

DRILL STEM TEST REPORT NO. 3

BIG EDDY UNIT NO. 35

MAY 21, 1973

REMARKS: Tool opened w/VWBA; WBA in ½ min.; SBA in 3 min.; VSBA in 9 min.; Closed tool @ 4:06 AM; Took 1 hr. 6 min. ISIP; while tool closed in; Opened to pit on 1" ch. in 14 min. to bleed down DP; Blow in bucket dead in 19 min.; Increased VWBA in 30 min; WBA in 31 min.; SBA in 33 min.; VSBA in 34 min (still on 1" ch.); FSP 6 psig; 8 psig in 43 min.; Gas to surface in 50 min.; 8½ psig; 7 psig in 55 min.; 6 psig in 57 min.; 4 psig in 60 min.; Set the pit line a fire in 67 min.; Opened tool 2nd time @ 5:12 AM, still on 1" ch., FSP 2 in. wtr.; 3 in. wtr. in 18 min.; 8 in. wtr. in 23 min.; 5 psig in 26 min.; 10 psig in 28 min.; 15 psig in 30 min.; 20 psig in 31 min.; 32 min. in 33 min.; 44 psig in 37 min.; 48 psig in 38 min.; 50 psig in 39 min.; 56 psig in 41 min.; 60 psig in 44 min.; 63 psig in 48 min.; 58 psig in 56 min.; 60 psig in 61 min.; 50 psig in 68 min.; 44 psig in 71 min.; 50 psig in 75 min.; 58 psig in 80 min.; 50 psig in 83 min.; 59 psig in 89 min.; 54 psig in 92 min.; 92 psig in 97 min.; 100 psig in 98 min.; Water blanket to surface in 100 min, 110 psig; 140 psig in 110 min.; 70 psig in 130 min. (water blanket flowing out); 160 psig in 133 min.; 210 psig in 135 min.; 300 psig in 142 min.; 260 psig in 156 min.; Switched to ½" surface choke, FSP 260 psig; 240 psig in 160 min.; 260 psig in 166 min.; Switched flow through Natco separators, FSP 300; low pressure separator back pressure valve leaking unable to repair, ordered another from Hobbs; Switched part of flow back to pit; Still unloading water blanket in 198 min.; 620 psig FSP in 203 min.; Switched all of flow to Natco separators; Flowed as follows:

Sep.Ch.	Time	Surface Choke	FSP	Sep. Press.	Flow rate, McfPD	Meter run Pressure
20/64"	8:55 AM	½"	635	600	1,100	120
21/64	9:03	½	635	600	1,230	140
24/64	9:12	1	600	550	1,600	140
28/64	9:52	1	520	425	1,800	150
28/64	10:10	1	500	450	1,850	360
30/64	10:42	1	500	450	1,930	360

Closed tool at 10:42 AM; Took 2 hrs. 12 min. FSIP; Pulled pkrs. at 12:54 PM; Pulled OOH; Rec'd. 32' distillate, 53.5° @ 83° F; 755' gas cut & distillate cut, drlg. mud, and 775' gas cut & drlg. mud cut, wtr. blanket (total 1,562'). Sample chamber: 1,150 psig, 6.94 cu. ft. gas, and 140 c.c. gas cut, distillate cut, water. Lost ¼ of btm. pkr. rubber in hole. Pkrs. harder to pull free this time; Bottom joint of drill collars plugged with black shale. Chlorides: DM pit 110,000 PPM, res. 0.12 @ 67° F; WB in 600 PPM, res. 5.1 @ 68° F; Low press. sep. 4,300 PPM, res. 1.1 @ 90° F; Top of 755' GC & DC DM, 77,000 PPM; Top of 775' GC DMC WB, 62,000 PPM; Sample chamber 77,000 PPM, res. 0.13 @ 83° F. JC @ 6:35 PM.