

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

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Form C-122
Revised 9-1-65

RECEIVED

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 3-5-74		MAR 21 1974	
Company INEXCO OIL COMPANY				Connection SOUTHERN UNION GAS COMPANY			
Pool CATCLAW DRAW MORROW				Formation MORROW B, B-2, B-3, C-2 & D		Unit D. C. C. ARTESIA, OFFIC NONE	
Completion Date 8-3-72		Total Depth 10,800'		Plug Back TD 10,759'		Elevation 3110' GL	
Farm or Lease Name MCMINN STATE COM.							
Csg. Size 5 1/2"	Wt. 17#	d 4.892	Set At 10,800'	Perforations: From 10,460' To 10,724'		Well No. 1	
Tbg. Size 2 7/8"	Wt. 6.5#	d 2.441	Set At 10,364'	Perforations: From To		Unit Sec. Twp. Rge. K 18, 21S, 26E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. MULTIPLE (UPPER ZONE TEMP. ABDN.)				Packer Set At 10,364'		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 172° @ 10,730'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO							
L 10364	H 10364	G _g 0.582	% CO ₂ .71	% N ₂ .43	% H ₂ S -----	Prover	Meter Run 4"
						Taps FLANGE	

FLOW DATA (L-10 CHART)							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							2665.0		PKR.	CHOKE	24 HRS.
1.	4"	x	1.500"	8.40	1.00	7.00	2632.0	63		9/64	1.0"
2.	4"	x	1.500"	8.40	3.45	7.40	2445.0	68		11/64	1.0"
3.	4"	x	1.500"	8.40	5.30	6.90	2217.0	70		13/64	1.0"
4.	4"	x	1.500"	8.40	6.70	6.70	1910.0	71		15/64	1.0"
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	L-10 METER FACTOR $\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.84	3.162	705.6	.9868	1.311	1.052	392
2	10.84	3.162	705.6	.9795	1.311	1.049	1338
3	10.84	3.162	705.6	.9896	1.311	1.053	2085
4	10.84	3.162	705.6	.9896	1.311	1.053	2635
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	TRACE	Mcf/bbl.
1.	1.05	534	1.53	.904	A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.	1.05	542	1.55	.909	Specific Gravity Separator Gas	0.582	XXXXXXX
3.	1.05	531	1.52	.902	Specific Gravity Flowing Fluid	XXXXX	
4.	1.05	531	1.52	.902	Critical Pressure	672	P.S.I.A.
5.					Critical Temperature	350	R

P _c 3399.2	P _c ² 11555		
NO.	P _t ²	P _w	P _w ²
1		3278.2	10747
2		3125.2	9767
3		2855.2	8152
4		2539.2	6448
5			

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 2.2626$$

$$ACF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4311$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.6362$$

Absolute Open Flow	4311	Mcf/d @ 15.025	Angle of Slope @	58.9°	Slope, n	0.603
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Remarks: **BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 10,730 FEET.**

Approved By Commission:	Conducted By: D. TYSON	Calculated By: R. WEST	Checked By: J. WEST
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