

NEW MEXICO OIL CONSERVATION FORM NO. 1
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED

SEP 27 1982

☒ Initial ☐ Amend ☐ Special				Date: 9-13-82		O. C. D. ARTESIA, OKLAHOMA	
Company: Perry R. Bass				Fluid: AIR		Field: James Ranch Unit	
Well: LOS MEDINAS				County: ATOKA		Lease: JAMES RANCH (7A)	
Completion Date: 9-11-82		Total Depth: 15061		G.L. 3308.5 G.L.		Well No. 13	
Casing Size: 5" LINE		Set At: 15061		Perforations: From 13466 To 13477		Well No. 13	
Tub. Size: 2 3/8		Set At: 15061		Perforations: From To		Unit Sec. Twp. E 6 23 S 11	
Type well - Single - (or Multiple) - G.G. or G.O. Multiple				Frac. Set At: 13350		County: EDDY	
Producing thru: TBG.		Reservoir Temp. °F: 208 @ 13380		Mean Annul. Temp. °F: 60°		State: NEW MEXICO	
L: 13380	R: 13380	Gg: .6218	% CO ₂ : .456	% N ₂ : 1.229	% H ₂ S:	Prover:	Meter Run: 4" FLG.

FLOW DATA						TUBING DATA		CASING DATA		Pressure p.s.i.g.	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. Inch	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							1940				72 H
1.	4 x .750			410	2.0	90	1920				1 H
2.	4 x .750			410	9.0	90	1870				1 H
3.	4 x .750			410	26.0	87	1770				1 H
4.	4 x .750			410	46.0	81	1670				1 H
5.	4 x .750			410	60.0	60	1620				1 H

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor FL	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow C, Mcf/D
1	2.661	29.09	423.2	.9723	1.268	1.033	99
2	2.661	61.72	423.2	.9723	1.268	1.033	209
3	2.661	104.90	423.2	.9750	1.268	1.033	356
4	2.661	139.52	423.2	.9804	1.268	1.035	478
5	2.661	159.35	423.2	1.000	1.268	1.041	560

NO.	P _f	Temp. °F	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY
1	.63	550	1.51	.938	A.P.L. Gravity of Liquid Hydrocarbon	
2	.63	550	1.51	.938	Specific Gravity Separator Gas	.6218
3	.63	547	1.50	.937	Specific Gravity Flowing Fluid	XXXXXX
4	.63	541	1.48	.933	Critical Pressure	671
5	.63	520	1.42	.923	Critical Temperature	365

NO.	BHP	P _w	P _f	P _h	1) $\frac{P_h^2 - P_w^2}{P_h^2 - P_f^2} = 4.306$	2) $\left[\frac{P_h^2}{P_h^2 - P_w^2} \right]^n = 2.840$
1	2692.2	1973.6	3895.1	84.4		
2	2636.2	1934.0	3740.3	239.2		
3	2531.2	1858.4	2453.5	526.0		
4	2401.2	1764.2	3112.4	867.1		
5	2378.2	1747.9	3055.3	924.2		

2720.2 S.I.P.	1,591	Molded P. (25)	Angle of Flow ° 54.5°	Slope, n = .71
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Remarks: BOTTOM-HOLE INSTRUMENT SET AT 13380 FT.

Approved by: _____	Conducted By: DAVIS SERVICES, INC.	Calculated By: RICK PAGAN	Checked By: _____
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