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1 File

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
Form 1122
MAY 06 1993
Revised 4-1-91
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.						Lease or Unit Name Jeter																																					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-3-93																																					
Completion Date 4-12-93						Well No. 3																																					
Total Depth 1320						Unit Loc. - Sec. - TWP - Rge. M 35-26N-13W																																					
Plug Back TD 1271						Elevation 6258' GL (est.)																																					
Country San Juan						Pool Basin Fruitland Coal																																					
Csg. Size 4 1/2"						Perforations: From: 1188 To: 1228																																					
Tbg. Size 1 1/2"						Perforations: From: To:																																					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At N/A																																					
Producing Thru tbg.						Formation Fruitland Coal																																					
Reservoir Temp. °F						Baro. Press. - P _s 12																																					
Mean Annual Temp. °F						Connection None																																					
L H G _s % CO ₂ % N ₂ % H ₂ S Prover						Meter Run Taps																																					
.5959																																											
FLOW DATA											TUBING DATA											CASING DATA											Duration of Flow										
NO. Prover Line Size X Onflow Size Press. p.s.i.g. Diff. h _e Temp. °F											Press. p.s.i.g. Temp. °F											Press. p.s.i.g. Temp. °F											Duration of Flow										
SI											160											160											13 days										
1.																																											
2.																																											
3. 2" x 3/4"											13 65°											58											3 hrs										
4.																																											
5.																																											
RATE OF FLOW CALCULATIONS																																											
NO. COEFFICIENT (24 HOUR) $\sqrt{h_e P_s}$ Pressure P _s Flow Temp. Factor F _t Gravity Factor F _g Super Compress. Factor, F _{sp} Rate of Flow Q, Mcfd																																											
1.																																											
2.																																											
3. 11.0 25 .9952 1.295 1.000 354																																											
4.																																											
5.																																											
NO. P _i Temp. °R T _i Z Gas Liquid Hydrocarbon Ratio Mcf/bbl																																											
1. from offset wells .9978 A.P. L Gravity of Liquid Hydrocarbons Deg																																											
2. Specific Gravity Separator Gas XXXXXXXXXX																																											
3. Specific Gravity Flowing Fluid XXXXX																																											
4. Critical Pressure P.S.I.A. P.S.I.A.																																											
5. Critical Temperature R R																																											
P _c 172 P _c ² 29,584																																											
NO. P _i ² P _w ² P _w ³ P _i ² · P _w ³																																											
1.																																											
2.																																											
3. 70 4900 24684																																											
4.																																											
5.																																											
1) $\frac{P_i^2}{P_i^2 - P_w^2} = 1.1985$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^{.85} = 1.1664$																																											
AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^{.85} = 413$																																											
Absolute Open Flow 413 Mcfd @ 15.025 Angle of Slope θ Slope, a .85																																											
Remarks: very light spray water																																											
Approved By Division											Conducted By: Mark Brown											Calculated By: J. Alexander											Checked By:										