

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

C/SF
122
File
Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10-23-80		10/25/1980	
Company Threshold Development Co.				Connection Transwestern Pipeline				
Pool Turkey Track Morrow				Formation Morrow				Unit -
Completion Date 10-12-80		Total Depth 11,700'		Plug Back TD 11,602'		Elevation 3378.5' GR		Form or Lease Name Conoco 10"A" State
Csg. Size 5-1/2"	Wt. 17#	d 4.767	Set At 11,682'	Perforations: From 11,296' To 11,308'			Well No. 1Y	
Tub. Size 2-1/16"	Wt. 3.25#	d 1.657	Set At 11,130'	Perforations: From 11,124' To 11,127'			Unit Sec. Twp. Rge. F 10 19S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual gas				Packer Set At 11,100'		County Eddy		
Producing Thru Tubing		Reservoir Temp. °F 174 @ 11,302		Mean Annual Temp. °F 68		Baro. Press. - P _a 13.2		State New Mexico
L 11,130'	H 11,130'	G _g .700	% CO ₂	% N ₂	% H ₂ S None	Prover	Meter Run 2"	Tags 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	
51	2 x 1.250			2821			4020	72	Packer		72 hr.
1.	2 x 1.250			2070	15	40	2821	74	Packer		1 hr.
2.	2 x 1.250			1880	22	38	2344	76	Packer		1 hr.
3.	2 x 1.250			1740	30	42	1862	76	Packer		1 hr.
4.	2 x 1.250			1150	34	44	1605	76	Packer		1 hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mscf
1	8.319	86.6	513.2	1.0198	.9258	1.084	737
2	8.319	107	533.2	1.0219	.9258	1.084	913
3	8.319	132	593.2	1.0178	.9258	1.095	1132
4	8.319	143	613.2	1.0157	.9258	1.092	1220
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ 163,235 _____ Mcf/Lbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ 61 _____ Deg.
2.					Specific Gravity Separator Gas _____ .700 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _t 4033.2 P _w ² 16266					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.120$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.008$	
NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²				
1		2834.2	8032	8234				
2		2357.2	5559	10707				
3		1875.2	3516	12750				
4		1318.2	1738	14528				
5								

Absolute Open Flow _____ 1350.6 _____ Mscf @ 15.025			Angle of Slope θ _____ 48°		Slope, n _____ 900	
Remarks: _____						
Approved By Completion: _____ Conducted By: _____ Calculated By: _____ Checked By: _____						
C. Allen Dorsey Wireline C. Allen Dorsey Wireline Meyer, Moritz & Co.						