

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special					Test Date 5-30-66		JUN 13 1966	
Company Standard Oil Co. of Texas			Connection Marathon Oil Company					
Pool Indian Basin (Upper Penn)			Formation Cisco Canyon			Unit O. C. C. ARTEZIA, OFFICE		
Completion Date 3-1-65		Total Depth 7880		Plug Back TD 7825		Elevation 4039 KB		Farm or Lease Name Bogle Flats
Csq. Size 5 1/2	Wt. 17	d 4.892	Set At 7880	Perforations: From 7269 To 7381		Well No. 1		
Tbg. Size 2	Wt. 4.7	d 1.995	Set At 7206	Perforations: From To		Unit G	Sec. 3	Twp. Rge. 22S 23E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 7200		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 132@ 7206		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 7206	H 7206	Gg .625	% CO ₂ .59	% N ₂ .85	% H ₂ S .07	Prover	Meter Run X	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.	
SI							2348	60	Packer	
1.	3.068 x 1.625			7.4	4.0	74	2293	75	Packer	1.5 Hr.
2.	3.068 x 1.625			7.4	5.4	69	2265	78	Packer	1.5
3.	3.068 x 1.625			7.4	7.7	74	2200	78	Packer	1.5
4.	3.068 x 1.625			7.4	8.9	76	2156	84	Packer	1.5
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	59.2093	29.6000	1,095.2	.9868	1.265	1.088	2,380
2	59.2093	39.9600	1,095.2	.9915	1.265	1.090	3,235
3	59.2093	56.9800	1,095.2	.9868	1.265	1.088	4,582
4	59.2093	65.8600	1,095.2	.9850	1.265	1.085	5,272
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 87.9 Mcf/bbl.
1	1.62	534	1.49	.845	A.P.I. Gravity of Liquid Hydrocarbons 60.3 Deg.
2.	1.62	529	1.48	.841	Specific Gravity Separator Gas .625 X X X X X X X X
3.	1.62	534	1.49	.845	Specific Gravity Flowing Fluid X X X X X .658
4.	1.62	536	1.50	.849	Critical Pressure From Analysis = 675.6 P.S.I.A. 673 P.S.I.A.
5.					Critical Temperature From Analysis = 357.8 R 371 R

P _c 2361.2 P _c ² 5575.3				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \underline{20.573}$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \underline{17.848}$
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	
1		2332.0	5,438.2	137.1	
2		2326.3	5,411.7	163.6	
3		2311.7	5,344.0	231.3	
4		2303.1	5,304.3	271.0	
5					

Absolute Open Flow 94,095 Mcfd @ 15.025			Angle of Slope Θ .953
Remarks: *Contains a Meter Factor of 4.472 for a 100" x 2000 psi L-10 Chart			
Approved By Commission:	Conducted By: J. N. Casparis	Calculated By: R. W. Harrington	Checked By: