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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 Hughes B-6			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 2-3-95		Well No. 11	
Completion Date 12/6/94		Total Depth 3655		Plug Back TD CIBP03349'		Elevation 3339 G.L.	
Csg. Size 4 1/2		Wt. 11.6		Set At 3655		Perforations: From: 2974 To: 3130	
Tbg. Size 2-3/8		Wt. 4.7		Set At 1.995 2926'		Perforations: From: Open To: End	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		Formation Yates (gas)	
Producing Thru Tbg.		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2	
L 2975		H 2975		Gg .721		% CO ₂ 2.66	
				% N ₂ 1.68		% H ₂ S -0-	
				Prover 2"		Meter Run Taps	

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							37		36		48 Hours
1.	2	X	1/8	34		60	34		35		1 Hour
2.	2	X	1/4	32		63	32		33		1 Hour
3.	2	X	7/16	25		63	25		29		1 Hour
4.	2	X	5/8	17		62	17		25		1 Hour
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.	.2648		47.2	1.000	1.178	1.004	15
2.	1.087		45.2	.9971	1.178	1.004	58
3.	3.408		38.2	.9971	1.178	1.004	152
4.	6.473		30.2	.9981	1.178	1.004	231
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.06	520	1.32	.993	A.P. I Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	.06	523	1.33	.993	Specific Gravity Separator Gas	.721	XXXXXXXXXX
3.	.05	523	1.35	.993	Specific Gravity Flowing Fluid	XXXXXX	
4.	.04	522	1.33	.993	Critical Pressure	*675	P.S.I.A.
5.					Critical Temperature	*392	R

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		48.2	2.3	.2
2.		46.2	2.1	.4
3.		42.2	1.8	.7
4.		38.2	1.5	1.0
5.				

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.500 \quad (2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.500$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .576$$

Absolute Open Flow	576	Mcf @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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Remarks: *Corrected to 2.66% CO2 and 1.68% N2

No fluid produced.

Approved By Division
ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT SUPERVISOR
MAR 08 1995

Conducted By:
West-Test, Inc.

Calculated By:
B.M.

Checked By:
B.M.