

Perforations

<u>From</u>	<u>To</u>	<u>SPF</u>	<u>Formation</u>
7222'	7224'	2	Abo
7210'	7212'	2	"
7197'	7199'	2	"
7193'	7195'	2	"
7183'	7185'	2	"
7163'	7165'	2	"
7145'	7147'	2	"
7108'	7110'	2	"
7103'	7108'	2	"
7088'	7090'	2	"
7077'	7079'	2	"
7064'	7066'	2	"
7059'	7061'	2	"
5175'	5180'	2	Glorietta

Acidizing

10-3-60 Cardinal acidized Abo perfs w/500 gals, TM-8, Non-Emulsion acid, break down CP 3800#, treat press. 3800-3700#, rate .6 BPM. Immediate SICP 3600#. SI 5 mins. CP 2200#. SI 2-1/2 hrs. CP-Vac. Swab 43 BLO + 12 BAW in 4-1/2 hrs.

Cardinal acidized Paddock perfs 5156' to 5221' w/500 gals, TM-8, Non-Emulsion acid. Break down CP 2100#. Treat pressure 2100#. Rate 3.6 BPM. Immediate SICP 1700#. 5 min. SICP 500#. SI 18 hrs. CP 0#. Swab 35 BLO + 7 BNP + 12 BAW + 4 BSW in 12 hrs.

10-10-60 Cardinal acidized Abo perfs. 7059' to 7224' w/5000 gals R-15 Retarded acid, 40 ball sealers cont. Break down CP 4200#, CP 4200-5300#, rate 12.5 BPM. ISICP 3000#. 5 min SICP 2800#. SI 14 hrs CP 50#. Swab & flow 45 BLO + 41 BNO + 102 BAW in 20 hrs.

Cardinal acid Paddock perfs 5154' to 5221' w/2000 gals TM-12, Non-Emulsion acid w/12 ball sealers in cont. stages. Break down CP 3500#. CP 3600#-3600#. Rate 10.7 BPM. ISICP 1500#. 10 min CP-Vac. Swab 32 BLO + 24 BNO + 48 BAW in 17 hrs.

10-14-60 Cardinal acidized Paddock perfs 5175'-5180' w/500 gals 15% Non-Emulsion acid. Break down CP 3100#. Treat press 1600-1700#. Rate 1 BPM. ISICP 1500#. SI 5 min CP 600#. Swab 30 BLO + 17 BNO + 12 BAW + 102 BSW in 15-1/2 hrs.

Potential Tests

On potential test Abo perfs 7059' to 7224' flowed 81 BNO + 0 BSW in 24 hrs, 14/64" choke. GOR 1253. Gty 41.5 @ 60°.

On potential test Paddock perfs 5155'-5180' pumped 30 BNO + 44 BSW in 24 hrs, 13-54" SPM. GOR 233. Gty 30.6°.

Deviation Survey

<u>Depth</u>	<u>Degree Off Vertical</u>	<u>Depth</u>	<u>Degree Off Vertical</u>
352'	1-3/4°	2902'	0°
1777'	2°	3061'	1-1/4°
2654'	1-1/4°	3940'	3/4°
2875'	1°	4300'	2-1/4°

