

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special					Test Date: 2/24/83	
Company: AMINOIL USA, INC.				Formation: AIR		
Pool: GEM MORROW				Formation: MORROW		
Completion Date:		Total Length: 13800		Plug back TD: 13755		Elevation:
Casing Size: 5 1/2		Set At: 13800		Perforations: From 13290 To 13416		Well No.: 1
Tubing Size: 2 7/8		Set At: 13089		Perforations: From _____ To _____		Unit: 19 Sec.: 19s Twp.: 33e
Type Well - Single - Prodenhead - G.G. or G.O. Multiple: SINGLE				Packer Set At: 13059		County: LEA
Producing thru: TBG.		Reservoir Temp. °F: 205 @ 13089		Mean Annual Temp. °F: 60		State: N.M.
L: 13089	H: 13089	Gg: .7319	% CO ₂ : 5.002	% N ₂ : .607	% H ₂ S:	Prover: 4" Meter Run: Flg.

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
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
SI							3320				72 hrs.
1.	4 X .750			440	3.5	100	2860				1 hr.
2.	4 X .750			440	6.5	112	2560				1 hr.
3.	4 X .750			445	12.5	118	2230				1 hr.
4.	4 X .750			440	20.0	100	1840				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	2.661	39.83	453.2	.9636	1.169	1.042	124
2	2.661	54.28	453.2	.9535	1.169	1.039	167
3	2.661	75.68	458.2	.9485	1.169	1.038	232
4	2.661	95.21	453.2	.9636	1.169	1.042	297
5							

NO.	P ₁	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ dry _____ Mcf/cbl.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
1.	.66	560	1.43	.921	Specific Gravity Separator Gas: .7319	XXXXXX
2.	.66	572	1.46	.927	Specific Gravity Flowing Fluid: _____	XXXXXX
3.	.66	578	1.47	.928	Critical Pressure: 689 P.S.I.A.	P.S.I.A.
4.	.66	560	1.43	.921	Critical Temperature: 392 °R	°R
5.						

NO.	P ₁ ²	P _w ²	P _c ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	2873.3	8255.9	2854.3		1.448	1.448
2	2573.3	6621.9	4488.3			
3	2243.9	5035.1	6075.1			
4	1853.8	3436.6	7673.6			
5					AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$.430	

Absolute Open Flow: 430 Mcf @ 15.025	Angle of Slope θ : 45°	Slope, n: 1.000
---	--------------------------------------	------------------------

Remarks: _____

Approved by Computation:	Conducted By: Davis Services, Inc.	Calculated By: Rick Pagan	Checked By:
--------------------------	---	----------------------------------	-------------