

LOGS OF DRILL STEM TESTS

- 7-30-48 5408' TD, Ran Drill Stem Tests w/ packer set @ 5376', Perforations: 5377' - 5406', 5/8" bottom & 1" top chokes. Tool open 1:30PM with small bubbles of air throughout 4 hr. test. Tool closed 5:50PM for 15 min. build up. Recovered 510' sulphur water. Howco: hydro in & out 2400#, initial flow 80#; final flow-200#; 15 min. build up pressure - 1300#. Amerada Bomb: hydro in 2515#, out-2475#; initial flow 0#; final flow 225#.
- 8-2-48 5650' TD, Ran Drill Stem Test w/ packer set @ 5620', Perforations: 5621'-47', 5/8" bottom & 1" top chokes. Tool open 1:30PM with few air bubbles for 10 min. Tool closed 2:45PM for 15 min build up. Recovered 4' clean mud. No pressures as tool closed during test. Will retest.
- 8-3-48 5650' TD, Ran Drill Stem Test w/ packer set @ 5622', Perforations: 5623' - 5648', 5/8" bottom and 1" top chokes. Tool open 10:25PM w/ fair blow air for 4 hours. Tool closed 2:25AM for 15 min. build up. Recovered 540' of sulphur water. Howco: hydro 2550#; flow 0#-200#; build up pressure - 1300#. Amerada Bomb: hydro in 2640#, out-2600#, flow 0#-205#, build up 1435#.
- 8-5-48 5770' TD, Ran Drill Stem Test w/ packer set @ 5742', Perforations: 5743'-67', 5/8" bottom and 1" top chokes. Tool open 8:40AM with slight blow air throughout 4 hour test. Tool closed 12:40PM for 15 min. build up. Recovered 60' mud cut 1/2 of 1% oil. Howco: hydro in 2775#, out 2700#, flow 0#; build up 0#. Amerada Bomb: hydro in & out 2840#; flow 30#-40#; build up 80#.
- 8-7-48 5895' TD, Ran Drill Stem Test w/ packer set @ 5859', Perforations: 5860'-92', 5/8" bottom & 1" top chokes. Tool open 9:15PM with good blow air that gradually decreased and died 9:50PM. Tool closed 10:50PM at end 1 hr. & 35 min. test. Did not wait for build up. Recovered 5130' sulphur water. Howco: hydro in 2850#, out-2825#; flow 800-8400#. Amerada Bomb: hydro in 2800#, out-2790#; flow 810#-8370#.
- 8-27-48 7232' TD, Ran Drill Stem Test w/ packer set @ 7157', Perf. 7215'-7230', 5/8" bottom and 1" top chokes. Tool on bottom at 4:45PM and tried to open to 6:00PM. Pumped 2010' water into Drill pipe and blow air started 6:05PM with good blow to 7:15PM. Tool closed 8:15PM for 15 min. build up at end 2 hr 10 min. test. Recovered 2010' clean fresh water. Charts showed tool open. Howco: hydro 3325#, flow 0#, Build up press. 0#. Amerada Bomb: hydro in 3555#, out 3345#; flow 0#, Build up 0#. Howco flow with water 800# and Amerada flow with water 925#.
- Got new tool and took Drill Stem Test at same TD of 7232', packer set @ 7160' with Perforations: 7161'-62' and 7217'-30', 5/8" bottom and 1" top chokes. Tool open 3:40AM with weak blow air that died in 15 min. Tool closed at 4:55AM for 15 min. Build up at end 1 hr. 15 min. test. Recovered 20' mud. No oil, gas or water. Howco: hydro 3500#, flow 0#, build up 0#.
- 9-9-48 7785' TD, Ran Drill Stem Tests with packer set @ 7766', Perforations: 7768'-82', 5/8" bottom and 1" top chokes. Tool open 5:50PM with very weak blow air to 8PM. Tool closed 9PM for 15 min. build up at end 3 hr. 10 min test. Recovered 28' slightly oil and gas cut mud. Howco: hydro 3700#; flow 0#; build up none. Amerada: hydro in 3785#, out 3690#, flow 40#; build up 40#.
- 9-14-48 8030' TD, Ran Drill Stem Test w/ packer set @ 8004', Perforations: 8005'-8027', 5/8" bottom and 1" top chokes. Tool open 3:12AM with good blow air immediately that decreased to light blow at 6AM. Tool closed 7:12AM. Recovered 270' gas cut mud and 1440' sulphur water w/ show of gas. Howco: hydro 3550#; flow 700#; 15 min. build up 2925#.
- 9-16-48 8112' TD, Ran Drill Stem Tests w/ packer @ 8084', Perforations: 8085'-8109', 5/8" bottom and 1" top chokes. Tool open 10:20AM with fair blow air immediately for 1 1/2 hrs. Tool closed 12:35AM at end 2-1/4 hr test. Recovered 60' mud, 90' sulphur water and mud, 1 pint oil. Howco: hydro 3900#, flow 0#, 15 min build up 0#.

