

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

JAN 11 1982

**OIL CON. COM.
DIST. 3**

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-16-81			
Company MARATHON OIL COMPANY				Connection			
Pool BASIN DAKOTA				Formation DAKOTA			
Completion Date 1-4-82		Total Depth 7,586'		Plug Back TD 7532'		Elevation 6660 GL	
Csg. Size 4 1/2		Wt. 11.6		Set At 7586		Perforations: From 7250 To 7489	
Tbg. Size 2 3/8		Wt. 4.7		Set At 7249		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple DUAL GAS-GAS				Packer Set At 7206 & 5333		Farm or Lease Name JICARILLA APACHE FED.	
Producing Thru TUBING		Reservoir Temp. °F 1820 @ 7200'		Mean Annual Temp. °F		Baro. Press. - P _a 12.05	
L		H		Gg .650 est.		% 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	7 DAYS +						1450		PKR		
1.	2 X 3/4						209	60	"		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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	9.453		221	1.000	1.240	1.023	2650
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 1462	P _c ² 2137444	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0333$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0241$
NO.	P _t ²	P _w	P _w ²
1	48841	259	66850
2			
3			
4			
5			

Absolute Open Flow 2714		Mcf/d @ 15.025		Angle of Slope 53.13°		Slope, n .75	
Remarks: LOCKSET @ 7206 DOUBLE							

Approved By Commission:	Conducted By: Teffteller, Inc.	Calculated By: G. W. Taylor	Checked By: David Warner 1-7-82
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TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well: JICARILLA APACHE FEDERAL NO. 8E

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Field: BASIN DAKOTA

File 2-12575-AOFP

Form.: POINT LOOKOUT

CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

Date	Status of Well	Time	Elapsed Time		Daily Rate Gas MCF/D	Wellhead Pressure		BHP @ 5310' Psig
			Hrs.	Min.		Tbg.	Csg.	
-30	Arrived on location-							
	Shut In	10:50				1479	1037	
	Open Csg. to 3/4" CFP	11:15	0	00				
	"	11:30	0	15	2086.2	1479	163	
	"	11:45	0	30	1747.2	1479	135	
	"	12:00	0	45	1481.3	1479	113	
	"	12:15	1	00	1362.8	1480	103	
	"	12:45	1	30	1279.9	1481	96	
	"	13:15	2	00	1196.9	1482	89	
	Shut In-Shift Sleeve	14:15	3	00	1090.1	1485	81	
	Open Csg. to 1/4" CFP	14:15	0	00		718	600	
	Inst. to 5310'	15:00	0	45				821
	"	16:15	2	00	925.6		640	868
	"	18:15	4	00	911.2		630	892
	"	20:15	6	00	903.9		625	901
	"	22:15	8	00	961.8		665	935
	"	00:15	10	00	1026.9		710	1000
	"	02:15	12	00	1005.2		695	1010
	"	04:15	14	00	1005.2		695	1027
	"	05:15	16	00	997.9		690	1033
	"	08:15	18	00	925.6		640	939
	"	10:15	20	00	954.5		660	970
	"	12:15	22	00	961.8		665	986
	"	13:30	23	15	969.0		670	996
	Shut In for Build Up	13:30	0	00				
	"	13:36	0	06				1039
	"	13:42	0	12				1065
	"	13:48	0	18				1092
	"	13:54	0	24				1110
	"	14:00	0	30				1124
	"	14:06	0	36				1135
	"	14:12	0	42				1143
	"	14:18	0	48				1153
	"	14:24	0	54				1159
	"	14:30	1	00				1165
	"	14:45	1	15				1177
	"	15:00	1	30				1190
	"	15:15	1	45				1202
	"	15:30	2	00				1214
	"	16:00	2	30				1231

