

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

Form C-122
Revised 9-1-65

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Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 6-14-66		JUL 5 1966	
Company Standard Oil Company of Texas				Connection Marathon Oil Company		C. O. C.	
Pool Indian Basin (Upper Penn)				Formation Cisco Canyon		Unit Bogle Flats	
Completion Date 10-22-65		Total Depth 7550		Plug Back TD 7350		Elevation 4214 Gr	
Farm or Lease Name Bogle Flats Unit		Well No. 6					
Cap. Size 7	Wt. 26	d 6.276	Set At 7550	Perforations: From 7064 To 7225		Unit Sec. Twp. Rge. G 8 22S 23E	
Tag. Size 2	Wt. 4.7	d 1.995	Set At 7037	Perforations: From None To			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 7025		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 132@ 7037		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 7067	H 7037	Gg .625	% CO ₂ .56	% N ₂ .96	% H ₂ S .37	Prover	Meter Run 3.068
						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
5.							2318	60			24.5 Hrs
1.	3.068 x 1.625			7.3	3.6	78	2288	78			90 Min
2.	3.068 x 1.625			7.35	5.2	77	2264	77			90 Min
3.	3.068 x 1.625			7.4	7.4	66	2207	66			90 Min
4.	3.068 x 1.625			7.3	9.3	70	2156	70			90 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.	59.21	26.28	1065.8	.9831	1.265	1.106	2,140
2.	59.21	38.22	1080.5	.9840	1.265	1.107	3,118
3.	59.21	54.76	1095.2	.9943	1.265	1.120	4,568
4.	59.21	67.16	1065.8	.9905	1.265	1.113	5,546
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	91.50 Mcf/bbl.
1.	1.53	538	1.42	.818	A.P.I. Gravity of Liquid Hydrocarbons	58 Deg.
2.	1.48	537	1.42	.816	Specific Gravity Separator Gas	.625 XXXXXXXXXX
3.	1.42	526	1.39	.797	Specific Gravity Flowing Fluid	XXXXXX .657
4.	1.51	530	1.40	.807	Critical Pressure From Analysis	675.0 P.S.I.A. 673 P.S.I.A.
5.					Critical Temperature From Analysis	378.0 R 371 R

NO.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 52.97$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 23.57$
1.	2320.9	5,386.6	47.9		
2.	2320.9	5,386.6	47.9		
3.	2313.4	5,351.8	82.7		
4.	2309.1	5,331.9	102.6		
5.					

Absolute Open Flow				130,700 Mcfd @ 15.025	Angle of Slope ϕ	Slope, n .796
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Remarks: *Contains a Meter Factor of 4,472 for a 100" x 2000 psi L-10 Chart.
Calculated with a Continuous Operation Electronic Calculator, using 7 decimal places.

Approved By Commission:	Conducted By: D. F. Jones	Calculated By: R. W. Harrington	Checked By:
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