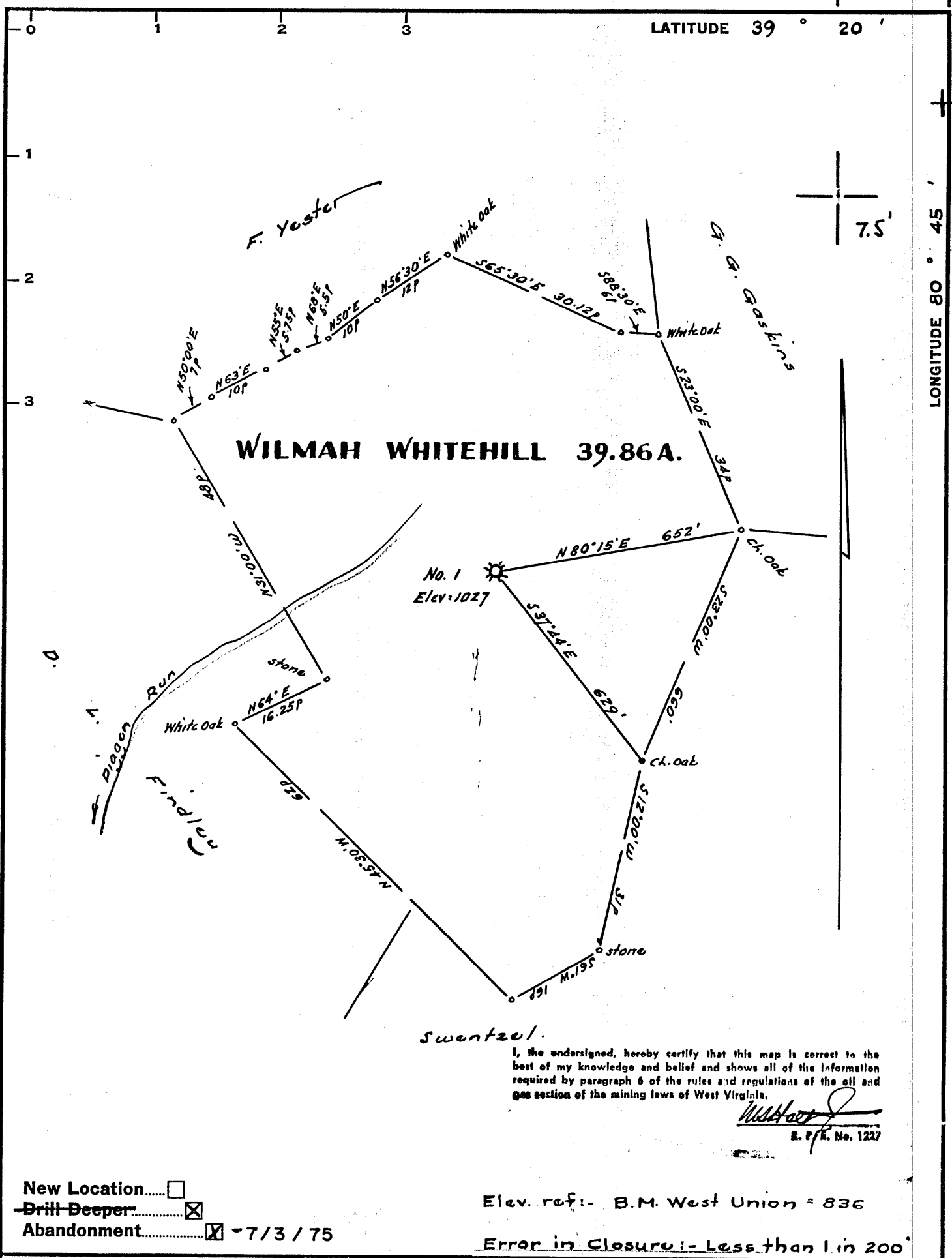


←1860→



Swentzel.

