



ARCO Permian
 PO Box 1089
 Eunice NM 88231
 Telephone 505 394 1600

111121610 PLC

5/16/01

Southeast New Mexico Asset Area

April 24, 2001

APR 26 2001
 REGISTRATION DIVISION
 184

New Mexico Oil Conservation Division
 Attn: Mark Ashley
 2040 S. Pacheco Street
 Santa Fe, NM 87505

Re: Application to Surface Commingle
 Crooked Canyon 35 Federal, Leggett Federal, Sweet Thing Federal Unit, B&C 25
 Federal, Sweet Thing 36 State, Little Box State, Nasser Federal, Hilltop Federal
 Indian Loafer Draw Upper Penn & Little Box Canyon Morrow Pools
 Sections, 01, 06, 22, 25, 31, 35, 36, T-20, 20.5S, R21E, 22E, 22W
 Eddy County, NM

Mr. Ashley:

ARCO Permian requests approval to surface commingle, by gathering gas from the above mentioned leases, transport to one lease, compress the gas in one compressor, and sell through one central sales point. The gas from each well will be metered separately prior to the movement off lease and the individual well volumes will be allocated back based on metered production. A schematic of the commingling plan is attached to support the gas movement.

All wells in this application are flowing gas wells. All fluid produced on the individual leases will be kept on the respective leases.

Production from these leases is produced from the Indian Loafer Draw Upper Penn and the Little Box Canyon Morrow Pools. Attached for your consideration are working interest ownership and royalty interest ownership documentation for each lease. All working and royalty interest owners have been notified of the commingling plans.

The economic justification for gathering the gas to one central compressor is based on the estimation that a 100 to 200% increase in the gas rate will exist by lowering the wellhead pressure from current 25 to 30 PSIA to 15 PSIA. Previous compression testing has proved up the expected increases. Also, by tying into and upgrading existing compression in the area, surplus capacity will be utilized and the cost of the compressor purchase will be spread out. By bringing all of the leases together to one central compressor will increase revenue to royalty and working interest owners and will increase ultimate recovery from the lease by lowering the reservoir pressure below current sales line limits.

ARCO Permian is a unit of Atlantic Richfield Company

BEFORE THE OIL CONSERVATION
 DIVISION
 Santa Fe, New Mexico
 Case Nos. 12967 and 12968 Exhibit No. 7
 Submitted by: Trilogy Operating Inc.
 Hearing Date: January 9, 2003

Application for Surface () mingle

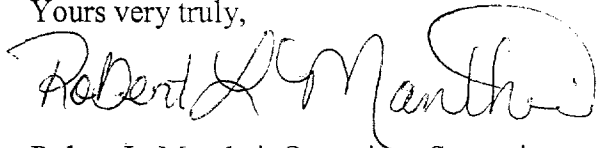
Page 2

April 24, 2001

A list of the last 30 days gas rate and a gas analysis for each well is attached.

Your cooperation regarding this request will be greatly appreciated. Should you have any questions, please do not hesitate to contact me at (505) 394-1602. Please send your approval to proceed to my attention at the address listed below.

Yours very truly,

A handwritten signature in cursive script, appearing to read "Robert L. Manthel". The signature is written in dark ink and is positioned above the typed name.

Robert L. Manthel, Operations Supervisor

ARCO Permian

P.O. Box 1089, Eunice, NM 88231

manthrl@bp.com

Office (505) 394-1602

Fax (505) 394-1624

April 24, 2001

EL PASO FIELD SERVICES MAIN GAS METER #68367

**Located at SENE, Sec. 1, T21S, and R21E on Lease No. NM27451, Eddy County,
New Mexico**

LEASE	MCFPD	METER #
Crooked Canyon 35 Federal #1 ✓	8	646456 ✓
Leggett Federal #1 ✓	.4	646191 ✓
Sweet Thing Federal Ut. #1 ✓	70	646209 ✓
Sweet Thing Federal Ut. #2 ✓	0	646266 ✓
B&C 25 Federal #1 ✓	334	646548 ✓
Sweet Thing 36 State #1 ✓	4	646290 ✓
Little Box State #2 Flash Gas ✓	3	646159 ✓
Little Box State #3 Flash Gas ✓	0	646159 ✓
Little Box State #3 ✓	2428	646167 ✓
Little Box State #4 ✓	1223	646175 ✓
Sweet Thing 36 State #2 ✓	304	646589 ✓
Nasser Federal #1 ✓	0	646217 ✓
Nasser Federal #1 ✓	501	646241 ✓
Hilltop Federal #1 ✓	9	646365 ✓

