

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 11-16-70					
Company Marathon Oil Company					Connection					
Pool South Blanco Pictured Cliffs					Formation Pictured Cliffs					
Completion Date 11-6-70			Total Depth		Plug Back TD 2942 PBTD 2877 Fill up sand		Elevation 6515KB		Farm or Lease Name Jicarilla Apache	
Csq. Size 4.5	Wt. 10.5	d 4.052	Set At 2982	Perforations: From 2826 To 2877			Well No. 15			
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 2811	Perforations: From To			Unit Sec. Twp. Rge. G 33 26 5			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single gas					Packer Set At		County Rio Arriba			
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12		State New Mexico		
L	H	Gg .650	% CO ₂	% N ₂	% H ₂ S	Prover X	Meter Run	Taps		

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							689		691		
1.	2 x 3/4						227	60	520		3 hours
2.											
3.											
4.											
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	12.3650		239	1.0000	.9608	1.025	2906 2910
2.							
3.							
4.							
5.							

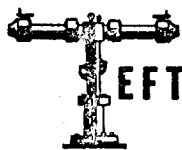
NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons <td>Deg.</td>	Deg.
2.					Specific Gravity Separator Gas <td>XXXXXX</td>	XXXXXX
3.					Specific Gravity Flowing Fluid <td>XXXXXX</td>	XXXXXX
4.					Critical Pressure <td>P.S.I.A.</td>	P.S.I.A.
5.					Critical Temperature <td>R</td>	R

$P_c = 707 \text{ } 703 \text{ } P_c^2 = 499401 \text{ } 494209$					$\frac{P_c^2}{P_c^2 - P_w^2} = \frac{2.3402}{2.3678}$	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{2.0600}{2.0806}$
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		532	283024	207377		
2				211,185		
3						
4						
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6046 \text{ } 5995$

Absolute Open Flow	6046 5995	Mcfd @ 15.025	Angle of Slope @	Slope, n	0.85
Remarks:					

Approved By Commission: DEC 2 1970	Conducted By: Archie Hughes	Calculated By: Neil Tefteller	Checked By: P. J. Patterson MARATHON OIL CO.
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EFTTELLER, INC.

reservoir engineering data
MIDLAND, TEXAS

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File 4-4029-A0F

Company MARATHON OIL COMPANY Lease JICARILLA APACHE Well No. 15
Field SOUTH BLANCO PICTURED CLIFFS County RIO ARriba State NEW MEXICO
Formation PICTURED CLIFFS Test Date NOVEMBER 16, 1970

Status of Well Shut in 96 hours

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	689	
1000	708	.019
2000	729	.021
2400	737	.020
2600	741	.020
2800	745	.020
2851 *	746	.020

* Mid-Perforation

Datum Pressure Psig

PRESSURE POUNDS PER SQUARE INCH GAUGE

