

**Submit in duplicate to
appropriate district office.
See Rule 401 & Rule 1122**

**State of New Mexico
Energy Minerals and Natural Resources**

Form C-122
Revised October, 1999

**Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87504**

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Gruy Petroleum Management Company					Lease or Unit Name Magnum 16 State				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3-27-01		Well No. 2		
Completion Date		Total Depth 11555		Pack Back TD 11533		Elevation		Lith. - Seg. - TWP - Rgn. H 16 19 29	
Csg. Size 5 1/2		Wt. 17#		Perforations: From: 11147 To: 11478		County Eddy			
Tub. Size 2 3/8		Wt. 4.7		Perforations: From: To:		Pool			
Type Well - Single - Branches - G.L.S. or G.O. Multiple					Packer Set At		Formation		
Producing Time TBG		Running Time, °F 185.5 @ 11147		Mean Annual Temp. °F 60		Baro. Press. - P. 13.2		Connection	
11147		11147		Bg .676		%GOL 4.433		Prover .409	
								Meter Run 4,026	
								Taps FLG	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
No.	Prover Lin Size	Orifice Size	Press. p.s.i.g.	DIFF In.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F
SI						2745		PKR	
1.	4.026		153	6.60	59	680		PKR	48 HRS
2.	4.026		163	15.70	58	380		PKR	4 HRS
3.	4.026		162	18.20	58	290		PKR	1 HR
4.	4.026		175	23.00	57	246		PKR	1 HR
5.									

RATE OF FLOW CALCULATIONS						
No.	COEFFICIENT (24 HOUR)	$\sqrt{\frac{P_1 - P_2}{P_1}}$	Pressure P ₁	Flow Temp. Factor FL	Gravity Factor Fg	Super. Compens. Factor, F pv.
1.						
2.	GAS MEASURED BY TOTAL FLOW METER					
3.						
4.						
5.						

No.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio	Me/ftbl.
1.					30.4	
2.					58.6 @ 60	
3.						
4.						
5.						

No.	P ₁	Temp. °R	T ₁	Z	A. P. I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.						.676	XXXXXX	669	375
2.									
3.									
4.									
5.									

No.	P ₁	P ₂	P ₁ - P ₂	P ₁ ³ - P ₂ ³
1.				
2.				
3.				
4.				
5.				

(1) $\frac{P_2}{P_1 - P_2} = \frac{1.016}{1.121}$		(2) $\left[\frac{P_1^3}{P_1^3 - P_2^3} \right] = \frac{1.016}{1.121}$	
AOF = Q			

Absolute Open Flow 1,121		Mcf/d @ 15.025		Angle of Slope θ: 45		Slope, α: 1.000	
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Remarks: **WELL PRODUCED 7 BBL 58.6 API GR. CONDENSATE**

Approved By Division	Conducted By: SIGNAL WIRELINE	Calculated By: BM	Checked By: BM
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