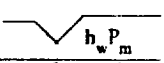


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OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MEWBOURNE OIL COMPANY					Lease or Unit Name ANGELL RANCH "26" STATE #1				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1-6-93		Well No. 1		
Completion Date 10-21-92		Total Depth 11030		Plug Back TD 10978		Elevation 3506 GL		Unit Lr. - Sec. - TWP - Rge. 26 19S 27E	
Csg. Size 5 1/2	Wt. 17-20	d	Set At 11025	Perforations: From: To:			County Eddy		
Tbg. Size 2 7/8	Wt. 6.5#	d	Set At 10521	Perforations: From: 10660 To: 10731			Pool Angell Ranch		
Type Well - Single - Bradenhead - G.G. or E.O. Multiple single				Packer Set At 10550			Formation Morrow		
Producing thru tbg		Reservoir Temp. °F 179.2		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection El Paso	
L 10521	II 10521	G _g .641	% CO ₂ .71	% N ₂ .70	% H ₂ S	Prover -0-	Meter Run 4029	Taps flg.	
FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	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						1175		Pkr.	
1.	4" X .750		410	10.00	50	1120		"	
2.	4" X .750		410	26.00	50	1090		"	
3.	4" X .750		410	39.00	49	1050		"	
4.	4" X .750		410	88.00	49	1000		"	
5.									
RATE OF FLOW CALCULATIONS									
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd		
1.	2.723	65.05	423.2	1.010	1.249	1.049	234		
2.	2.723	104.90	423.2	1.010	1.249	1.049	378		
3.	2.723	128.47	423.2	1.011	1.249	1.049	463		
4.	2.723	192.98	423.2	1.011	1.249	1.049	696		
5.									
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.				
1.	.63	510	1.37	.908	A.P.I. Gravity of Liquid Hydrocarbons Dry Deg.				
2.	.63	510	1.37	.908	Specific Gravity Separator Gas .641 XXXXXXXXXXXX				
3.	.63	509	1.36	.908	Specific Gravity Flowing Fluid XXXXXX				
4.	.63	509	1.36	.908	Critical Pressure 670 P.S.I.A. P.S.I.A.				
5.					Critical Temperature 372 R R				
P _c 1188.2 P _c 1411.8									
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.060$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.303$				
1.		1133.5	1284.8	127.1					
2.		1103.9	1218.7	193.2					
3.		1064.3	1132.8	279.0					
4.		1015.9	1032.1	397.7					
5.									
Absolute Open Flow 1.992 Mcfd @ 15.025					Angle of Slope 48		Slope, n .900		
Remarks: No fluid Produced during test									
Approved By Division			Conducted By: Pro Well Testers		Calculated By: BM		Checked By: BM		