*API #'s on
next page*

ATLANTIC RICHFIELD COMPANY

Post Office Box 4587
Houston, Texas 77210-4587
(281) 366-3692

December 14, 2000

To: Working Interest Owners
Address List Attached

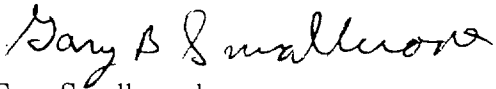
Re: See Properties Listed Below
Eddy County, New Mexico

Gentlemen:

This is notification that the surface commingling permit for the Little Box Canyon area is being amended to include the wells listed below. The wells are metered individually and then produced through one compressor for sales.

Lease	Meter #
<u>-015-30559</u> Crooked Canyon 35 Fed # 1	646456
<u>25228</u> Leggett Federal # 1	646191
<u>28130</u> Sweet Thing Federal Unit # 1	646209
<u>30338</u> Sweet Thing Federal Unit # 2 Flash Gas	646266
<u>30842</u> B & C 25 Federal # 1	646548
<u>30004</u> Sweet Thing 36 State # 1 Flash Gas	646290
<u>224/30434</u> Little Box State # 2 & 3 Flash Gas	646159
<u>30486</u> Little Box State # 4	646175
<u>30850</u> Sweet Thing 36 State # 2	646589
<u>27865</u> Nasser Federal # 1 (Upper Penn)	646217
Nasser Federal # 1 (Morrow)	646241
<u>25229</u> Hilltop Federal # 1	646365

Very truly yours,


Gary Smallwood
O/A Engineer

GS/kl
Enclosure

Nadel and Gussman Permian, L.L.C.
601 N. Marienfeld - Suite 508

Herland Family, L.L.C.
287 Supple Street

Sidwan
1010 South Main Street

Midland, Texas 79701

Pembroke, Ontario
Canada K8A 3H3

P.O. Box 1448
Del Rio, Texas 78841-1448

Westwood Lake Village, Inc.
4800 Lakewood - Suite 2A
Waco, Texas 76710

Dennis Corkran
2219 Westlake Drive - Suite 120
Austin, Texas 78746

D & D Partnership
830 East Big Briar Way
LaCanada, California 91011

Scott E. Muehlbrad
2511 Terrace
Midland, Texas 79705

Geronimo Holding Corporation
P.O. Box 804
Midland, Texas 79702-0804

Cannon Exploration Company
3608 SCR 1184
Midland, Texas 79706

George W. Knox
P.O. Box 7538
Midland, Texas 79708

Jerry A. Weant d/b/a BEVOIL
P.O. Box 7201
Midland, Texas 79708

Doug Tull
P.O. Box 11107
Midland, Texas 79702

Jack Britain
2519 Wooddale Circle
Waco, Texas 76710

David J. Andrews
2219 Westlake Drive, Suite 150
Austin, Texas 78746

Pogar Petroleum, Ltd.
P.O. Box 10095
Midland, Texas 79702

Reber-Garrett Associations
4629 State Road
Drexel Hill, Pennsylvania 19026

Doralex Energy, Inc.
3619 South Jackson
San Angelo, Texas 76904-5598

Bob Stevens d/b/a SOCO
P.O. Box 11106
Midland, Texas 79702

Wesley K. Noe
3323 Maxwell Drive
Midland, Texas 79707

C.C. Tull, Jr.
P.O. Box 11107
Midland, Texas 79702

Abo Petroleum Corporation
Attn: Ms. Janet Richardson
105 South 4th Street
Artesia, New Mexico 88210

Dingus Investments, Inc.
P.O. Box 11120
Midland, Texas 79702

Dr. Gus Alexander
3619 South Jackson
San Angelo, Texas 76904-5598

Mary Beth Barton
P.O. Box 4126
Midland, Texas 79704-4126

Great Western Drilling Company
Attn: Mr. Mike Heathington
P.O. Box 1659
Midland, Texas 79702-1659