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Swentzel
R. F. No. 1227

New Location.....
 Drill-Deeper.....
 Abandonment..... 7/3/75

Elev. ref:- B.M. West Union = 836

Error in Closure:- Less than 1 in 200'

Company DON W. HARDMAN ~~Don Dodrigo Oil Productions~~
 Address Rte 2, Box 119 Walker, W.V. 26180
 Farm Wilmah L. Whitehill
 Tract _____ Acres 39.86 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1027
 Quadrangle West Union 15' & 7.5'
 County Doddridge District West Union
 Engineer *Swentzel*
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Nov. 23, 1966 Scale 1" = 200' = 330'

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

WELL LOCATION MAP
 FILE NO. DOD-372-DD-P

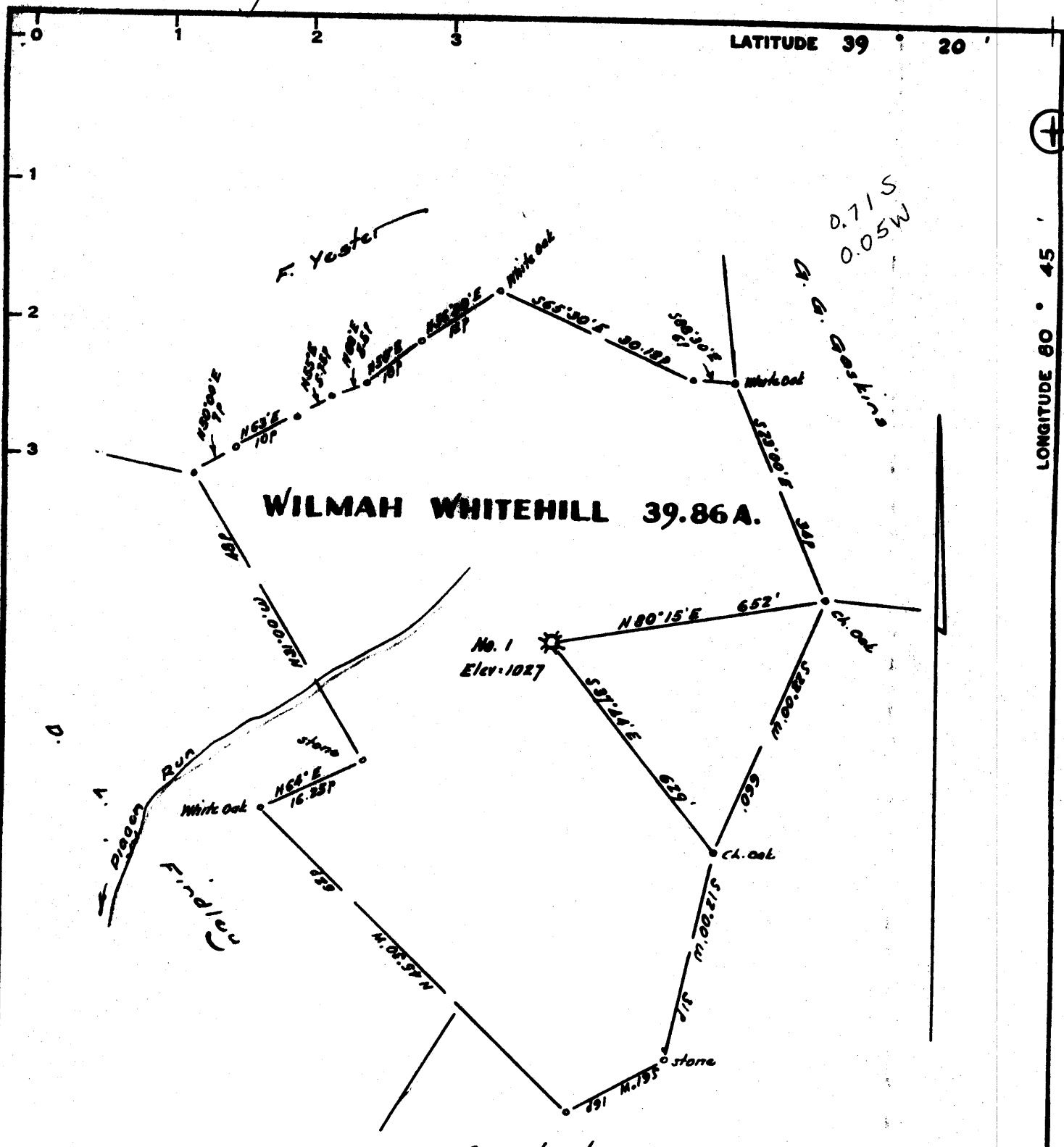
Plugging permit cancelled
 + Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

OCT 6 1986
 - Denotes one inch spaces on border line of original tracing.

47-017

LATITUDE 39 20

LONGITUDE 80 45



WILMAH WHITEHILL 39.86A.

No. 1
Elev. 1027

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 6 of the rules and regulations of the Oil and Gas section of the mining laws of West Virginia.

