

NO.	DATE	FROM	TO	OPEN HOLE	TOOL SET @	CHOKES TOP	BOTTOM	WATER CUSHION	TIME TESTED
1	1-30-54	9825	9865	Open Hole	9825	1"	5/8"	None	1 hr. & 30 min.
Permo Penn. Used 2 packers. Gas to surface in 3 min. (17.8 MCF/day). Rec. 3000' gas & salt water cut mud, 2450' salt water. SFP: 6%. BHFP: 1970 - 2900#. Closed 15 min. SIP: 2900#. HH: 4800# in & out.									
2	1-31-54	9865	9915	Open Hole	9865	1"	5/8"	None	2 hrs. & 2 min.
Permo Penn. Used 2 packers. Gas to surface in 5 min. Mud to surface in 35 min. Cleaned to pits in 47 min. Flowed 8.27 BFO & salt water 1st. 15 min. 4.12 BFO & salt water 2nd. 15 min. 8.27 BFO & salt water 3rd. 15 min. 68 BFO & salt water 4th. 15 min. Rev. out & flowed total of 40 BFO plus 17.92 BSW 1 hr. GOR: 1478/1. SFP: 40 - 100#. BHFP: 1105 - 2050#. Closed 15 min. SIP: 2270#. HH: 4920# in & out.									
3	2-1-54	9915	9966	Open Hole	9915	1"	5/8"	None	2 hrs. & 15 min.
Permo Penn. Used 2 packers. Gas to surface in 7 min. (93.6 MCF/day). Rec. 100' oil & gas cut mud, 500' free oil, 1350' oil & gas cut mud. TC Valve would not rotate shut. Pulled packer loose. Re-set packer, TC valve still would not close. No free water, oil & gas cut mud did not taste salty. SFP: 0%. BHFP: 105 - 580#. Closed 15 min. SIP: Not recorded. No free water in oil. Gravity 41.5									
4	2-2-54	9950	10005	Open Hole	9950	1"	5/8"	None	2 hrs. & 56 min.
Permo Penn. Used 2 packers. Gas to surface in 3 min. (4.94 MCF/day). Mud & oil to surface in 44 min. Cleaned to pits 56 min. Flowed 17.89 bbls. fluid 1st. hr., 7.55 bbls. 2nd. hr. (Total 16 BFO plus 9.44 bbls. BS & water). Rev. out 57.90 bbls. fluid (46.19 BFO plus 11.71 BSW). SFP: 140#. BHFP: 440 - 1270#. Closed 15 min. SIP: 2550#. HH: 5000# in & out.									
5	2-3-54	10005	10055	Open Hole	10005	1"	5/8"	None	2 Hours
Permo Penn. Used 2 packers. Nothing to surface. Rec. 200' drlg. mud, 500' mud & slightly gas cut salt water, 4700' salt water. SFP: 0%. BHFP: 290 - 2567#. Closed 15 min. SIP: 2923#. HH: 5058# in & out.									

ACIDIZING

2-11-54	Cardinal Acidized perf's. 9962 - 9968 w/500 Gals. 15% reg. acid, 7 bbls. in formation, Time 4 1/2 hrs. Inj. Rate: .03 BPM. TP: 4500 - 5600#. No injection last 30 min. Bled off pressure. Swab 33 BLO (All) 4 hrs. Swab 8 BAW in 3 hrs. Last hr. rec. 2 bbls. (94% AW, 6% Mud, 600' FIH).
2-12-54	Cardinal Acidized perf's. 9962 - 9968 w/500 Gals. 15% mud acid. Time: 24 min. Inj. Rate: 1/2 BPM. TP: 4700 - 5000#. Final 5000#. Swab 39 BLO (All) 5 hrs. Swab 10 BAW 2 hrs. & 42 BFO 8 hrs.
2-13-54	Cardinal Acidized Perf's. 9962 - 9968 w/1000 Gals. 15% XLST Acid, Packer failed. Reversed out acid.
2-14-53	Cardinal Acidized Perf's. 9962 - 9968 w/1000 Gals. 15% XLST Acid. Time: 26 min. Inj. Rate: .9 BPM. TP: Vacuum - 900#. Swab 39 BLO (All) 9 hrs. Swab 103 BFO 7 hrs. Flowed 22 BFO 4 hrs. thru 16/64" choke. TP: 150 - 300#. S/O .5% to 1% AW.

DEVIATION SURVEY

DEPTH	DEGREES OFF VERTICAL	DEPTH	DEGREES OFF VERTICAL	DEPTH	DEGREES OFF VERTICAL
500	1/2	4450	1/2	7305	3/4
1450	1/4	4800	3/4	7600	1/2
1500	3/4	5100	1	7730	1
2000	1/4	5235	1-3/4	8030	1-1/4
2450	1	5290	1-1/2	8240	1
2590	3/4	5460	1-3/4	8440	1-1/4
3000	1-1/4	5570	1-1/2	8565	1-1/2
3440	1-1/2	5680	1-3/4	8710	2
3750	1	5890	1-1/2	8965	2-1/2
3880	3/4	6045	1-1/4	8990	2
4000	1	6145	1-1/2	9038	1-3/4
4060	3/4	6260	1-1/4	9360	1-1/2
4150	1-1/4	6545	1	9480	1
4210	1-1/2	6640	3/4	10050	1/2
4330	1	6735	1		