J. A. McClatchy
P.O. Box 4126
Midland, Texas 79704-4126

Shirley Smith
105 Engram Lane
Anderson, South Carolina 29621

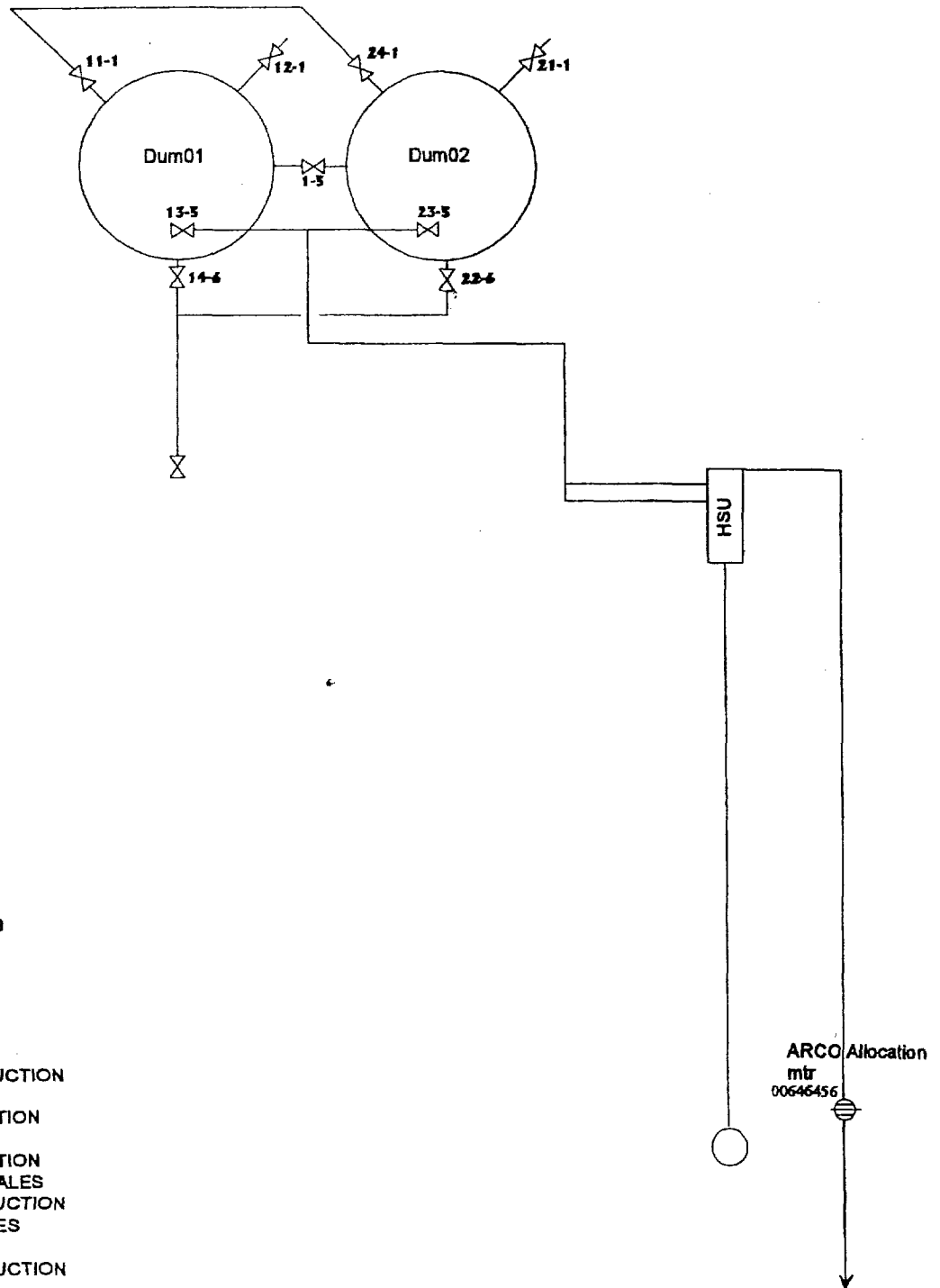
Yates Drilling Company
Attn: Ms. Janet Richardson
105 South 4th Street
Artesia, New Mexico 88210

