Form 3160-5
(November 1983)
(Formerly 9-331)

NM OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240

UNITED STATES
DEPARTMENT OF THE INTERIOR (Other instructions re
BUREAU OF LAND MANAGEMENT

Budget Bureau No. 1004-1
Expires August 31, 1985

LEASE DESIGNATION AND SERIAL NO.
NM15035

6 IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1
OIL WELL ☐ GAS WELL ☒ OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR
Hunt Oil Company 10825

8. FARM OR LEASE NAME 14 Com 5327
Supron Federal

3. ADDRESS OF OPERATOR
P. O. Box 1350, Midland, Texas 79702

9. WELL NO.
~~14~~-1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
30-025-26719

10. FIELD AND POOL, OR WILDCAT
Antelope Ridge (Morrow) 70440

Unit K, 1980' FWL & 1980' FSL

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 14, T-23-S, R-34-E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

12. COUNTY OR PARISH
Lea

13. STATE
NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other) Downhole Commingle			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Application for approval to downhole commingle Sent Oil Conservation Division.
Procedure to commingle Atoka & Morrow as follows:

1. MIRU wireline on long string (Morrow) side of dual well.
2. RIH w/ Type "B" positioning tool on W/L to "XO" sliding sleeve @ 12,889'. Open sleeve by jarring down. POH w/ tool.
3. If unable to open sliding sleeve, RIH w/ 1-9/16" perforating gun and perforate 2-7/8" tubing at 12,887-12,888'.
4. Close-in short string (Atoka) side and produce well commingled through the Morrow side.

Subject to
Like Approval
by State OCD

AUG 11 1994
O. C. D.
HOBBS, OFFICE

DHC 1031

18. I hereby certify that the foregoing is true and correct

SIGNED Don Yoder Don L. Yoder TITLE Sr. Operation Engineer DATE 8-9-94

(This space for Federal or State office use)

APPROVED BY (ORIG. SGD.) JOE G. LARA TITLE PETROLEUM ENGINEER DATE 9/2/94

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPLICATION FOR APPROVAL TO DOWNHOLE COMMINGLE

Operator: Hunt Oil Company

Address: P.O. Box 1350
Midland, Tx 79702

Lease Name: Supron Federal 14 Com #1

Location: Unit K, Section 14, T23S, R34E NMPM Lea County, NM

Pools: Antelope Ridge (Atoka)
Antelope Ridge (Morrow)

Plat Attached

Packer Leakage Test: Current Packer Leakage Test attached. The Antelope Ridge (Morrow) is incapable of sustained production due to water loading.

Decline Curves: Attached.

Bottomhole Pressures: Atoka - 1,403 PSIA @ 12,043'
Morrow - 1,459 PSIA @ 13,238'

The Atoka bottomhole pressure was calculated from a 72 hour SITP.

The Morrow bottomhole pressure was measured from a static pressure gradient survey after a 72 hour SI.

Fluid Characteristics: Analyses attached. Precipitation is not expected from mixing of produced fluids.

Combined Value: Attached are copies of recent gas analysis for both the Morrow and Atoka zones. No decrease in value in the commingled stream from the Federal 14 Com #1 is anticipated.

Allocation Formula: Recommend that gas production from the commingled zones be allocated evenly between the two zones. When the Morrow was flowing, it would average approximately the same rate as the Atoka.

The Morrow formation produces condensate at the rate of 2.0 BBL per MMCF and the Atoka produces condensate at the rate of 4.0 BBl per MMCF. Thus, assign condensate production at 2/3 rd's to Atoka and 1/3 rd to the Morrow.

Offset Operators Notification: All operators offsetting the subject well have been notified by mail.

General: Attempts to swab the Morrow zone have been unsuccessful. There are wireline tools left in the permanent packer above the Morrow that prevent further remedial efforts to unload the well.

Permission is requested to downhole commingle the Atoka and Morrow zones in this well by either pulling a downhole sliding sleeve above the packer or by perforating the tubing above the sliding sleeve at 12,890'. The additional gas volume from the Atoka will aid in keeping the long string of tubing from loading up with produced fluid.

Waste will be prevented by production of gas reserves now left in the ground.

