NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11-10-80	
Company: Consolidated Oil & Gas, Inc.		Connection: None			
Pool: Basin Dakota		Formation: Dakota			Unit
Completion Date	Total Depth: 7125		Plug Back TD: 6884	Elevation: 5968	Farm or Lease Name: Cain
Csg. Size: 5 1/2	Wt.: 15 1/2	d: 4.50	Set At: 7118	Perforations: From 6764 To 6839	Well No.: 1 E
Tbg. Size: 1 1/2	Wt.: 2.9	d: 1.610	Set At: 6780	Perforations: From To	Unit: I Sec.: 25 Twp.: 31N Rge.: 13W
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Gas Dual Completion			Packer Set At: 6250		County: San Juan
Producing Thru: Tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press. – P_a:		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
						Pos. Ck.		

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI		1182			1182	60	Pkr.		3 hours
1.	2" X 3/4"	78			78	60			
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, Fpv	Rate of Flow Q, Mcfd
1	11.00		90	1.000	1.240	1.008	1237.4
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 1194 P_c^2 1425.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	8100	212.1	45	1380.6
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0326$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0243$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1267.5$

Absolute Open Flow 1267.5 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:

EFTELLER, INC.
reservoir engineering data
MIDLAND, TEXAS

File 2-11226-P&AOF

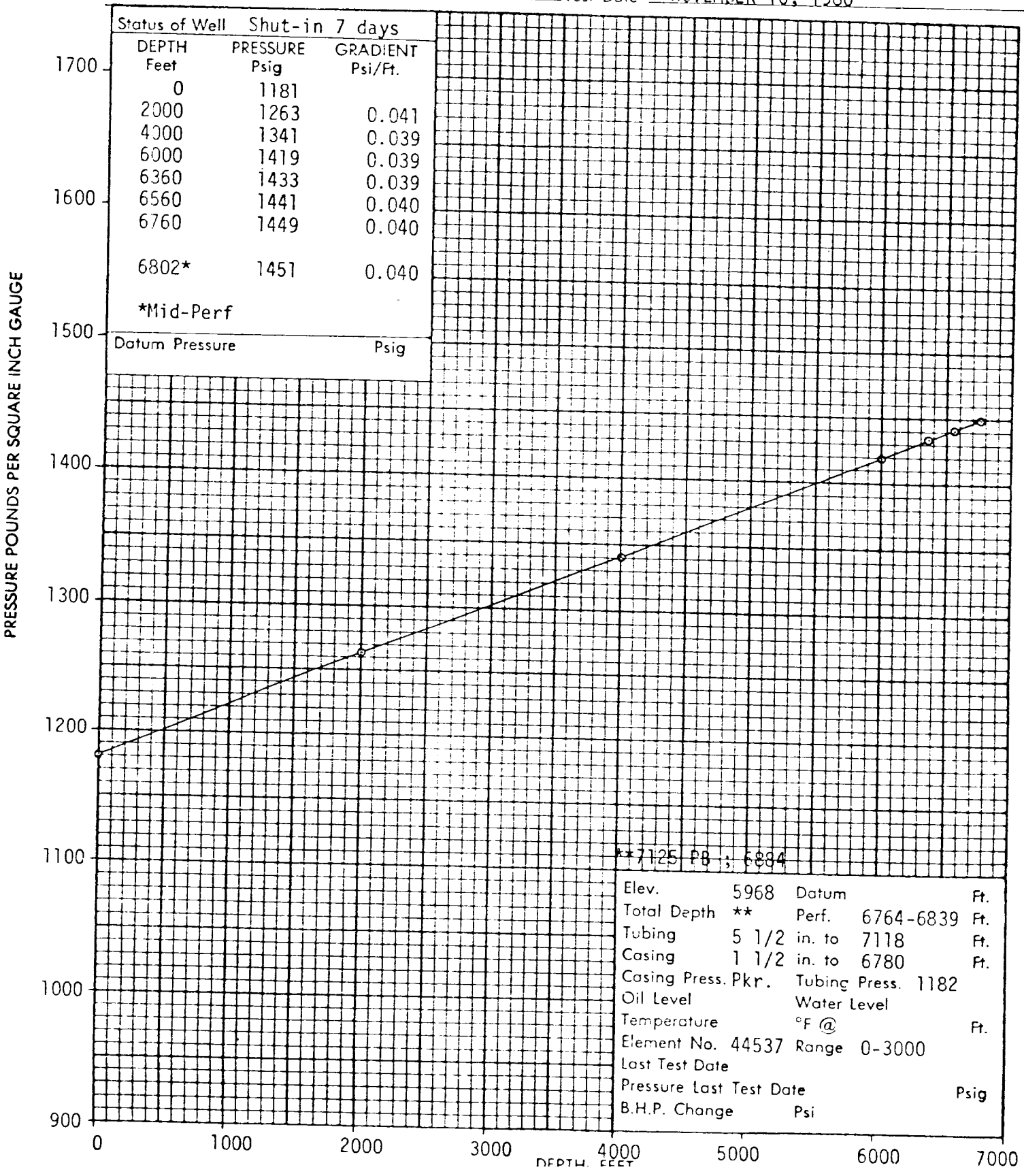
Company CONSOLIDATED OIL & GAS, INC. Lease CAIN Well No. 1-M
Field BASIN DAKOTA County SAN JUAN State NEW MEXICO
Formation DAKOTA Test Date NOVEMBER 10, 1980

