

COMPANY PENNZOIL LIMITED, INC.
 WELL Hudson 29 Federal No. 2
 LOCATION R 29 18 S 38 E
 COUNTY LEA NEW MEXICO
 DATE 12-26-68

$P_{e}^2 = 41193.3$

ABSOLUTE OPEN FLOW
 = 7100 MCFD

$Q_1 = 3050 \text{ MCFD}, \text{LOG} = 3.48430$

$Q_2 = 440 \text{ MCFD}, \text{LOG} = 2.64345$

$n = 0.84085 = 0.841$

$P_c^2 - P_w^2$ (THOUSANDS)

Q_2

Q_1

HUDSON "29" FEDERAL #2

Located: 1980' FSL &
1980' FWL, Section 29,
T-18-S, R-33-E, Lea
County, New Mexico.

DST Data

DST #1, 4351' to 4451'

Tool open 35", weak blow, inc. to fair blow - Recovered: 480' Drilling Mud - HPI & HPO 1847# - 45" ISIP 1593# - 75" FSIP 1573# - IF 138# - FF 237#.

DST #2, 10565' to 10690'

Tool open 2 hrs & 15", weak blow, inc. slightly - Recovered: 360' slight gas cut drilling fluid, 180' muddy salt water & 1890' salt water - HPI 4798# - HPO 4785# - 1 hr ISIP 3887# - 1 hr 2nd SIP 3861# - 3 hr FSIP 3874# - IF 90# - 2nd flow 834# - FF 1193# - BHT 150 degrees.

DST #3, 13273' to 13300'

Used 2500' water cushion - Tool open 1 hr & 5" - Recovered: 10' drilling mud plus 2500' water cushion - HPI & HPO 7250# - 50" ISIP 1854# - 2 hr FSIP 1895# - IF 1172# - FF 1147# - BHT 180 degrees.

DST #4, 13435' to 13446'

Used 2500' water cushion - Tool open 8 hrs. & 15", -- Opened for 15" pre-flow, weak blow - Shut in for 1 hr ISIP - Re-opened for 8 hrs., weak blow, increased to fair, had GTS in 4 hrs., followed immediately by water cushion - Flowed to pit 1 hr. to clean up water cushion, then flowed as follows: 1 hr & 35", back pressure 80#, gas rate of 1100 MCFPD - Flowed 45", back pressure 180#, gas rate of 1000 MCFPD - Flowed 50", back pressure 360#, gas rate of 840 MCFPD - Shut well in for 8 hr FSIP - Reversed out estimated 15 bbls dist. - HPI & HPO 7419# - 1 hr ISIP 6423# - 8 hr FSIP 6482# - IF 1102# - FF 1202#.

DST #5, 13464' to 13481'

15" pre-flow, fair to good blow - 1 hr ISIP - GTS in 5" after SI - Re-opened for 2 hrs. & 50", gas rate max. 400 MCFPD - SI for 2 hrs. - Re-opened for 2 hrs., weak blow, inc. to fair, then dec. to weak, max. 56 MCFPD - SI for 5 hr. FSIP - Reversed out 3 bbls dist. & water blanket (2500'), no formation water - 15" pre-flow 980# - 2 hr & 50" 2nd flow 1090# - 2 hr FF 1090# - 1 hr ISIP 6441# - 2 hr 2nd SIP 6185# - 5 hr FSIP 6258# - HPI & HPO 8033# - BHT 180 degrees.

DST #6, 13471' to 13575'

15" pre-flow, good blow - 1 hr ISIP - 2 hr. 2nd. flow, Water cushion to surface in 30", GTS in 55" on 1" choke, gas volume 4.7 MMCFPD - 2 hr 2nd. SI - 4 hr FF, gas volume on 1/2" choke was 1.8 MMCFPD, dec. to 800 MCFPD - 6 hr. FSIP - Recovered: 1097* of dist. & 120' water cushion - IF 1178# - 2nd flow 1145# - FF 786# - ISIP 6258# - 2nd SIP 5144# - FSIP 4377# - HPI 7482# - HPO 7445#.