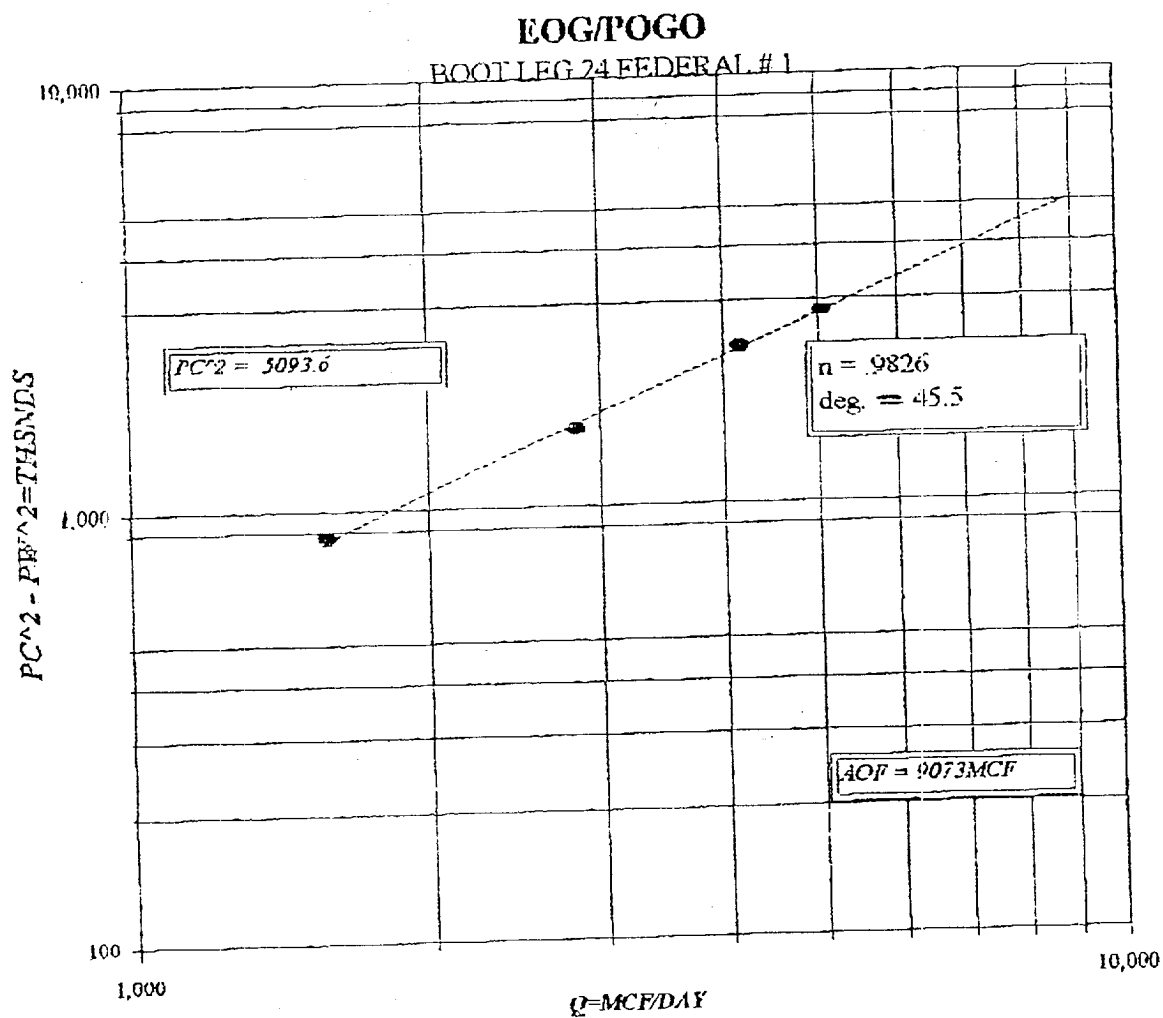


Submit in duplicate to appropriate district office. See Rule 401 & Rule 1122		State of New Mexico Energy Minerals and Natural Resources Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505				Form C-122 Revised October, 1999	
		MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL					
		Operator: EOG/POGO			Lease or Unit Name: BOOT LEG 24 FED.		
Type Test:		☒ Initial ☐ Annual ☐ Special		Test Date:		Well No. 1	
Completion Date:		Total Depth: 15200		Plug Back TD: 15122		Elevation: 14540	
Csg. Size: 5 1/2		Wt. 18		Set At: 15200		Perforations: From 14506 To 14540	
Tbg. Size: 3 1/2		Wt. 9.3		Set At: 11859		Perforations: From To: CONFIDENTIAL	
Type Well: Single-Bradenhead G.G. or G.G. Multiple				Packer Set At: 11859		Formation: MORROW	
Producing Thru tbg:		Reservoir Temp. °F: 208.2 @ 14523		Mean Annual Temp. °F: 60		Baro. Press. -1°: 13.2	
L: **14523		H: 14523		Ug: 0.589		%CO ₂ : 0.616	
				%N ₂ : 8.218		%H ₂ S:	
				Prover:		Meter Run: 6.065	
						Taps: flg	
FLOW DATA				TUBING DATA			
No.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. In.	Temp. °F	Press. p.s.i.g.	Temp. °F
SI							
1	6 X 2.50		741		107	2000	
2	6 X 2.50		752		90	1860	
3	6 X 2.50		765		76	1626	
4	6 X 2.50		763		71	1435	
5							
RATE OF FLOW CALCULATIONS							
No.	COEFFICIENT (24 Hour)		$\sqrt{h_w P_m}$	Pressure P _w	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress Factor F _{sp}
1							
2							
3			Gas	measured	by total	flow	meter
4							
5							
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio		
1					A.P. 1 Gravity of Liquid Hydrocarbons		
2					Specific Gravity Separator Gas		
3		N/A			Specific Gravity Flowing Fluid		
4					Critical Pressure		
5					Critical Temperature		
