State BTA Well #1

4-16-49

4-17-49

DST. #8 From 10770' to 10794' Packers set at 10762' & 10770', W/5/8" bottom & 1" Top Choke. Perforations 10771' to 10778'. with 2300' Water Blanket. Tool open at 2:07 P.M. with fair blow of air for 38 minutes & died. Tool open 1 hr. & 38 mins. Closed at 3:45 P.M. for 1/4 Hr. BUP. Recovered 210' free oil, Gravity 45.7, 2300' Water Blanket, oil & gas cut, 90' Drlg. mud, oil & gas cut. Oil on top of water blanket & mud below. Howco. Hydro. in 5850# otu 5700# Flow pressure 1050#, 1/4 Hr. Build up pressure 2700#. Amerada Hydro. in 5800# out 5750#, Flow pressure 1040#, 1/1 1/4 hr. BUP. 2760#.

DST. #9 From 10794! to 10819! With 2 - 62" O.D. Packers set at 10786! & 10794!. With safety joint & circulating sub. 5/8" Bottom & 1" Top Choke Perforations 10795! to 10812! With 2300! water blanket. Tool open at 5:16 P.M. with fair blow of air , mud up in 20 minutes, oil up in 40 mi ns. Switcher to tanks at 6:00 P.M. made 335.12 bbls. oil, 3/10% B.S. in 4 hrs. & 20 minutes. Travity 46.4 Gas volume 58,394 cu. ft. per day. GOR 31. Drill pipe pressure 225#, Closed tool at 10:20 P.M. from 10:20 to 11:20 P.M. bled off 19.32 bbls. Left tool closed for 25 minutes, Build up. Tool open total of 5 hrs. & 5 minutes, Pulled packer loose @ 11:20 P.M. Tried to break circulating sub. with 2900# & failed. Pulled 4 stands drill pipe, tried again with 2900# .Recovered 9770' Bree Oil, 690' Fresh water, Will not color coin, and hasn't any taste of salt. Howco. Hydro. in 5900# out 5700# Min. Flow 3900# Max. flow 4150#, 1/4 Hr. BUP. failed. Amerada H dro. in 5840# out 5780#, Unin. Flow 3275#, Max.

DST. #10 From 10819' to 10839' With 2 packers set at 10811' & 10819' W/5/8" Bottom & 1" Top Choke. Perforations 10820' to 10833' with 2300' Water Blanket. Toolopened at 1:40 P.H. Good blow of air immediately , mud in 25 mins. water in 26 mins., oil in 35 mins. Made 280.83 bbls. in 4 hrs. Gravity 46.2 Gas volume 42,506 cu Et. per day. GOR 25.3 Separator pressure 13#, Drill pipe pressure 25# Closed tool at 6:15 P.M. for 1/4 Hr. BUP. Recovered 9530' oil, 540' Water & 720' mud. Howco. Hydro in 5400# out 5400#, Initial flow pressure 2400# Final flow Pressure 4000# 1/4 hr. BUP. 42:5# Amerada Hydro. in 5760# out 5860# Initial flow press. 2140# Final Flow pressure 3920#, 1/4 nr. BUP. Failed.

DST. #11 From 10840 to 10889' W/2 packers set at 10832' & 10840' W/5/8" Bott. & 1" Top Choke. Perforations 10841-42' & 10873' to 10886' W/2390' Water Blanket, Circulating Sub & Safety joint, Tool opened at 6:30 A.H. with strong blow of air, mud up in 2 hrs. water in 2 hrs & 5 mins. Oil in 2 hrs & 45 Mins. Turned to tanks @ 9:15 A.H. Hade 67.62 bbls. oil, Gas Vol. 3,022 cu. ft. per day, GOR 7.3, Gty. 45.9 corrected, no seperator or drill pipe pressure, just enough gas to dump separator, closed tool @ 1:15 P.M. for \pm hr. BUP. Tried to shear pin in circulation Sub. no results, pulled 25 stands full of oil, 2250' oil, Sheared pin in circulating Sub with between 1600# & 1800# pump pressure, displaced oil in drill pipe. Recovered 49.02 bbls. oil, 4/10% BS, no water and approximately 4 bbls. into pits, which was mud cut, 210' 0il & Gas cut drig. mud. mo water, which was below circulating sub. Howco Hydro in and out 5800#, Min. Flow 1150#, Max Flow press. 3800#, $\frac{1}{4}$ hr. BUP. 4025# Amerada Hydro. in and out 5610', Min. Flow 1095#, Max. Flow 3855#, $\frac{1}{4}$ hr.

DST. #12, From 11200: to 11225: N/2-7/8" Drill pipe, 55 min. Test. with circulating sub and safety joint. $1-4\frac{1}{4}$ " Howco Hookwall packer set at 11185: N/3/8" bottom & 1" Top Choke, perforations 11188: to 11212: with 2225: water blanket. Tool open at 3 A. .. with fair blow of air, died in 50 mins. and packer failed at 3:55 A.M. closed tool and recovered 270: drlg. mud and pin in circulating sub broke, lost 2225: water blanket, 1355: of extra fluid, including drlg. mud. Howco Hydro. in 5200# out 5100#, Min. Flow 3400# Max. Flow 4250#, No BUP. Amerada Hydro. in 5275# out 5085# Min. Flow 370#, max. Flow 1290#

DST #13, From 11469' to 11506', 3 hrs. & 5 mins. test on 3½" D.P. with packers set at 11465' & 11469' W/5/8" bottom & 1" Top Choke, W/Perf. 11470' to 11502' W/3510' Water blanket, tool opened at 1:25 P.M. with small blow air through out test, gradually decreasing to few bubbles at end of 3 h.s. Fluid on outside of D.P. dropped at rate of 1' per. mins. for 24 hrs. and stopped, Tool closed at 4:30 P.M. for 1/4 hr. BUP. recovered 5040' dry pipe, 2916' drlg. mud on top of water blanket 3510' water blanket & 40' drlg. mud above tool, Howco Hydro. in and out 5200#, (Howco chart showed tool had not opened) Amerada Hydro. in and out 5240#

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