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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 STATE "A" 20					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9/2/93		Well No. 3			
Completion Date 8/7/93		Total Depth 3740'		Plug Back TD 3698'		Elevation 3510'		Unit Ltr. - Sec. - TWP - Rge. P 20 - 25 - 37E			
Csg. Size 4 1/2		Wt. d		Set At 3738		Perforations: From: 3459 To: 3591		Country 205			
Tbg. Size 2 3/8		Wt. 4.7		Set At 1.995 3440		Perforations: From: To:		Pool LEA			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		Formation QUEENS			
Producing Thru TBG		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection VENTED			
L 3440		H 3440		Gg .766		% CO ₂ 4.62		% N ₂ 1.92		% H ₂ S 2"	
Prover 2"		Meter Run		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.	
SI						74	79		78	
1.	2	X	.125	77		85	78		77	1 HR
2.	2	X	.250	75		81	76		73	1 HR
3.	2	X	.500	53		81	54		63	1 HR
4.	2	X	.750	28		79	33		54	1 HR
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.	.2648		90.2	.9723	1.143	1.005	27
2.	1.087		88.2	.9741	1.143	1.005	107
3.	4.279		66.2	.9943	1.143	1.005	324
4.	9.453		41.2	1.025	1.143	1.006	459
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	DRY GAS	Mcft/bbl
1.	.13	545	1.35	.990	A.P. I Gravity of Liquid Hydrocarbons	DRY	Deg.
2.	.13	541	1.34	.990	Specific Gravity Separator Gas	.766	XXXXXXXXXX
3.	.10	541	1.34	.989	Specific Gravity Flowing Fluid	XXXXXX	
4.	.08	539	1.34	.989	Critical Pressure	*683	P.S.I.A. P.S.I.A.
5.					Critical Temperature	*401	R R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²	1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	92.2	8.5	8.1	.40	21.25	21.25
2.	86.2	7.4	1.10			
3.	76.2	5.8	2.90			
4.	67.2	4.5	4.00			
5.						

Absolute Open Flow				Angle of Slope		Slope, n	
573 Mcfd @ 15.025				45		1.000	

Remarks: * CORRECTED TO 4.62% CO₂ and 1.92% N₂
* NO FLUID PRODUCED DURING TEST

Approved By Division	Conducted By: JOHN WEST ENGINEERING	Calculated By: GW	Checked By: BM
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SEP 11 1954

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