

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

RECEIVED BY *955*
Form C-122
Revised 5-1-66
OCT 31 1984
O. C. D.
ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-4-84			
Company SOUTHLAND ROYALTY CO.				Connection TO AIR			
Pool TURKEY TRACK (MORROW)				Formation MORROW		Unit G#	
Completion Date 9-26-84		Total Depth 11450.		Plug Back TD 11400.		Elevation 3371.	
Form or Lease Name PARKWAY ST 17 COM				Well No. 1			
Csg. Size 4.500		Wt. 11.6		Set At 4.000		11450.	
Perforations: From 11164. To 11178.		Perforations: From 11196. To 11220.		Unit G		Sec. Twp. Rge. 17 19S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11065.		County EDDY		State NEW MEXICO	
Producing thru TUBING		Reservoir Temp. °F 220.		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2	
L 11192.		H 11192.		C _g 0.654		% CO ₂ 0.53	
				% N ₂ 0.33		% H ₂ S 0.00	
				Prover 0.0		Meter Run 3.1	
				Taps FLANGE			

FLOW DATA						TUBING DATA		BHP 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.		Choke
SI							2247.	78.	3163		72.0
1.	3.07 X	1.250	220.	4.0	100.	2082.	78.	2950	4/64	1.0	
2.	3.07 X	1.250	220.	11.2	76.	1990.	79.	2812	6/64	1.0	
3.	3.07 X	1.250	220.	21.0	80.	1675.	79.	2390	8/64	1.0	
4.	3.07 X	1.250	220.	31.0	74.	1408.	80.	2010	10/64	1.0	
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 _{sp}	Rate of Flow Q, Mcfd
1	7.58	30.54	233.2	0.9636	1.2365	1.0183	281.
2	7.58	51.11	233.2	0.9850	1.2365	1.0217	482.
3	7.58	69.98	233.2	0.9813	1.2365	1.0213	657.
4	7.58	85.02	233.2	0.9868	1.2365	1.0219	803.
5							

NO.	R	Temp. °R	T _g	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	0.35	560.	1.50	0.964	23.2	60.0	0.654	XXXXXXX	672.	374.
2	0.35	536.	1.43	0.958				XXXXX		
3	0.35	540.	1.45	0.959						
4	0.35	534.	1.43	0.958						
5										

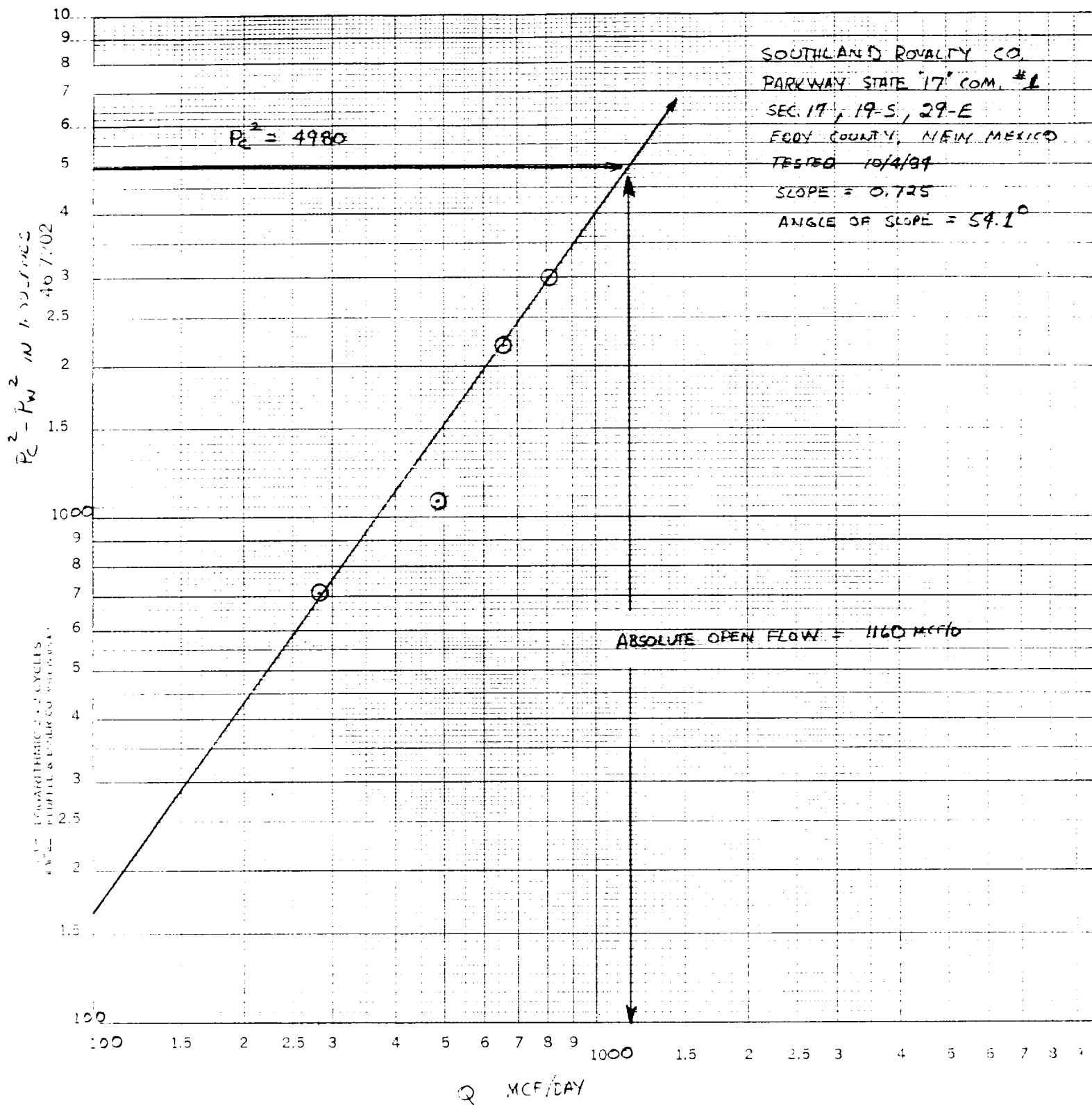
NO.	P ₁ ²	P _w ²	P _w ²	P _c ² - R _w ²
1	4390.	2068.	4276.	704.
2	4013.	1977.	3908.	1072.
3	2850.	1667.	2778.	2202.
4	2020.	1407.	1980.	3000.
5				

