

# DAILY DRILLING AND PROGRESS REPORT

MERRILL BATTERY #2 WELL

T-18S, R-26E, SEC. 34

EDDY COUNTY, NEW MEXICO

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- 5/8/83 RAN GEOSOURCE GAMMA RAY CORRELATION WITH COLLARS PERFORATE WITH 4" CASING GUN 23, .50" HOLES 1 SHOT PER 2' FROM 3786' TO 3830'.
- 5/14/83 SPOT 1500 GALS 15% NEFE, BREAKDOWN FORMATION 3210 PSI ESTABLISH RATE 76 BPM FRAC DOWN CASING WITH 80,000 GALS OF GELLED 1% KCL CARRYING 89,000#S OF 20/40 SAND TAILED IN WITH 38,000#S OF 10/20 SAND WITH ADDITIVES OF 14N, HAI-50, 3000 GALS 15% NEFE, WG-6, CW-1, PROTExALL, ADOMITE AQUA, 1 DRUM CORROSION AND EMULSIFIER, MAX PSI 3340, AV PSI 2600, MAX RATE 91.5 BPM, ISIP 1300 PSI, 15 MIN SIP 1120 PSI. SHUT IN 9:57 AM FLOW BACK 10:00 PM.
- 5/15/83 RIH WITH TUBING AND OVERSHOT WASH 90' OF SAND FROM RBP. LATCH ON RBP PULL UP TO 3665' AND SET RBP. PULL UP TO 3632' AND SPOT 1000 GALS 15% NEFE ACID POOH WITH TUBING. RIH WITH 4" SELECT FIRE GUN AND PERFORATE 13, .50" HOLES AT 3278, 94, 3335, 41, 3462, 74, 82, 86, 98, 3535, 41, 50, 3622. BREAK DOWN FORMATION 4000 PSI AND ESTABLISH RATE OF 80 BPM. RIH WITH 4" SELECT FIRE GUN AND PERFORATE 12, .50" HOLES AT 3284, 98, 3332, 3464, 66, 77, 84, 93, 3504, 44, 90, 3624. SHUT IN FOR NIGHT.
- 5/16/83 RUN 2000 GALS 15% NEFE ACID PRE-PAD FRAC DOWN CASING WITH 80,000 GALS GELLED 1% KCL WATER CARRYING 89,000#S OF 20/40 SAND TAILED IN WITH 41,000#S OF 10/20 SAND PLUS ADDITIVES OF 14-N, HAI-50, WG-6, CW-1, PROTExALL, ADOMITE AQUA, 1 DRUM OF CORROSION AND EMULSIFIER. MAX PSI 3200 AV PSI 3000, MAX RATE 90 BPM, AV RATE 88 BPM, ISIP 1140, 15 MINS SIP 860 PSI. SHUT IN 7:30 AM, START FLOW BACK 11:30 AM. FLOW BACK 10 PSI AT 4:00 PM. RIH WITH TUBING AND OVERSHOT, WASH SAND OFF RBP, PULL UP 2 JTS, SHUT DOWN, LEAVE FLOWING BACK TO PIT.
- 5/17/83 LATCH ON TO RBP PULL UP HOLE TO 3178 AND SET. PULL UP TO 3146 AND SPOT 1000 GALS 15% ACID, POOH, RIH WITH 4" SELECT FIRE GUNS AND PERFORATE 13, .50" HOLES AT 2797, 2810, 49, 90, 2941, 48, 63, 77, 87, 3028, 3119, 26, 31. PRESSURE UP ON FORMATION AND BREAK AT 4010 PSI. ESTABLISH RATE OF 42 BPM. RIH WITH 4" SELECT FIRE GUNS AND PERFORATE 12, .50" HOLES AT 2815, 38, 66, 88, 2913, 38, 58, 74, 3032, 95, 3115, 28. RUN 2000 GALS 15% NEFE ACID PER-PAD, RUN 8000 GAL PAD WITH ADDITIVES AND CHEMICALS OF 14-N, HAI-50, WG-6, CW-1, PROTExALL, ADOMITE AQUA, 1 DRUM OF CORROSION AND SCALE PREVENTOR, FRAC DOWN CASING WITH 100,000 GALS OF GELLED 1% KCL CARRYING 122,500#S 20/40 SAND, TAILED IN WITH 38,000#S OF 10/20 SAND. MAX PSI 4010, AV PSI 2750, MAX RATE 91 BPM, AV RATE 85 BPM, ISIP 1000 PSI, 15 MIN. SIP 820 PSI, SHUT IN 11:00 AM. START FLOW BACK 11:00 PM.