

COMPANY: AMINI OIL COMPANY
405 Wall Towers East
Midland, Texas 79701

CLEMENTSON ENGINEERING COMPANY
Petroleum and Natural Gas Engineers
San Antonio, Texas
PRODUCTION TESTS

DATE: July 10, 1973
FIELD: South Salt Lake
Lea County, New Mexico

LEASE: Pubco Federal No. 1

Test Date	Choke Inches	Length of Test Hours	Final W.H. Pressure	SEPARATOR GAS				STOCK TANK LIQUIDS							
				Pressure PSIG	Temp. °F	Volume MCF/D	Specific Gravity	Bbls/Day	Condensate Bbls/MMCF	%API	Water				
											Bbls/Day	Bbls/MM	Cl-PPM		
1973															
27, 28	15/64	First 6	2109	820	108	3250	.646	61.36	18.88	49.4	Trace	Trace	---		
28	13/64	Next 2	2382	815	106	2970	.646	50.81	17.11	49.4	0.0	0.0	---		
28	11/64	Next 2	2795	820	104	2663	.646	44.17	16.59	49.4	0.0	0.0	---		
28	9/64	Final 2	3240	810	96	2215	.646	39.39	17.79	49.4	0.0	0.0	---		

BASE CONDITIONS: 14.65 PSIA & 60°F

CERTIFIED: CLEMENTSON ENGINEERING COMPANY
BY: *Ed. C. Smith*

☒ Multi-Test		☐ Special		Date: 6-28-73	
AMINI OIL COMPANY			Southern Union Gas company		
Salt Lake South			Morrow		
Well No. 6-16-73		Depth 14406		Perforations 14348	
Elevation 3740' KB		Owner or Lease Name Pubco Federal			
Size 5 1/2" ID 17 & 20		Set At 14406		Perforations From 13968 To 13980	
Size 2 7/8" ID 6.50		Set At 13550		Perforations From 14018 To 14026	
Type Well - Single				Packer Set At 13550	
Production Type Tubing		Reservoir ID 269 13997		Baro. Press. - P _a 13.2	
State New Mexico		County Lea			
13997		H 13997		G _g .625	
%		%		%	
Prover		Meter Run 4.026		Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Trans. p.s.i.g.	D.H. In.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1	4.026	1.500	810	29.5	96	3240	90	Packer			1
2			820	43.0	104	2795	90				1
3			815	54.0	106	2382	90				1
4			820	64.5	108	2109	90				1
5											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_L P_m}$	Pressure P _m	Flow Temp Factor Ft	Gravity Factor Fg	Super Compress. Factor, F _{scv}	Rate of Flow Q, Mscf
1	10.84	155.8	823.2	.9671	1.265	1.061	2192
2	10.84	189.3	833.2	.9602	1.265	1.061	2645
3	10.84	211.5	828.2	.9585	1.265	1.061	2949
4	10.84	231.8	833.2	.9568	1.265	1.061	3227
5							

NO.	P _c	Temp. °R	T	Z	Gas Liquid Hydrocarbon Ratio 52.6 Mcf/sbl.
1					A.P.G. Gravity of Liquid Hydrocarbons 49.4 Deg.
2					Specific Gravity Separator Gas .625 XXXXXXXXXX
3					Specific Gravity Flowing Fluid XXXXX .673
4					Critical Pressure P.S.I.A. P.S.I.A.
5					Critical Temperature R R

1	6916.2	47834		
NO.	P _c	P _w	P _c ² - P _w ²	$\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n$
1	4749.2	22555	25279	
2	4184.2	17508	30326	
3	3638.2	13236	34598	
4	3259.2	10622	37212	
5				

Actual Flow Rate 4,200	Mscf @ 15.025	Angle of Slope 45.0	Slope, n 1.000
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Remarks: P_c & P_w were measured at the perforations with an Amerada Bottom Hole Pressure Gauge, 7700# Range, Ser. No. 25439.

Approved: [Signature]	Checked By: [Signature]
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CLEMENTSON ENGINEERING COMPANY, San Antonio, Texas 78209