

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

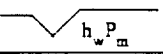
OIL CONSERVATION DIVISION

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 GREGORY "B" <i>Federal</i>					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6/14/93		Well No. 2			
Completion Date 5-30-93		Total Depth 3100		Plug Back TD 3060		Elevation 2986.6' GR		Unit Ltr. - Sec. - TWP - Rge. A 15 26 37			
Csg. Size 4½	Wt. 11.6	d 	Set At 3100	Perforations: From: 2716 To: 2998		County LEA					
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 2730	Perforations: From: To: 		Pool RHODES -YTS-7RVS-GA					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		Formation YATES			
Producing Thru TBG		Reservoir Temp. °F 101@2730		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection VENTED			
L 2730	H 2730	Gg .663	% CO ₂ 1.47	% N ₂ 2.57	% H ₂ S 	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.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI						340		338		24 HRS
1.	2	X	5/8	14	78	300		300		1 HR
2.	2	X	5/8	18	80	280		280		"
3.	2	X	5/8	20	82	267		268		"
4.	2	X	5/8	27	82	249		249		"
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.	6.473		27.2	.9831	1.228	1.002	213
2.	6.473		31.2	.9813	1.228	1.002	244
3.	6.473		33.2	.9795	1.228	1.002	259
4.	6.473		40.2	.9795	1.228	1.002	314
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcf/bbl.
1.	.04	538	1.45	.997	A.P. L Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.04	540	1.45	.997	Specific Gravity Separator Gas	.663	XXXXXXXXXX
3.	.04	542	1.46	.997	Specific Gravity Flowing Fluid	XXXXXX	
4.	.05	542	1.46	.996	Critical Pressure	*671	P.S.I.A.
5.					Critical Temperature	*371	R

P _c 353.2		P _c ² 124.8	
NO.	P _i ²	P _w	P _w ²
1.		314.0	98.6
2.		294.3	86.6
3.		281.5	79.2
4.		264.2	69.8
5.			

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.763$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .464$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.179$

Absolute Open Flow	464	Mcf @ 15.025	Angle of Slope θ	63.5	Slope, n	.499
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Remarks: *** CORRECTED TO 1.47% CO2 & 2.57 % N2**

NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By: JOHN WEST ENGINEERING	Calculated By: B MURRAY	Checked By: B MURRAY
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