P _c 2256.9 P _w 5093.6					DRY GAS Mcf/Day		
No.	P _r ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.816$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.797$		
1		2055.7	4225.9	867.7			
2		1891.8	3578.9	1514.7			
3		1664.1	27699.2	2324.4			
4		1513.1	2289.5	2804.1			
5							
Absolute Open Flow: 9073 Mcfd @ 15.025					Angle of Slope (°): 45.5 Slope n: 0.9826		
Remarks: NO FLUID PRODUCED ** BHP INST. @ THIS POINT ** KNOWN BHPS							
Approved By Division:		Conducted By: SIGNAL WIRE LINE		Calculated By: BM		Checked By: BM	



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (Pc or Ps)
FROM KNOWN BOTTOM HOLE PRESSURE (Pf or Ps)

FORM C-122F

COMPANY: BOG/POGO

UNIT

L

14523

LEASE : B.L.F.24

SECTION : 24

H : 14523

CO2 : 0.616

GH : 8554.0

WELL NO. : 1

TWSHP : 22

L/H : 1

N2 : 8.218

PCR : 672

DATE

RANGE :

G/GHIX : 0.5890

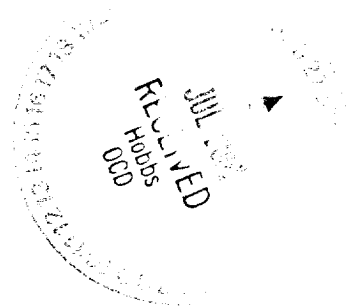
H2S :

TCR : 350

LINE

		1	2	3	4	5	6	7	8
1	TW(W.H. R)	534	534	534	534	534	534	534	534
2	TS(B.H. R)	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
3	T=(TW+TS/2)	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
4	Z (EST.)	0.929	0.856	ERR	ERR	ERR	ERR	ERR	ERR
5	TZ	563	519	ERR	ERR	ERR	ERR	ERR	ERR
6	GR/TZ	15.186	16.475	ERR	ERR	ERR	ERR	ERR	ERR
7	eS(TABLE XIV)	1.767	1.855	ERR	ERR	ERR	ERR	ERR	ERR
8	Pf or Ps	3073.69	3073.69	0	0	0	0	0	0
9	Pf2 or Ps2	9447.6	9447.6	0.0	0.0	0.0	0.0	0.0	0.0
10	Pc2=Pf/eS or Ps2=Ps2/eS	5345.7	5093.5	ERR	ERR	ERR	ERR	ERR	ERR
11	Pc or Ps	2312	2257	ERR	ERR	ERR	ERR	ERR	ERR
12	P=(Pw+Ps/2) or (Pc+Pf/2)	2693	2665	ERR	ERR	ERR	ERR	ERR	ERR
13	Pr=(P/Pcc)	4.01	3.97	ERR	ERR	ERR	ERR	ERR	ERR
14	Tr(T/Tcr)	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
15	Z (TABLE XI)	0.856	0.856	ERR	ERR	ERR	ERR	ERR	ERR