Submit 3 Copies to Appropriate Dist. Office

RECEIVED

DEC 20 1993

State of New Mexico
Energy, Minerals and Natural Resources Department

Revised 1-1-89

INSTRUCTIONS ON REVERSE SIDE

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

OIL CONSERVATION DIVISION

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

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

HUNT OIL COMPANY
Drilling & Production
Midland, Texas

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator			Lease		Well No.
HUNT OIL COMPANY			SUPRON FEDERAL 14 COM.		1
Location of Well	Unit	Sec.	Twp	Rge	County
	K	14	23	32	LEA

	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. Flow, Art Lift	Prod. Medium (Tbg. or Csg)	Choke Size
Upper Compl	ATOKA SIDE A	GAS	FLOW	TBG.	
Lower Compl	MORROW SIDE B	GAS	FLOW	TBG.	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 12-1-93 10:00AM

Well opened at (hour, date): 12-2-93 10:00AM

	Upper Completion	Lower Completion
Indicate by (X) the zone producing	X	
Pressure at beginning of test	300	550
Stabilized? (Yes or No)	yes	yes
Maximum pressure during test	300	550
Minimum pressure during test	125	550
Pressure at conclusion of test	125	550
Pressure change during test (Maximum minus Minimum)	-175	-0-
Was pressure change an increase or a decrease?	decrease	same

Well closed at (hour, date): _____ Total Time On Production 24 hr.

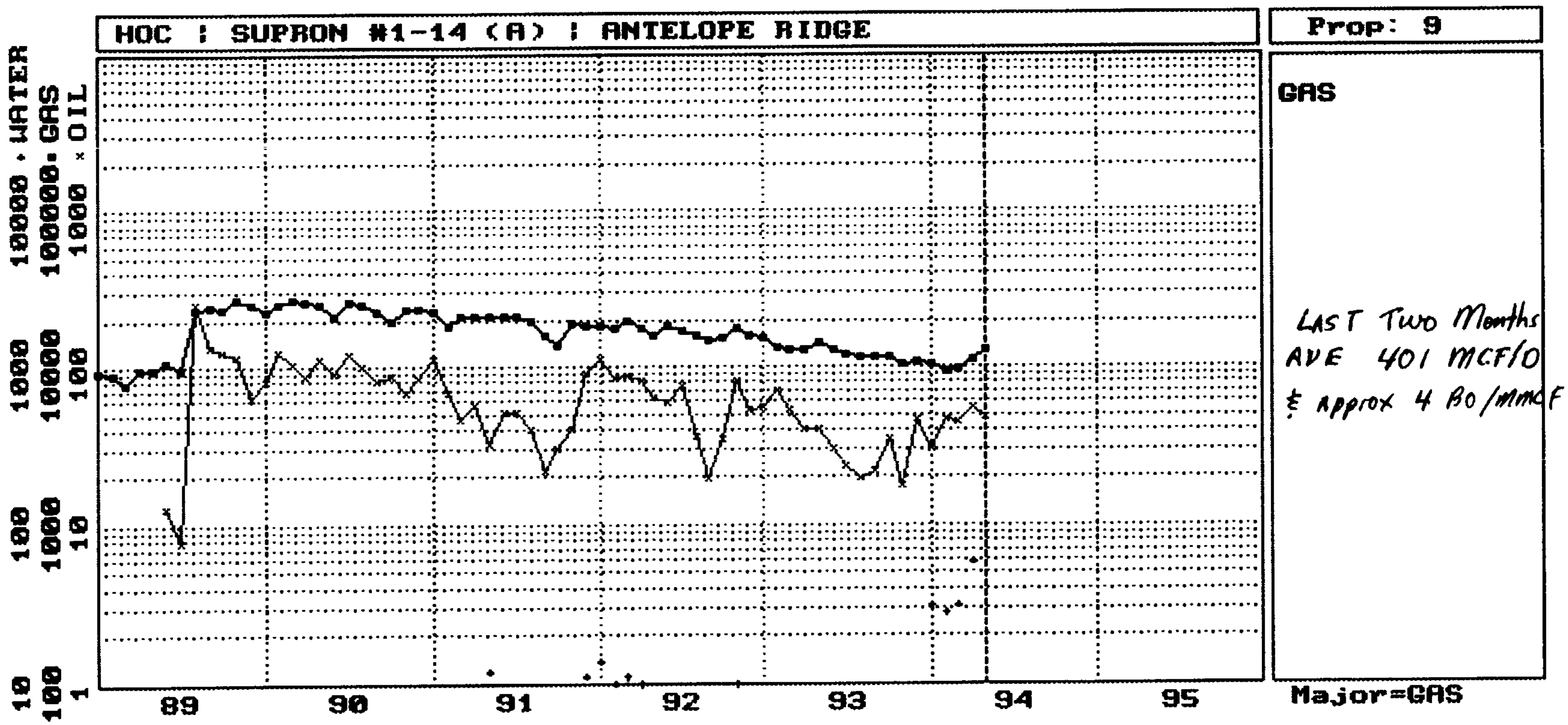
Oil Production During Test: _____ bbls; Grav. _____ Gas Production During Test 554 MCF; GOR _____

