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appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

APR 20 1995

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator EXXON USA					Lease or Unit Name EUMONT-2 Gas Com 2				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-13-95		Well No. 2		
Completion Date 3-20-95		Total Depth 3914		Plug Back TD 3740		Elevation		Unit Ltr. - Sec. - TWP - Rge. K 29-21S-36E	
Csg. Size 5 1/2	Wt. 17#	d 4.892	Set At 3882	Perforations: From: 3220 To: 3669			County LEA		
Tbg. Size 2-3/8	Wt. 4.7#	d 1.995	Set At 3170	Perforations: From: To:			Pool Eumont		
Type Well - Single - Bradenhead - G.G. or H.O. Multiple single					Packer Set At 3170'		Formation SEVEN RIVERS		
Producing Thru 186		Reservoir Temp. °F 95		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection SID RICHARDSON	
L 3220	II 3220	Gg .773	% CO ₂ 8.56	% N ₂ 1.84	% H ₂ S	Prover	Meter Run 4.026	Taps FLG.	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	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						187				
1.	4.076	X1.000	22.8	27.04	73°	91	62	PKR		24 hr,
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\frac{h_w P_m}{P_c}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	4.753	31.20	36	.9877	1.137	1.002	167
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.05	533	1.34	.996	DRV GAS	
2.					A.P. I. Gravity of Liquid Hydrocarbons	DRV
3.					Specific Gravity Separator Gas	.773
4.					Specific Gravity Flowing Fluid	DRV
5.					Critical Pressure	*699
					Critical Temperature	*398

P_c 200.2 P_c² 40.1

NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²
1.	10.9	106.1	11.3	28.8
2.				
3.				
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.391$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.391$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 232$

Absolute Open Flow	232	Mcf @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
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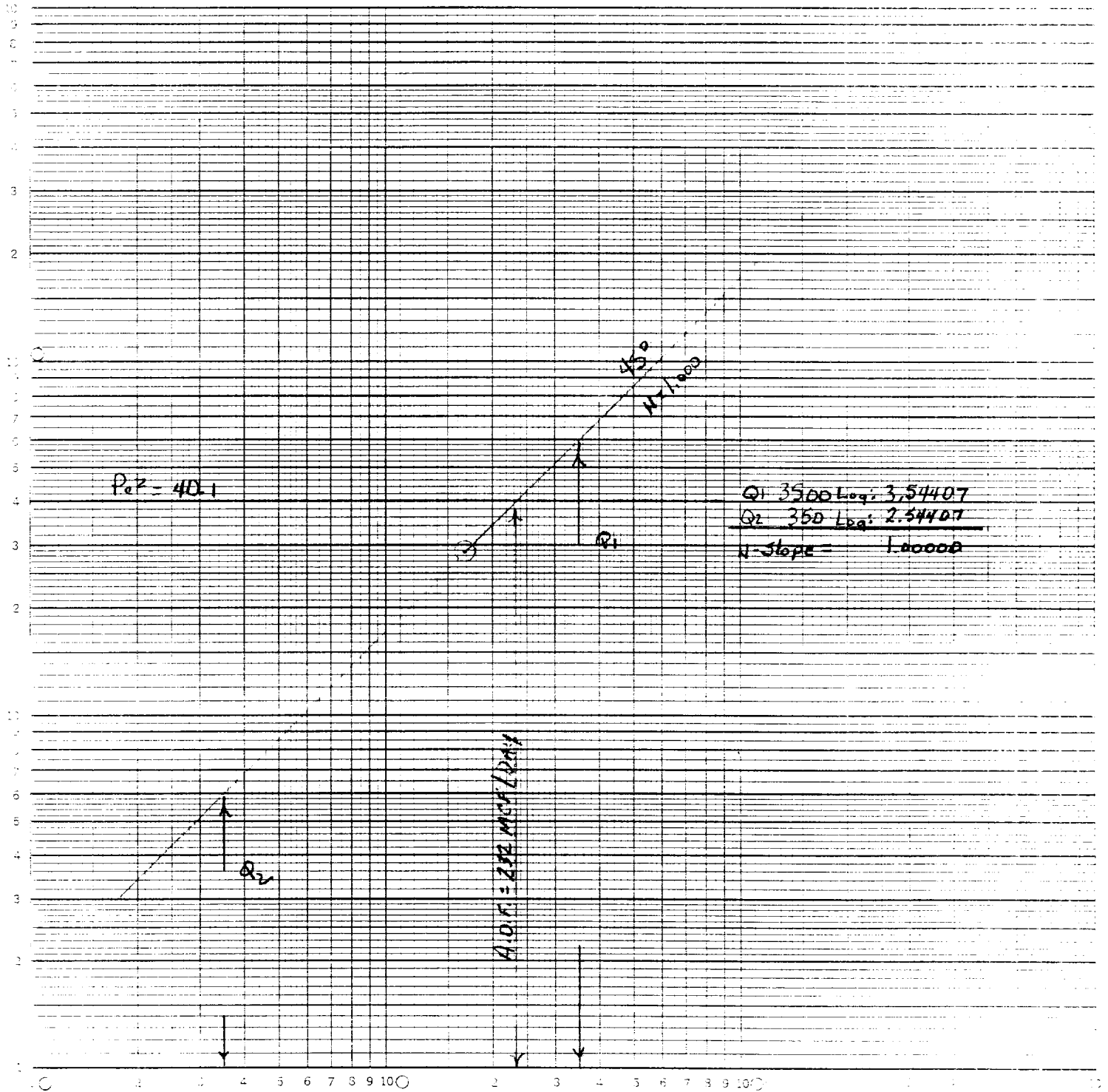
Remarks: *CORRECTED TO 8% CO₂ & 1% N₂

