

# Record of Drill Stem Tests

- 8-1,2-48 6444' TD. Ran Drill Stem Test with Packer set @ 6316'. Perf.-6317'-18' & 6405'-41', 5/8" bottom and 1" top chokes. Tool open 9:12PM with gas to surface in 7 mins. at rate of 87M for first 1-1/2 hours & then too weak to measure for 1/2 hr. Gas increased to 50M for rest of 4hr and 3min. test. Tool closed @ 1:15AM for 15 min. build up. Mud started flowing to pits @ 1:20AM and tool re-opened @ 1:30AM with oil to surface right away. First hr. .69bbbls, next 2hrs. 0.00 and last hour 2.76bbbls, 2/10% BSM, gty. 37.4 corr., gas 43M. Tool closed at 5:15AM for 15 min build up at end of 3hr. 45 min second test. Rec.- 1555' clean oil, gty. 38.8, 179' heavily cut oil and gas cut mud, 60' mud, no water, Howco: hydro 3200#, flow 250#-775#; 15 min build up 1975#.
- 8-2,3-48 6470' TD Ran Drill Stem Test with Packer set @ 6447', Perf. 6448'-67', 5/8" bottom and 1" top chokes. Tool open 10:15PM with mild blow air. Gas to surface in 3 hrs. at estimated rate of less than 5M per day. Tool closed 3:15AM for 15 min. build up at end 5 hr. test. Rec.- 205' heavily oil & gas out mud, no free oil, no water. Howco: hydro 3300#, flow 200#; build up press.- 600#. Amerada Bomb: hydro in 3185#, out 3160#; flow 0# to 8#; build up 580#.
- 8-3-48 6495' TD Ran Drill Stem Test with Packer set @ 6469'. Perf. 6470'-71' & 6473'-92', 5/8" bottom and 1" top chokes. Tool open 6:25PM w/ light blow air throughout 4 hr. test. Tool closed 10:25PM for 15 min. build up. Rec.- 180' mud, 90' mud cut w/ salt water and 520' salt water. Hydro 3300#, flow 200#-450#; build up 2200#. Amerada Bomb: hydro 3230#; flow 218#-440#; build up 2165#. Water tested: 82,400ppm Chlorides, no sulphides, slight trace of iron.
- 8-13-48 7173' TD Ran Drill Stem Test with Packer set @ 7039'. Perf.-7040'-41' & 7156'-70', 5/8" bottom and 1" top chokes. Tool open 4:30PM with mild blow air that decreased and quit in 3 1/2 hrs. Tool closed at 8:30PM for 15 min. build up at end 4hr. test. Recovered: 30' mud, Howco: hydro 3500#, flow 0#, build up 0#. Amerada Bomb: hydro 3905#; flow 40#, build up none.
- 8-29-48 8025' TD Ran Drill Stem Test with Packer set @ 7933'. Perf.-7934'-35' & 7990'-8022', 5/8" bottom and 1" top chokes. Tool open 6:15AM with mild blow air throughout 4hr. test and no gas to surface. Tool closed 10:15AM for 15 min. build up. Recovered: 45' mud very slightly oil & gas out. Howco: hydro 4100#, flow 0#, build up press. 0#. Amerada Bomb: hydro in 4020#, out 3995#, flow 0#, build up 20#.

## SLOPE TESTS

150'	1/2 degree	5691'	1 degree
375'	straight	5931'	1 degree
700'	1/2 degree	6469'	2-1/4 degrees
925'	1/2 degree	6628'	2-1/4 degrees
1170'	straight	6689'	2 degrees
1373'	straight	6778'	1-1/4 degrees
1565'	1/2 degree	6928'	2-3/4 degrees
1914'	straight	6982'	2-1/2 degrees
2076'	straight	7019'	3 degrees
2251'	1 degree	7050'	2-3/4 degrees
2460'	1-1/4 degrees	7095'	3 degrees
2628'	1-1/4 degrees	7145'	3 degrees
2990'	3/4 degrees	7220'	2-3/4 degrees
3261'	1/2 degree	7254'	2-3/4 degrees
3380'	1/4 degrees	7343'	2-3/4 degrees
3678'	1 degree	7412'	2 degrees
3768'	1 degree	7468'	2 degrees
3888'	3/4 degrees	7520'	1-3/4 degrees
4130'	1 degree	7655'	2-1/4 degrees
4402'	1 degree	7750'	2-3/4 degrees
4882'	1-3/4 degrees	7780'	3 degrees
4970'	1-3/4 degrees	7822'	2-3/4 degrees
5029'	1-1/4 degree	7845'	2-1/2 degrees
5149'	1-1/4 degrees	7885'	2-3/4 degrees
5297'	1 degree	7925'	2-1/4 degrees
5448'	1 degree	7985'	2-1/4 degrees