Remarks _____

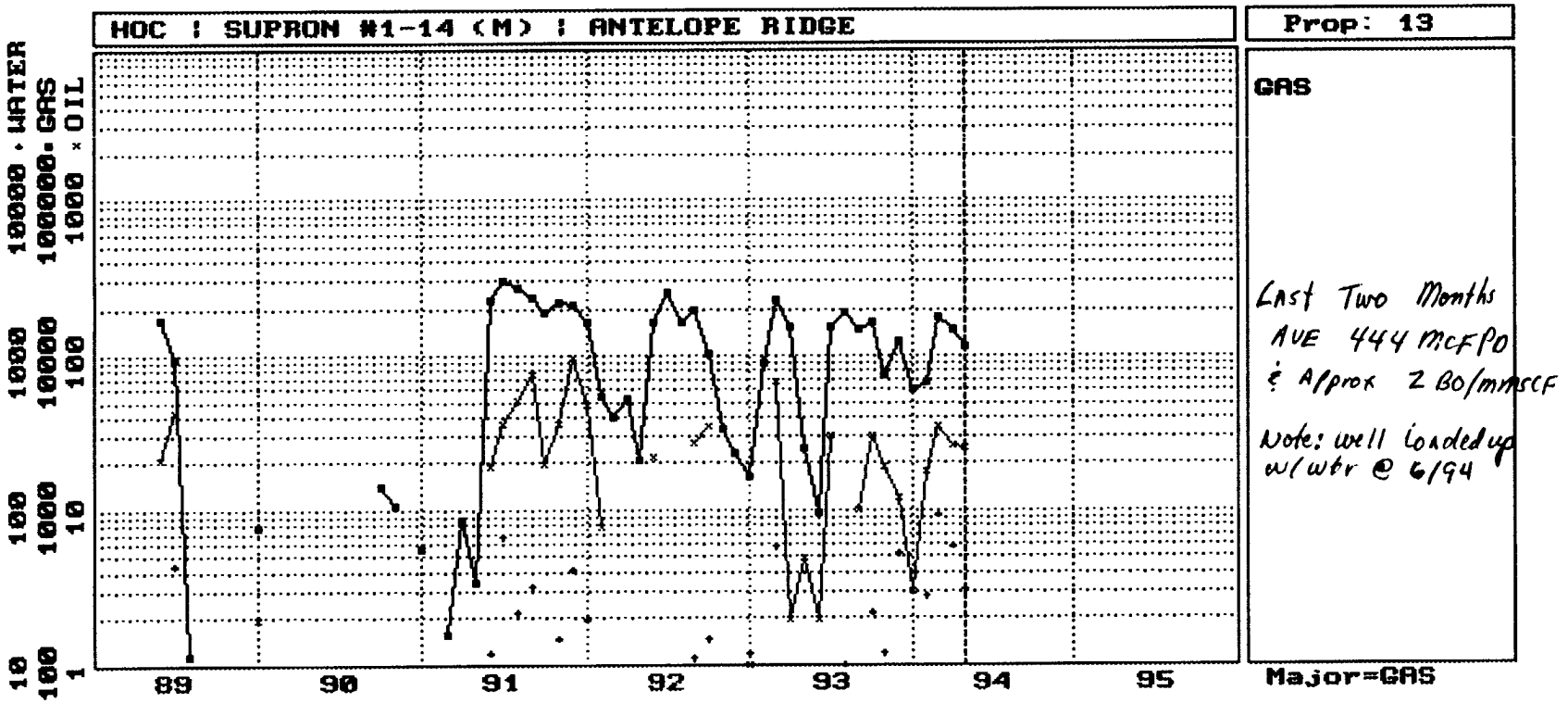
FLOW TEST NO. 2

Well opened at (hour, date): _____

	Upper Completion	Lower Completion



HOC : SUPRON #1-14 (A) : ANTELOPE RIDGE
Prop: 9
10000 • WATER
100000 ■ GAS
1000 × OIL
1000
10000
100
100
1000
10
10
100
1
89
90
91
92
93
94
95
GAS
LAST Two Months
AVE 401 MCF/D
& approx 4 BO/MMCF
Major=GAS


