

DIVISION OF OIL AND GAS

LOG AND CORE RECORD OF OIL OR GAS WELL

Operator The Texas Company Field Glatskanie Area
Well No. Glatskanie #1 Sec. 36, T. 7-N, R. 4-W, Will. B & M

FORMATIONS PENETRATED BY WELL

DEPTH TO		Thickness	Drilled or Cored	Recovery	DESCRIPTION
Top of Formation	Bottom of Formation				
1945					
7/2					
Spudded well in at 12:01 A.M. with a 24" Wright Pilot bit and stabilizer.					
0'	115'		Drilled		Surface gravel and shale.
Ran 115' overall of 20" O.D. 73#, New, Seamless, slip joint casing and cemented at 115' with 150 sacks of Oregon Brand Portland Construction Cement using T.F.Co. cement mixing equipment and rig pumps. Used no shoe and one top wooden plug. Displaced cement with 80 barrels of mud. Cut off 20" casing at surface and attempted to cement around the outside of casing. Artesian water flowing around outside of 20". Welded plate around 20" and to the 26" conductor pipe to control the flow. Pumped in total of 85 sacks of Oregon Brand cement under pressure to bring cement to the surface and shut off the flow of water to the surface.					
7/4.					
Installed landing base and Blow-out Prevention Equipment. Ran in with a 17 1/2" Wright Pilot bit and drilled out cement from 115'-115'. Drilled ahead.					
115'	120'		Drilled		Shale.
Changed to 12 1/2" bit and drilled ahead.					
120'	353'		Drilled		Sandy Shale.
353'	378'		"		Sand and Shale.
378'	381'		"		Shell.
381'	628'		"		Sand and Shale.
Ran in with 9-5/8" Elliott Wire Line Core Barrel.					
628'	638'		Core #1		
628'	638'		Core #2		
638'	648'		Core #3		
648'					
730'					
730'	740'		Drilled		Sand and Shale.
740'	750'		Core #4		
740'	750'		Core #5		
750'	760'		Core #6		
7/7					
Ran in with 12 1/2" drag bit and reamed 9-5/8" rat-hole to bottom. Reran 9-5/8" core barrel and cored ahead.					

760' 770' Core #7
770' 780' Core #8

Ran in with 12 $\frac{1}{2}$ " bit. Reamed down rathole and drilled ahead.

780'	789'	Drilled	Sand and Shale.
789'	842'	"	Hard Shale.
842'	859'	"	Sand and Shale.
859'	867'	"	Hard Sand.
867'	899'	"	Shale.
899'	901'	"	Hard Shale.
901'	969'	"	Sandy Shale.
969'	972'	"	Sand and Shale.
972'	1006'	"	Hard Sand.

7/10 Ran in with a 9-5/8" Elliott Wire Line Core Barrel.

1006' 1010' Core #9

Ran in hole with 12 $\frac{1}{2}$ " bit. Reamed down rathole and drilled ahead.

1010'	1017'	Drilled	Hard Sand.
1017'	1059'	"	Sand and Shale.
1059'	1096'	"	Hard Sand.

7/11/45 Twisted off drill pipe leaving bit, 4 drill collars, subs, and approximately 370' of drill pipe in the hole. Ran in with Bowen overshot on 5-9/16" drill pipe and recovered the fish. Reran a 12 $\frac{1}{2}$ " bit and resumed drilling.

1096'	1129'	Drilled	Hard Shale and Streaks of Sand.
1129'	1143'	"	Sand and Shale.

7/12 Ran in with 9-5/8" Elliott Wire Line Core Barrel and cored ahead.

1143' 1154' Core #10
1154' 1155' Core #11

Ran in with 17 $\frac{1}{2}$ " Wright Pilot bit and stabilizer and reamed hole from shoe of 20" casing to 1143'.