TEFTELLER, INC.
RESERVOIR ENGINEERING DATA
Midland, Texas

Well: JICARILLA APACHE FEDERAL NO. 8E

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Field: BASIN DAKOTA

File 2-12575-AOFP

Form.: POINT LOOKOUT

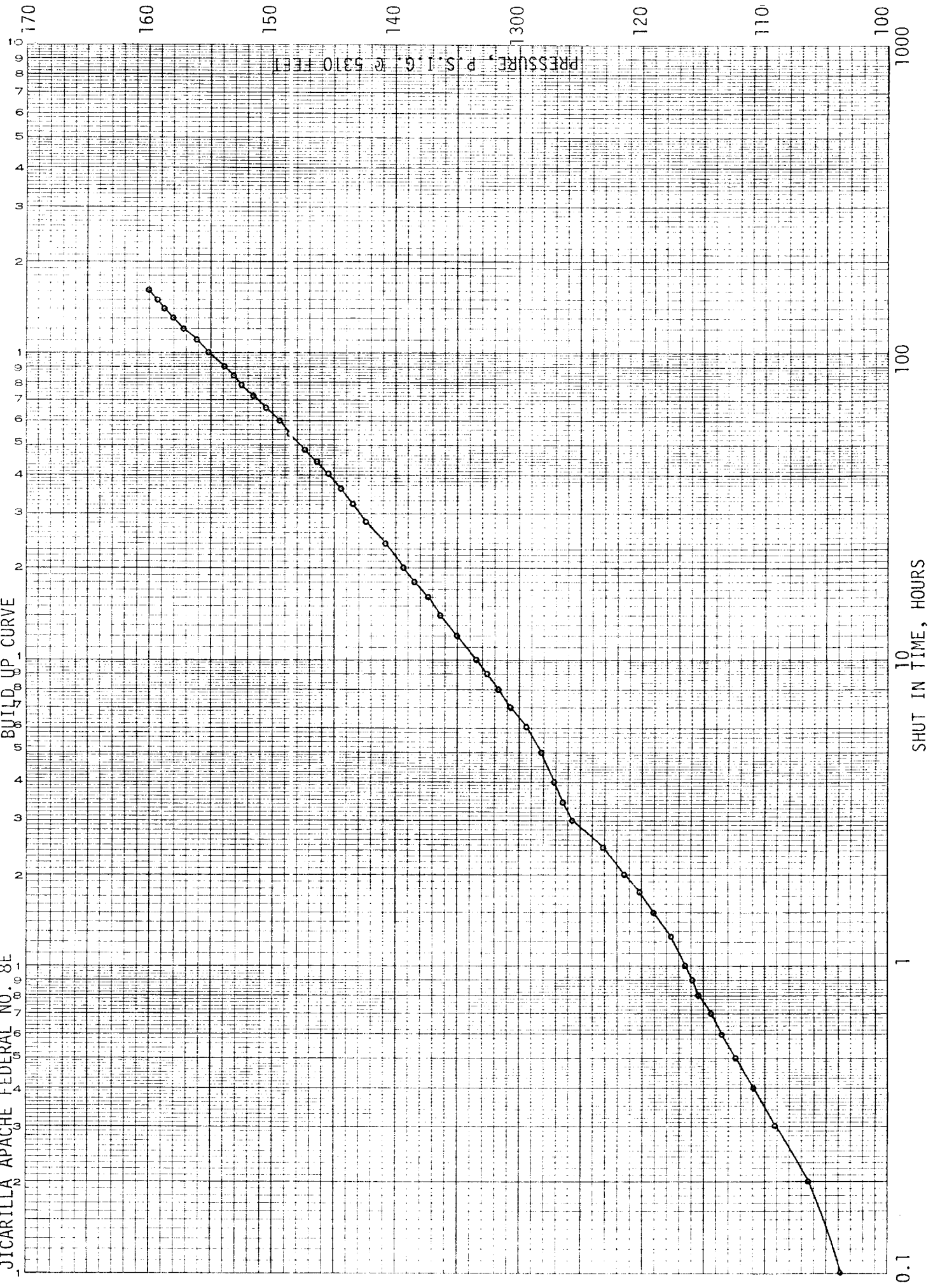
CHRONOLOGICAL PRESSURE AND PRODUCTION DATA

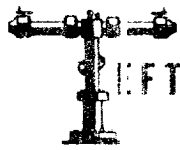
Date	Status of Well	Time	Elapsed Time		Daily Rate Gas MCF/D	Wellhead Pressure Tbg. Csg.	BHP @ 5310'
			Hrs.	Min.			Psig
-1	Continued Shut In	16:30	3	00			1257
	"	17:00	3	30			1264
	"	17:30	4	00			1271
	"	18:30	5	00			1281
	"	19:30	6	00			1293
	"	20:30	7	00			1307
	"	21:30	8	00			1318
	"	22:30	9	00			1326
	"	23:30	10	00			1334
-2	"	01:30	12	00			1350
	"	03:30	14	00			1364
	"	05:30	16	00			1374
	"	07:30	18	00			1385
	"	09:30	20	00			1393
	"	13:30	24	00			1409
	"	17:30	28	00			1423
	"	21:30	32	00			1433
-3	:	01:30	36	00			1444
	"	05:30	40	00			1454
	"	09:30	44	00			1464
	"	13:30	48	00			1474
	"	19:30	54	00			1486
-4	"	01:30	60	00			1494
	"	07:30	66	00			1507
	"	13:30	72	00			1516
	"	19:30	78	00			1525
-5	"	01:30	84	00			1531
	"	07:30	90	00			1539
	"	17:30	100	00			1551
-6	"	03:30	110	00			1561
	"	13:30	120	00			1572
	"	23:30	130	00			1580
-7	"	09:30	140	00			1588
	"	19:30	150	00			1593
-8	"	07:00	161	30			1600
	Gradient Traverse	08:00	162	30			1601

MARATHON OIL COMPANY
JICARILLA APACHE FEDERAL NO. 8E

TEFTELLER, INC.

BUILD UP CURVE





H. F. TELLER, INC.

reservoir engineering data

MIDLAND, TEXAS

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File 2-12575-AOFP& BU

Company MARATHON OIL COMPANY Lease JICARILLA APACHE FED. Well No. 8E
Field BASIN DAKOTA County RIO ARriba State NEW MEXICO
Formation POINT LOOKOUT Test Date DECEMBER 8, 1981

