NEW M ICO OIL CONSERVATION COMMSSIOI

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FO.. GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 10-1-73	
Company: AMINI OIL CORPORATION	Connection: NOT CONNECTED			
Pool: SOUTH SALT LAKE	Formation: MORROW			Unit
Completion Date: 10-1-73	Total Depth: 14,300'	Plug Back TD: 14268'	Elevation: 3656 K.B.	Farm or Lease Name: AZTEC-FEDERAL
Csg. Size: 5½" O.D. / Wt.: 20# / d: 4.778" / Set At: 14,298'	Perforations: From 13,808 To 13,898'			Well No.: 1
Tbg. Size: 2½" EUE / Wt.: 6.40# / d: 2.441" / Set At: 13,750'	Perforations: From OPEN ENDED To			Unit: L / Sec.: 33 / Twp.: 20S / Rge.: 33E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: 13,750'			County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 185@13,853'	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
13,750'	13,750'	0.646	0.68	0.33	--	*2.000'		

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	XXXX XXXX	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	48 HRS.		(CHOKE)				PACKER		
1.	2.000 x 1/16"	2087	-	80	2087		"		1.25 HRS
2.	" x 3/32"	1387	-	78	1387		"		3.00 "
3.	" X *1.000	16" Hg.	**34/64"	58	48		"		8.75 "
4.	" X 0.750	40" Hg.	20/64"	64	262		"		8.25 "
5.	*RATES #3 & #4 THROUGH ORIFICE WELL TESTER, HAD TO GO TO SEPARATOR ACCOUNT WATER.								

**UNLOADING WATER.

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	.06405	-	2100.2	.9813	1.244	1.151	178.5
2.	.14100	-	1400.2	.9831	1.244	1.119	270.2
3.	400.725	-	16" Hg.	1.0020	1.244	-	499.5
4.	382.200	-	40" Hg.	.9962	1.244	-	473.7
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	3.12	540	1.47	0.755
2.	2.08	538	1.46	0.798
3.	USED ORIFICE WELL TESTER			
4.		DITTO		
5.				

Gas Liquid Hydrocarbon Ratio 27.41 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 55 Deg.
Specific Gravity Separator Gas 0.646 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 674 P.S.I.A. ____ P.S.I.A.
Critical Temperature 368 R ____ R

P_c 5377.2 P_c^2 28914

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		5046.2	25464	3450
2		4339.2	18829	10085
3		1278.2	1634	27280
4		1673.2	2800	26114
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{28914}{27280}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.034$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 516.5$

Absolute Open Flow 516.5 Mcfd @ 15.025 Angle of Slope θ 59.5 Slope, n .590

Remarks: WELL NOT CLEANED-UP. USED PROVER ON RATES #1 & #2. WELL MAKING WATER & CONDENSATE ON RATES #3 & #4 SO WENT TO SEPARATOR AND MEASURED GAS WITH AN ORIFICE WELL TESTER.

Approved By Commission:	Conducted By: Harry E. Legendre	Calculated By:	Checked By: