NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
SEP 7 1977
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 8-25-77	
Company: Depco, Inc.	Connection: None			
Pool: Buffalo Valley Penn	Formation: Morrow			Unit:
Completion Date: 8-15-77	Total Depth: 9137	Plug Back TD: 9080	Elevation: 3538.2 Gr.	Farm or Lease Name: R & S State
Csg. Size: 4½ / Wt.: 11.6 / d: / Set At: 9136		Perforations: From 8874 To 8880		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 8769		Perforations: From To		Unit: D / Sec.: 17 / Twp.: 15 / Rge.: 28
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 8769		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: 156 @ 8872	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
8874		0.660	0.32	0.84	--			

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2359	88			
1.	3" x 1.500"	54	20	88	1685	90			1 Hr.
2.	3" x 1.500"	54	25	88	1431	94			1 Hr.
3.	3" x 1.500"	54	31	90	1119	94			1 Hr.
4.	3" x 1.500"	54	35	93	787	94			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							
2.	11.13	36.66	67.2	.9741	1.231	1.005	492
3.	11.13	40.99	67.2	.9741	1.231	1.005	550
4.	11.13	45.64	67.2	.9723	1.231	1.005	611
5.	11.13	48.50	67.2	.9697	1.231	1.005	648

NO.	P_t	Temp. °R	T_r	Z
1.	0.10	548	1.45	0.991
2.	0.10	548	1.45	0.991
3.	0.10	550	1.46	0.991
4.	0.10	553	1.46	0.991
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Produced Deg.
Specific Gravity Separator Gas 0.660 xxxxxxxxx
Specific Gravity Flowing Fluid xxxxx 0.660
Critical Pressure 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature 378 R 378 R

P 3318.2 P^2 11011

NO	P_t^2	P	P^2	$P^2 - P^2$
1	2883.9	2446.2	5984	5027
2	2085.7	2071.2	4290	6721
3	1281.9	1619.2	2622	8389
4	640.3	1205.2	1453	9558
5				

(1) $\frac{P^2}{P^2 - P^2} = \frac{11011}{9558}$ (2) $\left[\frac{P^2}{P^2 - P^2}\right]^n = 1.0733$

AOF = Q $\left[\frac{P^2}{P^2 - P^2}\right]^n = 695$

Absolute Open Flow 695 Mcfd @ 15.025 Angle of Slope θ 63.5 Slope, n 0.499

Remarks: _____

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Martin & Reeves	Harrington	