

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 12-2-80	
Company Consolidated Oil & Gas, Inc.				Connection			
Pool Basin Dakota				Formation Basin Dakota		Unit	
Completion Date 11-24-80		Total Depth 6700		Plug Back TD 6653		Elevation 6705	
Farm or Lease Name Mills							
Csg. Size 4 1/2		Wt. 10.5		Set At 6700		Perforations: From 6424 To 6462	
Trg. Size 1 1/2		Wt. 2.90		Set At 6433		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At None	
Producing Thru Tubing		Reservoir Temp. °F 8		Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico							
L		H		Gg		% CO ₂	
% N ₂		% H ₂ S		Prover		Meter Run	
Pos. Ck		Taps					

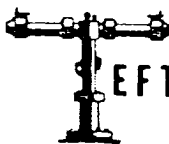
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI				719			719	60	721	60	
1.	2" X 3/4"	pos. ck.		30			30	60	402	60	3 hours
2.											
3.											
4.											
5.											

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		42	1.000	1.240	1.007	576.9
2.							
3.							
4.							
5.							

NO.	R _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 _____
3.					Specific Gravity Flowing Fluid _____
4.					Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ °R

P _c 731	P _c ² 534.4	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4722$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3365$
NO.	F _t ²	P _w	P _w ²
1	1764	414	171.4
2			
3			
4			
5			

Absolute Open Flow <u>710.0</u> Mcfd @ 15.025	Angle of Slope θ _____	Slope, n <u>.75</u>
Remarks: _____		
Approved By Commission: _____ Conducted By: Tefteller, Inc.		
Calculated By: _____ Checked By: _____		



TEFTELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

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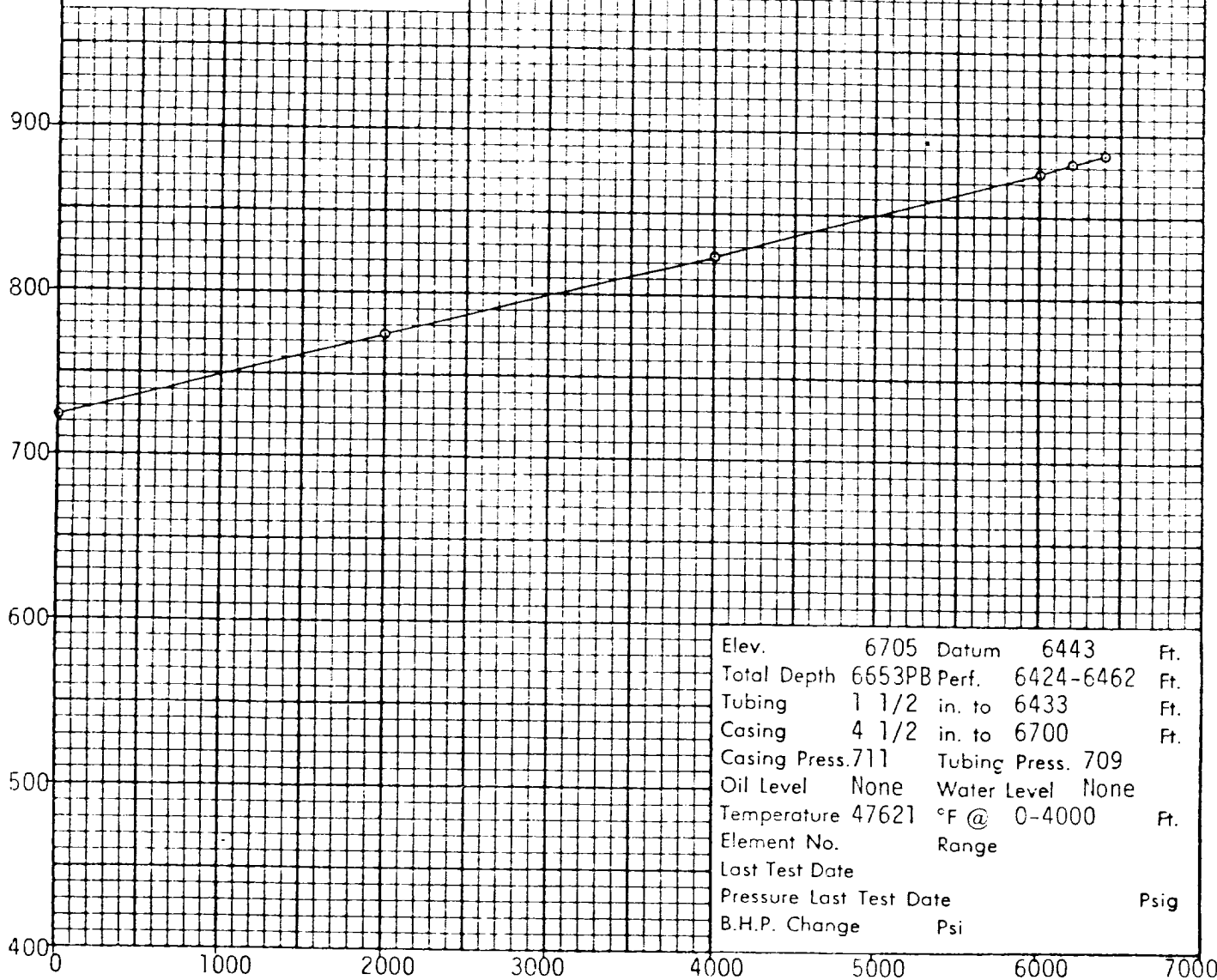
Company CONSOLIDATED OIL & GAS, INC. Lease MILLS Well No. 1-E
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date DECEMBER 2, 1980

Status of Well Shut-in 7 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	724	
2000	774	0.025
4000	824	0.025
6000	876	0.026
6200	882	0.030
6400	888	0.030
6443*	889	0.030

*Mid-Perf

Datum Pressure Psig



Elev. 6705 Datum 6443 Ft.
Total Depth 6653PB Perf. 6424-6462 Ft.
Tubing 1 1/2 in. to 6433 Ft.
Casing 4 1/2 in. to 6700 Ft.
Casing Press. 711 Tubing Press. 709
Oil Level None Water Level None
Temperature 47621 °F @ 0-4000 Ft.
Element No. Range
Last Test Date
Pressure Last Test Date Psig
B.H.P. Change Psi

DEPTH: FEET

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : MILLS NO. 1-E

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Field : BASIN DAKOTA

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CHRONOLOGICAL PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time		Daily Rate		Wellhead Pressure	
			Hrs.	Min.	Oil B/D	Gas MCF/D	Tbg	Csg
12-2	Arrived on location							
"	well shut-in	10:15					719	721
"	Gradient Traverse	10:55						
"	Open well on 3/4" pos. ck.	11:55	0	00			719	721
"	"	12:10	0	15		1112.6	69	492
"	"	12:25	0	30		590.6	31	417
"	"	12:40	0	45	Wet	686.8	38	449
"	"	12:55	1	00	Wet	700.5	39	459
"	"	13:25	1	30	Wet	659.3	36	438
"	"	13:55	2	00	Wet	590.6	31	427
"	"	14:25	2	30	Wet	590.6	31	412
"	"	14:55	3	00	Wet	576.9	30	402

