

DRILL STEM TESTS

NO.	DATE	FROM	TO	OPEN HOLE	TOOL SET #	CHOKES		WATER CUSHION	TIME TESTED
						TOP	BOTTOM		
1	8-6-53	9295	9345	Open Hole	9295	1"	5/8"	None	2 Hours.
(Wolfcamp). Used 2 packers. Nothing to surface. Rec. 270' slightly oil & gas cut drlg. mud plus 270' heavily gas & oil cut mud plus 20' heavily gas out slightly mud cut oil plus 190' slightly gas & mud cut sulphur water. SFP: 0%. BHFP: 35 - 185#. Closed 15 min. SIP: 1920#. HH: 4385 - 4350#.									
2	8-7-53	9310	9360	Open Hole	9310	1"	5/8"	None	2 Hours.
(Wolfcamp). Used 2 packers. Nothing to surface. Rec. 630' oil & gas cut sulphur water plus 90' oil & gas cut drlg. mud w/trace sulphur water. SFP: 0%. BHFP: 60 - 275#. Closed 15 min. SIP: 475#. HH: 4495# in and out.									
3	8-18-53	10153	10207	Open Hole	10153	1"	5/8"	None	1 Hr. & 6 min.
(Penna). Used 2 packers. Nothing to surface. Rec. 90' drlg. mud plus 326' sulphur water cut drlg. mud plus 214' sulphur water. SFP: 0%. BHFP: 50 - 280#. Closed 15 min. SIP: 3855#. HH: 4990 - 4910#.									

ACIDIZING

10-13-53:	Cardinal Chemical Acidized perf's, 9311 - 9316 w/500 Gals. mud acid. Time: 36 min. Inj. Rate: .4 BPM. TP: 3000 - 4000 - 3400#. CP: Packer. Swabbed 38 BLO (All) plus 12 BAW (All) in 10 hrs. Swabbed dry in 4 hrs. No show.
10-14-53:	Cardinal Chemical Re-acidized Perf's, 9311 - 9316 w/1000 Gals. 20% LST. Time: 17 min. Inj. Rate: 1.2 BPM. TP: 3500#. CP: Packer. Swabbed 38 BLO (All) plus 24 BAW (All) in 6 hrs. Swabbed 38 BFO in 5 hrs. Fair show gas, 3000' FIM.
10-22-53:	Cardinal Chemical Acidized Perf's, 12600 - 12566 w/500 Gals. Mud Acid & 4500 Gals. 20% LST. Time: 34 Min. Inj. Rate: 3.6 BPM. TP: 1000 - 4250 - 1500#.
10-22-53:	Cardinal Chemical Acidized Perf's, 12536 - 12500 w/500 Gals. Mud Acid & 4500 Gals. 20% LST. Time: 27 min. Inj. Rate: 4.4 BPM. TP: 1000 - 3400 - 2600#.
10-22-53:	Cardinal Chemical Acidized Perf's, 12480 - 12450 ¹²⁵¹⁰ w/500 Gals. Mud Acid & 4500 Gals. 20% LST. Time: 27 min. Inj. Rate: 4.4 BPM. TP: 1000 - 2600 - 2100#.
10-22-53:	Cardinal Chemical Acidized Perf's, 12436 - 12411 w/500 Gals. Mud Acid & 4500 Gals. 20% LST. Time: 26 min. Inj. Rate: 4.7 BPM. TP: 100 - 2800 - 2400#.
10-22-53:	Cardinal Chemical Acidized Perf's, 12391 - 12376 w/500 Gals. Mud Acid & 4500 Gals. 20% LST. Time: 26 min. Inj. Rate: 4.7 BPM. TP: 1000 - 3950 - 2800#.

DEVIATION SURVEY

<u>DEPTH</u>	<u>DEGREES OFF VERTICAL</u>	<u>DEPTH</u>	<u>DEGREES OFF VERTICAL</u>	<u>DEPTH</u>	<u>DEGREES OFF VERTICAL</u>
758	1	5790	1-1/2	9340	1-1/4
1240	3/4	5870	2	9444	1-1/4
1725	1/2	5910	2-1/4	9520	1-1/2
2787	3/4	5950	1-3/4	9800	1-1/4
3700	1	6175	2	10140	1-1/2
3860	1-1/2	6785	2-1/4	10200	1-3/4
4130	1-1/4	7160	2	10390	1-1/2
4475	1	8000	1-3/4	10415	1-1/4
4600	3/4	8275	1-1/4	10515	3/4
4680	1	8400	1	10550	1
4775	1/2	8950	1-1/2	10590	1-1/4
4960	3/4	9020	1-3/4	10701	2-1/2
5280	1/2	9180	1-1/2	10800	3
5510	1	9225	1-3/4	10970	1-3/4
				11050	1-1/4
				11110	1
				11200	1-1/2
				11221	1-1/4
				11465	2
				11510	1-3/4
				11595	2
				11690	2-1/4
				11885	2-3/4
				11910	2-1/2
				11950	2-3/4
				12080	3
				12295	4-3/4

WATER TESTS

DATE	TIME	TO	FROM	TEST	RESULTS	REMARKS
1-1-52	10:00	10:15	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	10:15	10:30	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	10:30	10:45	10:00	1000	1000	Water clear, no oil, no gas, no odor.

ACTIVITY

10-15-51	10:00	10:15	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	10:15	10:30	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	10:30	10:45	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	10:45	11:00	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	11:00	11:15	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	11:15	11:30	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	11:30	11:45	10:00	1000	1000	Water clear, no oil, no gas, no odor.
10-15-51	11:45	12:00	10:00	1000	1000	Water clear, no oil, no gas, no odor.

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1-1-52	10:15	10:30	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	10:30	10:45	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	10:45	11:00	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	11:00	11:15	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	11:15	11:30	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	11:30	11:45	10:00	1000	1000	Water clear, no oil, no gas, no odor.
1-1-52	11:45	12:00	10:00	1000	1000	Water clear, no oil, no gas, no odor.