

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 12-23-80			
Company Consolidated Oil & Gas, Inc.				Connection					
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 12-15-80		Total Depth 6800'		Plug Back TD 6782'		Elevation		Farm or Lease Name Navajo	
Csg. Size 5 1/2	Wt. 15.5	d 4.950	Set At 6804	Perforations: From 6714 To 6756		Well No. 1-F			
Tbg. Size 1 1/2	Wt. 2.9	d 1.610	Set At 6719	Perforations: From To		Unit Sec. Twp. Rge. I 2 25 10			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover 6" nipple		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	8 days						1587		1587		
1.	2" X 3/4"						182	60	1069		3 hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11.00		194	1.000	1.240	1.020	2699
2.							
3.							
4.							
5.							

NO.	P _r	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 1599	P _c ² 2556.8	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8418$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5610$	
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1		1081	1168.6	1388.2
2				
3				
4				
5				

Absolute Open Flow 4213 Mcfd @ 15.025		Angle of Slope @ _____	Slope, n .75
Remarks: _____			

Approved By Commission:	Conducted By: Vernon Nelson	Calculated By: Neil Tefteller	Checked By:
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TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well: NAVAJO NO. 1-E

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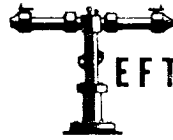
Field: BASIN DAKOTA

File 2-11356-AOF

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time Hrs.Min.	Daily Rate Gas MCF/D	Wellhead Pressure Tbg Csg	BHP @ 6735' Psig
12-23	Arrived on location					
"	Shut-in	13:10			1587 1587	
"	Run BHP Gradient Traverse					2038
"	Open to 3/4" pos. choke	15:00	0 00			
"	"	15:00	0 15		555 1392	
"	"	15:30	0 30		362 1281	
"	"	15:45	0 45		327 1216	
"	"	16:00	1 00		289 1159	
"	"	16:30	1 30		192 1131	
"	"	17:00	2 00		262 1103	
"	"	17:30	2 30		189 1088	
"	"	18:00	3 00	2699	182 1069	
"	Shut-in	18:00				
"	Rig down, move off location					





TELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

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Company CONSOLIDATED OIL & GAS, INC. Lease NAVAJO Well No. 1-E
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date DECEMBER 23, 1980

Status of Well Shut-in 8 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1587	
2000	1720	0.067
4000	1853	0.067
6050	1986	0.066
6350	2009	0.076
6650	2032	0.076
6735*	2038	0.076
*Mid-Perf		

Datum Pressure Psig

Elev. Datum Ft.
Total Depth 6782 Perf. 6714-6756 Ft.
Tubing 1 1/2 in. to 6719 Ft.
Casing 5 1/2 in. to 6804 Ft.
Casing Press. 1587 Tubing Press. 1587
Oil Level None Water level None
Temperature 178 °F @ 6650 Ft.
Element No. 4 Range 0-4000
Last Test Date
Pressure Last Test Date Psig
B.H.P. Change Psi

PRESSURE POUNDS PER SQUARE INCH GAUGE

DEPTH, FEET