2000 OF BRILL TESTS

7-2-48	2408	TD, Ran Drill Stem Test w/ packer set @ 2340', Perforations: 2377' - 2408', 5/8" bottom and 1" top chokes. Tool open 1:50PM with small bubbles of air throughout & hr. test. Tool closed 2:50PM for 15 min. build up. Recovered 210' sulphur water. Howco: Hydro in & out - 2400', Initial flow 80%; final flow - 200%; 15 min. build up press. - 0%. Amerada Bomb: Hydro in 2325'; out - 2425'; Initial flow 0%; final flow 225%.
8-2-48	2550	TD, Ran Drill Stem Test w/ packer set @ 2580', Perforations: 2621' - 2580', 5/8" bottom and 1" top chokes. Tool open 1:30PM with few air bubbles for 10 min. Tool closed 2:45PM for 15 min. build up. Recovered 4' clean mud. No pressure as tool closed during test. Will retest.
8-3-48	2550	TD, Ran Drill Stem Test w/ packer set @ 2522', Perforations: 2623' - 2548', 5/8" bottom and 1" top chokes. Tool open 10:25PM w/ fair flow air for 4 hours. Tool closed 2:25AM for 15 min. build up. Recovered 240' of sulphur water. Howco: Hydro 2550%; flow - 0% - 200%; build up pressure - 1300%. Amerada Bomb: Hydro in 2640', out - 2600%; flow 0% - 200%; build up 1425%.
8-3-48	2700	TD, Ran Drill Stem Test w/ packer set @ 2742', Perforations: 2743' - 271', 5/8" bottom and 1" top chokes. Tool open 8:40AM with slight flow air throughout & hour test. Tool closed 12:40PM for 15 min. build up. Recovered 50' mud and 1 1/2 of oil. Howco: Hydro in 2715'; out 2700%; flow 0%; build up 0%. Amerada Bomb: Hydro in & out 2840'; flow 30% - 40%; build up 30%.
8-3-48	2822	TD, Ran Drill Stem Test w/ packer set @ 2822', Perforations: 2820' - 281', 5/8" bottom and 1" top chokes. Tool open 9:15PM with good flow air that gradually decreased and died 9:50PM. Tool closed 10:20PM at end 1 hr. & 32 min. test. Mud not set for build up. Recovered 2730' sulphur water. Howco: Hydro in 2820'; out - 2825%; flow 800 - 2400%. Amerada Bomb: Hydro in 2800%; out - 2700%; flow 810% - 2370%.
8-27-48	7232	TD, Ran Drill Stem Test w/ packer set @ 7227', Perforations: 7230' - 7201', 5/8" bottom and 1" top chokes. Tool open at 1:45PM and tried to open to 6:00PM. Pumped 2010' water into Drill pipe and flow air started 6:05PM with good flow to 7:15PM. Tool closed 8:15PM for 15 min. build up at end 2 hr 10 min. test. Recovered 2010' clean fresh water. Choke showed tool open. Howco: Hydro 3325%; flow 0%. Build up press. 0%. Amerada Bomb: Hydro in 3225'; out 3345%; flow 0%. Build up 0%. Howco flow with water 300% and Amerada flow with water 925%.
8-27-48	7232	Got new tool and took Drill Stem Test at same TD of 7232'. Packer set @ 7160' with Perforations: 7201' - 721', and 7217' - 7201', 5/8" bottom and 1" top chokes. Tool open 3:40AM with weak flow air that died in 15 min. Tool closed at 4:55AM for 15 min. Build up at end 1 hr. 15 min. test. Recovered 20' mud. No oil, gas or water. Howco: Hydro 3500%; flow 0%; build up 0%.
8-2-48	7752	TD, Ran Drill Stem Test with packer set @ 7752', Perforations: 7758' - 7752', 5/8" bottom and 1" top chokes. Tool open 2:50PM with very weak flow air to 8AM. Tool closed 9PM for 15 min. build up at end 3 hr. 10 min test. Recovered 28' slightly oil and gas out mud. Howco: Hydro 3700%; flow 0%; build up none. Amerada: Hydro in 3785'; out 3635'; flow 40%; build up 40%.
9-14-48	8030	TD, Ran Drill Stem Test w/ packer set @ 8008', Perforations: 8005' - 8027', 5/8" bottom and 1" top chokes. Tool open 11:51AM with good flow of air immediately that decreased to light flow at 6AM. Tool closed 7:12AM. Recovered 270' gas and mud and 1400' sulphur water w/ show of gas. Howco: Hydro 3250%; flow 700%; 15 min. build up 2925%.
9-14-48	8112	TD, Ran Drill Stem Test w/ packer set @ 8082', Perforations: 8109' - 8102', 5/8" bottom and 1" top chokes. Tool open 10:00AM - fair flow air immediately for 1 1/2 hrs. Tool closed 12:25AM at end 2-1/2 hr test. Recovered 60' mud, 90' sulphur water and mud, 1 part oil. Howco: Hydro 3600%; flow 0%; 15 min build up 0%.