1 : 2256.9 PW 2 : ERR PW 3 : ERR PW 4 : ERR



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURE (P_w or P_f)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or P_s)

FORM C-122F

COMPANY/BOG/POGO

LEASE : B.L.F.24 WELL NO. : 1

DATE

UNIT

SECTION : 24

TWN/SHF : 22

RANGE :

L

14523

H : 14523

L/H : 1

G/GHIX : 0.5890

CO2 : 0.616

W2 : 8.218

H2S :

GB : 8554.0

PCR : 672

TCR : 350

LINE

1

2

3

4

5

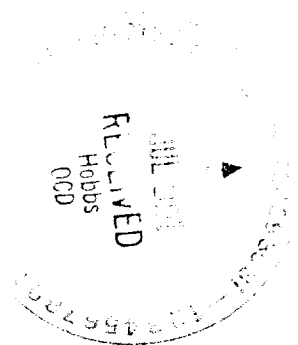
6

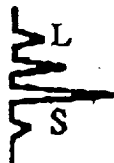
7

8

1	TW(W.R. R)	534	534	534	534	534	534	534	534
2	Ts(B.R. R)	679.2	679.2	679.2	679.2	679.2	679.2	679.2	679.2
3	T=(Tw+Ts/2)	606.6	606.6	606.6	606.6	606.6	606.6	606.6	606.6
4	Z (EST.)	0.921	0.853	0.854	0.853	0.853	0.856	0.855	0.860
5	TZ	559	518	518	517	517	519	518	522
6	GH/TZ	15.312	16.527	16.506	16.531	16.533	16.472	16.500	16.393
7	eS(TABLE XIV)	1.776	1.859	1.857	1.859	1.859	1.855	1.857	1.849
8	Pf or Ps	2802.54	2802.54	2579.26	2579.26	2266.32	2266.32	2057.6	2057.6
9	Pf2 or Ps2	7854.2	7854.2	6652.6	6652.6	5136.2	5136.2	4233.7	4233.7
10	Pc2=Pf/eS or Pw2=Ps2/eS	4423.1	4226.1	3582.4	3579.1	2763.0	2769.4	2280.4	2289.5
11	Pc or Pw	2103	2056	1893	1892	1662	1664	1510	1513
12	P=(Pw+Ps/2) or (Pc+Pf/2)	2453	2429	2236	2236	1964	1965	1784	1785
13	Pr=(P/Pct)	3.65	3.61	3.33	3.33	2.92	2.92	2.65	2.66
14	Tr(T/Tcr)	1.73	1.73	1.73	1.73	1.73	1.73	1.73	1.73
15	Z (TABLE XI)	0.853	0.853	0.853	0.853	0.856	0.856	0.860	0.860

PW 1 : 2055.7 PW 2 : 1891.8 PW 3 : 1664.1 PW 4 : 1513.1



**Laboratory Services, Inc.**

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: EOG Resources Inc.
Attention: Mr. Don Pitta
5626 Tatum Hwy.
Lovington, New Mexico 88260

SAMPLE: Sta. #88081003
IDENTIFICATION: Bootleg 24 Fed. #1
COMPANY: EOG Resources
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 7/9/01 1:00PM
ANALYSIS DATE: 7/13/01
PRESSURE - PSIG 759
SAMPLE TEMP. °F 76
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Ray Ables
ANALYSIS BY: Roland Perry

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	8.218	
Carbon Dioxide (CO2)	0.518	
Methane (C1)	93.634	
Ethane (C2)	2.069	0.552
Propane (C3)	0.405	0.111
I-Butane (IC4)	0.054	0.021
N-Butane (NC4)	0.059	0.019
I-Pentane (IC5)	0.008	0.002
N-Pentane (NC5)	0.005	0.002
Hexane Plus (C6+)	0.024	0.010
	100.000	0.717

BTU/CU.FT. - DRY 998
AT 14.650 DRY 995
AT 14.650 WET 978
AT 14.73 DRY 1000
AT 14.73 WET 983

MOLECULAR WT. 17.0497

SPECIFIC GRAVITY -
CALCULATED 0.589
MEASURED