Myco Industries, Inc.
P.O. Box 840
Artesia, New Mexico 88210

The De Compiegne Property #20 Ltd.
P.O. Box 1071
Midland, Texas 79702

Yates Petroleum Corporation
Attn: Ms. Janet Richardson
105 South 4th Street
Artesia, New Mexico 88210

Crooked Canyon Federal #1



ARCO PERMIAN
 Crooked Canyon Federal #1
 1650' FSL, 660' FEL
 Sec. 35, T-20S R-21-E
 EDDY COUNTY, NEW MEXICO
 8/30/99
 C. KING

THIS LEASE COMPLIES WITH
 ARCO PERMIAN
 SITE SECURITY PLAN
 FILED AT:
 ARCO PERMIAN
 BOX 1089
 EUNICE, N. M. 88231
 DATE OF FACILITY DIAGRAM: 8/12/99

- 1= SEALED CLOSED DURING PRODUCTION AND SALES
- 2= SEALED OPEN DURING PRODUCTION AND SALES
- 3= SEALED OPEN DURING PRODUCTION AND SEALED CLOSED DURING SALES
- 4= SEALED CLOSED DURING PRODUCTION AND SEALED OPEN DURING SALES
- 5= SEALED CLOSED DURING SALES
- 6= SEALED CLOSED DURING PRODUCTION
- 7= SEALED OPEN DURING SALES
- 8= SEALED OPEN DURING PRODUCTION

DISTRICT I
P.O. Box 1988, Hobbs, NM 88241-1988

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies

DISTRICT II

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2088, Santa Fe, N.M. 87504-2088

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 80240	Pool Name Little Box Canyon Morrow
Property Code	Property Name CROOKED CANYON FEDERAL	Well Number 1
OGED No. 021602	Operator Name STEVENS & TULL	Elevation 4425'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	35	20 S	21 E		1650	SOUTH	660	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill I	Consolidation Code	Order No.
------------------------	----------------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Michael G. Mooney</i> Signature</p> <p>Michael G. Mooney Printed Name</p> <p>Consulting Engineer Title</p> <p>11/21/98 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 26, 1998</p> <p>Date Surveyed</p> <p>Signature of Surveyor Professional Surveyor NEW MEXICO</p> <p>3239 98-11-1392</p> <p>3239 12641</p>
	<p>CDG</p>
	<p>3239 12641</p>

#646456

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Gas Analysis

Company....	Arco Permian	Sample Press..	95.0
Producer...		Sample Temp...	0.0
Lease.....	CROOKED CANYON 35#1	Date Sampled..	07/27/1999
Station #..	EUNICE PRODUCTION	Sampled by...	LARRY RACKLEY
Cylinder #.		Field Gravity.	0.0000
Date Run...	07/28/1999	Analyzed by...	DANIEL
Lab Ref #..	99-JUL-G7541	Field H2S.....	0.0000
Remarks....	SAMPLE BY GUARDIAN		

Physical Constants per GPA 2145-93
Calculations per GPA 2172-86
@ 14.65 psia & 60.0 Deg. F.

	MOL %	GPM (Ideal)	BTU (Ideal Dry)
Nitrogen	2.498	0.273	0.0
Methane	80.484	13.570	810.3
CO2	9.606	1.612	0.0
Ethane	4.751	1.263	83.8
H2S	0.000	0.000	0.0
Propane	1.365	0.373	34.2
Iso-Butane	0.200	0.065	6.5
N-Butane	0.318	0.100	10.4
Iso-Pentane	0.127	0.046	5.1
N-Pentane	0.108	0.039	4.3
2,2-DMB	0.000	0.000	0.0
2-Me-C5	0.000	0.000	0.0
3-Me-C5	0.000	0.000	0.0
Hexanes +	0.543	0.230	25.8
TOTALS	100.000	17.571	980.3

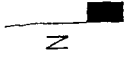
GROSS HEATING VALUE @ 14.65 PSIA

GASOLINE CONTENT (GPM/Real)

