

DRILL STEM TESTS

NO.	DATE	FROM	TO	OPEN HOLE	TOOL SET @	CHOKES TOP	BOTTOM	WATER CUSHION	TIME TESTED
1	9-15-53	9170	9220	Open Hole	9170	1"	5/8"	None	2 Hours
(Wolfcamp) Used 2 packers, Nothing to surface, Recovered 1410' oil & gas cut drlg. mud, 150' mud cut oil, SFP - 0#, BHFP 750 - 900#, Closed 15min. SIP - 3090#, HH 4800# in & out.									
2	9-17-53	9310	9360	Open Hole	9310	1"	5/8"	None	2 Hours.
(Wolfcamp) Used 2 packers, Nothing to surface, Recovered 50' gas cut drlg. mud, SFP - 0#, BHFP - 80#, Closed 15 minutes SIP - 80#, HH 4900 in & 4800# out.									

DEVIATION SURVEY

DEPTH	DEGREES OFF VERTICAL	DEPTH	DEGREES OFF VERTICAL	DEPTH	DEGREES OFF VERTICAL
90	3/4	7630	1/4	10950	1
175	1/2	7770	1/2	11023	3/4
359	1/4	8160	3/4	11143	1-3/4
410	1/2	8350	1	11200	2
1300	1	8540	3/4	11335	3
1600	1/4	8770	1/2	11418	4-3/4
2140	3/4	9105	1	11445	5-1/4
2790	1/4	9380	3/4	11465	5
3285	1/2	9490	1	11485	5-1/2
3943	1/4	9580	1/4	11505	5
4340	1/2	9711	3/4	11620	3-1/2
4616	1/4	9800	1/2	11730	2-1/2
5110	3/4	9900	3/4	11794	2-3/4
5535	1	10433	1	11820	3
5755	3/4	10485	3/4	11872	3-1/2
5990	1	10522	1	11965	4-1/2
6440	1-1/2	10570	1/2	12041	5-3/4
6630	1/2	10615	3/4	12115	5-1/2
6850	1-1/2	10680	1/2	12175	5
6965	1	10760	3/4	12245	4-3/4
7150	3/4	10920	2	12360	4

ACIDIZING

12-4-53	Cardinal Chemical Acidized Perf's. 12520 - 12585 with 500 gallons mud acid, 4500 gallons 20% XLST. Time 1 hour 41 minutes, Inj. Rate 1.3 BPM, TP 2000 - 2200#, CP:Packer,
12-5-53	Cardinal Chemical Acidized Perf's. 12420 - 12472 with 500 gallons mud acid, 4500 gallons 20% XLST with 500 gallons JJ #99 Gel ahead of acid. Time 1 hour & 44 minutes, Inj. Rate 1.1 BPM, TP 3300 - 2700 - 3000#, CP:Packer.
12-6-53	Cardinal Chemical Acidized Perf's. 12329 - 12382 with 500 gallons mud acid, 4500 gallons 20% XLST with 500 gallons JJ #99 Gel ahead of acid. Time 40 minutes, Inj. Rate 3 BPM, TP 2400 - 2900 - 2700 - 3200#, CP:Packer
12-6-53	Cardinal Chemical Acidized Perf's. 12245 - 12310 with 500 gallons mud acid, 4500 gallons 20% XLST with 500 gallons JJ #99 Gel ahead of acid. Time 30 minutes, Inj. Rate 4 BPM, TP 2800 - 3350#, CP: Packer.
12-7-53	Cardinal Chemical Acidized Perf's. 12152 - 12212 with 500 gallons mud acid, 4500 gallons 20% XLST with 500 gallons JJ #99 Gel ahead of acid, Time 30 Min. Inj. Rate 4 BPM, TP 2500 - 2000 - 2200#, CP: Packer.
12-8-53	Cardinal Chemical Acidized Perf's. 12060 - 12117 with 500 gallons mud acid, 4500 gallons 20% XLST with 500 gallons JJ #99 Gel ahead of acid, Time 31 Min., Inj. Rate 3.9 BPM, TP 3800 - 2800 - 3300#, CP:Packer.

