

WESTERN OIL PRODUCERS, INC. ELEVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 4-18-74		MAY 3 1974	
Company Western Oil Producers, Inc.				Connection None		O.C.C.	
Pool Wildcat				Formation Cisco		Unit ARTEZIA, OFFICE	
Completion Date 4-18-74		Total Depth 8507		Plug Back TD 6567		Elevation 3467 GR	
Farm or Lease Name Flint							
Chg. Size 4 1/2	Wt. 11.6	d 	Set At 6573	Perforations: From 6480 To 6534		Well No. 1	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 6505	Perforations: From To		Unit Soc. Twp. Rye. L 25 17S 25E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 6435		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 116 @ 6400		Mean Annual Temp. °F 70		Baro. Press. - P _a 13.2	
State New Mexico							
L 6507	H 6507	G _g 0.688	% CO ₂	% N ₂	% H ₂ S	Prover Pos. Ck.	Meter Run Taps

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	Positive choke			1628			1628		Pkr		
1.	2"	x	8/64"	1621		68	1621	68			60 min.
2.	2"	x	10/64"	1610		68	1610	68			30 min.
3.	2"	x	13/64"	1595		69	1595	69			30 min.
4.	2"	x	16/64"	1560		70	1560	70			30 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	0.2618		1634.2	0.9924	1.206	1.198	613.4
2	0.4173		1623.2	0.9924	1.206	1.198	971.2
3	0.7208		1608.2	0.9915	1.206	1.195	1656.4
4	1.1120		1573.2	0.9905	1.206	1.185	476.3
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/boi.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	Used simplified				Specific Gravity Separator Gas 0.688 X X X X X X X X
3	supercompressibility tables				Specific Gravity Flowing Fluid X X X X X
4					Critical Pressure 669 P.S.I.A. P.S.I.A.
5					Critical Temperature 385 R R

P _f 2024.2 P _f ² 4097				
NO.	P _t ²	P _s	P _s ²	P _f ² - P _s ²
1		2018.2	4073	24
2		2011.2	4045	52
3		1995.2	3981	116
4		1972.2	3890	207
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	19,000	Mcf/d @ 15.025	Angle of Slope	55° 44'	Slope, n	0.6812
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Remarks: BHP measured with Amerada RPG-3 gauge

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: F. Tefteller	Checked By:
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