

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-1-82	
Company AMOCO PRODUCTION COMPANY		Connection EL PASO NATURAL GAS COMP	
Pool WILDCAT		Formation MORROW	
Completion Date 1-22-82		Total Depth 15018.	Plug Back TD 14480.
		Elevation 3630.	Form or Lease Name FEDERAL CK <i>Com</i>
Csg. Size 4.500	Wt. 15.1	Set At 3.826	15018.
Perforations: From 14049.	To 14352.		
Thq. Size 2.875	Wt. 6.5	Set At 2.441	13919.
Perforations: From 0.	To 0.		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		Packer Set At 11240.	Well No. 1
Producing Thru TUBING	Reservoir Temp. °F 90 @ 14199.	Mean Annual Temp. °F 60.0	Baro. Press. - P _a 13.2
Unit 14199.	Sec. H 14199.	Twp. G _g 0.609	Rge. 6 22S 32E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE		County LEA	State NEW MEXICO
Prover 14199.		Meter Run 4.0	Flange 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	
1.	4.03 x 0.750			504.	22.1	59.	4320.	55.	0.	0.	72.0
2.	4.03 x 0.750			504.	30.2	62.	3616.	58.	0.	0.	1.0
3.	4.03 x 0.750			504.	39.7	64.	3220.	61.	0.	0.	0.7
4.	4.03 x 0.750			504.	53.3	64.	2840.	62.	0.	0.	0.7
5.							2450.	65.	0.	0.	0.7

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.	2.66	106.90	517.3	1.0010	1.2814	1.0460	382.
2.	2.66	125.09	517.3	0.9981	1.2814	1.0450	445.
3.	2.66	143.29	517.3	0.9962	1.2814	1.0443	508.
4.	2.66	166.03	517.3	0.9962	1.2814	1.0443	589.
5.							

NO.	P _t	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.	0.77	519.	1.45	0.914	0.	0.	0.609	X X X X X X X X	675.	357.
2.	0.77	522.	1.46	0.916						
3.	0.77	524.	1.47	0.917						
4.	0.77	524.	1.47	0.917						
5.										

P _c 4333.2 P _c ² 18776.				
NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	13171.	3629.	13173.	5603.
2	10454.	3228.	10419.	8357.
3	8141.	2847.	8103.	10673.
4	6067.	2452.	6013.	12763.
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4711$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2689$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 747.$

Absolute Open Flow 747.

Mcfd @ 15.025

Angle of Slope θ 58.3

Slope, n 0.617

Approved By Commission:	Conducted By: JOHN WEST	Calculated By: B. A. WAGNER	Checked By: L. W. SHEPPARD
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MAY 14 1982

C.C.D.
JOLES OFFICE