STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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: [X] Initial [ ] Annual [ ] Special				Test Date: 7-10-80	
Company: ARCO Oil & Gas Company Div. of Alantic Richfield Co.		Connection: None			
Pool: Basin Dakota		Formation: Dakota			Unit
Completion Date: 6-30-80	Total Depth: 6690	Plug Back TD: 6650		Elevation: 6232GL	Farm or Lease Name: Schlosser WN Fed.
Csg. Size: 4½" / Wt.: 10.5# / d: 4.052 / Set At: 6685		Perforations: From 6563 To 6611			Well No.: 1E
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: 1.995 / Set At: 6542		Perforations: From To			Unit: K / Sec.: 10 / Twp.: 27N / Rge.: 11W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At: None			County: San Jaun
Producing Thru: Tubing	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a: 12.0		State: New Mexico
L: 6542 / H: 6542 / Gg: .800(est) / % CO_2 / % N_2 / % H_2S / Prover: 2" / Meter Run / Taps					

FLOW DATA						TUBING DATA		CASING DATA		
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	Duration of Flow
SI						1302		1302		SI 10 Days
1.	2"	X .750"	205		75°	370		637		Flow 3Hrs.
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	9.453		217	.9859	1.118	1.030	2329
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.33	535	1.26	.942
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio 77.633 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 58.1 @ 60°F Deg.
Specific Gravity Separator Gas .800 (est) XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 665 P.S.I.A. P.S.I.A.
Critical Temperature 424 R R

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DIST. 3

P_c 1314 P_c^2 1726596

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	145924	546	145924	1580672
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0923$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0685$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2489$

Absolute Open Flow 2489 Mcfd @ 15.025 Angle of Slope θ Slope, n .75

Remarks: Well tested thru 48/64" choke

Approved By Commission | Conducted By | Calculated By | Checked By