NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [XX] Initial [ ] Annual [ ] Special			Test Date: 7-26-88		
Company: MARSHALL PIPE & SUPPLY		Connection: NONE			
Pool: Tule		Formation: PENN		Unit:	
Completion Date: 6-26-88	Total Depth: 7196	Plug Back TD: 7070	Elevation: 4359	Farm or Lease Name: COOK	
Csg. Size: 5½ / Wt.: / d: / Set At: 7196		Perforations: 6853-6863 From 7050 To 7064		Well No.: 1	
Tbg. Size: 2 7/8 / Wt.: 6.5 / d: 2.441 / Set At: 7070		Perforations: From To		Unit: B / Sec.: 34 / Twp.: 25 / Rge.: 29E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 7070		County: ROOSEVELT	
Producing Thru: C56	Reservoir Temp. °F: 38 @ 6957	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: N.M.	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
.6842	6842	.705	2.67	6.23	0		4.026	FLG

	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					1076		1076	CHOKE	25 DAYS
1.	4 X .500	300	23.00	96	1061		975	2/64	1 HR
2.	4 X .500	300	30.00	96	1050		855	4/64	1 HR
3.	4 X .500	300	44.00	96	1034		681	6/64	1 HR
4.	4 X .500	300	40.00	92	1015		468	8/64	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	1.182	84.87	313.2	.9671	1.191	1.024	118
2.	1.182	96.93	313.2	.9671	1.191	1.024	135
3.	1.182	117.39	313.2	.9671	1.191	1.024	164
4.	1.182	111.93	313.2	.9706	1.191	1.024	157
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	.46	556	1.53	.953
2.	.46	556	1.53	.953
3.	.46	556	1.53	.953
4.	.46	552	1.52	.953
5.				

Gas Liquid Hydrocarbon Ratio: ** N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: ** N/A Deg.
Specific Gravity Separator Gas: .705 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: *674 P.S.I.A. ____ P.S.I.A.
Critical Temperature: *363 R ____ R

P_c 1089.2 P_c^2 1186.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1074.2	1153.9	32.5
2		1063.2	1130.4	56.0
3		1047.2	1096.6	89.8
4		1028.2	1057.2	129.2
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 36.50$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.042$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .713$

Absolute Open Flow: 713 Mcfd @ 15.025 Angle of Slope θ: 63.5 Slope, n: .500

Remarks: *PSEUDOCRITICAL CORRECTED TO 2.67% CO2 & 6.23% N2
** NO FLUID MADE DURING TEST
WELL FLOWING THRU CASEING AND USING TUBEING PRESSURE FOR PW

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W. SUTTON	B.MURRAY	B.MURRAY