

Submit in duplicate to
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

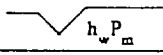
OIL CONSERVATION DIVISION

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 S.R. Cooper "A"					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5-25-95		Well No. 1			
Completion Date RE-5-25-95		Total Depth 3300		Plug Back TD 3272		Elevation		Unit Ltr. - Sec. - TWP - Rge. B 23 -24- 36			
Csg. Size 5½	Wt. 14 & 15.5#	d	Set At 3300	Perforations: From: 2776 To: 2805				County Lea			
Tbg. Size 2-7/8	Wt. 6.5	d 2.441	Set At 2690	Perforations: From: OPEN To: END				Pool Jalmat			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 2690'		Formation Tansill-Yates			
Producing Thru Tbg		Reservoir Temp. °F 95° @ 2690'		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection Sid Richardson			
L 2690	H 2690	Gg .723	% CO ₂ .18	% N ₂ 21.6	% H ₂ S	Prover		Meter Run 4.026		Taps Flg	

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							990		Pkr		24 Hours
1.	4	X	2.500	17	0.85	64	928		"		1 Hour
2.	4	X	2.500	21	3.65	61	830		"		1 Hour
3.	4	X	2.500	28	9.25	58	620		"		1 Hour
4.	4	X	2.500	28	9.25	58	462		"		1 Hour
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	32.64	5.07	30.2	.9962	1.176	1.005	195
2.	32.64	11.17	34.2	.9990	1.176	1.005	431
3.	32.64	19.52	41.2	1.002	1.176	1.005	755
4.	32.64	19.52	41.2	1.002	1.176	1.005	755
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.04	524	1.54	.991	A.P. I Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	.05	521	1.53	.991	Specific Gravity Separator Gas	.723	XXXXXXXXXX
3.	.06	518	1.52	.990	Specific Gravity Flowing Fluid	XXXXXX	
4.	.06	518	1.52	.990	Critical Pressure	*632	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*340	R R

P _c 1003.2		P _c ² 1006.4	
NO.	P _i ²	P _w	P _w ²
1.		941.3	886.0
2.		843.6	711.7
3.		635.0	403.2
4.		477.6	228.1
5.			

$$1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.668$$

$$2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.538$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.161$$

Absolute Open Flow	1.161	Mcf @ 15.025	Angle of Slope θ	50	Slope, n	.8419
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Remarks: *Corrected to 21.6% N2

Approved By Division	Conducted By:	Calculated By:	Checked By:
	West-Test, Inc.	B.M.	B.M.

RECEIVED
JUL 6 6 1995
GOVERNMENT
OFFICE