

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT A. ONE POINT BACK PRESSURE TEST R GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 12-23-71				
Company Western Oil Producers, Inc-				Connection None					
Pool Wilson				Formation Devonian				Unit 1	
Completion Date Dec. 13, 1971		Total Depth 12625		Plug Back TD 12619		Elevation 3636		Farm or Lease Name State "M"	
Csg. Size 4 1/2	Wt. 13.5	d 3.920	Set At 12624	Perforations: From 12528 To 12566			Well No. 1		
Thg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12485	Perforations: From To			Unit Sec. Twp. Rge. 32 20S 36E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 12485		County Lea			
Producing Thru Tubing		Reservoir Temp. °F 178 @ 12400		Mean Annual Temp. °F 65		Baro. Press. - P _a 13.2		State New Mexico	
L 12547	H 12547	Gg 0.639	% CO ₂ 1.25	% N ₂ 2.07	% H ₂ S 0.23	Prover	Meter Run X	Taps 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
SI							3744				
1.	4"	X	1 1/4	600	12	110	3724	65	Pkr.		60 min.
2.	4"	X	1 1/4	605	45	100	3627	65	"		60 min.
3.	4"	X	2	610	12	91	3598	65	"		60 min.
4.	4"	X	2	610	46	51	3271	65	"		60 min.
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 _{pv}	Rate of Flow Q, Mcfd
1	7.469	86	613.2	0.9551	1.251	1.040	798.2
2	7.469	167	618.2	0.9636	1.251	1.042	1566.8
3	19.810	86	623.2	0.9715	1.251	1.051	2176.1
4	19.810	169	623.2	1.0090	1.251	1.067	4509.0
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 34.273 Mcf/bbl.
1	0.913	570	1.58	0.926	A.P.I. Gravity of Liquid Hydrocarbons 56.7 Deg.
2	0.920	560	1.55	0.919	Specific Gravity Separator Gas 0.639 X X X X X X X X
3	0.927	551	1.53	0.914	Specific Gravity Flowing Fluid X X X X X
4	0.927	511	1.42	0.886	Critical Pressure 672 P.S.I.A. P.S.I.A.
5.					Critical Temperature 361 °R °R

P _f 5187.2 P _f ² 26907				
NO.	P _t ²	P _s ²	P _s ²	P _f ² - P _s ²
1		5173.2	26762	145
2		5120.2	26216	691
3		5073.2	25737	1170
4		4796.2	23004	3903
5				

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

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

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

Absolute Open Flow 14,500 Mcfd @ 15.025		Angle of Slope 58° 57'	Slope, n 0.60206
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Remarks: Amerada gauge used to run this test.

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: Farrest Tefteller	Checked By:
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RECEIVED

1 2 1971

OIL CONSERVATION COMM.
WASH. D. C.