

WORK SHEET FOR STEPWISE CALCULATION

(SUBSURFACE) PRESSURE (P_f & P_s)
(SURFACE) (P_c & P_w)

Form C-122-E

RATE NO. 4

COMPANY Maralo, Inc. LEASE Chavelea Carson WELL NO. 1 DATE 4-13-77

LOCATION: UNIT F SECTION 10 TOWNSHIP 9S RANGE 31E
10163 H 10163 L/H 1.00 G 0.899 % CO₂ 0.00 % N₂ 0.00 % H₂S 0.00
 d F r Q m M cfd (L/H) (F Q r m) 2 P cr 662 T cr 457

LINE	ITEM	SOURCE	1	2	3	4	5	6	7	8	9	10
1	1		10163	5082	0							
2	GH		9137	4568	0							
3	37.5GH		342620	171310	0							
4	P _c or P _n		2676.2	2170.4	1662.4	1647.4						
5	P _r		4.04	3.28	2.51	2.49						
6	T		637	588	539	539						
7	T _r		1.39	1.29	1.18	1.18						
8	Z		0.711	0.621	.492	.492						
9	P/Z P/Z		4 ÷ 8	3761.88	3497.19	3378.86	3349.7					
10	P/TZ		9 ÷ 6	5.9056	5.9476	6.269	6.215					
11	(P/TZ ² /1000		(10 ² /1000									
12	L/H(F _r Q _m) ²											
13			11 + 12									
14	I _n		10 ÷ 13	169.330	168.135	159.521	160.908					
15	M=P _n -P _{n-1}			506	523	521	521					
16	N=1 _n +1 _{n-1}			337.465	327.656	329.043						
17	M x N		15 x 16	170757		171431						
18	Σ (M x N)		Σ 17	170757		342188						

$$\Delta P = \frac{3(342620)}{169.330 + 4(168.135) + 160.908} = \frac{1027860}{1002.778} = 1025.0 \quad P = 2676.2 - 1025.0 = 1651.2$$

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APR 28 1977

OIL CONSERVATION COMM.
HOUSTON, TEXAS

SOUTHWESTERN LABORATORIES

1703 West Industrial — P. O. Box 2150

MIDLAND, TEXAS 79701

(915) 683-3348

FRACTIONAL ANALYSIS REPORT

SAMPLE MARKED Chavala Carson No. 1

SAMPLE FROM MARALO, Inc.

DATE OF RUN 4/18/77

DATE RECEIVED 4/14/77

FILE NO. C-1902-G

LAB. NO. 40266

DATE SECURED 4/13/77

SECURED BY West Texas Consulting Service, Inc.

COMPONENT	MOL. %	G. P. M.	LIQUID VOL. %
Oxygen			
Nitrogen	2.06		
Carbon Dioxide	0.81		
Methane	81.29		
Ethane	9.01		
Propane	4.35	1.194	
I-Butane	0.61	0.199	
N-Butane	1.18	0.371	
I-Pentane	0.30	0.109	
N-Pentane	0.26	0.094	
Hexanes	0.05	0.021	
Heptanes & Heavier	0.08	0.037	
Hydrogen Sulfide *	None Det.		
Helium			
Hydrogen			
Carbon Monoxide			
TOTALS	100.00	2.025	

CONDENSATE VALUES, G.P.M.

Propane

Butane

Gasoline

HEATING VALVE, B.T.U. Per Cu. Ft.*

Calculated from % Composition

1177

Calculated water saturated

1156

SULPHUR CONTENT, Grains Per 100 Cu. Ft.*

Hydrogen Sulfide

Mercaptans

SPECIFIC GRAVITY*

Calculated from % Composition

0.696

*14,696 lbs./sq. in., 60° F

REMARKS * Determined on laboratory sample, less than 4 grains/100 cu. ft.

COPIES: 3cc MARALO, Inc.
1cc West Texas Consulting Service, Inc.

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MARALO INC

SOUTHWESTERN LABORATORIES
Jack H. Barton

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OIL CONSERVATION COMM.
HOBBS, H. M.

SOUTHWESTERN LABORATORIES
FORT WORTH - DALLAS - HOUSTON - MIDLAND - BEAUMONT - TEXARKANA
CONSULTING, ANALYTICAL CHEMISTS
AND TESTING ENGINEERS

_____ Midland, _____ Texas _____ 4/18/77 _____ File No. C-1902-GD

Report of tests on **Fluid**

To **Maralo, Inc.**

Date Rec'd. **4/14/77**

Received from

Identification Marks **Chavela Carson Lease, Well No. 1**

DISTILLATION, ASTM D-86

<u>Percent Distilled</u>	<u>Observed Temperature° F</u>
I.B.P.-----	84
5 -----	112
10 -----	136
20 -----	160
30 -----	171
40 -----	180
50 -----	198
60 -----	256
70 -----	298
80 -----	356
90 -----	458
95 -----	-----
	520 (End Point)

Percent Recovery----- 94.5
Percent Residue ----- 2.0
Percent Loss ----- 3.5
Gravity ----- 58.0 ° A.P.I. @ 60° F
Color----- Light Yellow

Bar. Press. ---- 685 mm Hg

3cc Maralo, Inc.
1cc West Texas Consulting Service, Inc.

Lab. No. 40267

SOUTHWESTERN LABORATORIES

Jack H. Bantz

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MARALO INC

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OIL CONSERVATION COMM.
HOBBS, N. M.



April 22, 1977

New Mexico Oil Conservation Commission
P. O. Box 1980
Hobbs, New Mexico 88240

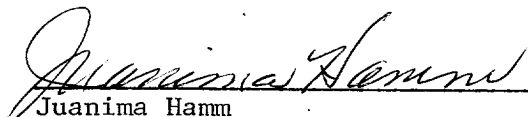
RE: MARALO, INC. CHAVELEA-CARSON, WELL NO. 1,
SEC. 10, T-9-S, R-31-E, CHAVES COUNTY,
NEW MEXICO.

Gentlemen:

This is our statement that the acreage for the above referred
to gas well is not dedicated.

Yours truly,

MARALO, INC.



Juanima Hamm
Production Clerk

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APR 26 1977

OIL CONSERVATION COMM.
HOSES, H. H.