NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

xc: NMOCC (5), Archer, L.C.,
Cen. Rec., C.T.Y., EPNG,
Div. Files, Texas Pacific, Texaco

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 2-19-81	
Company: MESA		Connection: EPNG			
Pool: BASIN DAKOTA		Formation: DAKOTA		Unit: Ø	
Completion Date: 2-9-81	Total Depth: 6620.	Plug Back TD: 6577.	Elevation: 5810.	Farm or Lease Name: STATE COM	
Csg. Size: 5.500 / Wt.: 15.5 / d: 4.950 / Set At: 6625.		Perforations: From 6530. To 6423.		Well No.: AH30E	
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 6413.		Perforations: From Ø. To Ø.		Unit: N / Sec.: 36 / Twp.: 30N / Rge.: 12W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: FLOWING		Packer Set At: Ø.		County: SAN JUAN	
Producing Thru: TUBING	Reservoir Temp. °F: 160.Ø 6423.	Mean Annual Temp. °F: 60.Ø	Baro. Press. – P_a: 13.2	State: NM	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
6423.	6423.	Ø.650	Ø.	Ø.	Ø.	Ø.	Ø.	

	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					1476.	40.			168.Ø
1.	2.ØØ X Ø.75Ø	97.	Ø.	67.	97.	67.	Ø.	Ø.	3.Ø
2.									
3.									
4.									
5.									

RECEIVED
MAR 11 1981
OIL CON. COM.
DIST. 3

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, F_{pv}	Rate of Flow Q Mcfd
1	11.22	Ø.	110.2	Ø.7733	1.2403	1.0105	1540.
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_t	Z
1.	Ø.16	527.	1.41	Ø.777
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio Ø. Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons Ø. Deg.

Specific Gravity Separator Gas	Ø.650	XXXXXXXXX
Specific Gravity Flowing Fluid	XXXXX	Ø.650
Critical Pressure	670. P.S.I.A.	670. P.S.I.A.
Critical Temperature	374. R	374. R

P_c 1501.2 P_c^2 2254.

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	12.	262.	68.	2185.
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0313$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0265$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1581.$

Absolute Open Flow 1581. Mcfd @ 15.025 Angle of Slope θ 49.6 Slope, n Ø.85Ø

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	J. Archer	Garrett AOF Program	