[Signature]
R. P. No. 122

New Location
 Drill Deeper
 Abandonment 7/3/75

Elev. ref: - B.M. West Union 836
 Error in Closure: - Less than 1 in 200

Company DON W. HARDMAN
 Address Rte 2, Box 119 Walker, W.V. 26180
 Farm Wilmah L. Whitehill
 Tract Acres 39.86 Lease No. _____
 Well (Farm) No. One Serial No. _____
 Elevation (Spirit Level) 1027
 Quadrangle West Union SE
 County Doddridge District West Union
 Engineer [Signature]
 Engineer's Registration No. 1227
 File No. _____ Drawing No. _____
 Date Nov. 23, 1966 Scale 1" = 200' = 330'

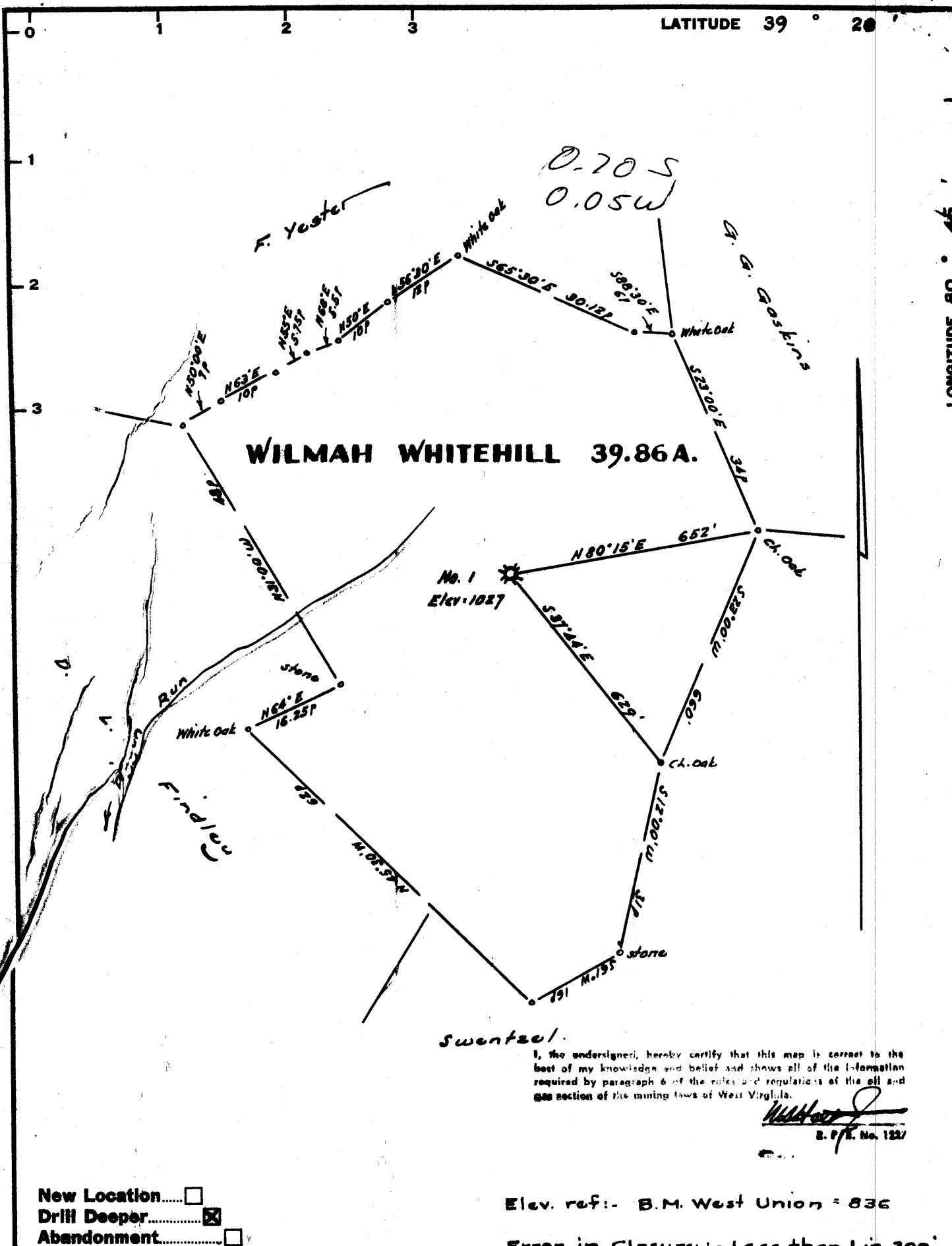
STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. DDP-372-DDP

+ 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.

