

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	6	6	Cellar
6	1404	1398	Red Bed, Shale and Sand
1404	1510	106	Anhydrite, Red Sand and Shale.
1510	2525	1015	Salt, Polycrystalline and Anhydrite
2525	2650	125	Anhydrite
2650	2790	140	Red Sand and Anhydrite
2790	3480	690	Dolomite and Anhydrite
3480	3746	266	Dolomite, Anhydrite and Sand.
3746	3909	163	Dolomite and Sand.
3909	4100	191	Sand and Dolomite
4100	5350	1250	Dolomite and Anhydrite
5350	5855	505	Dolomite and Sand.
5855	6358	503	Dolomite
6358	6950	592	Sand and Dolomite.
6950	7658	708	Dolomite and Limestone
7658	7858	200	Limestone and Shale.
7858	8705	847	Dolomite and Chert
8705	9012	307	Sand and Dolomite
9012	9292	280	Sand and Shale.
9292	9418	126	Dolomite and Chert
9418	9429	11	Granite
<u>SLOPE TESTS</u>		<u>GEOLOGICAL DATA</u>	
250'	-1/2 deg.	Top Anhydrite	1433'
1580	-1/4	Top Salt	1538
2020	-1/2	Base Salt	2553
2616	1-1/4	Top Yates	2694
3180	1-1/4	Top San Andres	4040
3685	-3/4	Base San Andres	5350
4038	-3/4	Top Clearfork	5855
4585	1-1/4	Top Tubbs	6358
4889	2-	Top Wichita (Abo)	6950
5356	2-3/4	Base Permian	7658
5796	1-1/4	Top Devonian	7858
6457	-3/4	Top Montoya	8440
6988	-3/4	Top Simpson	8705
7308	1-1/4	Top McKee	9012
7605	1-1/4	Top Ellenberger	9292
7950	3-1/2	Top Granite	9418
8328	2-3/4	Elevation	3566' D.F.
8540	2-1/4		
8725	2-1/2		
9181	3-		
<u>DRILL STEM TESTS</u>			
D.S.T. #1 -	From 3830' to 3963'. 2 hour & 23 min. Test. Opened tool with very light blow which died in 23 minutes. Recovered 170' Drlg. Mud in Drill Collars. No Shows		
D.S.T. #2 -	From 3963' to 4040'. 4 hour Test. Opened tool with good blow of air. Gas up in 7 minutes which decreased immediately to 1,280 cu ft per day. Recovered 150' Black Drlg. Mud cut with Sulphur water, 3310' Sulphur water w/trace of gas.		
D.S.T. #3 -	From 6919' to 6930'. 4 hour Test. Opened tool with good blow of air. Gas up in 10 minutes. Gas Vol. 111,670 cu ft per day which decreased to 63,160 cu ft per day by end of test. No fluid to surface. Recovered 1060' Sulphur later with top 10' oil cut.		
D.S.T. #4 -	From 7245' to 7410'. 4 hour and 30 minute Test. Opened tool with gas to surface in 4 minutes, mud up in 14 min, oil up in 18 min. Flowed 41.72 bbl in 4 hours. Reversed out 5 bbl mud oil & gas cut.		
D.S.T. #5 -	From 7410' to 7485'. 4 hour Test. Opened tool with fair blow of air which decreased to trace in 3 hours. Gas to surface in 3 hours and 45 min. - Volume too small to measure. Recovered 150' slightly gas cut drlg mud.		
D.S.T. #6 -	From 7536' to 7639'. 6 hour and 5 minute Test. Opened tool with strong blow of air. Gas up in 6 min., mud to surface in 1 hour & 45 minutes, oil up in 1 hour & 45 min. Flowed 45.04 bbl in 4 hours. Reversed out 8.28 bbl oil and 1 bbl mud.		
D.S.T. #7 -	From 7639' to 7700'. 4 hour Test. Opened tool with fair blow of air which continued thru test. No gas or fluid to surface. Recovered 320' slightly gas cut drlg mud and 4500' Sulphur water with show of gas.		
D.S.T. #8 -	From 7855' to 7925'. 4 hour Test. Opened tool with fair blow of air. No gas or fluid to surface. Recovered 6135' Sulphur water. No oil or gas.		
D.S.T. #9 -	From 8479' to 8590'. 1 hour & 20 min Test. Opened tool with weak blow of air for 7 minutes and died. Closed & re-opened tool with few bubbles. No fluid to surface. Recovered 19' Drlg. Mud. No shows of oil, gas or water.		
D.S.T. #10 -	From 8950' to 9105'. Opened tool - packers failed. Closed and re-opened tool - Pkrs failed. Pulled test tool.		
D.S.T. #11 -	From 8935' to 9105' - 4 hour & 20 minute Test. Opened tool with fair blow of air. Gas up in 8 min. mud up in 15 minutes and oil up in 20 minutes. Flowed 226.90 bbl in 4 hours. Gas Vol. 853 MCF per day. Gty 45.3. Bled down 28.84 bbl oil. Recovered 253' oil after circulating out.		
D.S.T. #12 -	From 9296' to 9404' - 1 hour & 40 minute Test. Opened tool with weak blow of air for 17 minutes and died. Closed & re-opened tool with weak blow for 2 minutes and died. Recovered 58' Drlg. Mud. No oil, gas or water.		