

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 9-15-78	
Company Consolidated Oil & Gas, Inc.						Connection	
Pool Basin Dakota						Unit Dakota	
Completion Date		Total Depth		Flow Back ID 6750	Elevation 5719 GL	Farm or Lease Name Freeman	
Perf. Size 5 1/2	Wt. d	Set At 6800	Perforations: From 6562 To 6887			Well No. 1-A	
Perf. Size 1 1/2	Wt. d	Set At 6530	Perforations: From To			Unit Sec. Twp. Rge. C 11 31 13	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single gas						Packer Set At	
Producing Thru 7139						State New Mexico	
Reservoir Temp. °F 182 @ 6500		Mean Annual Temp. °F		Baro. Press. - P _a 12.0			
L	H	Gg 0.650	% CO ₂	% N ₂	% H ₂ S	Prover X	Meter Run
Taps							

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	Shut-in 8 days						1875		1875		
1.	2 X 3/4						137	60	431		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, F _{pv}	Rate of Flow Q, Mcfd
1	9.453		149	1.000	1.240	1.015	1773
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X
4					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5					Critical Temperature _____ R _____ R

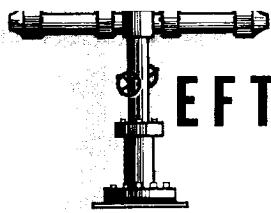
P _c 1887	P _c ² 3560769	
NO.	P _w	P _w ²
1	443	196249
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0583$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0333$

(3) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1832$

Absolute Open Flow	1832	Mcf/d @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				

Approved By Commission:	Conducted By: Archie Hugnes	Calculated By: Neil Tefteller	Checked By:
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BHP • BU • PI • DD • GWT • RFS • GOR • FL • TS

TEFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS / FARMINGTON, NEW MEXICO

P. O. Box 5247

Midland, Texas 79701

September 22, 1978

Consolidated Oil & Gas, Inc.
Box 2038
Farmington, New Mexico 87401

Attention: Mr. Veryl Moore

Subject: Bottom Hole Pressure & Absolute
Open Flow Potential Measurement
Freeman No. 1-A
Basin Dakota Field
San Juan County, New Mexico
Our File No. 2-8873-P & AOF

Gentlemen:

Attached hereto are the results of a bottom hole pressure & absolute open flow potential measurement which was made on the above captioned well September 15, 1978.

The data presented are in tabular and graphical form. The New Mexico Oil Conservation Commission Form C-122 is attached.

It has been our pleasure to have conducted this service for you. If we may be of further assistance please call us at any time.

Respectfully submitted,

TEFTELLER, INC.

Neil Tefteller

NT/jc

Serving the Permian Basin & Rocky Mountain Area



EFTELLER, INC.

reservoir engineering data

M.D. AND TEXAS

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File 2-8873-P & AOF

Company CONSOLIDATED OIL & GAS, INC. Lease FREEMAN Well No 1-A
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date SEPTEMBER 15, 1978

