-1478

+ 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.

6-0 891



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

- Rotary
- Spudder
- Cable Tools
- Storage

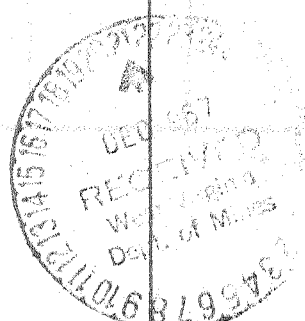
Location West Union
Permit No. DNR 1478

WELL RECORD

Oil or Gas Well Gas and oil
(KIND)

Company N. G. Clark, etal
 Address Box 427 Charleston, W. Va. 25323
 Name W. A. Duckworth Hrs. Acres 146 1/4
 Location (waters) Wilhelm Run
 Well No. 7 Elev. 985
 District Central County Putnam
 The surface of tract is owned in fee by W. A. Duckworth Hrs.
 Address West Union, W. Va.
 Mineral rights are owned by Same
 Address _____
 Drilling commenced Oct. 2, 1967
 Drilling completed Dec. 4, 1967
 Date Shot _____ From _____ To _____
 Casing and Tubing _____
 Used in Drilling _____
 Left in Well _____
 Packers _____
 Kind of Packer _____
 Size of _____
 Depth set _____
 Perf. top _____
 Perf. bottom _____
 Perf. top _____
 Perf. bottom _____
 Liners Used _____
 Attach copy of cementing record.
 CASING CEMENTED 4 1/2 SIZE 2104 No. Ft. 12-11-67 Date
 Amount of cement used (bags) 25 bags
 Name of Service Co. Dowell
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 WELL FRACTURED (DETAILS) Fractured with 600 bbls of water and 25,000 lbs. of sand
 RESULT AFTER TREATMENT (Initial open Flow or bbls.) 200,000 Cu. Ft. gas 30 bbls oil
 ROCK PRESSURE AFTER TREATMENT None taken HOURS _____
 Fresh Water 422 and 535 Feet _____ Salt Water _____ Feet _____
 Producing Sand Big Injun Depth 2104

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
g	Yellow	Soft	0	20			
o	White	Hard	20	30			
Line	Red	Hard	30	45			
to	Grey	Soft	45	89			
Rock	Red	Soft	89	125			
to	Grey	Soft	125	130			
Rock	Red	Soft	130	135			
to	Grey	Soft	135	195			
ny Line	White	Hard	195	210			
Rock	Red	Soft	210	370			
to	Grey	Soft	370	394			
d	White	Hard	394	422			
te-Shells	Grey	Soft	422	437			Fresh Water 400 to 422 1 Bl. an hr.
Rock	Red	Soft	437	485			
to	Grey	Soft	485	510			
d	White	Hard	510	580			Fresh Water 535 to 544 8 Bl. an hr.
e Sandy	White	Hard	580	596			
te-Shells	Grey	Soft	596	639			
s	White	Hard	639	684			
te-Shells	Grey	Soft	684	709			
d	White	Hard	709	744			
te-Shells	Grey	Soft	744	768			
Rock	Red	Soft	768	778			
te-Shells	Grey	Soft	778	793			
Rock	Red	Soft	793	804			
s	White	Hard	804	824			
Rock	Red	Soft	824	897			
o	White	Hard	897	910			
te-Shells	Grey	Soft	910	977			



Formation	Color	Hard or Soft	Top /	Bottom	Oil, Gas or Water	Depth Found	Remarks
Red Rock	Red	Soft	977	1011			
Slate-Shells	Grey	Soft	1011	1081			
lime	White	Hard	1081	1100			
Sand	White	Hard	1100	1136			
Slate-Shells	Grey	Soft	1136	1166			
Sand	White	Hard	1166	1186			
Slate-Shells	Grey	Soft	1186	1236			
lime	White	Hard	1236	1307			
Sand	White	Hard	1307	1348			
Slate-Shells	Grey	Soft	1348	1486			
Sand	White	Hard	1486	1564			
Slate-Shells	Grey	Soft	1564	1625			
lime	White	Hard	1625	1647			
Slate-Shells	Grey	Soft	1647	1672			
lime	White	Hard	1672	1700			
Sand	White	Hard	1700	1748			
Slate-Shells	Grey	Soft	1748	1785			
lime	White	Hard	1785	1825			
Red lime	Red	Soft	1825	1860			
Slate	Grey	Soft	1860	1874			
lime Little	White	Hard	1874	1894			
Slate	Grey	Soft	1894	1904			
lime Big	White	Hard	1904	1994			
Sand Injun	White	Hard	1994	2060	Oil Show	1999 to 2006	
Slate	Grey	Soft	2060	2104		2012 to 2018	

Date December 13, 1967, 19

APPROVED N. G. Clark et al N. G. Clark Owner

By _____ (Title)