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. N MEXICO OIL CONSERVATION CO. SION

Form C-122
Revised 9-1-65

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
MAR 19 1979
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 2-26-79	
Company: Depco, Inc.	Connection			Unit
Pool: Sand Ranch-Atoka	Formation: Atoka			
Completion Date: 2-14-79	Total Depth: 9630	Plug Back TD: 9166	Elevation: 3920.6 GR	Farm or Lease Name: Midwest Federal
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 9630		Perforations: From 9058 To 9068		Well No.: 3
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 9014		Perforations: From open ended		Unit: H / Sec.: 22 / Twp.: 10S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9014		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 167 @ 9063	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9063		.624	.69	1.33	Trace		X	Flange

	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					1490	49			
1.	2" x 1.250"	700.9	.16	76	1461	56			1 Hr.
2.	2" x 1.250"	140.4	.25	60	727	59			1 Hr.
3.	2" x 1.250"	457.2	2.6	74	1289	67			1Hr.
4.	2" x 1.250"	474.2	10.2	76	599	64			1 Hr.
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	8.120	1.0895	714.2	.9850	1.266	1.062	12
2.	8.120	5.9245	153.6	1.0000	1.266	1.014	62
3.	8.120	34.972	470.4	.9868	1.266	1.041	369
4.	8.120	70.5087	487.4	.9850	1.266	1.043	745
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	1.06	536	1.46	.886
2.	.98	520	1.42	.972
3.	.99	534	1.46	.923
4.	.73	536	1.46	.920
5.				

Gas Liquid Hydrocarbon Ratio: Trace Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 55.4 Deg.
Specific Gravity Separator Gas: .624 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 366 R ____ R

P_f 2940.2 P_f^2 8645

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		2764.2	7641	1004
2		2130.2	4538	4107
3		1958.2	3835	4810
4		954.2	910	7735
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 1.1176$

(2) $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 1.1176$

AOF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2}\right]^n = 832$

Absolute Open Flow: 830 Mcfd @ 15.025
Angle of Slope θ: 45
Slope, n: 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By: