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appropriate district office.
See Rule 401 & 402

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: UNIT PETROLEUM				Lease or Unit Name: GOURLEY FED COM			
Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 1/18/02		Well No.: 2	
Completion Date:		Total Depth: 12750		Plug Back TD: 12652		Elevation: 28 - 22S 28E	
Csg. Size: 4 1/2	Wt. 11.6	d 4	Set At 12748	Perforations: From: 12229 To: 12553		County: EDDY	
Tbg. Size: 27/8/23/8	Wt. 6.5/4.7	d 441/1.99	Set At 11940	Perforations: From: To:		Pool: Dublin Ranch - Morrow	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 11940		Formation: MORROW	
Producing Thru Tubing		Reservoir Temp. °F 195	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2		Connection: SALES	
L 11957	H 11957	Gg 0.576	%CO ₂ 1.261	%N ₂ 0.182	%H ₂ S N/A	Prover N/A	Meter Run 4.028
FLOW DATA				TUBING DATA		CASING DATA	
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.
SI					3071	N/A	PKR
1	4.028 X 1.000	304	2.7	57	2923		
2	4.028 X 1.000	312	33.6	75	2551		
3	4.028 X 1.000	315	65.3	82	2218		
4	4.028 X 1.000	318	106	73	1956		
5							
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							208
2							645
3	TOTAL	FLOW	METER				899
4							1162
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf bbl.		
1					A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2	TOTAL	FLOW			Specific Gravity Separator Gas 0.576 XXXXXXXX		
3					Specific Gravity Flowing Fluid XXXXXX		
4					Critical Pressure 676 P.S.I.A. P.S.I.A.		
5					Critical Temperature 341 R. R.		
P _c 3084.2		P _{c2} 9512.3					
No.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.702$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.639$		
1	8621.3	2936.5	8622.8	889.5			
2	6575.1	2567	6589.5	2922.8			
3	4978.3	2237.4	5005.9	4506.4			
4	3877.7	1980.9	3923.9	5588.4			
5							
Absolute Open Flow 1905				Mcf/d @ 15.025	Angle of Slope (°): 47.1	Slope n: 0.9291	
Remarks: * NO LIQUID MADE DURING TEST.							
Approved By Division:		Conducted By: PRO WELL TESTING		Calculated By: MERV BUECKER		Checked By: BM	