7/16 Ran 26 joints, 1070' overall of 13 $\frac{3}{8}$ " 54.5# J-55 Seamless @ & C 8 rd. thd., Youngstown casing and cemented at 1051' K.B. with 900 sax

7/16/45 of Golden Gate Construction Cement mixed with approx. 2% Bentonite.
(cont'd) M.T. 40 min., P.T. 5 min., D.T. 5 1/4 min., T.T. 1 hour 39 minutes.
Flugs bumped. F.P. 400#. Estimated 150 sax of cement in the returns
at the surface. Used International Cementing Equipment.

7/18 Landed casing and installed Blowout Prevention Equipment. Tested
Kerotest Master Gate to 1500# for 10 minutes. Held O.K. Laid
down the 5-9/16" drill pipe and made up 4 1/2" Hydril. Ran in with
a 12 1/2" bit and located the top of the cement at 929'. Closed the
Regan Blowout Preventer and tested with 700# pressure. Held O.K.
Cleaned out cement and drilled ahead.

1155'	1172'	Drilled	Sand and Shale.
1172'	1190'	"	Sand with Hard Streaks.
1190'	1198'	"	Shale.
1198'	1227'	"	Sand and Shale.

7/20 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

1227'	1401'	Core #12	
		to	
		Core #28, incl.	

7/21 Ran in with a 9-7/8" bit and reamed down rathole to botto#. Reran
the 8 1/2" core barrel and cored ahead.

1401'	1411'	Core #29	
1411'	1421'	Core #30	
1421'	1427'	Core #31	
1427'	1438'	Core #32	
1438'	1449'	Core #33	

1449'	1540'	Drilled with Center Bit	Shale.
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1540'	1551'	Core #34	
1551'	1562'	Core #35	
1562'	1573'	Core #36	
1573'	1584'	Core #37	

7/22 Ran in with 9-7/8" bit and reamed down rathole. Drilled ahead.

1584'	1684'	Drilled	Shale.
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Pulled out and ran back in with an 8 1/2" Elliott Wire Line Core Bbl.

1688' 1696' Core #38
1696' 1708' Core #39
1708' 1720' Core #40

1720' 1739' Drilled with a center bit. Sand and Hard Shale.

7/23/45 Reamed down 8 $\frac{1}{2}$ " rathole with 9-7/8" bit and drilled ahead.

1739' 1813' Drilled Med. Hard Shale.
1813' 1820' " Shale with Hard Streaks.

Ran in with 8 $\frac{1}{2}$ " Elliott Wire Line Core Barrel.

1820' 1830' Core #41
1830' 1840' Core #42

7/24 Ran in w/ 9-5/8" Elliott Wire Line Core Barrel and center bit and reamed down 8 $\frac{1}{2}$ " rathole and drilled ahead.

1840' 1879' Drilled Hard Shale.

1879' 1889' Core #43

Reamed down rathole with 9-7/8" bit and drilled ahead.

1889' 1977' Drilled Hard Shale.

7/25 Ran in with 8" Elliott Wire Line Core Barrel.

1977' 2061' Core #44
to
Core #46, Incl.

Ran Schlumberger electrical logging instrument. Ran in with 9-7/8".
Reamed down rathole and drilled ahead.

2061' 2092' Drilled Tough Shale.
2092' 2112' " Sand and Shale.
2112' 2124' " Sand.

Ran Schlumberger electrical logging instrument. Ran in with 9-5/8"
Elliott Wire Line Core Barrel.

2124' 2136' Core #45

2136' 2159' Drilled with center Bit. Hard Shale and Streaks of Sand.

2159' 2170' Core #52

7/27/45 Reamed down rathole and drilled ahead with 9-7/8" bit.

2170'	2225'	Drilled	Sand and Shale.
2225'	2237'	"	Shale.
2237'	2271'	"	Sand and Shale.
2271'	2291'	"	Med. Hard Shale.
2291'	2340'	"	Sand and Shale.

Ran in hole with 8 1/2" Elliott Wire Line Core Barrel.

