

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
well file

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 9-17-75	
Operator: CONTINENTAL OIL CO.				SEP 23 1976	
Well Name: CATCHLAW DRAW MORROW				Unit: O. C. C. ARTESIA, OFFICE	
Perforation Date: 9-4-75		Total Depth: 10560		Elevation: 3268	
Well Size: 5 1/2"		Set At: 10560		Farm or Lease Name: LEWERS FEDERAL	
Tag Size: 2 7/8"		Set At: 10010		Well No.: 2	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 10010	
Producing Thru: TUBING 145'				Baro. Press. - P _a : 13.2	
Reservoir Temp. °F: 145				State: NEW MEXICO	
Mean Annual Temp. °F: 10010		% CO ₂ : .401		% H ₂ S: 0	
Prover: 10010		Meter Run: 10010		Taps: 1	

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	4.026		2.00				3414	75			72 HRS.
1.	"		"	360	10.0	92	2260	75			1.75 HRS.
2.	"		"	300	18.0	100	1882	75			"
3.	"		"	285	28.0	99	1261	75			"
4.	"		"	375	32.0	99	812	75			"
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 _{pv}	Rate of Flow Q, Mcfd
1	19.81	61.090	373.2	.9706	1.321	1.023	1587
2	19.81	75.084	313.2	.9636	1.321	1.019	1929
3	19.81	91.376	293.2	.9645	1.321	1.017	2345
4	19.81	111.456	388.2	.9645	1.321	1.023	2877
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.555	552	1.595	.956	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.466	560	1.618	.964	Specific Gravity Separator Gas .5727 X X X X X X X X
3	.444	559	1.616	.966	Specific Gravity Flowing Fluid X X X X X
4	.578	559	1.616	.956	Critical Pressure 672 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 346 R _____ R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{18037}{12350}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.139$
1		2859.1	8174	9859		
2		2384.1	5684	12350		
3		1602.5	2568	15466		
4		1667.1	1139	16895		
5						

Flow Coefficient: 2.77	M Mcfd @ 15.025	Angle of Slope θ : 41°	Slope, n: .87
Remarks: _____			
Approved By Commission: 15/ WDH	Calculated By: 15/ John Hare	Checked By: 15/ JEB	

NAOCOR (ARTESIA) 3