

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 04-08-91			
Company Chevron U.S.A.				Connection Vented					
Pool				Formation Eumont				Unit	
Completion Date 04-02-91		Total Depth 3778		Plug Back TD 3726		Elevation 3509		Farm or Lease Name A.B. Reeves	
Csg. Size 5 1/2	Wt. 17	d 1.995	Set At 3773	Perforations: From 3417 To 3658		Well No. 4			
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3367	Perforations: From To		Unit Sec. Twp. Rge. 29-20-37			
Type Well - Single - Brownhead - G.G. or G.O. Multiple Single						Packer Set At 3367		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 108 3367		Mean Annual Temp. °F 60		Bato. Press. - P _g 13.2		State New Mexico	
L 3367	H 3367	G ₁ .711	% CO ₂ 4.17	% N ₂ 2.19	% H ₂ S --	Prover	Meter Run 2.067	Taps Flange	

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							212				72 hrs.
1.	2	X	1.250	46	9.00	65	199				45 mins.
2.	2	X	1.250	44	14.00	67	189				45 mins.
3.	2	X	1.250	45	19.00	67	178				45 mins.
4.	2	X	1.250	46	21.00	67	165				1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	8.120	23.08	59.2	.9952	1.186	1.003	222
2	8.120	28.30	57.2	.9933	1.186	1.003	272
3	8.120	33.25	58.2	.9933	1.186	1.003	319
4	8.120	35.26	59.2	.9933	1.186	1.003	338
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		A.P.I. Gravity of Liquid Hydrocarbons		Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure * 682	Critical Temperature * 382
					DRY GAS	Mcfd/bbl.	DRY	Deq.				
1.	.08	525	1.37	.995					XXXXXX			
2.	.08	527	1.37	.995					XXXXXX			
3.	.08	527	1.37	.995					XXXXXX			
4.	.08	527	1.37	.995					XXXXXX			
5.												

NO.	P _t	P _w	P _u	P _t ² - P _w ²
1	213.8	45.7	5.0	
2	204.8	41.9	8.8	
3	195.0	38.0	12.7	
4	182.7	33.4	17.3	
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 10.14$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.184$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .707$

P_c 225.2 P_c² 50.7

Absolute Open Flow	707	Mcfd @ 15.025	Angle of Slope →	63.5	Slope, n	.500
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Remarks: NO FLUID PRODUCED DURING TEST

*=corrected to 4.17% CO₂ & 2.19% N₂

Approved By Division	Conducted By:	Calculated By:	Checked By:
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