2340'	2352'	Core #53
2352'	2354'	Core #54

7/28 Reamed down rathole and drilled ahead with 9-7/8" bit.

2354'	2407'	Drilled	Sand and Shale.
2407'	2442'	"	Silty Shale.
2442'	2450'	"	Sand and Shale.

Ran in with an 8 1/2" Elliott Wire Line Core Barrel.

2450'	2462'	Core #55
2462'	2474'	Core #56

2474'	2478'	Drilled with Center Bit	Hard Shale.
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2478'	2510'	Drilled	Sand and Shale.
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2510'	2514'	Core #57
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7/29/45 Reamed down 8 1/2" rathole and drilled ahead with 9-7/8" bit.

2514'	2622'	Drilled	Sand and Shale.
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7/30 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

2622'	2634'	Core #58
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2634'	2645'	Core #59
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2645'	2656'	Core #60	
2656'	2667'	Core #61	
2667'	2690'	Drilled with Center Bit.	Sand and Shale.
2690'	2698'	Core #62	
2698'	2710'	Core #63	
Reamed down 8 $\frac{1}{2}$ " rathole and drilled ahead with 9-7/8" bit.			
2710'	2728'	Drilled	Sand and Shale.
2728'	2752'	"	Sandy Shale.
2752'	2769'	"	Sand with Streaks of Shale.
2769'	2786'	"	Hard Shale.
2786'	2805'	"	Sand and Shale.
7/31	Ran in with 8 $\frac{1}{2}$ " Elliott Wire Line Core Barrel.		
2805'	2817'	Core #64	
2817'	2827'	Core #65	
2827'	2839'	Core #66	
Reamed down rathole and drilled ahead with 9-7/8" bit.			
2839'	2954'	Drilled	Sand and Shale.
8/1/45	Ran in with 8 $\frac{1}{2}$ " Elliott Wire Line Core Barrel.		
2954'	2966'	Core #67	
2966'	2978'	Core #68	
2978'	2995'	Drilled with Center Bit	Sand and Shale.
2995'	2999'	Core #69	
8/2/45	Reamed down rathole and resumed drilling with 9-7/8" bit.		
2999'	3132'	Drilled	Sand and Shale.
8/3/45	Ran in with 9-5/8" Elliott Wire Line Core Barrel.		
3132'	3143'	Core #70	
3143'	3150'	Core #71	

Ran Schlumberger electrical logging instrument. Ran back in with a 9-7/8" bit and reamed down the rathole. Resumed drilling.

3150' 3283' Drilled Hard Silty Shale.
3283' 3385' " Hard Shale.

8/6/45 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

3385' 3395' Core #72
3395' 3401' Core #73

Reamed down rathole and resumed drilling with a 9-7/8" bit.

3401' 3804' Drilled Hard Silty Shale.

8/13/45 Ran in with 8" Elliott Wire Line Core Barrel.

3804' 3816' Core #74

Reamed down rathole and drilled ahead with 9-7/8" bit.

3816' 4336' Drilled Hard Silty Shale.

8/21/45 Ran in with 9-5/8" Elliott Wire Line Core Barrel.

4336' 4348' Core #75

Reamed down rathole and drilled ahead with 9-7/8" bit.

4348' 4540' Drilled Hard Silty Shale.

8/25/45 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

4540' 4550' Core #76

Reamed down rathole and drilled ahead with 9-7/8" bit.

4550' 4760' Drilled

8/28/45 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

4760' 4772' Core #77
4772' 4784' Core #78

8/29/45 Reamed down rathole and drilled ahead with 9-7/8" bit.

4784' 4855' Drilled Hard Silty Shale.

Ran in with 8 1/2" Elliott Wire Line Core Barrel.

4858' 4870' Core #79

4870' 4882' Core #80

4882' 4887' Core #81

4887' 4899' Core #82

9/1/45 Reamed down rathole and drilled ahead with 9-7/8" bit.