Status of Well Shut-in 7 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	1181	
2000	1263	0.041
4000	1341	0.039
6000	1419	0.039
6360	1433	0.039
6560	1441	0.040
6760	1449	0.040
6802*	1451	0.040

*Mid-Perf

Datum Pressure Psig



Elev.	5968	Datum		Ft.
Total Depth	**	Perf.	6764-6839	Ft.
Tubing	5 1/2	in. to	7118	Ft.
Casing	1 1/2	in. to	6780	Ft.
Casing Press.	Pkr.	Tubing Press.	1182	
Oil Level		Water Level		
Temperature		°F @		Ft.
Element No.	44537	Range	0-3000	
Last Test Date				
Pressure Last Test Date				Psig
B.H.P. Change		Psi		

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : CAIN NO. 1-M

Field : BASIN

Form: GALLUP

File 2-11226-P&AOF

CHRONOLOGICAL PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time Hrs.Min.	Daily Rate Gas MCF/D	Wellhead Pressure Mesa Verde Tbg.	Csg.	Dakota Tubing
11-17	Arrived on location						
"	Well shut in		7 days				
"	Ran gradient traverse			*	15	219	1162
"	Open well on 3/4" choke	10:55	0 00		15	219	1162
"	"	11:00	0 15		0	219	1171
"	"	11:25	0 30		0	219	1171
"	"	11:40	0 45		0	203	1171
"	"	11:55	1 00		0	203	1171
"	"	12:25	1 30		0	203	1171
"	"	12:55	2 00		0	203	1171
"	"	13:25	2 30		0	203	1171
"	"	13:55	3 00		0	203	1171
"	Shut well in						

