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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Meridian Oil Inc.						Lease or Unit Name Hodge					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 10-01-91		Well No. 4			
Completion Date 09-22-91		Total Depth 3362		Plug Back TD 3301		Elevation 3281.4' GR		Unit Ltr. - Sec. - TWP - Rge. G 8 24S 37E			
Csg. Size 4 1/2	Wt. 11.6	d 	Set At 3362	Perforations: From: 2905 To: 3093				County Lea			
Tbg. Size 2 7/8"	Wt. 4.7	d 1.995	Set At 2902'	Perforations: From: To: 				Pool Jalmat-T-Y-7Rvrs			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		Formation Yates			
Producing Thru Casing 		Reservoir Temp. °F 91°@ 2905'		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection vented			
L 2905	H 2905	Gg .976	% CO ₂ 15.12	% N ₂ 20.45	% H ₂ S	Prover		Meter Run 2.067		Taps flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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.		Temp. °F
SI							40		105		72 hrs.
1.	2	X	1.000	40	41.00	60	40		40		24 hrs.
2.											
3.											
4.											
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.	4.946	46.70	53.2	1.000	1.012	1.006	235
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.07	520	1.30	.988	DRY GAS	
2.					A.P. I. Gravity of Liquid Hydrocarbons DRY	Deg.
3.					Specific Gravity Separator Gas .976	XXXXXXXXXX
4.					Specific Gravity Flowing Fluid XXXXXX	
5.					Critical Pressure *691	P.S.I.A.
					Critical Temperature *400	R

P _c 118.2		P _c ² 14.0	
NO.	P _t ²	P _w	P _w ²
1.		54.7	3.0
2.			
3.			
4.			
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.272$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .299$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.272$$

Absolute Open Flow 299 Mcfd @ 15.025	Angle of Slope θ 45	Slope, n 1.000
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Remarks: ***=corrected to 15.12% CO₂ & 20.45% N₂**

NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By: Pro Well Testers	Calculated By: BM	Checked By: BM
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