47-017



WILMAH WHITEHILL 39.86A.

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all of the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

[Signature]
E. P. R. No. 1227

New Location.....
 Drill Deeper.....
 Abandonment.....

Elev. ref:- B.M. West Union = 836

Error in Closure:- Less than 1 in 200'

Company	CHARLES L. REED OIL CO.
Address	Route 39, Box 54A, St Marys, West Va.
Farm	Wilma L. Whitehill
Tract	Acres 39.86 Lease No. _____
Well (Farm) No.	One Serial No. _____
Elevation (Spirit Level)	1027
Quadrangle	West Union - SE
County	Doddridge District West Union
Engineer	<i>[Signature]</i>
Engineer's Registration No.	1227
File No.	_____ Drawing No. _____
Date	Nov. 23, 1966 Scale 1" = 200' = 330'

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

WELL LOCATION MAP

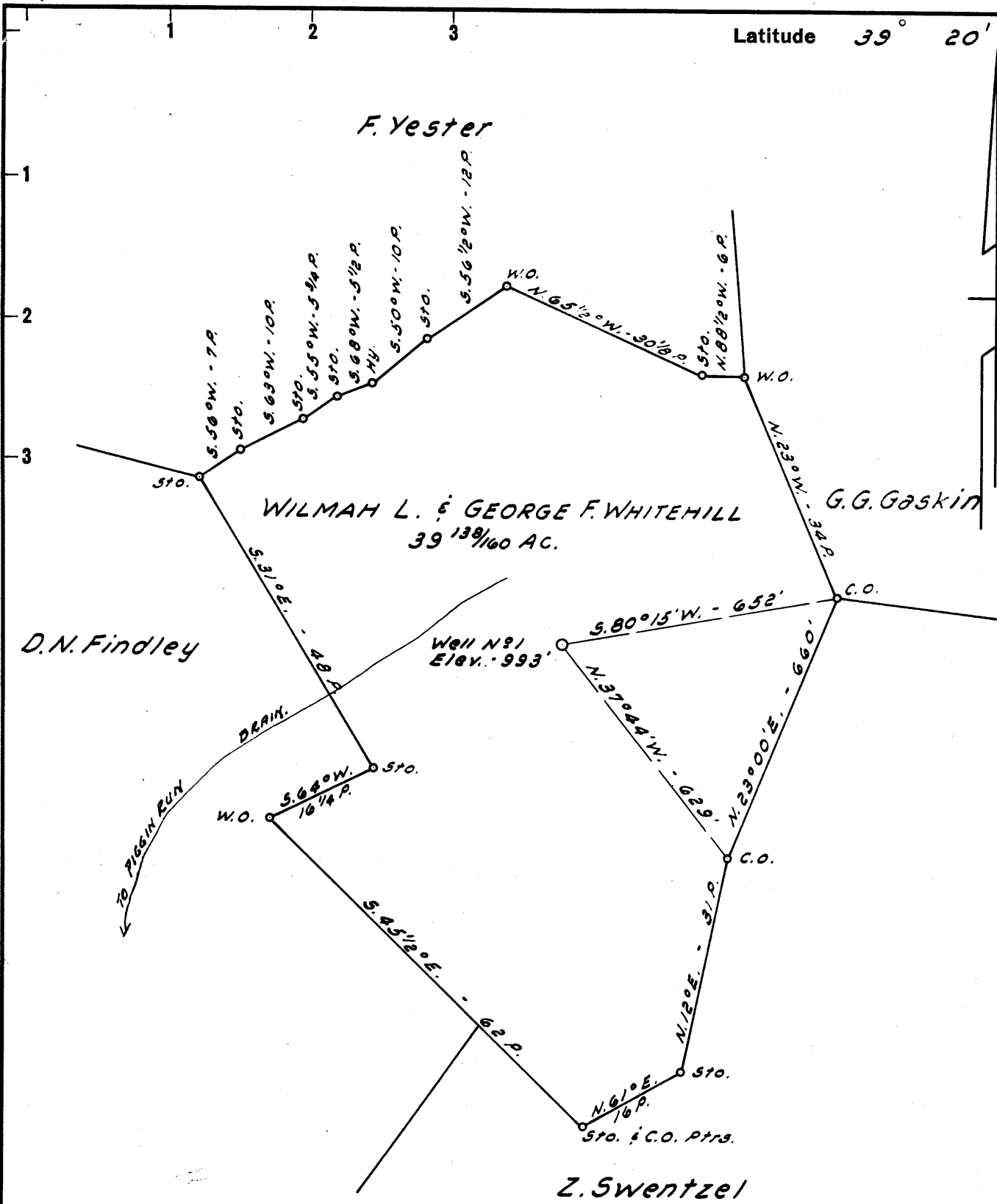
FILE NO. DOD-372-00

+ 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.

