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

RECEIVED
OCD - ARTESIA

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Marbob Energy Corp				Lease or Unit Name Lusk Deep Unit			
Type Test ☐ Initial X☐ Annual ☐ Special				Test Date 09-30-00		Well No. 16	
Completion Date		Total Depth		Plug Back TD	Elevation	Unit Ltr. - Sec. - TWP - Rge 18 - 19S - 32E	
Csg. Size 5.5	Wt.	D	Set At	Perforations: From: To:		County Eddy Lea	
Thg. Size 2.375	Wt.	D	Set At	Perforations: From: 12153 To: 12192		Pool	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At		Formation	
Producing Thru Tubing	Reservoir Temp. °F 172		Mean Annual Temp. °F	Baro. Press - P_a 13.2		Connection Pipeline	
L	H	Gg 0.673	%CO_2 0.5571	%N_2 0.585	%H_2S 0.0	Prover	Meter Run 4.035	Taps Flange

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration Of Flow
SI							3150				96 Hours
1.	4 inch	X	1.5	650	1.7	107	2700				1 Hour
2.	4 inch	X	1.5	655	6.5	111	2300				1 Hour
3.	4 inch	X	1.5	660	13.1	120	1950				1 Hour
4.	4 inch	X	1.5	665	21	126	1560				1 Hour
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, F pv.	Rate of Flow Q, Mcfd
1.	12.94	33.5773733	663.2	0.957	1.218	1.05	534
2.	12.94	65.9037176	668.2	0.954	1.218	1.05	1051
3.	12.94	93.909105	673.2	0.946	1.218	1.06	1492
4.	12.94	119.340689	678.2	0.942	1.218	1.06	1889
5.							

No.	P_r	Temp. °R	T_r	Z
1.				0.9
2.				0.89
3.				0.883
4.				0.881
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A. P. I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.673 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R. _____ R

P_c 4202 P_c^2 17656804

No.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		3923	15389929	2266875
2.		3375	11390625	6266179
3.		2921	8532241	9124563
4.		2408	5798464	11858340
5.				

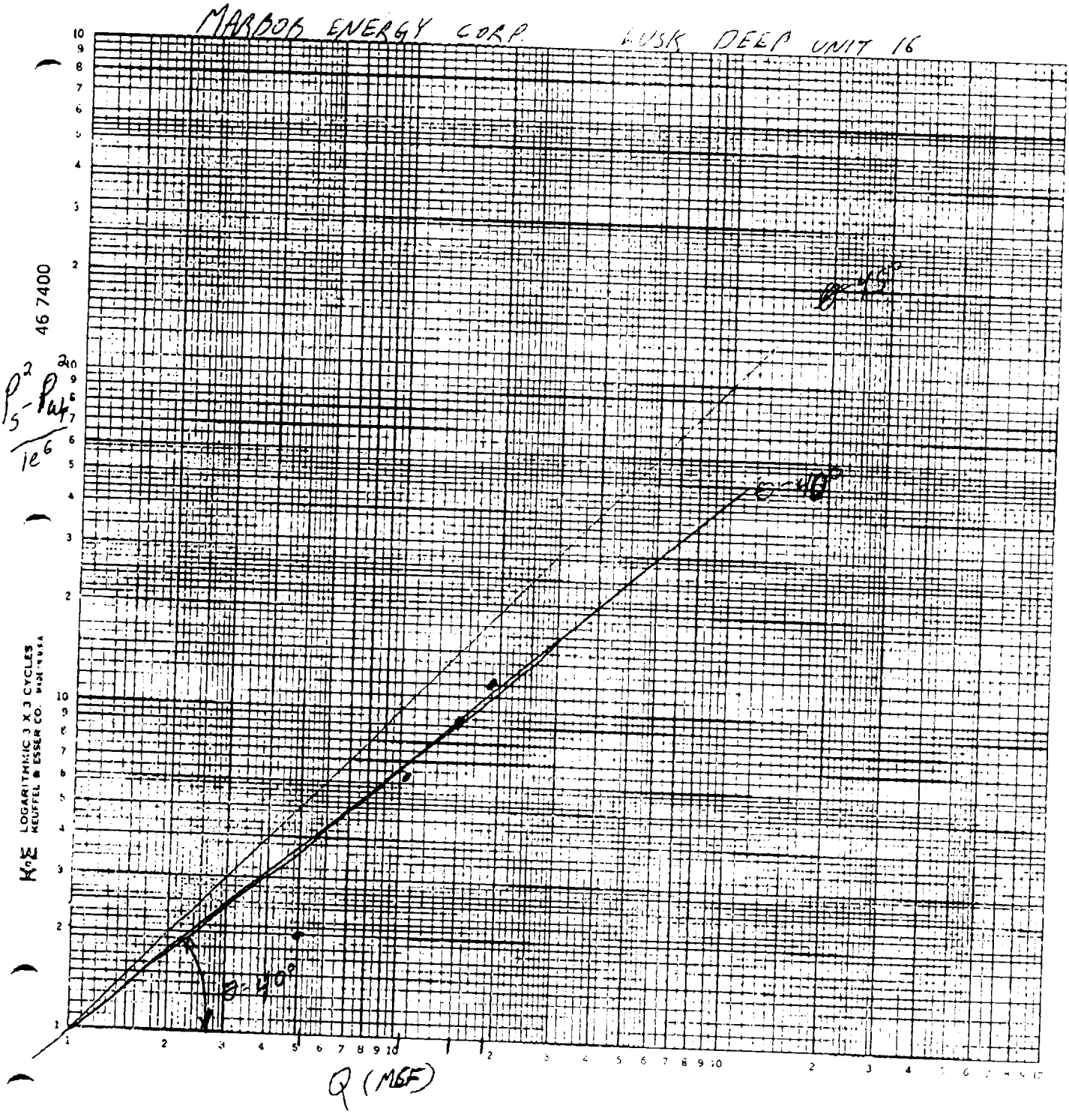
(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 2.817 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 2.36

