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Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMSSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: 4POINT [X] Initial [ ] Annual [ ] Special				Test Date: 7-12-86	
Company: POGO PRODUCING		Connection: TO AIR			
Pool: Salt Draw Atoka		Formation:		Unit: A	
Completion Date: 7-11-86	Total Depth:	Plug Back T.D.: 12455		Elevation: 2965	Farm or Lease Name: STATE V 492
Csg. Size: 7.0 / Wt.: 32.0 / d: 6.094	Set At: 12044	Perforations: From 11796 To 11806			Well No.: 1
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995	Set At: 11735	Perforations: From OPEN To ENDED			Unit: A / Sec.: 27 / Twp.: 24S / Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 11735		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 180 @ 11801	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11801	11801	.583	.601	.491	0	0	4.026	FLANGE

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					7157	74	8604	180	18 HRS
1.	4.026 X 1.375	510	3.0	98	6597	74	8029	180	60 MIN
2.	4.026 X 1.375	515	6.25	98	6350	74	7766	180	60
3.	4.026 X 1.375	510	13.75	99	5855	74	7312	180	60
4.	4.026 X 1.375	510	28.0	96	5110	74	6479	180	60
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	9.071	39.62	523.2	.9653	1.310	1.031	468
2	9.071	57.46	523.2	.9653	1.310	1.033	679
3	9.071	84.82	523.2	.9645	1.310	1.031	1002
4	9.071	121.03	523.2	.9671	1.310	1.033	1437
5							

NO.	P_t	Temp. °R	T_f	Z
1	0.774	558	1.60	.940
2	0.781	558	1.60	.937
3	0.774	559	1.60	.940
4	0.774	556	1.59	.938
5				

Gas Liquid Hydrocarbon Ratio: 0 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 0 Deg.
Specific Gravity Separator Gas: .583 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX 0
Critical Pressure: 676 P.S.I.A. 676 P.S.I.A.
Critical Temperature: 349 R 349 R

P_c 7221.8 P_c^2 52154

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	64677.0	6687	44717	7437
2	60516	6443	41524	10630
3	53658	6027	36330	15824
4	42148	5272	27799	24355
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.2959$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.2959$ Post ID-2 8-1-86 Comp + BK

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3302$

Absolute Open Flow: 3302 Mcfd @ 15.025 Angle of Slope θ: 45 Slope, n: 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	BENNETT & CATHEY	RICHARD TOWNELY	