Approved By Division	Conducted By: PRO WELL TESTER	Calculated By: KS	Checked By: BM
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EXXON USA
 Eumont 2, Well # 2
 K-29-21S-36E
 Lea County, New Mexico
 4-13-95

$P_0^2 - P_w^2$ (thsnds) 46 7400

LOGARITHMIC SCALE
 KEUFFEL & ESSER CO. MADE IN U.S.A.



Q MCF/DAY

RECEIVED

APR 20 1955

CLUB HOBBS
OFFICE

COMPANY : EXXON U.S.A. LEASE : MOUNT 2 WELL NO. : 2 Pc = 200.2 Pc2 = 40.1 *
 UNIT : K SECTION : 29 TOWNSHIP : 21
 L : 3220 H : 3220 L/H : 1 G/GMIX : 0.773 Pt2 = 10.9 Pw = 106.1 *
 SCOD : 3.56 SN2 : 1.84 H2S : DATE : 04-13-95 0.0 ERR *
 G : 2.001 Fr : 0.018038 GH : 2489.1 RANGE : 35 0.0 ERR *
 0.0 ERR *

VOL 1 : 167 PSIA 1 : 104.2 RESV. TEMP : 95.0 Pc2-Pw2 = 28.8 Pw2 = 11.3 *
 VOL 2 : PSIA 2 : ERR ERR *
 VOL 3 : PSIA 3 : ERR ERR *
 VOL 4 : PSIA 4 : ERR ERR *
 SHUT-IN PR = 200.2
 PCR : 699 n = 1.000
 TOR : 398

