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File ✓
Form C-122
Revised 9-1-65

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

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 1/5/80		JAN 10 1980	
Company: Anadarko Production Co.				Location: Llano Inc.				Unit: O. C. D.	
Field: North Turkey Track				Formation: Morrow				Artesia, Office	
Completion Date: 10/22/79		Total Depth: 11300'		Plug back To: 11219'		Elevation: 3424' KB-15		Lease or Leasehold: State AB Com	
Casing Size: 4 1/2"	Wt.: 11.6	ID: 4.000	Set At: 11278'	Perforations: From 10962' To 10994'		Well No.: 1		Unit: Ser. Twp. Rge.	
Tub. Size: 2 3/8"	Wt.: 4.7	ID: 1.995	Set At: 10766'	Perforations: Open Ended To		H: 36 18s 28e		County: Eddy	
Type Well - Single - Provenhead - G.G. or G.O. Multiple				Packer Set At: 10766'		State: New Mexico		State: New Mexico	
Producing Thru: Tubing		Reservoir Temp. °F: 208 @ 10784		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2		State: New Mexico	
L: 10978	H: -	G _g : 0.6272	% CO ₂ : 0.618	% N ₂ : 0.567	% H ₂ S: 0.000	Prover:	Meter Run: 3	Type: Flg.	

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	Duration of Flow
51							3207 DWT		PACKER		89.5 hrs.
1.	3 4/64	1.250		520	3	70	3070	61			1.0 hrs.
2.	3 8/64	1.250		520	12	71	2860	65			1.0 hrs.
3.	3 12/64	1.250		520	42	73	2270	63			1.0 hrs.
4.	3 15/64	1.250		540	71	73	1820	66			1.0 hrs.
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 _{sp}	Rate of Flow Q, Mgd
1	7.469	39.99	533.2	0.9905	1.263	1.045	390.47
2	7.469	79.98	533.2	0.9896	1.263	1.045	780.23
3	7.469	149.65	533.2	0.9877	1.263	1.044	1455.69
4	7.469	198.18	553.2	0.9877	1.263	1.046	1931.45
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	0.79	530	1.47	0.915	A.P.I. Gravity of Liquid Hydrocarbons	-	Req.
2.	0.79	531	1.47	0.915	Specific Gravity Separator Gas	0.6272	X X X X X X X X
3.	0.79	533	1.48	0.917	Specific Gravity Flowing Fluid	X X X X X	
4.	0.82	533	1.48	0.914	Critical Pressure	674	P.S.I.A. - P.S.I.A.
5.					Critical Temperature	361	R - R

NO.	P _c ²	P _w *	P _w ²	P _c ² - P _w ²
1	-	3971.2	15770.4	1304.7
2	-	3701.2	13698.9	3376.2
3	-	2987.2	8923.4	8151.7
4	-	2395.2	5737.0	11338.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 13.087$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.608$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2580$

Absolute Open Flow: 2580

Mold @ 15.025

Angle of Slope: 53° 43'

Slope, n: 0.734

Remarks: BOTTOM HOLE PRESSURE @ (-7374) 10978' USED FOR PRESSURE CALCULATIONS

Approved by Commission:	Conducted By: JARREL SERVICES, INC.	Calculated By: Joe A. Coleman	Checked By: Joe A. Coleman
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