

5:20 A.M. Strong blow air at once. Gas to surface in 10 min., gradually decreasing to weak blow. Fluid to surface 2 hrs. 20 min. Oil to surface 2 hrs. 30 min. Continuing to flow to clean up. Gravity of oil rec. from DST #14, 43.5 @ 90°. Corrected API 41.1 @ 60°. (Cont.) 4/26/54 - 10560 to 10619. Tool open 8 hrs. 5/8 bottom and 1" Surface choke; strong blow air at once, strong gas to surface in 10 min weakened to heads; oil cut mud to surface in 2 hrs & 20 min; clean oil in 2 hrs and 30 min. Well flowing by heads - 1st hr. 5-1/2 BO; 2nd hr. 5 1/2 BO; 3 hr. 5 1/2 BO 4th hr. 8 BO; total 25 bbls no water; BHPF 180 to 1220 30 min BHPSI 3705. Core #1 10,619 to 10,631 (4-3/4 hr.) Recovered 5 1/2' - 5 Buff fine chrysalin lime Pin Point porosity, scattered Vugs, staining 2" Black Pyritic shale; 4" Grey, brown coarse chrysalin tight dolo. w/large anhy. Inclisions. Reamed Core hole & Drilled.

DST #15 - 4/26/54 - 10,645 to 10,670. Tool open 6 hrs, 5/8 bottom and 1" surface choke. Moderate blow of air at once, gas to surface 4 hrs. and 13 min. Recovered 180' of heavy oil and gas cut mud; 450' of mud and gas cut water and 840' of salt water. BHPF 750 to 880; 30 min BHPSI 1020. Water titration Buffalo Unit #1 70,500 PPM Chlorides. Measured resistivity on water sample from DST #15 .069 ohms @ 75° F.

DST #16 - 5/11/54 - 11130-11161 800' WB (Lower Wolfcamp) Tool open 12 hrs 45 min. Gas to surface in 38 min. Strong blow gas throughout test. After tool open 7 hrs. some condensate to surface. Reversed out 4 bbls. clean oil. 800' heavy oil and gas cut water blanket x 600' of heavy oil and gas cut mud. Prep to come out of hole. (Cont.) 5/12/54 - Rec. 15' free oil Corr. gravity 38°, 75' heavily oil and gas cut mud no water. BHPF 465 to 585 2 hrs. BHPSI 1540.

DST #17 - 5/17/54 - 11,270 to 11,320 900' water blanket. Tool open 1 hr. x 45 min. Very weak blow air fro 45 min x died. Rec. 5 gal. free oil. 130' of slightly oil & gas. Cut mud & water, 615' of water blanket, 415' of slightly oil cut mud & water. (Total 1160 including 900' water blanket.) BHPF 420 to 450, 30 min. BHPC 680 psi.

DST #18 - 5/21/54 - 11,590 to 11,686 Lower Wolfcamp. 1400' water blanket. Tool open 1 hr. 45 min. Slight blow air for 45 min x died. Rec. 1220' water blanket, 180' oil cut water blanket, 450' slightly gas cut drilling mud. BHPF 750 to 780 30 min. BHPC 850.

DST #19 - 5/26/54 - 11970 to 12,025. To test kick on gas machine, 1800' water blanket. Tool open 1 hr. No blow. Recovered 1800' of water blanket x 10' of Drl. mud. No Shows. BHPF 860 psi; 30 min. BHPSI 895 psi.

DST #20 - 6/15/54 - 12,860 to 12,881. Water blanket 2600'. Tool open 1 hr. and 18 min. Slight blow air for 18 min. and died. Recovered 2500' WB; 75' of drl. mud, 20' of slightly gas cut mud. FBHP 1170 psi. 30 min. SI. 1880 psi.

DST #21 - 13,200 - 13,280 (Penn) 1" BC x 5/8" x 1" TC. 3000' WB. Tool open 6 hr. 5 min. Gas to surface 1 hr. 25 min. Initial rate 971 MCFFPD - Final rate 1320 MCFFPD. Flw. DP pressure 80 psi. Rec. part of WB while flowing. Did not clean up. Unloaded 2250' gas, distillate x mud cut WB. Rec. 60' clean distillate x 900' heavy distillate x gas cut mud. No water. FBHP 1440 - 1480 1 hr. SIBHP 5920. Hyd. in 6475 - out 6440.

DST #22 - 7/30/54 - 14,100- 14,350. (Devonian) Used 2000' WB. 5/8" BC. DP leaking before packer was set. Tool open 1 hr. light blow air throughout test. SI 15 min. Rec. 2,000' WB, 5,100' DM NS oil, gas or water. IFBHP 1,855. FFBHP 2,710. 15 min. SIBHP 3,410. Hy. BHP in 17,270 out 7,100. Added approx. 3 bbl to annulus to keep casing full while testing.

DST #23. Mud 10.1 - 63 - 12.8 - 3/32. Core #4: 14,424' to 14,466' Rec. 11'. 12' tan F x ls, 1' tan Fx ls x scattered small vugs; 27 1/2 tan Fx ls, 1' tan Gx ls, vuggy porosity, open fractures, no show. (lost circ. at 14,466'). Pulled core. (Cont.) 8/4/54 - w/269' of 3-1/2" flush joint drill collars below packer.. Tool opened at 5:45 A.M. w/strong blow of air to surface immediately, gradually decreasing after 30 min. 2,500' WB. (Cont.) Tool open 2-1/4 hrs, w/strong blow of air for 30 min. decreased, dead in 1 hr. - rec 2,500' WB, 3,600' brackish water and 6,400' of salt water cut mud no shows - BHPF - 2,545 PSI to 5,925 PSI, 1-1/4 hr. SIBHP - 5925 psi.

DST #24 - 8/30- 14,875 - 14,916 - Set packer at 6:35 a.m. opened tool with strong blow of air to surface. Completed running surveys. Core #6 - 14,905 to 14,916. Rec 11' Grey-white chrysalin dol; poor to good, pin point porosity good fluorescence, no staining strong sulphur odor. Accumulated cost attributed to lost circ \$54,111.00. Last 24 hrs. \$4333.00. (Cont.) 8/31/54 - 14,875 - 14,916 -

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