

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST OF GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 3-6-75	
Company: CONTINENTAL OIL CO			Connection: NONE		
Pool: UNDESIGNATED			Formation: MORROW		Unit: BELL LAKE
Completion Date: 3-6-75		Total Depth: 13,589	Plug Back TD: 13483	Elevation: 3474 DF	Farm or Lease Name: BELL LAKE UNIT 4
Csg. Size: 5 1/2" LINER	Wt.: 33.7439	Set At: 11900	Perforations: 11,785 to 13,483 from 13,303 to 13,313		Well No.: 15
Tbg. Size: 2 7/8	Wt.: 6.50	Set At: 2441	Perforations: 13180	From: To: 	Unit: K Sec. 8 Twp. 23S Rge. 34E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 13,180	County: LEA
Producing Thru: TUBING		Reservoir Temp. °F: 200 @ 13,308	Mean Annual Temp. °F: 	Baro. Press. - P _g : 15.025	State: NEW MEXICO
L: 	H: 	Gg: 	% CO ₂ : 	% N ₂ : 	% H ₂ S:
				Prover: 	Meter Run: 4" Taps: FLG

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							6072	73°	PRR		0
1.	4.036 x 1.250			446	13.9	87°	5680	73°			1.750
2.	4.026 x 1.250			452	33.0	102°	5390	74°			1.50
3.	4.026 x 1.250			454	56.0	104°	5100	74°			1.50
4.	4.026 x 1.250			454	89.6	105°	4725	74°			1.50
5.											

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	7.469	82.53	446	.9750	1.266	1.035	760
2	7.469	123.45	452	.9618	1.266	1.035	1,162
3	7.469	161.05	454	.9602	1.266	1.035	1,513
4	7.469	204.67	454	.9592	1.266	1.035	1,921
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 1305 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons 47.2 Deg.
2.					Specific Gravity Separator Gas .624 XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _c 7647.5	P _c ² 58,484	P _w	R _w ²	P _c ² - R _w ²	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 9.120$	(2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 6.220$
1			* 7216.0	52071	6413		
2			6900.3	47614	10870		
3			6575.1	43232	15252		
4			6152.1	37848	20636		
5							

AOFP = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 4,708$ MCF

Absolute Open Flow 4,708 Mcfd @ 15.025	Angle of Slope θ _____	Slope, n .829
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Remarks: _____

Approved By Commission:	Conducted By: W.E. TUCKER	Calculated By: W.E. TUCKER	Checked By: V. OBADOH
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