

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP O BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9/26/91		JUL OCT 3 1991	
Company MERIDIAN OIL INC.				Connection EPNG		OIL CON. DIV.	
Pool ANGEL PEAK				Formation GALLUP		Unit DIST. 3	
Completion Date 5/20/85		Total Depth		Plug Back TD 6510		Elevation 6576	
Farm or Lease Name HUERFANO UNIT				Well No. 194E			
Csc. Size 4.500	Wt. 10.5	d 4.052	Set At 6691	Perforations: From 5752 To 5955		Well No. 194E	
Tng. Size 2.375	Wt. 4.7	d 1.995	Set At 5960	Perforations: From To		Unit Sec. Twp. Rge. N 16 26N 10W	
Type Well - Single - Airhead - G.G. or G.C. Multiple Single				Packer Set At		County San Juan	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g 12.2	
						State New Mexico	
L	H	C _g .700	% CO ₂	% N ₂	% H ₂ S	Prover	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	2.375		.750				110	66°	498		
1.							101	67°	393		15 min.
2.							62	66°	366		30 min.
3.							39	67°	334		1 hr.
4.							27	66°	312		2 hrs.
5.							19	66°	306		3 hrs.

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, Fpv	Rate of Flow Q, Mcfd
1	12.365		31.2	1.000	.9258	1.000	357.16
2.							
3							
4.							
5.							

NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

P _c 510.2 P _c ² 260304.04			
NO	P _i ²	P _w	P _w ² P _c ² - P _w ²
1		318	101251.24 159052.8
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.6366$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4470$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 516.79$$

Absolute Open Flow	516.79	Mcf @ 15.025	Angle of Slope @	Slope, n 0.75
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Remarks: _____

Approved By Division	Conducted By: Dwayne Horton	Calculated By: Bill Huntington	Checked By:
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