

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

Form C-122
Revised 9-1-65

RECEIVED

JUN 4 1979

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-3-79			
Company Southland Royalty Company				Connection Undesignated			O.C.C. ARTESIA, OFFICE	
Pool <i>Turkey Track morrow</i> Undesignated				Formation Morrow			Unit	
Completion Date 3-29-79		Total Depth 11740'		Plug Back TD 11535'		Elevation 3324'		Farm or Lease Name Parkway A State Com.
Csg. Size 4.500	Wt. 11.6	d 4.000	Set At 11740'	Perforations: From 11177' To 11185'			Well No. 1	
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 10998'	Perforations: From 0 To 0			Unit Sec. Twp. Rge. H 15 19 29	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10998'			County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 152 @ 11181'		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State New Mexico
L 11181'	H 11181'	G _g 0.691	% CO ₂ 0.37	% N ₂ 0.70	% H ₂ S 0	Prover 0	Meter Run 2.1	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
SI							3280	60			36.0
1.	2.07 x 1.250			297	5.4	65	2970	59	0	0	1.0
2.	2.07 x 1.250			350	14.8	62	2620	59	0	0	1.0
3.	2.07 x 1.250			350	27.4	60	2250	60	0	0	1.0
4.	2.07 x 1.250			359	39.8	58	1915	58	0	0	1.0
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	8.12	40.93	310.2	0.9952	1.2028	1.0346	412
2	8.12	73.32	363.2	0.9981	1.2028	1.0417	745
3	8.12	99.76	363.2	1.0000	1.2028	1.0423	1016
4	8.12	121.71	372.2	1.0019	1.2028	1.0440	1243
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.46	525	1.37	0.934	107.0 Mcf/lbl.	57.0 Deg.	0.691	X X X X X X X X	667 P.S.I.A.	392 R
2	0.54	522	1.36	0.922				0.716		
3	0.54	520	1.35	0.920						
4	0.56	518	1.35	0.918						
5										

P _c 3293.2 P _c ² 10845					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.5348$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4377$	
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²				
1	8899	2989	8936	1909				
2	6934	2642	6978	3867				
3	5122	2272	5162	5683				
4	3718	1944	3779	7066				
5								

Absolute Open Flow 1788 Mcfd @ 15.025					Angle of Slope @ 49.7		Slope, n 0.847	
Remarks:								

Approved By Commission:	Conducted By: B.J. TESTING	Calculated By: X D.R. CRAIG	Checked By: D.R. CRAIG
-------------------------	-------------------------------	--------------------------------	---------------------------