*NOTE: No flow for potential test - no indication of packer leaks

TEFTELLER, INC.
reservoir engineering data
MIDLAND, TEXAS

File 2-11226-P&AOF

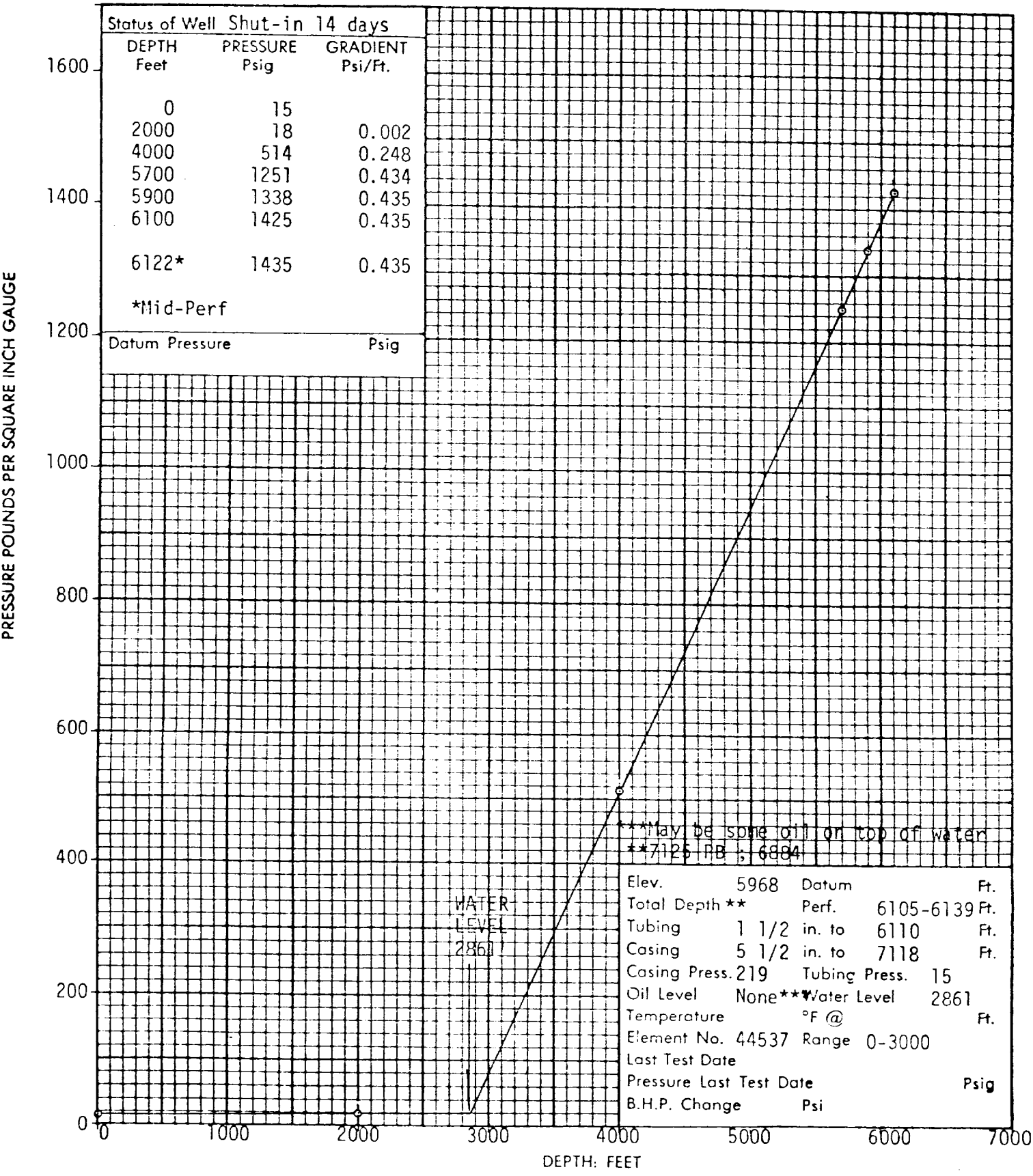
Company CONSOLIDATED OIL & GAS, INC. Lease CAIN Well No. 1-M
Field BASIN County SAN JUAN State NEW MEXICO
Formation GALLUP Test Date NOVEMBER 17, 1980

Status of Well Shut-in 14 days

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	15	
2000	18	0.002
4000	514	0.248
5700	1251	0.434
5900	1338	0.435
6100	1425	0.435
6122*	1435	0.435

*Mid-Perf

Datum Pressure Psig



Elev.	5968	Datum		Ft.
Total Depth **		Perf.	6105-6139	Ft.
Tubing	1 1/2	in. to	6110	Ft.
Casing	5 1/2	in. to	7118	Ft.
Casing Press.	219	Tubing Press.	15	
Oil Level	None***	Water Level	2861	
Temperature		°F @		Ft.
Element No.	44537	Range	0-3000	
Last Test Date				
Pressure Last Test Date				Psig
B.H.P. Change		Psi		

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well : CAIN NO. 1-M

Page 1 of 5

Field : BASIN DAKOTA

File 2-11226-P&AOF

Form: DAKOTA

CHRONOLOGICAL PRODUCTION DATA

1980 Date	Status of Well	Time	Elapsed Time Hrs.	Elapsed Time Min.	Daily Rate Gas MCF/D	Wellhead Pressure Gallup	Wellhead Pressure Dakota
11-10	Arrived on location						
"	shut-in	09:00					
"	Gradient Traverse					34	1182
"	Inst. @ 6760'	10:00					
"	Open well, 2" X 3/4"	10:35				34	1182
"	Flowing	10:50	0	15	2439.0	35	164
"	"	11:05	0	30	1975.9	37	131
"	"	11:20	0	45	1962.1	37	130
"	"	11:35	1	00	1835.9	38	121
"	"	12:05	1	30	1570.5	38	102
"	"	12:35	2	00	1445.1	41	93
"	"	13:35	3	00	1237.4	46	78

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DEC 24 1980
OIL CON. COM.
DIST. 3