RECORD OF DRILL STEM TESTS

- 10-21-48 5163: TD, Ran Drill Stem Test w/ Packer 8 5137', Perforations: 5138'-5160', 5/8" bottom & 1" top chokes. Tool open 9:20PM with strong blow gas in 2 mins, mud in 1 hr. and cil in 1 hr. 5 mins. Turned to tanks e 10:45PM. Well flowing by heads and made 0.00 first \(\frac{1}{2} \) hr. and 2.76bbls. cil in next \(\frac{1}{2} \) hr. Made no more fluid. Gty.-35.1 corrected. One during first hour 125,730 cu.ft. per day, COR-949. Gas gradually decreased and at end of test was 42,960 per day. Tool closed 8 3:20AM at end 6 hr test. Recovered 1170' of clean oil and 1170' of salt water. Top was 69,600ppm Chleride mlight trace iron. Bottom was 80,200 ppm Chlorides. Hydro 2325#, flow-500-700#, 15 min build up 900#.
- 11-3-48
 6438' TD, Rah Drill Stem Test w/ Packer & 6395', Perforation; 6396'-97' & 6427'-35', 5/8" bettem and 1" top shokes. Tool open 8:40PM with gas in 2 mins, mud in 10 and sil in 16 mins. Turned to tanks at 9PM.

 1st. hr 17.94bbls oil, 2/165 \$ mad; 2nd. hr. 15.18; 3rd. hr. 12.42; 4th hr. 15.18 & 5th hr. 15.18bbls. Total in 5 hrs 75.90bbls. oil = Total for 24 hours 364.32bbls. Gas 1,156,000 cu.ft. per day, GOR-3173, Gty. 40.3 corrected. Tool closed ZAM at end 5 hr. 20 min test. Recovered 700' clean oil, no water. Hydro 3100\$; flow 900-800\$; 30 min build up 2000\$.
- 11-4-48
 6453' TD, Ran Drill Stem Test w/ Packer 8 6406', Perforations: 6407'-08',
 6438'-50', 5/8" bottom and 1" tep chokes. Tool open 5:40PM w/ gas in
 6 min., mud in 3hrs 50 min and oil in 4 hrs. Turned to tanks 10PM
 and in 4 hrs made 4.83bbls eil, 2.76, 2.76 and 2.76 for a total of
 13.11 bbls oil for 24 hrs would be 78.66bbls, gas 153M, GCR 1977,
 Gty 38.4 corrected. Tool slosed 24M at end 8 hr 20 min test. Recovered
 870' oil 90' mud cut oil and 30' 5 mud, no water. Hydro 3200#, flow
 200-400#; 15 min build up 2350#.
- 7332' TD, Ran Drill Stem Test w/ Packer 2 7284', Perforations: 7285'-86', 7316'-29', 5/8" bottom and 1" top choke. Opened tools ? 4AM, Gas to top in 6 mins., cil and med in 20 mins, turned to tanks 8 4:20AM, first hour 41.40bbls, 2nd hr 38.64bbls, 3rd. hr 36.48bbls, 4th hr 40.71, total of 157.23bbls. Vol.-353,800 per day 8CR 374 tool opened 5 hours, made 22.68bbls in 45 mins. while trying to close tool, pulled packer loose while trying to close tool w/o getting build up press. recovered 5400' of elean cil, 5' cil cut mud & sand & est, of 10 bbls flowed to pits, Hydro 3650%, flow 1875-3600%, no build up.
- 7361: TD, Ran Drill Stem Test w/ Packer @ 7331: Perforations: 7333:-58:, 5/8" bottom and 1" top choke, opened tool @ 3:38AH, Gas in 4 mins, oil in 37 mins, turned to tanks @ 4:15AH, lst hr 35.88bbls, 2nd hw. 38.64bbls, 3rd. hr 28.98bbls, 4th hr. 27.60bbls. Total of 130.80bbls. Gas Vol.-210,200 per day, GOE 268, Gty. 38.3 corr. Closed tool @ 8:15AH, tried to open sirculating head, recovered 4590' clean oil, 5' mus & sand Hydro 3700#, flow press. 2590-1500#, 15 mins. build up pressure 2275#.
- 11-17-48 7390' TD, Ran Drill Stem Tests & tried to set Packer @ 7356' for \$ hr, pulled out & recovered 13 stands of mud, Re-ran DST w/ packer set @ 7356'-7363', Perf. 7364'-87', 5/8" bottom & 1" top chokes, tool opened 1 hr 35 mins, had mild blow air for 35 mins, Recovered 120' gas out mud, Hydro 3600f, Flow 100f, 15 min build up 1950f, Amerada Bomb: hydro in 3650f, out-3665f, flow 85f, 15 min build up-1955f.
- 11-18-48 7420° TD, Ran Drill Stem Test w/ Packer @ 7385°-7377°, Perf. 7386°-7416°, 5/8° bottom and 1° tep else, opened tool @ 11:02PM, Light blow of air for 4 hoursplosed teel @ 3:02AM, rec.-180° p mud and 990° salt water, Howco Chart: Hydro in 3675%, out 3625%, min flow 85%, Hax 525%, 15 min build up 2300%, Amerada Chart: Hydro in 3760%, out 3860%, Min. flow 0%, Max. 410%, 15 min build up 2305%.

