

MAR 20 1985

Form -122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

ARTESIA, OFFICE

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-7-85	
Company Enserch Exploration, Inc.		Connection	
Pool West Caprock (Morrow)		Formation Morrow	
Completion Date 03/06/85		Total Depth 11218	Plug Back TD 11000
		Elevation 4430 GL	Farm or Lease Name State "14"
Ceq. Size 5 1/2	Wt. d	Set At 11218	Perforations: From 10734 To 10792
Thg. Size 2 3/8	Wt. d	Set At 10658	Perforations: From To
Type Well - Single - Dradhead - G.G. or G.O. Multiple Single		Packer Set At 10658	County Chaves
Producing Thru Tubing	Reservoir Temp. °F 172	Mean Annual Temp. °F 70	Baro. Press. - P _a 13.2
L 10763	H 10763	G _g 0.737	% CO ₂ 0.32
		% N ₂ 2.08	% H ₂ S
		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.	
SI	27 hours						1979		Pkr.	-
1.	3.826 X 1.500			300	3	82	1080	73	Pkr.	-
2.	3.826 X 1.500			300	20	84	948	74	Pkr.	-
3.	3.826 X 1.500			300	34	84	923	75	Pkr.	-
4.	3.826 X 1.500			300	46	78	782	75	Pkr.	-
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 O, Mcfd
1	10.88	30.653	313.2	0.9795	1.165	1.035	393.887
2	10.88	79.145	313.2	0.9777	1.165	1.035	1015.142
3	10.88	103.193	313.2	0.9777	1.165	1.035	1323.583
4	10.88	120.030	313.2	0.9831	1.165	1.037	1551.033
5							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1					18.587	
2					56.8	
3						
4						
5						

NO.	P _f	P _s	P ₂	P ₂ -P ₂	
1	4021.2	16170	2	2	
2	3653.2	13346	2824	2	
3	3030.2	9182	6988	2	
4	2807.2	7880	8290	2	
5	2505.2	6276	9894	2	

(1) $\frac{P_f^2}{P_s^2 - P_s^2} = 1.63432$

(2) $\left[\frac{P_f^2}{P_s^2 - P_s^2} \right]^n = 1.63432$

AOF = 0 $\left[\frac{P_f^2}{P_s^2 - P_s^2} \right]^n = 2534.890$

Absolute Open Flow 2534.890 Mcfd @ 15.025

Angle of Slope 45.0

Slope, n 1.0000

Remarks: BHP measured with Amerada RPG-3 Gauge No. 47504, 0-6000 PSI Range

Approved By Division	Conducted By: Toftellon, Inc.	Calculated By:	Checked By:
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RECEIVED
MAR 25 1985
O.C.C.
HOUSE