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FEB 12 1985

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

Form C-122
Revised 9-1-65Type G.C.D.

ARTESIA, OFFICIAL

☐ Annual☐ SpecialTest Date
2-6-85

Company

Gulf Oil Exploration

Connection

Air

Pool

N. Loving

Formation

Atoka

Well
Eddy GR

Completion Date

01-17-85

Total Depth

12901

Plug back To

12100

Elevation

G1 3024

Csg. Size

5"

Wt.

15

d

-

Set At

9708

Perforations:

From 11564

To 11570

Well No.

2

Trg. Size

2 3/8"

Wt.

4.7

d

-

Set At

11493

Perforations:

From 11564

To 11570

Unit

G

Sec.

16

Twp.

23S

Rpt.

28E

Type Well - Single - Prodenhead - G.C. or G.O. Multiple

Single

Packer Set At

11493

Producing Thru

Tubing

Reservoir Temp. °F

187

Mean Annual Temp. °F

60

Baro. Press. - P_a

13.2

County

Eddy

State

New Mexico

Prover

11493

H

11493

G_g

0.5751

% CO₂

.384

% N₂

.662

% H₂S

-

Prover

Separator

Meter Run

4.026

Type

flange

FLOW DATA

TUBING DATA

CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							4880	48	1470	-	
1.	4.026		2.500	780	86	57	3660	63	1590	-	1.0
2.	4.026		2.500	780	54	65	4100	65	1680	-	1.0
3.	4.026		2.500	780	32	83	4375	66	1690	-	1.0
4.	4.026		2.500	780	13.5	92	4580	67	1700	-	1.0
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, Mhd
1	32.64	261.18	793.20	1.003	1.319	1.062	11,977
2	32.64	206.96	793.20	0.9952	1.319	1.062	9,417
3	32.64	159.18	793.20	0.9786	1.319	1.059	7,102
4	32.64	103.48	793.20	0.9706	1.319	1.049	4,536
5.							

NO.	η	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.1804	517	1.4856	0.886	-	-	0.5751	XXXXXX	672	348
2	1.1804	525	1.5086	0.886				XXXXX		
3	1.1804	543	1.5603	0.891						
4	1.1804	552	1.5862	0.909						
5.										

NO.	P _c ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	13492	4612	21268	15081	2410	1.770
2	16810	5121	26225	10124		
3	19141	5435	29539	6810		
4	20976	5667	32115	4234		
5						

Absolute Open Flow 20,500

Mhd @ 15.025

Angle of Slope 57

Slope, n 649

Remarks:

Approved By Commissioner:

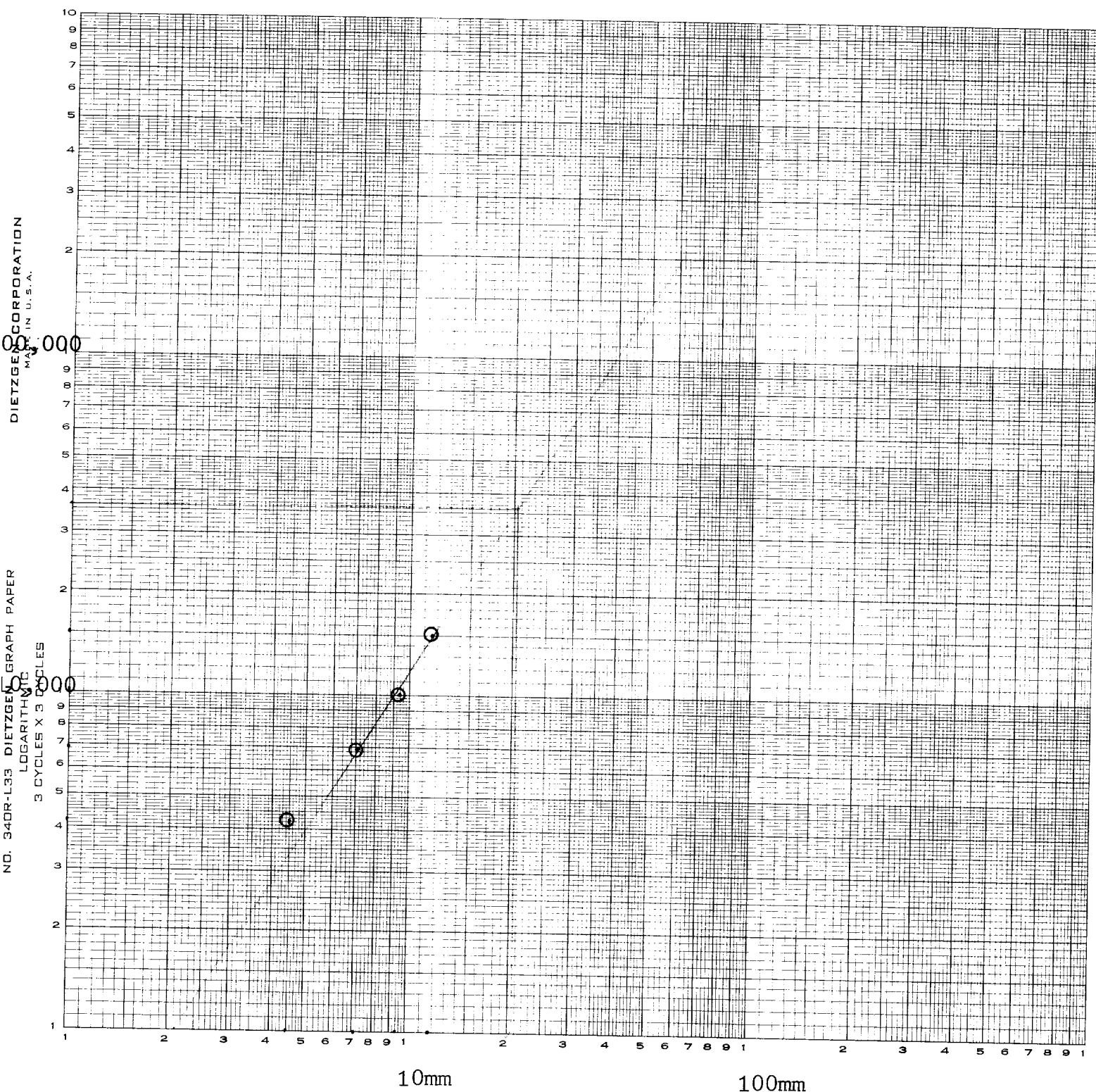
Conducted By:

David Bump

Calculated By:

Checked By:

Gulf Oil Exploration & Production Eddy GR #2



$Q =$ Rate 20,500

Angle of slope 57°

Slope $n .649$