6695

Latitude 39° 20'

Longitude 80° 45'



New Location
 Drill Deeper
 Abandonment

NOTE:
 Wilmah L. & Geo. F. Whitehill own in Fee.

Company DALE COTTRILL & LEON BEAVER

Address 103 KIBLER ST. WILLIAMSTOWN, W. VA.

Farm WILMAH L. & GEO. F. WHITEHILL

Tract _____ Acres 39 138/160 Lease No. _____

Well (Farm) No. 1 Serial No. _____

Elevation (Spirit Level) 993'

Quadrangle WEST UNION - SE

County DODDRIDGE District WEST UNION

Engineer JOHN W. HAMILTON

Engineer's Registration No. 2274

File No. _____ Drawing No. _____

Date MAY 1, 1960 Scale 1" = 20 POLES

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

WELL LOCATION MAP

FILE NO. DOD-372

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STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Rotary
Spudder
Cable Tools
Storage

WELL RECORD

Oil or Gas Well O&G
(KIND)

Quadrangle _____

Permit No. DOD-372-DD

Company Charles L Reed Oil Co
Address Rt 39 Box 54A St Marty W. Va.
Farm Wilm. Whitehill Acres 40A
Location (waters) Piggen Run
Well No. # 1 Elev. 1027
District West Union County Doddridge
The surface of tract is owned in fee by Wilma Whitehill
Address West Union
Mineral rights are owned by Wilma Whitehill

Address Nov 20
Drilling commenced Nov 20 1966
Drilling completed Dec 22 1966
Date Shot _____ From _____ To _____
With _____

Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Show _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ Show _____ bbls., 1st 24 hrs.

WELL ACIDIZED (DETAILS) _____

WELL FRACTURED (DETAILS) Dowell, 600 BBL Water 18,000 Lbs and

RESULT AFTER TREATMENT (Initial open Flow or bbls.) 500,000 Gas

ROCK PRESSURE AFTER TREATMENT 600 lbs HOURS _____

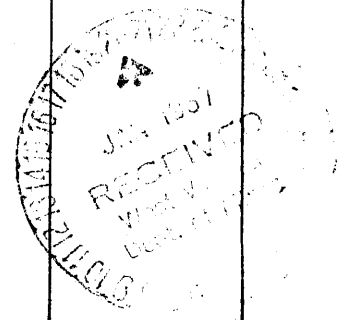
Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Producing Sand Big Injun Depth 2128 to 2190

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16.	20'	20'	
13.			Size of
10.			Depth set
8 1/4			
6 3/4			
5 3/16	2036	2036	
4 1/2			
3.			Perf. top
2.		2204	Perf. bottom
Liners Used			Perf. top
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED _____ SIZE 5 1/2 No. Ft. 2036 Date _____
Amount of cement used (bags) _____
Name of Service Co. _____
COAL WAS ENCOUNTERED AT 0 FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Slate	White	Med	2110	2116			
Sand	Grey	Hard	2116	2120			
Big Injun	Grey	Hard	2120	2130			
Slate	Grey	Med	2130	2132			
Sand	Grey	Hard	2132	2146			
Sand	Brown	Med	2146	2160	O&G	Good Oiler	
Sand	Grey	Soft	2160	2172	Oil&Gas	Good Oil	Cut, more Gas
Sand	Grey	Hard	2172	2186			
Slate	Black	Med	2186	2204	T.D.		
				2128			
				104			





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 4

Quadrangle West Union

Permit No. DOD372

WELL RECORD

Oil or Gas Well Gas

Company Cottrill and Beaver
Address 103 Kibler Ln. Williamstown, W. Va.
Farm Wilmah L. & Geo. Whitehill Acres 13 1/2
Location (waters) Piggin Run
Well No. 1 Elev. 993
District West Union Magisterial County Doddridge
The surface of tract is owned in fee by Wilmah L. & Geo. Whitehill Address West Union, W. Va.
Mineral rights are owned by Wilmah L. & Geo. Whitehill Address West Union, W. Va.

