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appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Jack Huff						Lease or Unit Name Meyer A-29 A/C 1					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-22-94		Well No. 11			
Completion Date 12-7-94		Total Depth 3333'		Plug Back TD 3330'		Elevation		Unit Lr. - Sec. - TWP - Rge. G 29 22S 36E			
Csg. Size 5 1/2"	Wt. 15.5#	d 4.950"	Set At 3333'	Perforations: From: 3169' To: 3306'				County Lea			
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995"	Set At 3153'	Perforations: From: None To: 				Pool Jalmat			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At Open ended tubing		Formation Yates			
Producing Thru Tubing		Reservoir Temp. °F 97		Mean Annual Temp. °F		Baro. Press - P _a 13.2		Connection Sid Richardson			
L 3153	H 3153	Gg .7166	% CO ₂ 3.9	% N ₂ 2.1	% H ₂ S	Prover		Meter Run 4"	Taps Flange		

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						170.0	64			24 Hours
1.	4" X	1.25"	31.4	7.0	62	157.0	64			60 Min
2.	4" X	1.25"	33.0	21.4	62	143.0	64			60 Min
3.	4" X	1.25"	33.2	48.9	62	122.0	64			60 Min
4.	4" X	1.25"	33.6	90.3	62	87.0	64			60 Min
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	7.469	17.67	44.6	0.9981	1.181	1.007	157
2.	7.469	31.44	46.2	0.9981	1.181	1.007	279
3.	7.469	47.63	46.4	0.9981	1.181	1.007	422
4.	7.469	65.01	46.8	0.9981	1.181	1.007	576
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.07	522	1.35	0.987	106	
2.	0.07	522	1.35	0.987	9.9	
3.	0.07	522	1.35	0.987	0.7166	XXXXXXXXXX
4.	0.07	522	1.35	0.987	XXXXXX	0.7568
5.						

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.	29.0		29.3	4.2
2.	24.4		25.5	8.1
3.	18.3		20.8	12.7
4.	10.0		14.8	18.7
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.166$

2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.486$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 972$

$P_c = 183.2$ $P_c^2 = 33.6$

Absolute Open Flow 972 Mcfd @ 15.025	Angle of Slope Θ 49	Slope, n 0.875
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Remarks: _____

Approved By Division	Conducted By: Chris Huff	Calculated By: Chris Huff	Checked By:
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