HOC ! SUPRON #1-14 (M) ! ANTELOPE RIDGE
Prop: 13
GAS
Last Two Months
AVE 444 MCFPD
& Approx 2 BO/mmSCF
Note: well loaded up
w/ wtr @ 6/94
Major=GAS
WATER
GAS
OIL
89
90
91
92
93
94
95

--QUICK BHP--

Calculate BHP and Z-factor from surface shut-in pressure

08/08/94

WELL NAME :	Federal Supron 14 Com #1 (Atoka)		
GAS GRAVITY:	0.69	% N2	0.98
CONDENSATE (YES=1):	1	% CO2	0.20 %
RESERVOIR TEMP:	162 'F	% H2S	0.00 %
SURFACE TEMP:	60 'F	Pc =	664.46 %
DEPTH OF ZONE:	12,093 feet	Tc =	378.48

SURFACE PRES	BHP	Z	BHP/Z
psia	psia		psia
1,000	1,388	0.8715	1,593

Written by
Doug Boone
Version 1.0

OTIS ENGINEERING
WELL TESTING SERVICES
B.H.P. SURVEY REPORT

Customer: Hunt Oil
Date: 7-16-94
Field: Eunice
Instrument No.: 47722
Well Name: Superco Fed 14-1
Pressure Range: 0-5000
County, State: Lea NM
Calibration Date: 10-28-93
Type Survey: Static Gradient
Clock Range: 3 hr
Operator: Charlie Taylor
Technician: Charlie
Comments: Attn Dan Vasdal Fx 915 684 0653

Depth	Pressure Change	gradient	PRESSURE DEFLECTION Inches	PRESSURE READING P.S.I.	
-0-			.341	863.8	
2000	41.1	0.020	.357	904.9	
4000	41.1	0.020	.373	946.0	
6000	46.0	0.023	.391	992.3	
8000	43.0	0.021	.408	1036.1	
9000	7.7	0.007	.411	1043.8	
10000	36.1	0.036	.425	1079.9	
11000	23.2	0.023	.434	1103.1	
12000	23.2	0.023	.443	1126.3	
12900	183.0	0.203	.514	1309.3	
13,238		0.3994		1,444	extrapolated mid-Perfs (MORROW)

P. O. BOX 1468
MONAHANS, TEXAS 79756
PH. 943-3234 OR 563-1040

Martin Water Laboratories, Inc.

709 W. INDIANA
MIDLAND, TEXAS 79701
PHONE 683-4521

RESULT OF WATER ANALYSES

TO: Mr. Stan Smith
P. O. Box 1350, Midland, TX 79702

LABORATORY NO. 3948
SAMPLE RECEIVED 3-2-94
RESULTS REPORTED 3-4-94

COMPANY Hunt Oil Company LEASE Supron Federal #14-1
FIELD OR POOL Antelope Ridge
SECTION ____ BLOCK ____ SURVEY ____ COUNTY Lea STATE NM
SOURCE OF SAMPLE AND DATE TAKEN:
NO. 1 Produced (Atoka) water - taken from Supron Federal #14-1.
NO. 2 Produced (Morrow) water - taken from Supron Federal #14-1.
NO. 3
NO. 4
REMARKS:

CHEMICAL AND PHYSICAL PROPERTIES	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0012	1.0257		
pH When Sampled				
pH When Received	6.93	6.58		
Bicarbonate as HCO_3	63	549		
Supersaturation as $CaCO_3$				
Undersaturation as $CaCO_3$				
Total Hardness as $CaCO_3$	36	1,750		
Calcium as Ca	10	608		
Magnesium as Mg	3	56		
Sodium and/or Potassium	28	11,036		
Sulfate as SO_4	11	246		
Chloride as Cl	24	17,755		
Iron as Fe	22.5	25.8		
Barium as Ba				
Turbidity, Electric				
Color as Pt				
Total Solids, Calculated	139	30,249		
Temperature °F.				
Carbon Dioxide, Calculated				
Dissolved Oxygen,				
Hydrogen Sulfide	0.0	0.0		
Resistivity, ohms/m at 77° F.	52.50	0.250		
Suspended Oil				
Filtrable Solids as mg/l				
Volume Filtered, ml				

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks: It is apparent in the above results that the Atoka water is essentially all condensed water vapor whereas the Morrow water herein correlates well with what we would expect from natural Morrow in this field.