4899' 5114' Drilled Hard Silty Shale.

9/4/45 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

5114' 5126' Core #83

5126' 5138' Core #84

5138' 5144' Core #85

5144' 5156' Core #86

9/6/45 Reamed down rathole and drilled ahead with 9-7/8" bit.

5156' 5211' Drilled Hard Shale.

5211' 5228' " Sandy Shale.

5228' 5275' " Hard Shale.

9/8/45 Ran in with 8 1/2" Elliott Wire Line Core Barrel.

5275' 5287' Core #87

5287' 5299' Core #88

5299' 5301' Drilled with Center Bit. Hard Shale.

9/9/45 Reamed down rathole and drilled ahead with 9-7/8" bit.

5301' 5353' Drilled Hard Shale.

9/10 Stuck drill pipe while making a connection. Formation closed around drill pipe and could not circulate. Worked drill pipe and finally established circulation. Pulled the drill pipe free. Pulled out of the hole. The hole was tight from 5353'-5100'.

9/11/45 Ran in the hole with 9-7/8" bit. Reamed and conditioned hole from 5100' to bottom. Drilled ahead.

5353' 5382' Drilled Hard Shale.

9/12/45 Ran Schlumberger electrical logging instrument. Ran in with 9-7/8" bit and drilled ahead.

5382' 5429' Drilled Hard Shale.

9/13 Ran Schlumberger electrical log and Dipmeter. Drilled ahead with 9-7/8" bit.

5429' 5441' Drilled Hard Shale.

9/14 Ran T.T. Co. Geophones on Schlumberger line. Ran in with 8 1/2" Elliott Wire Line Core Barrel.

5441' 5454' Core #89
5454' 5461' Core #90

9/15 Reamed down rathole and drilled ahead with 9-7/8" bit.

5461' 5551' Drilled Hard Shale.

9/17 Ran Schlumberger electrical log and T.T.Co. Geophones. Ran in with 8 1/2" Elliott Wire Line Core Barrel.

5551' 5563' Core #91
5563' 5564' Core #92
5564' 5576' Core #93
5576' 5584' Core #94
5584' 5592' Core #95
5592' 5604' Core #96
5604' 5615' Core #97
5615' 5621' Core #98
5621' 5633' Core #99
5633' 5644' Core #100
5644' 5650' TV Core #101

9/21/45 Ran in with 9-7/8" bit to ream down rathole. Stuck drillpipe while reaming at 5640'. Hole sloughed and shut off circulation. Could not

- 9/21/45 (contd) rotate drill pipe. Worked drill pipe from 9/21/46 to 9/24/46 but pipe would not come free.
- 9/24 Broke off Kelly and retrieved inner barrel. Ran Ford Alexander String Shot on sand line and shot drill pipe at 4615'. Drill pipe backed off at 4660'. Could not get string shot any deeper due to the high gel strength and viscosity of the mud in the drill pipe. Left 26 joints, 780' of 4½" Hydril drill pipe, T.T.Co. Elliott Wire Line Core Barrel, subs, 8½" Elliott Wire Line Rock Head bit, and 193.75' of (6) drill collars in the hole making an overall length of 973.75' of fish.
- 9/25 Plugged shoe of 13-3/8" surface casing with 60 sacks of Oregon Brand Portland Construction Cement pumped in through open-end drill pipe hung at 1071'. Displaced cement with 77 c.f. of mud to equalize. M.T. 7 min., D.T. 4 min., T.T. 11 min. Used T.T.Co. cement mixing equipment and rig pumps. Average slurry density 116½/c.f. Finished cementing at 4:30 P.M.
- 9/26/45 Ran in hole with 4½" drill pipe and located top of the cement plug at 1030'. Cement supported full weight of the drill pipe. Removed Blowout Prevention Equipment and all cellar connections.
- 9/28 Placed a 10" cement bridge in the top of the 13-3/8" casing, capped the surface with a steel plate, and abandoned the hole.