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: 9/19/81	
Company: Moran Explorations, Inc.			Connection: None		
Pool: Wildcat			Formation: Mississippian		Unit: -
Completion Date: 9/19/81	Total Depth: 13562'		Plug Back TD: 13447'	Elevation: 3947'GL	Farm or Lease Name: Gann
Csg. Size: 5½" / Wt.: 17.0 / d: 4.892 / Set At: 13562'			Perforations: From 13271 To 13281		Well No.: 1
Tbg. Size: 2 7/8" / Wt.: 6.5 / d: 2.441 / Set At: 13200'			Perforations: From Open Ended To		Unit: D / Sec.: 9 / Twp.: 15s / Rge.: 36e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 13109'		County: Lea
Producing Thru: Tubing	Reservoir Temp. °F: 210 @ 13100'	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
13276	-	0.6330	0.772	0.972	-		2.900	G

	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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI						3420	60	PACKER		48.0 hrs
1.	2.90	5/64 1.000	560	10	90	3116				1.0 hr
2.	2.90	6/64 1.000	550	16	82	2865				1.0 hr
3.	2.90	7.5/64 1.000	600	28	95	2584				1.0 hr
4.	2.90	8.5/64 1.000	570	40	90	2299				1.0 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	4.801	75.71	573.2	0.9723	1.257	1.044	463.79
2	4.801	94.93	563.2	0.9795	1.257	1.045	586.40
3	4.801	131.03	613.2	0.9680	1.257	1.046	800.65
4	4.801	152.74	583.2	0.9723	1.257	1.045	936.56
5							

NO.	P_r	Temp. °R	T_r	Z
1	0.85	550	1.51	0.918
2	0.84	542	1.49	0.915
3	0.91	555	1.52	0.914
4	0.87	550	1.51	0.916
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.6330 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 673 P.S.I.A. - P.S.I.A.
Critical Temperature: 364 R - R

P_c 4860.2 P_c^2 23621.5

NO	P_w	P_w*	P_w^2	$P_c^2 - P_w^2$
1		4515.2	20387.0	3234.5
2		4212.2	17742.6	5878.9
3		3863.2	14924.3	8697.2
4		3513.2	12342.6	11278.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 7.303$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.094$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1435$

Absolute Open Flow: 1435 Mcfd @ 15.025 | Angle of Slope θ: 60°24' | Slope, n: 0.568

Remarks: * BOTTOM HOLE PRESSURE @ (-9329)13276' USED FOR PRESSURE CALCULATIONS

Orig. Signed by Jerry Sexton
Approved By: Division
Dist 1, Supv.

Conducted By: JARREL SERVICES, INC.

Calculated By: Joe A. Coleman

Checked By: Joe A. Coleman PE #2208