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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

RECEIVED
JAN 24 1983
OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1-12-83	
Company: SHERMAN F. WAGENSELLER	Connection: EL PASO COMPANY			Unit
Pool: South Blanco PC	Formation: Pictured Cliffs			
Completion Date: 1-10-83	Total Depth: 3220	Plug Back TD: 3150	Elevation: 7310Gr.	Farm or Lease Name: Mobil Apache
Csg. Size: 4½ / Wt.: 11.6 / d: 4.000 / Set At: 3195	Perforations: From 3087 To 3111			Well No.: 19
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 3072	Perforations: From 3072 To			Unit: D / Sec.: 13 / Twp.: 23 / Rge.: 3
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At			County: R. A.
Producing Thru: Tbg	Reservoir Temp. °F: 118 @ 3030	Mean Annual Temp. °F	Baro. Press. – P_a	State: N. M.

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
Tbg		est. .650						

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI						852		858		7 days
1.		.750	164		58			257		3 hrs.
2.										
3.										
4.										
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	12.365		176	1.002	.9608	1.016	2129
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 870 P_c^2 756900

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		299	89401	667499
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1339$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1128$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2369$

Absolute Open Flow 2369 Mcfd @ 15.025 Angle of Slope θ _____ Slope, n .85

Remarks: Very light to, of water & dist. through out test

Approved By Division	Conducted By:	Calculated By:	Checked By:
	C.W. WAGNER	C.W. WAGNER	