

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

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O. C. D.

ARTESIA OFFICE

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special 5/28/87											
Company Terra Resources, Inc.						Connection Transwestern Pipeline					
Well Diamond Mound						Formation Atoka					
Completion Date 5-25-87			Total Depth 9555'			Plug Back TD 9467'			Elevation 3642.7		
Farm or Lease Name Pennzoil "9"			Well No. Federal #1			Unit C			Sec. 9 Twp. 16S Rge. 28E		
Csg. Size 5 1/2			Wt. 17			d 4.892			Set At 9555		
Perforations: From 8972 To 9046			Perforations: From 8850 To 8850			Perforations: From 8850 To 8850			Perforations: From 8850 To 8850		
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single						Packer Set At 8865			County Eddy		
Producing Thru Tubing			Reservoir Temp. °F 143			Mean Annual Temp. °F 60			Baro. Press. - P ₀ 15.025		
State New Mexico			L 9009			H 9009			Gg 0.743		
% CO ₂ 0.36			% N ₂ 2.57			% H ₂ S 0.00			Prover 0.0		
Meter Run 4.0			Taps Flange								
FLOW DATA											
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	Duration of Flow
SI							2105	70			72.0
1.	4.03 X 1.250			300	7.8	83	1808	71	0.00	0.00	3.0
2.	4.03 X 1.250			300	20.0	84	1679	73	0.00	0.00	2.2
3.	4.03 X 1.250			300	30.0	84	1514	71	0.00	0.00	3.0
4.	4.03 X 1.250			300	52.0	84	1152	72	0.00	0.00	2.0
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	7.47	49.43	313.2	0.9786	1.1601	1.0346	434				
2	7.47	79.15	313.2	0.9777	1.1601	1.0343	693				
3	7.47	96.93	313.2	0.9777	1.1601	1.0343	849				
4	7.47	127.62	313.2	0.9777	1.1601	1.0343	1118				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 0.0000 Mcf/bbl.						
1	0.47	543	1.37	.934	A.P.I. Gravity of Liquid Hydrocarbons 0.0 Deg.						
2	0.47	544	1.38	.935	Specific Gravity Separator Gas 0.743 XXXXXXXXXX						
3	0.47	544	1.38	.935	Specific Gravity Flowing Fluid XXXXX 0.743						
4	0.47	544	1.38	.935	Critical Pressure 662 P.S.I.A. 662 P.S.I.A.						
5					Critical Temperature 396 R 396 R						
P _c 2105.4 P _c ² 4433											
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4456$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3193$						
1		1807	3265	1168	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1475$						
2		1679	2820	1613							
3		1520	2311	2122							
4		1169	1366	3066							
5											
Absolute Open Flow 1475 Mcfd @ 15.025 Angle of Slope θ 53.1 Slope, n 0.752											
Remarks:											
Approved By Commission: Conducted By: Calculated By: Checked By:											

clsr. file

Post ID-2
12-11-87
Comp & BK