

NE MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

JUN 27 1966

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date / /	
Company Standard Oil Co. of Texas		Connection Marathon Oil Company	
Pool Indian Basin (Upper Penn)		Formation Cisco Canyon	
Completion Date 6-20-65		Total Depth 11,017	
Plug Back TD 7590		Elevation 4084 Gr	
Farm or Lease Name Bogle Flats Unit		Unit Bogle Flats	
Csg. Size 7	Wt. 26	Id 6.276	Set At 7692
Perforations: From 7039 To 7143		Well No. 2	
Tbg. Size 2 7/8	Wt. 6.5	Id 2.441	Set At 6936
Perforations: From None To		Unit Sec. Twp. Rge. J 4 22S 23E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 6925	
Producing Thru Tubing		Reservoir Temp. °F 132° 7039	
Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico		County Eddy	
L 7039	H 7039	Gg .623	% CO ₂ .58
% N ₂ .91	% H ₂ S .21	Prover 3.065	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							2331	60	Packer		23.25 Hrs
1.	3.068 x 1.375			7.5	5.0	59	2313	65			70 Min.
2.	3.068 x 1.625			7.4	5.6	67	2288	71			95 Min.
3.	3.068 x 1.625			7.5	7.7	68	2256	72			95 Min.
4.	3.068 x 1.625			7.5	8.9	70	2234	76			125 Min.
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	41.36	37.50	1125.0	1.001	1.267	1.100	2,164
2	59.21	41.44	1095.2	.9933	1.267	1.092	3,372
3	59.21	57.75	1125.0	.9924	1.267	1.093	4,699
4	59.21	66.75	1125.0	.9905	1.267	1.093	5,421
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	Critical Temperature
1	1.67	519	1.45	.826	184.7 Mcf/bbl.	58.2 Deg.	.623	XXXXXXX	673 P.S.I.A.	364 R
2	1.62	527	1.47	.838				XXXXXXX		
3	1.67	528	1.48	.837						
4	1.67	530	1.48	.837						
5										

P _c 2344.2	P _c ² 5,495.3	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 23.099$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 8.977$
NO	P _t ²	P _w	P _w ²
1	2334.9	5,451.8	43.5
2	2318.8	5,376.8	118.5
3	2302.9	5,303.3	192.0
4	2292.9	5,257.4	237.9
5			

Absolute Open Flow		48,660 Mcfd @ 15.025	Angle of Slope θ	Slope, n .699
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Remarks: *Contains a Factor of 4.472 for a 100" x 2000 psi L-10 Chart	
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Approved By Commission:	Conducted By: D. Jones	Calculated By: R. W. Harrington	Checked By:
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