(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 1.6601$ (2) $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1.4438$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 1160.$

Bottom hole pressures measured with Amerada bombs.

Approved By Commission: _____ Conducted By: Bennett & Cathey, Inc. Calculated By: Darrell Roberts Checked By: DDR



BENNETT-CATHER WIRE LINE SERVICE

ARTESIA, NEW MEXICO 88210
Phone (505) 748-3354

SUGGESTED FIELD DATA SHEET (NOT REQUIRED TO BE FILED)

Type Test 4 POINT ☐ Initial ☐ Annual ☐ Special		Test Date 10-4-84		1980 FNL	
Company SOUTHLAND ROYALTY		Connection		1980 FEL	
Picol		Formation MORROW		Unit	
Completion Date 9-26-84		Total Depth		Farm or Lease Name PARKWAY "17" ST, COM	
Csg. Size 4.5		Set At 11,450		Elevation GL 3357	
Tbg. Size 2 3/8		Set At 11,063		Well No. #1	
Type Well - Single - Gradienthead - G.G. or G.O. Multiple		Packer Set At 11,065		County EDDY	
Producing Thru		Reservoir Temp. °F		State NEW MEXICO	
Mean Annual Temp. °F		Buro. Press. - P _a		L H Gg % CO ₂ % H ₂ % H ₂ S Prover Meter Run Taps	
COMPANY REP.		TEST RUN BY:		TIME ARRIV.	
MILEAGE		LEAVE:		ARRIV.:	
TOTAL MILEAGE ONE WAY					
DATE	ELAP	WELLHEAD PRESS.		METER OR PROVER	
TIME OF	HOUR	TBG	CAG	CHOKE	PRES
READING		PSIG	PSIG		PSI
					DIFF.
					TEMP.
					F
					ORIF.
					SIZE
					MCFD
					TOP
					FLUID
					CUT
					H ₂ O
					COND.
					MADE
					H ₂ O
					MADE
1218	SIP	2247			
1410	0	2247			
1425	1/4	2076			
1440	1/2	2053			
1455	3/4	2068			
1510	1	2078			
1525	1 1/4	2083			
1540	1 1/2	2084			
1555	1 3/4	2085			
1610	2	2087		4/64	220
1625	2 1/4	2089		4/64	220
1640	2 1/2	2082		4/64	220
					4.0
					268
1655	2 3/4	2027		6/64	220
1710	3	2004		6/64	220
1725	3 1/4	1992		6/64	220
1740	3 1/2	1990		6/64	220
					11.25
					460
1755	3 3/4	1821		8/64	230
1810	4	1735		8/64	230
1825	4 1/4	1700		8/64	230
1840	4 1/2	1675		8/64	230
					21.0
					640
1855	4 3/4	1543		10/64	230
1910	5	1467		10/64	230
1925	5 1/4	1430		10/64	230
1940	5 1/2	1408		10/64	230
					31.0
					782
					4 BBLS CONDENSATE
					API 60 @ 60°

Casper, WY 82601

Run No. 1005-5
Date Run 10/05/84
Date Sampled 10/03/84

Lease: <u>Parkey 17 St. #1</u>	Producer <u>Southland Royalty</u>
Location <u>Burton Flats</u>	County <u>Eddy</u> State <u>New Mexico</u>
Purpose _____	Sampled By <u>B & C Wireline</u>
Sampling Temp. <u>74</u> °F	Atmos Temp. <u>72</u> °F
Volume/day <u>1500 MCF/Day</u>	Formation <u>Morrow</u>
Pressure on Bomb <u>230</u>	PSIG; Line Pressure <u>243.2</u> PSIA PSIG

Press. Base: 14.73

Calculated By Jeffrey A. Propp

Ethane + GPM	3.157
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Remarks: