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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 Company						Lease or Unit Name Shell State					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 09-27-91		Well No. 7			
Completion Date 09-10-91		Total Depth 3600		Plug Back TD 3538		Elevation		Unit Ltr. - Sec. - TWP - Rge. 2 - 23-S - 36-E			
Csg. Size 4 1/2	Wt. 11.6	d	Set At 3600	Perforations: From: 3131 To: 3517				County Lea			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3111	Perforations: From: To:				Pool Eumont-Tansill-Y-7Rv			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None		Formation Yates - 7 Rvrs			
Producing Thru Casing 105		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P. 13.2		Connection vented			
L 3131	H 3131	Gg .809	% CO ₂ 6.86	% N ₂ 1.21	% 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.	
SI										
1.	2	X	.750	30	28.00	62	63.2		80.2	
2.							30		30	
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$h_w P_m$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv} .	Rate of Flow Q, Mcfd
1.	2.709	34.78	43.2	.9981	1.112	1.005	105
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.06	522	1.27	.991	A.P.I. Gravity of Liquid Hydrocarbons	DRY	Deg.
2.					Specific Gravity Separator Gas	.809	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	*639	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*410	R R

P _c 80.2		P _c ² 6.4	
NO.	P _t ²	P _w	P _w ²
1.		43.2	1.9
2.			
3.			
4.			
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.422$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .149$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.422$$

Absolute Open Flow	149	Mcf/d @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks: *=corrected to 6.86% CO₂ & 1.21 % N₂

NO FLUID PRODUCED DURING TEST

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