Drilling commenced May 31, 1960
Drilling completed July 7, 1960

Date Shot _____ From _____ To _____
With _____

Open Flow _____ /10ths Water in _____ Inch
50 /10ths Merc. in 3 Inch

Volume 3 Million Cu. Ft.
Rock Pressure 200 lbs. 12 hrs.

Oil _____ bbls., 1st 24 hrs.

WELL ACIDIZED _____

WELL FRACTURED _____

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water _____ Feet _____ Salt Water _____ Feet _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			Bottom Hole
13			Size of <u>8 1/2</u> "
10	<u>285 ft.</u>	<u>Non e</u>	Depth set <u>1145 ft.</u>
8 1/4	<u>1145 ft.</u>	<u>42 ft.</u>	
6 5/8	<u>1660 ft.</u>	<u>None</u>	
5 3/16	<u>2037 ft.</u>	<u>2037 ft.</u>	
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED Yes SIZE 5 1/2 No. Ft. 200 Date June 30, 1960
12 Sks. Cement & 6 Sks. Aquagel

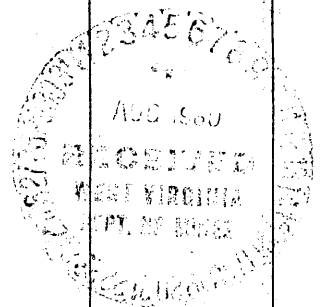
LAWSON CEMENTING COMPANY

COAL WAS ENCOUNTERED AT None FEET INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

_____ FEET _____ INCHES _____ FEET _____ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Redrock	Red	Soft	0	60			
Sand	White	Med.	60	80	water		Water 15 bbl.-per hr.
Slate & sh.	White	Med.	80	125			
Redrock	Red	Soft	125	140			
Sand	White	Med.	140	160	Water		Hole full water
Redrock	Red	Soft	160	170			
Slate & Sh.	White	Med.	170	210			
Redrock	Red.	Soft	210	220			
Slate & Sh.	White	Med.	220	285			
Lime	White	Hard	285	305			
Lime	Red	Hard	305	365			285' 10" Pipe
Slate & Sh.	White	Med.	365	415			
Lime	Red	Med.	415	435			
Sand	White	Med.	435	480			
Slate & Sh.	White	Med.	480	510			
Lime	Red	Med.	510	530			
Redrock	Red	Soft	530	540			
Lime	White	Hard	540	575			
Redlime	Red	Hard	575	595			
Slate & Sh.	White	Med.	595	625			
Sand	White	Med.	625	655			
Slate	White	Soft	655	675			
Redrock	Red	Soft	675	700			
Slate & Sh.	White	Med.	700	730			
Granite	Gray	Hard	730	746			
Slate & Sh.	White	Med.	746	790			
Sand	White	Med.	790	815			
Slate & Sh.	White	Med.	815	850			
Big Redrock	Red	soft	850	900			
Slate & Sh.	White	Med.	900	980			



Formation	Color	Hard or Soft	Top 4	Bottom	Oil, Gas or Water	Depth Found	Remarks
Redrock	Red	Soft	980	1020			
Slate & Sh.	White	Med.	1020	1070			
Redrock	Red	Med.	1070	1120			
Slate & Sh.	Gray	Med.	1120	1180			1145' 8" pipe
Sand	Gray	Med.	1180	1195			
Slate & Sh.	White	Med.	1195	1245			
Sand	White	Med.	1245	1265			
Slate & Sh.	White	Med.	1265	1360			
Sand	White	Hard	1360	1395			
Slate & Sh.	Black	Med.	1395	1485			
1st SaltSd.	Dark	Med.	1485	1500			
Slate & Sh.	White	Med.	1500	1570			
2 Saltsand	Dark	Med.	1570	1685	Water		Salt water 1645-
Slate & Sh.	Black	Med.	1685	1735			ft.--300 ft in
3 Saltsand	Dark	Med.	1735	1795			1½ hrs. Run
Brokensand	Black	Med.	1795	1920			1660 ft of 7" OD casing.-
Slate & Sh.	White	Med.	1920	1945			Depthometer run-
Maxton sand	Gray	Hard	1945	1980			at 1672 ft.-
Little lime	Dark	Hard	1980	2002			1675 ft- water
Slate break	Black	Soft	2002	2008			2 bbl. per hr.
Blue Monday	White	Hard	2008	2026			2037'-5½ casing
Big Lime	Brown	Hard	2031	2095			
Big Injun	White	Med.	2095	2103	Gas	2103	