

OKLAHOMA CORPORATION COMMISSION - OIL & GAS CONSERVATION DIVISION
380 Jim T. Pe Building-Oklahoma City Oklahoma 73105
BACK - PRESSURE TEST FOR NATURAL GAS WELLS

Lease Name: CARRASCO NO. 1 OTC No.:
Well No.: 1 SEC: 6 TWP: 23S RGE: 28E County: EDDY
State: NEW MEXICO Type test: FOUR POINT-INITIAL Test date: 4-1-82
Company: REED & STEVENS Connection: AIR-NEW WELL
Field: UNDESIGNATED Pool No.: Reservoir: MORROW
Location: UNIT 0. Compl date: 3-30-82 Tot depth: 12550 Plug back: 12500
Elev.: Type compl: SINGLE Packer set at: 0
Prod. thru: TUBING BHT: 215.0 F Atm temp: 60 F Baro press.: 13.2 PSI
Size: METER RUN 4.026 in Taps: FLANGE L: 1212/ H: 12127 Gg: .573
%CO2: 1.15 %N2: .25 %H2S: 0 API WELL NO.: 31
Size(in) Wt(#/Ft) Set at ***** Perforation *****
Casing 5.000 23.00 12500 from 12120 to 12134
Tubing 2.375 4.70 12060 from 0 to 0

***** FLOW DATA *****					** TUBING **		** CASING **		* DURATION *
No.	Orifice Size	Press PSIG	Diff in/RTS	Temp F	Press PSIG	Temp F	Press PSIG	Temp F	Dur. of Flow(hrs)
SI					2829.0	74.0	3618.8	74.0	48.00
1	1.5000	400.0	2.00	80	2132.0	74.0	2800.7	74.0	1.00
2	1.5000	400.0	6.00	70	1677.0	72.0	2204.9	72.0	1.00
3	1.5000	400.0	12.00	81	1662.0	68.0	2195.3	68.0	.75
4	1.5000	400.0	20.00	70	1052.0	68.0	1388.8	68.0	1.00

***** RATE OF FLOW CALCULATION *****								
No.	Coef. (24hrs)	SQRT (Hw*Pw)	Press Pm	Flow (Ft)	Temp (Fg)	Gravity (Fg)	Compress (Fpv)	Rate of Flow(Q)
1	11.1200	28.75	413.2	.9759	1.3211	1.0260		423.
2	11.1200	49.79	413.2	.9831	1.3211	1.0281		739.
3	11.1200	70.42	413.2	.9804	1.3211	1.0271		1042.
4	11.1200	90.91	413.2	.9905	1.3211	1.0292		1361.

***** **GAS LIQUID HYDROCARBON CALCULATION**						
No.	Pr	Temp. R	Tr	Z	Ratio *****	MCF/BBL
1	.61	546.	1.59	.950	API Gravity 1.0	DEG.
2	.61	538.	1.56	.946	Specific Gravity:	
3	.61	541.	1.57	.948	Separator Gas .5730	
4	.61	530.	1.54	.944	Flowing Fluid .6078	
					Critical Press 678 PSIA	676 PSIA
					Critical Temp 344 R	355 R

Pc 3632.0 (Pc)2 13191.4

No. Pw (Pw)2 (Pc)2-(Pw)2
1 2813.9 7918.0 5273.0
2 2218.1 4920.0 8271.0
3 2208.5 4877.5 8314.0
4 1402.0 1965.6 11226.0

$$(Pc)^2 / ((Pc)^2 - (Pn)^2) = 1.1751$$

$$((Pc)^2 / ((Pc)^2 - (Pw)^2))n = 1.1751$$

$$WHAOF = Q * ((Pc)^2 / ((Pc)^2 - (Pw)^2))n$$

$$= 1599.3 \setminus .0$$

Calculated Well Head Open Flow: 1599.3 MCFPD Slope: 1.0000 Angle: 45.0 Deg.

REMARKS

APPROVED BY COMMISSION CONDUCTED BY CALCULATED BY CHECKED BY
Wohlford & Jenkins
Gas Consultants

3128693-40100000