STORY DEED BUILD BY CHOOSE

- 10-11-43 91691 15, man Srill Sum Yort of Packer > Sig71, reriousuionni Sig31-5501, 502 per Sig71 per Sig71
 - 11-1-46 6438 10, man Drill Step Tost of Packer & 63951, Perfored and 65961-971 & 64271-351, 5/38 bottom and is top a sale. Tool open 8:40PM with 8am in 2 mins, and in 10 and oil in 16 wins. Turned to tanks at 98%. Ist. in 17.94pole oil, 2/10\$ \$ and; 2nd. hr. 15.18: 3rd. hu. li.ld; Lun mr. 15.18 & 5th hr. 15.18bbio. Total in 5 hre 75.9 bbis. oil 60 al for 24 hours 364.32032. One 1,156,000 ci.ft. par days 60%-3173, Gry. 40.3 correspect. You closed 24H at end 5 hr. 20 min text. Recommend 7001 closed 24H at end 5 hr. 20 min text. min build up 30008.
- 13-1-40 60531 73, usa Brill Stan Fest of Racker I 54061, Decided Const 64071-281, 54381-301, 5/80 between And in the chokes. Tool open Signific is an analysis of bins, and is fine 50 aim and of is her. Termed to tends 1078 and in the meno h. 35bale cil. 1.76 and 2.76 for a tends 1078 11.11 bols oil for at hes would as 78.66bble, gas 153%, UCT 1379, 68, 38, 38, acreeced. Tool clussed 28% at and 8 hr 20 min test. Recovered 8701 oil 901 and out il and 301 0 and, so weter. Byder 32008, flow 200-4108; 15 min build an 23508.
 - Li-Li-R 75/21 TD, was drill Steds Tust w/ Facker 1721, Perforations: 7827-861, 73161-251, 5/8 bottom and in top choks. Spaced tools 482, iss to top in 6 mins. oil and mad in 20 mins, turned to tamis 3 4.2018, first from 41.400bls, 2nd hr 98.545bls, ind. hr 36.48bls, with in 40.71, total of 157.23bbls. Vol.-353,800 per day 80% 374 tool opened 5 hours, made 22.08bbls in 45 mins, while trying us close tool, pulsed packer loose while trying to close tool, pulsed packer loose will trying to close tool, press. recovered 54.50 of clean oil, 50 oil out bud & send & out, of loosed to be send on out of oil out 1875-1600f, no outld up.
- 11-16-18 7361 ID, the Intliff stage last by lacker to 73321 Feriorabicos: 73321-561, 5/3m bottom and in top enoke, opened tool 13:36kk, that in a mintriverse of the stage of the factor of the stage of
- 11-17-48 79901 %D, ion intil Step Teats & tried to set Packer @ 73581 for § hr, pulsed out & reconstred 13 stands of end, we-man DSI by packer out & 73501-73631, Peri, 73641-871, 5/6* bottom & 1° top enoises, cool opened 1 hr 75 mins, had mild blow wir for 35 mins, heacherd 1601 gas out med, dydro 3600\$, Mos 1888, is min being 1890\$, amorada 35mb; hydro in 3688, out-3688, flow 85%, is min beind not us-1958.
- 13-18-18 74201 23, Man Brill Stem test of Theast of 73851-73791, Penf. 73881-76181, Stem 5/88 1-76181, Stem 5/88 bottom and in top dies, opened test of illocard, blow of sit for a beforegived test of 5/9208, west-1801 \$ 000 4001 4018 by the 5258, with illocards of 5/78, out 3628, with illocards find the same of illocards of 5/98, out 3628, out 3628, with annual case of 5/98, out 3608, with