

OIL CONSERVATION DIVISION

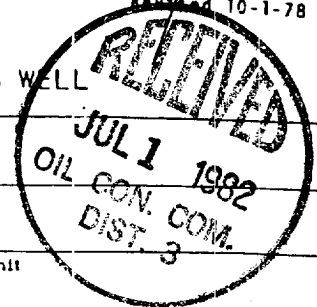
STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL



Type Test ☒ Initial ☐ Annual ☐ Special		Test Date	
Company Arco Oil & Gas Co.; Div. of Atlantic Richfield Co.		Connection NONE	
Pool Basin Dakota		Formation Dakota	
Completion Date 6-18-82		Total Depth 7793	Plug Back TD 7735
Elevation 6315GL		Farm or Lease Name Atlantic "A"	
Csq. Size 4 1/2	Wt. 10.5	d 4.052	Set At 7793
Perforations: From 7440 To 7654		Well No. 101	
Thq. Size 2 3/8	Wt. 4.7	d 1.995	Set At 7434
Perforations: From To		Unit P 22 31N 10W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single - Gas		Packer Set At NONE	
County San Juan		State New Mexico	
Producing Thru Tubing	Reservoir Temp. °F #	Mean Annual Temp. °F	Baro. Press. - P _g 12.0
L 7434	H 7434	G _g 0.680 (EST)	% CO ₂ % N ₂ % H ₂ S
Prover 2"		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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							1885		1884		10 Days
1.	2" x 0.750"			51		86	80		418		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.453		63	0.9759	1.213	1.008	711
2.							
3.							
4.							
5.							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.09	546	1.42	0.984	A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas 0.680 (EST)	X X X X X X X X
3.					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 _c 1897	P _c ² 3598609				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0062$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0046$
NO.	P _f ²	P _w	P _w ²	P _c ² - P _w ²		
1	8464	149	22228	3576381		
2						
3						
4						
5						

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 714$$

Absolute Open Flow 714	Mcf @ 15.025	Angle of Slope @	Slope, n 0.750
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Remarks: Well Tested thru 48/64" Choke

Approved By Division	Conducted By: C.R. Thompson	Calculated By: C.R. Thompson	Checked By:
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