RECEIVED
MAR - 7 1994
HUNT OIL COMPANY
Drilling & Production
Midland, Texas

Form No. 3

By _____
Waylan C. Martin, M.A.

***** DAWSON NATURAL GAS SERVICES, INC. *****
1515 IDLEWILDE
P.O. BOX 7006 * MIDLAND, TEXAS 79708-0006
PHONE 915/694-6000

RUN NO: 13121
DATE RUN: 01/11/94

STATION NAME: 58-369 - SUPRON 14 ATOKA
COMPANY NAME: HUNT OIL COMPANY
LOCATION: LEA CO., NM SECURED BY: EKF DATE: 01/06/94
SAMPLE CONDITIONS: PRESS: 104# TEMP: 63F TIME:

********* FRACTIONAL ANALYSIS *********
@ 14.65 PSIA & 60 DEG. F.

	MOL. %	GPM (REAL)
CARBON DIOXIDE	0.20	
NITROGEN	0.98	
OXYGEN		
H2S		
METHANE	84.06	
ETHANE	8.25	2.201
PROPANE	3.64	1.001
ISO-BUTANE	0.64	0.209
N-BUTANE	0.96	0.302
ISO-PENTANE	0.31	0.113
N-PENTANE	0.30	0.108
HEXANES PLUS	0.66	0.286
TOTAL	100.00	4.221

CALC. SP.GR., (REAL)	
DRY BASIS	0.6878
SAT BASIS	0.6869
CALC SP.GR., (IDEAL)	
DRY BASIS	0.6856
SAT BASIS	0.6845
BTU/CU.FT., (REAL)	
DRY BASIS	1197
SAT BASIS	1177
BTU/CU.FT., (IDEAL)	
DRY BASIS	1193
SAT BASIS	1172

********* ADDITIONAL DATA AND REMARKS *********

Z (SAT) 0.996 Z (DRY) 0.997

COPIES TO: KEN FLETCHER-MIDLAND
REMARKS:

***** DAWSON NATURAL GAS SERVICES, INC. *****
1515 IDLEWILDE
P.O. BOX 7006 * MIDLAND, TEXAS 79708-0006
PHONE 915/694-6000

RUN NO: 13122
DATE RUN: 01/11/94

STATION NAME: 58-370 - SUPRON 14 MORROW
COMPANY NAME: HUNT OIL COMPANY
LOCATION: LEA CO., NM SECURED BY: EKF DATE: 01/06/94
SAMPLE CONDITIONS: PRESS: 105# TEMP: 65F TIME:

********* FRACTIONAL ANALYSIS *********
@ 14.65 PSIA & 60 DEG. F.

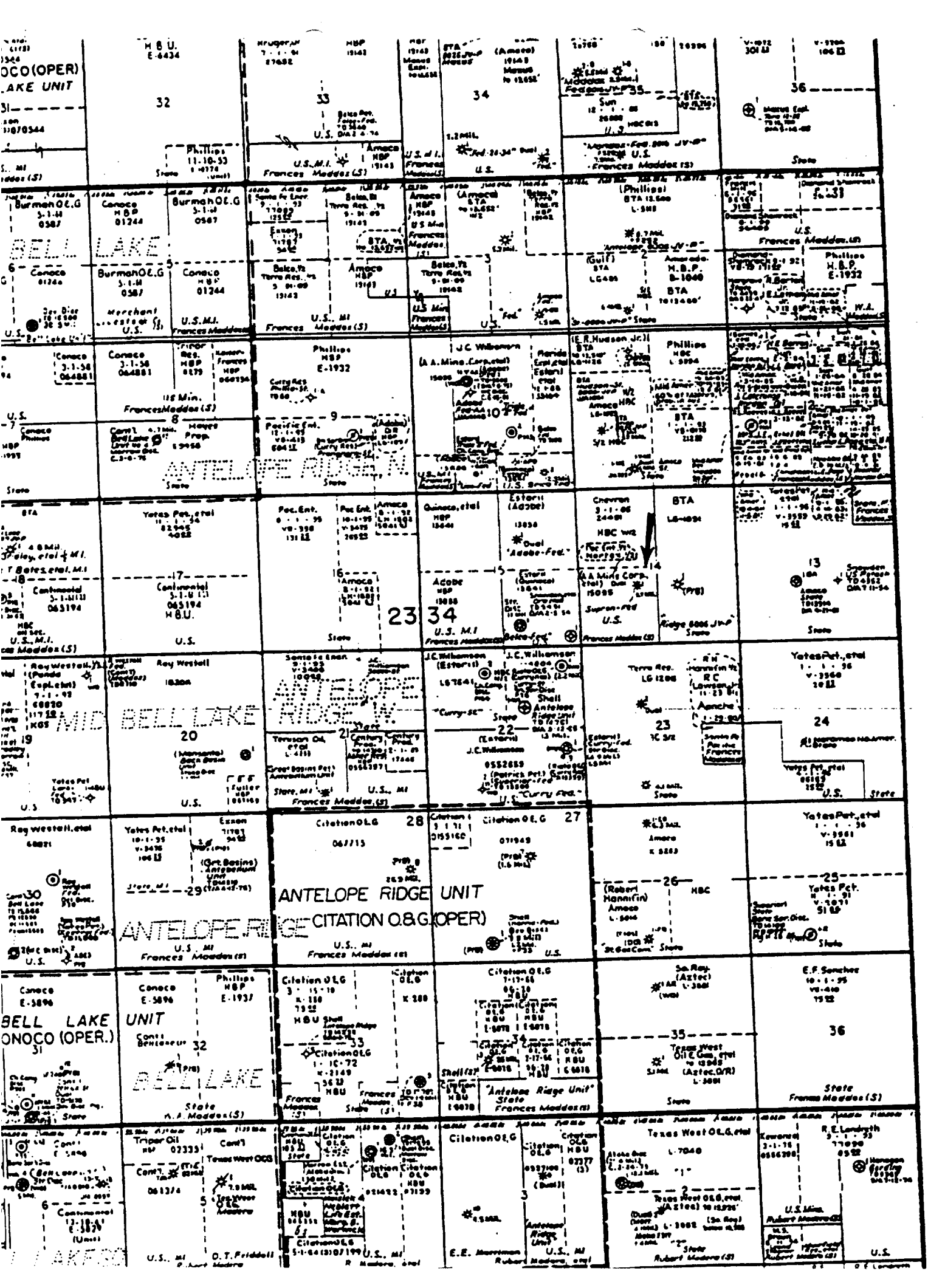
	MOL. %	GPM (REAL)
CARBON DIOXIDE	0.40	
NITROGEN	0.18	
OXYGEN		
H2S		
METHANE	94.30	
ETHANE	3.34	0.890
PROPANE	0.91	0.250
ISO-BUTANE	0.14	0.046
N-BUTANE	0.19	0.060
ISO-PENTANE	0.08	0.029
N-PENTANE	0.06	0.022
HEXANES PLUS	0.40	0.173
TOTAL	100.00	1.470

CALC. SP.GR., (REAL)	
DRY BASIS	0.6012
SAT BASIS	0.6018
CALC SP.GR., (IDEAL)	
DRY BASIS	0.5998
SAT BASIS	0.6001
BTU/CU.FT., (REAL)	
DRY BASIS	1070
SAT BASIS	1052
BTU/CU.FT., (IDEAL)	
DRY BASIS	1068
SAT BASIS	1049

********* ADDITIONAL DATA AND REMARKS *********

Z (SAT) 0.997 Z (DRY) 0.998

COPIES TO: KEN FLETCHER-MIDLAND
REMARKS:


BELL LAKE
ANTELOPE RIDGE
MID BELL LAKE
ANTELOPE RIDGE UNIT
CITATION O.&G. (OPER)
BELL LAKE UNIT
ONOCO (OPER.)
BELL LAKE
ANTELOPE RIDGE
T 23 S