

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS

Form C-122
Revised 9-1-65

RECEIVED
JUN 24 1985
OIL CON. DIV.
DIST. 3

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 6/24/85	
Company Conoco Inc.			Connection Re-connect		
Pool South Platte			Formation Picture Cliff		Unit 1
Completion Date		Total Depth 6250	Plug Back TD 6215	Elevation 7248 OL	Farm or Lease Name AXI Apache X
Csg. Size 4 1/2	Wt. 10.5	d 4.052	Set At 6250	Perforations: Picture Cliff From 3877 To 3946	Well No. 5
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 5576	Perforations: Mesa Verde From 5576 To 6129	Unit Sec. Twp. Rge. h 10 26 51
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual - Gas/Gas				Packer Set At 5100	County Rio Arriba
Producing Thru Tub/Csg		Reservoir Temp. °F @	Mean Annual Temp. °F 55	Baro. Press. - P _a 12.2	State N.M.
L 3865	H 3865	Gg .690	% CO ₂ n/a	% N ₂ n/a	% H ₂ S n/a
Prover 100"		Meter Run 4"	Taps Flg.		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							Pkr.		920	87	S.I. 1977
1.	4"X.750			44	3.1	60			44	83	24 hrs.
2.	4"X.750			101	4.2	60			101	85	24 hrs.
3.	4"X.500			200	4.4	60			200	85	24 hrs.
4.	4"X.500			300	5.0	60			300	88	24 hrs.
5.	4"X.500			350	4.9	60			350	89	24 hrs.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	7.166	25.92	56.2	1.000	1.204	n/a	223
2	7.166	20.58	113.2	1.000	1.204	n/a	177
3	3.182	29.04	212.2	1.000	1.204	.955	106
4	3.182	40.50	312.2	1.000	1.204	.932	144
5	3.182	39.91	362.2	1.000	1.204	.920	140

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	n/a				A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	n/a				Specific Gravity Separator Gas .690 X X X X X X X X
3.	.317	520	1.34	.955	Specific Gravity Flowing Fluid X X X X X
4.	.466	520	1.34	.932	Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.	.541	520	1.34	.920	Critical Temperature _____ R _____ R

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.324$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.269$ $AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 134.5$
1					
2					
3	6996	461.29	212796	636200	
4					

Absolute Open Flow	134.5	Mcfd @ 15.025	Angle of Slope θ	.55	Slope, n
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Remarks: P_c=3.284 AOF is based on step # 3 of calculations. Conoco is analyzing for re-connect. Bad casing was repaired 1/1977.

Approved By Commission:	Conducted By: Production Technician	Calculated By: R.A. Janner	Checked By: <i>[Signature]</i>
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