

Submit in duplicate to
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 MERIDIAN OIL INC.						Lease or Unit Name Courtland Meyer					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 12-12-91		Well No. 10			
Completion Date 1-12-91		Total Depth 3170		Plug Back TD 3340		Elevation 3293 7' GR		Unit Ltr. - Sec. TWP - Rge. K 8 5-24-S 31-E			
Csg. Size 4 1/2	Wt. d	d	Set At 3410	Perforations: From: 2852 To: 3182				County Lea			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3200	Perforations: From: To:				Pool Jalmar-Tansil-Yates			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At none		Formation Yates			
Producing Thru CS6		Reservoir Temp. °F 102		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection 9-26-91			
I 2852	II 2852	Gg .813	% CO ₂ 7.30	% N ₂ 2.17	% H ₂ S	Prover		Meter Run 2.067		Taps Flg.	

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						110		110		24 hrs.
1.	2 X 1,250		33	11.00	60			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.	8.120	22.54	46.2	1.000	1.109	1.006	204
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.		
1.	.06	520	1.19	.989	A.P. I. Gravity of Liquid Hydrocarbons N/A Deg.		
2.					Specific Gravity Separator Gas .813 XXXXXXXXXX		
3.					Specific Gravity Flowing Fluid XXXXXX		
4.					Critical Pressure * 692 P.S.I.A. P.S.I.A.		
5.					Critical Temperature * 434 R R		

P _c 123.2		P _w 15.2		$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.288$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.288$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1.		58.6	3.43	11.8	
2.					
3.					
4.					
5.					

Absolute Open Flow 263 Mcfd @ 15.025		Angle of Slope θ 45	Slope, n 1.000
---	--	-----------------------------------	-----------------------

Remarks: * = Corrected to 7.30% CO₂ & 2.17% N₂

Well made 16.70 BBLs H₂O during test

Approved By Division	Conducted By: Pro Well Testing	Calculated By: BM	Checked By: BM
----------------------	--	-----------------------------	--------------------------