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appropriate district office.
See Rule 401 & Rule 1122

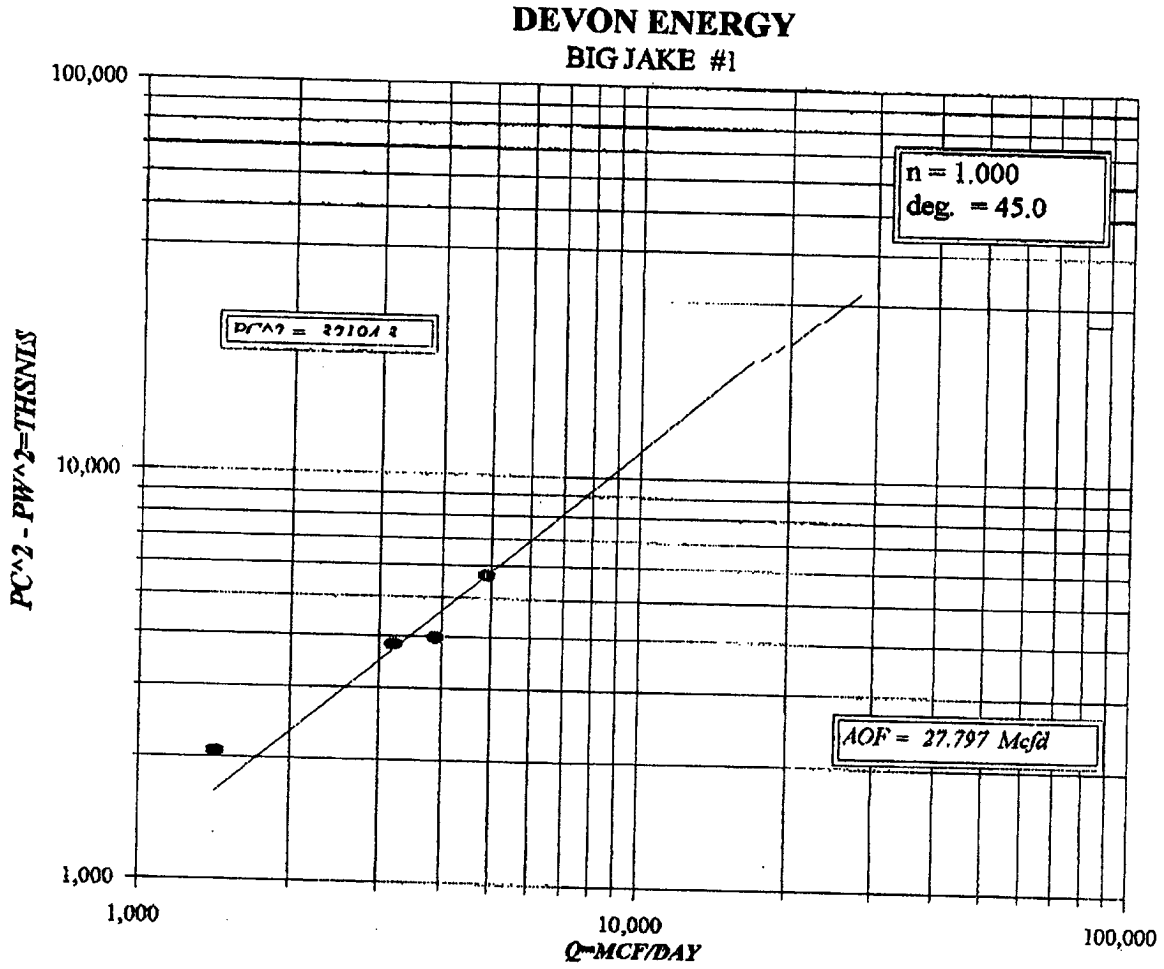
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-122
Revised October, 1999

