



OIL DIVISION

ONE MARIENFELD PLACE-SUITE 405
MIDLAND, TEXAS 79701

DRILLING COMPLETION HISTORY

PROSPECT: Chambers NO: 07-009-01

WELL NAME AND NUMBER: Aaron State #1

FIELD: Townsend

LOCATION: 1980' FSL, 1980' FEL, Sec. 5, T-15-S, R-35-E

COUNTY: Lea STATE: New Mexico

ELEVATION: GL 3951' DRILLING CONTRACTOR: Landis Drilling Co. PROPOSED TD: 10,800'
Rig #2

DATE	DEPTH	OPERATIONS																					
8/10/84		<p>Drilling @ 10,420', progress 39' in 4 hrs drilling. MW 8.6, Vis 36, Ph 10.4, WL 11.4, WOB 55,000#, 56 RPM. Deviation of 1° @ 10,381'. Results of DST #1 as follows from 10,366'-10,381' in Wolfcamp: 15 minute preflow-bottom of bucket in 45 seconds increasing to 5#. 60 minute final flow-bottom of bucket in 45 seconds increasing to 11½#. 3 minutes after shut-in had 6 to 7' flare decreasing to 1' at end of 2 hr shut-in.</p> <p>Reversed out with 4240' of pipe in hole, 2500' of total fluid, top 50% was foamy mixture of water & gas with trace of oil, bottom 50% was water with resistivity of .06-.07 and chlorides of 120,000 140,000 ppm. Sample chamber @ 230# had 400 cc's of oil, 1600 cc's of water, .4 ft.³ gas, water resistivity of .06 at 72°F and 140,000 ppm chlorides, oil 40° API.</p> <p>Field reading of charts:</p> <table><thead><tr><th></th><th>TOP</th><th>BOTTOM</th></tr></thead><tbody><tr><td>IH</td><td>4752</td><td>4808</td></tr><tr><td>FH</td><td>4701</td><td>4692</td></tr><tr><td>IF</td><td>227-277</td><td>140-163</td></tr><tr><td>ISI</td><td>202-302</td><td>279-302</td></tr><tr><td>FF</td><td>2840</td><td>2780</td></tr><tr><td>FSI</td><td>2666</td><td>2617</td></tr></tbody></table>		TOP	BOTTOM	IH	4752	4808	FH	4701	4692	IF	227-277	140-163	ISI	202-302	279-302	FF	2840	2780	FSI	2666	2617
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8/11/84		Drilling @ 10,663', progress 243' in lime.																					
8/12/84		Progress 77', depth 10,740', prep to run DST #2.																					
8/13/84		<p>Progress 60', POOH to run logs, depth 10,800'. Results of DST #2 from 10,584'-10,740' in Townsend (Wolfcamp):</p> <p>10 minute preflow-bottom of bucket in 1 minute-increasing to 70#. Gas to surface 3 minutes after shut-in. 60 minutes initial shut-in. 120 minutes final flow-strong initial blow increasing to 150# in 85 minutes, then mud to surface followed by oil and gas on 1/2" choke in 89 minutes, pressure increasing to 310# @ 105 minutes 285# @ 120 minutes. 3 hrs final shut-in.</p> <p>Flowed a total of 23 BO in 31 minutes, reversed out 17 BO with gas pockets, no water. Sample chamber: 1200#, 1200 cc's of oil, 8.7 ft.³ of gas, 38.3° API oil gravity, BHT-204°F.</p> <p>Field reading of charts:</p> <table><thead><tr><th></th><th>TOP</th><th>BOTTOM</th></tr></thead><tbody><tr><td>IH</td><td>4954</td><td>4528</td></tr><tr><td>FH</td><td>4954</td><td>4528</td></tr><tr><td>IF</td><td>580-706</td><td>512-634</td></tr><tr><td>ISI</td><td>2103</td><td>1935</td></tr><tr><td>FF</td><td>580-1620</td><td>537-1459</td></tr><tr><td>FSI</td><td>2052</td><td>1890</td></tr></tbody></table>		TOP	BOTTOM	IH	4954	4528	FH	4954	4528	IF	580-706	512-634	ISI	2103	1935	FF	580-1620	537-1459	FSI	2052	1890
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