

DRILL STEM TESTS

NO.	DATE	FROM	TO	OPEN HOLE	TOOL SET #	CHOKES		WATER CUSHION	TIME TESTED
						TOP	BOTTOM		
1	9-16-53	9160	9210	Open Hole	9160	1"	5/8"	None	2 1/2 Hours.
(Wolfcamp). Used 2 packers. Gas to surface in 7 min. Too small to measure. Rec. 8900' free oil, SFP: 0#, BHFP: 285 - 2060#. Closed 15 min. SIP: 2775#. HH: 4410 - 4270#.									
2	9-18-53	9300	9350	Open Hole	9300	1"	5/8"	None	1 Hour.
(Wolfcamp). Used 2 packers. Nothing to surface. Rec. 5' drlg. mud. SFP: 0#. BHFP: 0#. Closed 15 min. SIP: 0#. HH: 4183 - 4160#.									

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>
450	1/4	5185	1/2	7025	1/2
1000	1/2	5250	1/4	7180	1/4
1850	3/4	5632	1	8100	1/2
2200	1/4	5800	3/4	8220	3/4
2940	3/4	5900	1	8323	1
3200	1/2	6100	3/4	8833	1/2
3400	3/4	6225	1	9060	3/4
3650	1/4	6330	1/2	9275	1/2
4181	3/4	6950	3/4	9325	3/4
4745	1/4				

ACIDIZING

- 9-25-53 Cardinal Chemical Acidized perms. 9183 - 9215 w/1000 Gals. Mud Acid. Time: 28 min. Inj. Rate: .9 BPM. TP: 2300 - 2000#. Swabbed 38 BLO plus 24 BAW 5 hrs. 22 BFO in 2 hrs. Good show gas, 4000' FIH.
- 9-25-53 Cardinal Chemical Re-acidized perms. 9183 - 9215 w/2000 Gals. 20% LST. Time: 34 min. Inj. Rate: 1.4 BPM. TP: 1650 - 2500#. Swabbed 38 BLO plus 10 BAW 3 hrs. 12 BFO plus 10 BAW 2 hrs. Fair show gas, 6000' FIH.
- 9-26-53 Cardinal Chemical Re-acidized perms. 9183 - 9215 w/4000 Gals. 20% LST. Time: 47 min. Inj. Rate: 2 BPM. TP: 1700 - 2400 - 2200#. CP: Packer. Swabbed 38 BLO 2 hrs. 48 BFO plus 96 BAW 10 hrs. Flowed 40 BFO, no water 3 hrs. 48/64" choke.

WATER TESTS

NO.	DATE	TIME	TO	OPER	WELL	DEPTH	WATER	TESTED
1	9-18-52	9:30	9:10	Open Hole	9180	10	None	28 hours.
(Note: Used 2 packers. Gas to surface in 7 min. Too small to measure. Rec. 8:00. Free oil. 28 hrs. 9:10 - 9:30. Rec. 8:00. Free oil. 28 hrs. 9:10 - 9:30.)								
2	9-18-52	9:30	9:30	Open Hole	9300	10	None	1 hour.
(Note: Used 2 packers. Nothing to surface. Rec. 9:15. 28 hrs. 9:30 - 9:45. Rec. 9:15. 28 hrs. 9:30 - 9:45.)								

INFLATION SURVEY

DEPTH	INFLATION SURVEY	DEPTH	INFLATION SURVEY	DEPTH	INFLATION SURVEY
9180	1/8"	9182	1/8"	9182	1/8"
9200	1/8"	9250	1/8"	9250	1/8"
9250	1/8"	9282	1/8"	9282	1/8"
9300	1/8"	9300	1/8"	9300	1/8"
9350	1/8"	9350	1/8"	9350	1/8"
9400	1/8"	9400	1/8"	9400	1/8"
9450	1/8"	9450	1/8"	9450	1/8"
9500	1/8"	9500	1/8"	9500	1/8"
9550	1/8"	9550	1/8"	9550	1/8"
9600	1/8"	9600	1/8"	9600	1/8"
9650	1/8"	9650	1/8"	9650	1/8"
9700	1/8"	9700	1/8"	9700	1/8"
9750	1/8"	9750	1/8"	9750	1/8"
9800	1/8"	9800	1/8"	9800	1/8"
9850	1/8"	9850	1/8"	9850	1/8"
9900	1/8"	9900	1/8"	9900	1/8"
9950	1/8"	9950	1/8"	9950	1/8"
10000	1/8"	10000	1/8"	10000	1/8"
10050	1/8"	10050	1/8"	10050	1/8"

REMARKS

9-22-52 Cardinal Chemical Acidized ports. 9182 - 9212 w/1000 Gal. HCl Acid. Time: 28 hrs. Inj. Rate: 2 RPM. TP: 2300 - 2000. Swapped 38 BHO line to BAW 2 hrs. 22 BHO in 2 hrs. Good show gas, 4000' F.H.

9-22-52 Cardinal Chemical Re-acidized ports. 9182 - 9212 w/1000 Gal. HCl Acid. Time: 30 mins. Inj. Rate: 1.5 RPM. TP: 1850 - 2500. Swapped 38 BHO line to BAW 3 hrs. 15 BHO gas in 2 hrs. Fair show gas, 6000' F.H.

9-28-52 Cardinal Chemical re-acidized ports. 9182 - 9212 w/1000 Gal. HCl Acid. Time: 14 min. Inj. Rate: 2 RPM. TP: 1700 - 2800. CP: Packer. Swapped 38 BHO 2 hrs. 18 BHO gas in 2 hrs. Flowed to BHO, no water 3 hrs. 18/28' choke.