

DRILL STEM TESTS

Date	Packer	Depth	Hole Size	Casing Seat	Size Choke		Tool		Formation	Tested To	Results
					Top	Bottom	Open Min	From			
11-3-49	Howco	5078	6-3/4	2928.50	1	5/8	82	5078	5155	Rec 360' oil & gas cut mud	
11-13-49	Howco	6350	6-3/4	2928.50	1	5/8	167	6350	6450	Flowed 1 bbl per hour	
11-14-49	Howco	6450	6-3/4	2928.50	1	5/8	102	6450	6485	Rec 350' oil cut mud	
12-5-49	Howco	8110	6-3/4	2928.50	1	5/8	36	8110	8155	No show oil or gas	
12-6-49	Howco	8167	6-3/4	2928.50	1	5/8	45	8167	8190	3690' Salt water	
12-9-49	Howco	7197	6-3/4	2928.50	1	5/8	105	7197	7254	Rec 500' heavy gas and slightly oil cut mud	
12-9-49	Howco	7085	6-3/4	2928.50	1	5/8	91	7085	7254	Rec 100' slightly gas cut mud	
12-10-49	Howco	7083	6-3/4	2928.50	1	5/8	180	7083	7254	Rec 450' heavy gas cut mud and slightly oil cut mud	

After unsuccessful attempts to complete in Ellenburger at 8190 the well was plugged back and tested in upper sections. Mixed and spotted with 45 sacks of cement from 8190 to 7990. Mixed and spotted 55 sacks from 7450 to 7225. Drilled cement to 7254. Perforated 5 1/2" casing from 7200 to 7215 and from 7222 to 7240 with 4 shots per ft, treated with 1000 gallons of 15% Chemical Process Low Tension acid. Well tested 2 bbls fluid per hour 80% water. Set Baker Cement Retainer at 7190 and squeezed perforations from 7200 to 7240 with 25 sacks. Recemented through retainer at 7190 with 25 sacks of cement. Set Baker Bridging Plug at 7190. Perforated 5 1/2" casing with 4 shots per ft from 7150 to 7180, treated with 1000 gallons Chemical Process Acid. Well tested 10 bbls fluid per hour 90% water. Mixed and spotted 25 sacks cement from 7190 to 6990, 30 sacks from 6650 to 6488. Perforated 5 1/2" casing from 6410 to 6440 with 120 shots, 4 shots per ft, treated with 1000 gallons Chemical Process 15% Low Tension Acid from 6410 to 6440. Swabbed well in and completed potential test on 12-27-49.

