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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

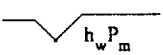
OIL CONSERVATION DIVISION

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 SHELL STATE					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9/10/93		Well No. 1			
Completion Date 9/3/93		Total Depth 3585		Plug Back TD 3540		Elevation		Unit Ltr. - Sec. - TWP - Rge. 13 20S 36E			
Csg. Size 8 5/8"	Wt. 28#	d	Set At	Perforations: From: 3363 To: 3515				County LEA			
Tbg. Size 2 3/8"	Wt. 4.7	d	Set At 1.995 3343	Perforations: From: To:				Pool EUMONT FIELD			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At		Formation PENROSE			
Producing Thru TBG		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro, Press - P _a 13.2		Connection NONE			
L	H	Gg .740	% CO ₂ 7.32	% N ₂ 2.11	% H ₂ S .88	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							172		172		24 HRS
1.	2	X	1/8	164		80°	164		164		1 HR
2.	2	X	1/4	150		80°	150		150		1 HR
3.	2	X	1/2	67		78°	67		130		1 HR
4.	2	X	3/4	38		76°	38		125		1 HR
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	.2648		177.2	.9813	1.162	1.109	55
2.	1.087		163.2	.9813	1.162	1.017	206
3.	4.279		80.2	.9831	1.162	1.003	393
4.	9.453		51.2	.9850	1.162	1.001	555
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio DRY GAS Mcf/bbl.		
1.	.25	540	1.39	.964	A.P. I. Gravity of Liquid Hydrocarbons DRY Deg.		
2.	.23	540	1.39	.967	Specific Gravity Separator Gas .740 XXXXXXXXXX		
3.	.11	538	1.39	.995	Specific Gravity Flowing Fluid XXXXXX		
4.	.07	536	1.39	.998	Critical Pressure *694 P.S.I.A. P.S.I.A.		
5.					Critical Temperature *387 R R		

P _c 185.2		P _c ² 34.3	
NO.	P _t ²	P _w	P _w ²
1.		177.2	31.4
2.		163.2	26.6
3.		143.2	20.5
4.		138.2	19.1
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.257}{}$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{1.253}{}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.257}{}$

Absolute Open Flow 1,253 Mcfd @ 15.025	Angle of Slope θ 45	Slope, n 1.000
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Remarks: **NO FLUID PRODUCED DURING TEST**
TEST CAL. FROM CSG. PRESSURES

Approved By Division	Conducted By: JOHN WEST ENG. CO.	Calculated By: BM	Checked By: BM
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RECEIVED

SEP 28 1993

UDD HODDS
OFFICE