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 4462

Absolute Open Flow 4462 Mcfd @ 15.025 Angle of Slope θ: 40 Slope, n: 0.83

Remarks: Flow 1 Choke Size 5/64 Flow 2 choke Size 8/64 Flow 3 Choke Size 10/64 Flow 4 Choke Size 12/64 _____

Approved By Division	Conducted By:	Calculated By:	Checked By:
ORIGINAL SIGNED BY DISTRICT SUPERVISOR	Keltic Services Inc	JJ McGlasson	


MARBOB ENERGY CORP
LUSK DEEP UNIT 16
46 7400
$P_c^2 - P_{wf}^2$ / $1e^6$
θ = 45°
θ = 40°
θ = 40°
KOE LOGARITHMIC 3 X 3 CYCLES
KEUFFEL & ESSER CO.
Q (MCF)

AOF = 4462 MCF

Wildcat Measurement Service
P.O. Box 1836
Artesia, New Mexico 88211-1836
TollFree #888-421-9453
Office #505-746-3481
"Quality and Service is our First Concern"

PDS 06/25/00

Run No. 21002-11
Date Run 10/02/2000
Date Sampled 09/30/2000

Analysis for: MARBOB ENERGY CORPORATION
Well Name: LUSK DEEP UNIT #16
Field:
Sta. Number:
Purpose: SPOT-4 POINT
Sampling Temp: DEG F
Volume/day: 1500 MCF/DAY
Pressure on Cylinder: 640 PSIG

GPANGL.L60

Producer: MARBOB ENERGY CORPORATION
County: LEA State: NM
Sampled By: KELTIC SERVICES
Atmos Temp: DEG F
Formation:
Line Pressure: 653.2 PSIA

GAS COMPONENT ANALYSIS

		Mol %	GPM
Carbon Dioxide	CO2	0.5571	
Nitrogen	N2	0.5855	
Methane	C1	87.2751	
Ethane	C2	7.0767	1.8915
Propane	C3	2.8825	0.7937
Iso-Butane	IC4	0.3654	0.1195
Nor-Butane	NC4	0.6910	0.2178
Iso-Pentane	IC5	0.1541	0.0564
Nor-Pentane	NC5	0.1410	0.0511
Hexanes Plus	C6+	0.2716	0.1185
TOTAL		100.0000	3.2485

Pressure Base:	14.7300
Real BTU Dry:	1142.05
Real BTU Wet:	1122.18
Real Calc. Specific Gravity:	0.6537
Field Specific Gravity:	0.0000
Standard Pressure:	14.6960
BTU Dry:	1139.42
BTU Wet:	1119.59
Z Factor:	0.9973
N Value:	1.2916
Avg Mol Weight:	18.8898
Avg CuFt/Gal:	56.5224
26 Lb Product:	0.3469
Methane+ GPM:	18.0413
Ethane+ GPM:	3.2485
Propane+ GPM:	1.3570
Butane+ GPM:	0.5633
Pentane+ GPM:	0.2259

REMARKS:

Tue Oct 03 08:57:39 2000

Approved by: DON NORMAN