30-025-36454

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator DEVON ENERGY				Lease or Unit Name BIG JAKE			
Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/10/04		Well No. 1	
Completion Date		Total Depth 13697		Plug Back TD 13655		Elevation 3697	
Csg. Size 4 1/2		Wt. 13.5		Set At 13697		Perforations: From: 13255 To: 13416	
Tbg. Size 2 3/8		Wt. 4.7		Set At 13004		Perforations: From: To:	
Type Well-Single-Bradenhead-G.G. or G.O. Multiple SINGLE				Packer Set At 13004		Formation MARROW	
Producing Thru TUBING		Reservoir Temp. 180		Mean Annual Temp. 60		Baro. Press.-P. 13.2	
L 13007		H 13287		Gg 0.520		SALES	
FLOW DATA				TUBING DATA			
Casing Data				Casing Data			
No.	Line Size	Size	p.s.i.g.	Temp.	p.s.i.g.	Temp.	Duration of Flow
1	4.026	X 1.625	652	11	74	5471	1 HRS
2	4.026	X 1.625	655	54	90	5171	1 HRS
3	4.026	X 1.625	620	79	72	5147	1 HRS
4	4.026	X 1.625	619	110	55	3000	30 MIN
5							
RATE OF FLOW CALCULATIONS							
No.	P _i	Temp. R	T	Z	Class Liquid Hydrocarbon Ratio	Gravity Factor	Rate of Flow Q, Mcfd
1							1493
2							2772
3							3892
4							4444
5							
TOTAL				FLOW	METER		
No.	P _i	Temp. R	T	Z	A.P. I. Gravity of Liquid Hydrocarbon		
1					60.7		
2					0.000		
3					XXXXXX		
4					QVILA = .033		
5					Critical Pressure		
P _i 5644.1				P _w 32194.2	Critical Temperature		
					675 P.S.I.A.		
					350 R		
No.	P _i ²	P _w	P _w ²	P _c ² - P _w ²	(1) P _c ² = 5.644		
1		5488.4	30122.5	2071.8	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.644$		
2		5325.9	28365.2	3870.1			
3		5111.3	26123.0	3984.4			
4		3146.9	26490.0	5703.7			
5							
Absolute Open Flow				27.797	Mcfd @ 15.025		Angle of Slope (°)
					45		Slope n:
					1		
Remarks: CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES. WELL MADE 6.7 BBLs OF 50.7 API GRAVITY CONDENSATE DURING TEST.							
Approved By Division:		Conducted By:		Calculated By:		Checked By:	
<i>Handwritten Signature</i>		PRO WELL TESTING		MERV BUECKER		BM	



WORK SHEET FOR CALCULATION OF WELHEAD PRESSURE (P_c or P_v)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_t)

FORM C-172F

COMPANY DEVON ENERGY

LEASE : BIG JAKE WELL NO. : 1

DATE

UNIT

SECTION : 34 TOWNSHIP : 28

RANGE :

L

12987

H : 13987

L/W : 1

G/ENIX : 0.6350

CO2 : 0.4599

RZ : 0.3596

RZS :

CH : 8246.7

PCR : 670

TCR : 368

LINE

		1	2	3	4	5	6	7	8
1	TM(W.H. R)	534	534	534	534	534	534	534	534
2	Ts(B.H. R)	663.9	663.9	663.9	663.9	663.9	663.9	663.9	663.9
3	Ts(Tv+Ts/2)	598.9	598.9	598.9	598.9	598.9	598.9	598.9	598.9
4	Z (ESI.)	1.210	1.066	1.111	1.047	1.110	1.048	1.093	1.030
5	TZ	725	639	666	827	665	626	654	617
6	GM/TZ	11.378	12.812	12.391	13.146	12.482	13.104	12.600	13.363
7	GS(TABLE IV)	1.532	1.673	1.591	1.637	1.592	1.628	1.604	1.651
8	Pf or Ps	6981.9	6991.9	6814.7	8814.7	6798.2	8798.2	6612.4	6612.4
9	Pf2 or Ps2	48886.7	48886.7	46440.1	46440.1	46215.5	46215.5	43723.8	43723.8
10	Pc2=Pf/cS or Ps2=Ps2/cS	31906.7	30122.8	29100.4	28365.6	29826.9	28209.9	27258.8	26496.8
11	Pc or Pv	5549	5488	5402	5326	5387	5311	5221	5147
12	P=(Pw+Ps/2) or (Pc+Pf/2)	6320	6246	6108	6070	6093	6055	5917	5860
13	Pr=(P/Pcr)	9.43	9.31	9.12	9.06	9.08	9.04	8.83	8.78
14	Tr(T/Tcr)	1.63	1.63	1.63	1.63	1.63	1.63	1.63	1.63
15	Z (TABLE XI)	1.065	1.059	1.047	1.044	1.048	1.043	1.030	1.027

PW 1 : 5488.4 PW 2 : 5325.9 PW 3 : 5311.3 PW 4 : 5146.9



Laboratory Services, Inc.
4018 Fiesta Drive
Hobbs, New Mexico 88240
Telephone: (505) 397-3713

ASTM DISTILLATION

Devon Energy
P. O. Box 250
Artesia, New Mexico 88211-0250

Sample Date: 2/17/04
Sampled By: Pro Well

Big Jake State #1

Percent Distilled

Temperature

IBP	95
5	172
10	198
20	230
30	259
40	286
50	342
60	401
70	480
80	521
90	598
95	656
EP	661

% Recovered = 96.0
% Residue = 2.0
% Loss = 2.0

API Gravity @ 60° F = 50.7
Molecular Weight = 128

Roland Perry