LINE	RATE 1		RATE 2		RATE 3		RATE 4		
	1ST	2ND	1ST	2ND	1ST	2ND	1ST	2ND	
1 GM	0.167	0.167	0.000	0.000	0.000	0.000	0.000	0.000	
2 TW	534	534	534	534	534	534	534	534	[Pc2/Pc2-Pw2]n = 1.391
3 Ts	555.0	555.0	555.0	555.0	555.0	555.0	555.0	555.0	ERR
4 T	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	ERR
PR (est)	0.15		0.00		0.00		0.00		ERR
5 Z(est)	0.956	0.955	ERR	ERR	ERR	ERR	ERR	ERR	
6 TZ	520.6	519.9	ERR	ERR	ERR	ERR	ERR	ERR	AOF= Q 0.232
7 GH/TZ	4.782	4.787	ERR	ERR	ERR	ERR	ERR	ERR	ERR
8 eS	1.196	1.197	ERR	ERR	ERR	ERR	ERR	ERR	ERR
9 1-e-S	0.164	0.164	ERR	ERR	ERR	ERR	ERR	ERR	ERR
10 Pt	104.2	104.2	0.0	0.0	0.0	0.0	0.0	0.0	
11 Pt2 /1000	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	
12 Fr	0.018088	0.018088	0.018088	0.018088	0.018088	0.018088	0.018088	0.018088	
13 Fc=FrTZ	9.416	9.405	ERR	ERR	ERR	ERR	ERR	ERR	
14 FcQm	1.57	1.57	ERR	ERR	ERR	ERR	ERR	ERR	
15 L/H(FcQm)	2.5	2.5	ERR	ERR	ERR	ERR	ERR	ERR	
16 Fw	0.405905	0.405390	ERR	ERR	ERR	ERR	ERR	ERR	
17 Pw2	11.3	11.3	ERR	ERR	ERR	ERR	ERR	ERR	
18 Ps2	13.5	13.5	ERR	ERR	ERR	ERR	ERR	ERR	
19 Ps	116.1	116.1	ERR	ERR	ERR	ERR	ERR	ERR	
20 P	110.1	110.1	ERR	ERR	ERR	ERR	ERR	ERR	
21 Pr	0.16	0.16	ERR	ERR	ERR	ERR	ERR	ERR	
22 Tr	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	
23 Z	0.955	0.955	ERR	ERR	ERR	ERR	ERR	ERR	FORM C122-D

ILLEGIBLE

Equivalent Diameter Program

Author: Bob Murray

Date: December 26, 1990

L1 =	3170 ft.	L5 =	0 ft.	L9 =	3220 ft.
D1 =	1.295 in.	D5 =	1 in.	D =	0.10797
L2 =	30 ft.	L6 =	0 ft.		
D2 =	4.392 in.	D6 =	1 in.	Def =	2.001 in.
L3 =	0 ft.	L7 =	0 ft.	Fr =	0.01764
D3 =	1 in.	D7 =	1 in.		
L4 =	0 ft.	L8 =	0 ft.		
D4 =	1 in.	D8 =	1 in.		

ILLEGIBLE

RECEIVED

APR 26 1995

**OLD HOBBS
OFFICE**

L
M
S

Laboratory Services, Inc.

1331 Taskar Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR:

Pro Well Testing & Wireline
Attention: Mr. Merv Buecker
P. O. Box 791
Hobbs, New Mexico 88241

SAMPLE

IDENTIFICATION: Eumont 2-2

COMPANY: Exxon Company USA

LEASE:

PLANT:

SAMPLE DATA: DATE SAMPLED: 04-13-95
ANALYSIS DATE: 04-13-95
PRESSURE - PSIG 36.00
SAMPLE TEMP. °F 73.00
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Merv Buecker
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.84	
Carbon Dioxide (CO2)	8.56	
Methane (C1)	73.89	
Ethane (C2)	8.81	2.349
Propane (C3)	4.27	1.174
I-Butane (IC4)	0.55	0.178
N-Butane (NC4)	1.17	0.367
I-Pentane (IC5)	0.31	0.113
N-Pentane (NC5)	0.25	0.092
Hexane Plus (C6+)	0.35	0.142
	100.00	4.415

BTU/CU.FT. - DRY	1105
AT 14.650 DRY	1101
AT 14.650 WET	1082
AT 14.73 DRY	1107
AT 14.73 WET	1088

MOLECULAR WT. 22.3687

SPECIFIC GRAVITY -
CALCULATED 0.773
MEASURED