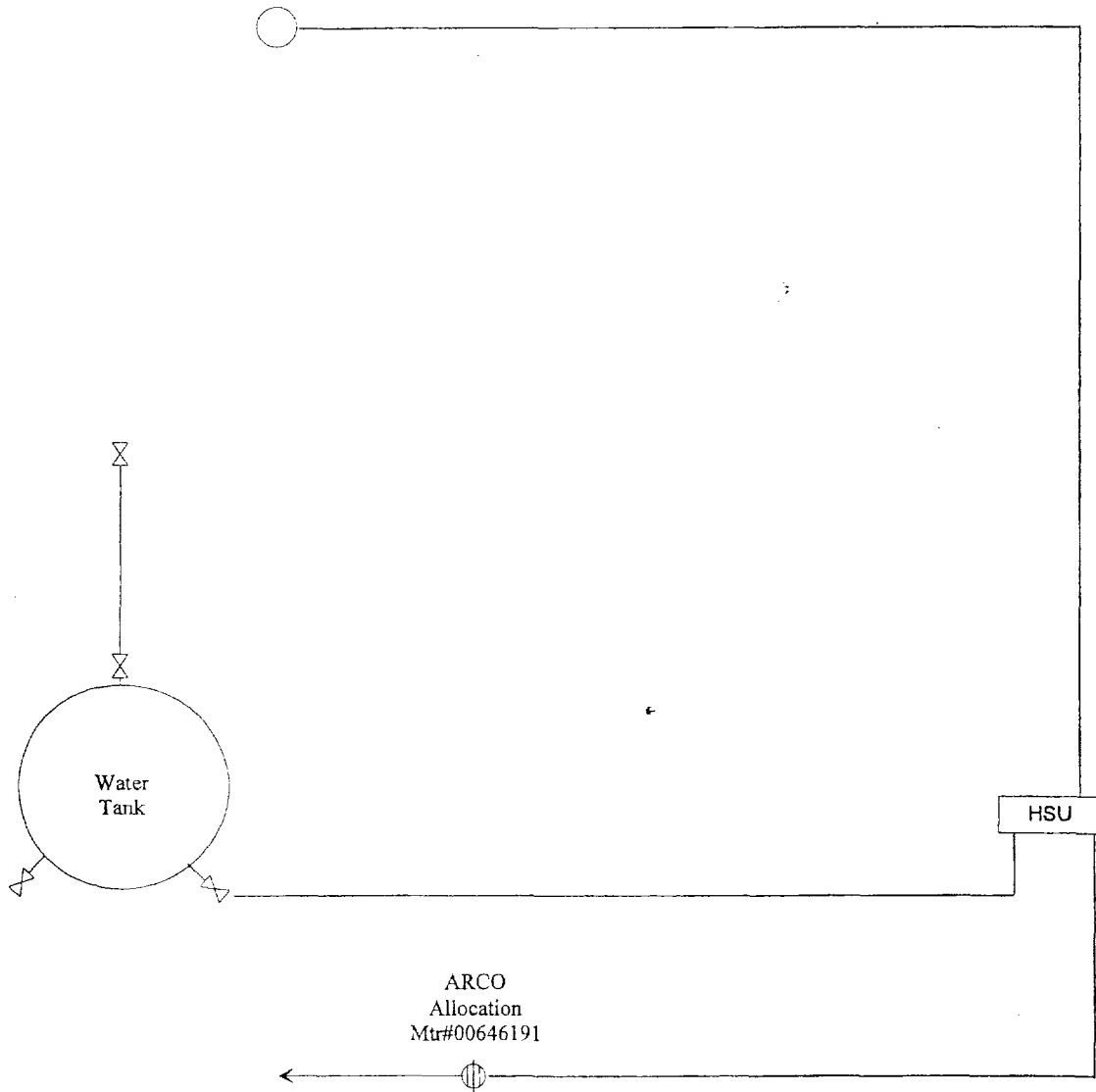
Dry	Wet	Ethane & Heavier	2.123
983	967 BTU/Real Cu.Ft.	Propane & Heavier ...	0.856
0.7179	0.7165 Specific Gravity (Real)	Butane & Heavier	0.481
980	964 BTU/Ideal Cu.Ft.	Pentane & Heavier ...	0.316
0.7162	0.7145 Specific Gravity (Ideal)		

Z Factor : 0.9972

Arco Permian



Leggett Federal #1



THIS LEASE COMPLIES WITH
ARCO PERMIAN
SITE SECURITY PLAN
FILED AT:

ARCO PERMIAN
BOX 1089
EUNICE, N. M. 88231

DATE OF FACILITY DIAGRAM: 12/20/00

ARCO PERMIAN
LEGGETT FEDERAL #1
NM25336
1497' FSL, 551' FEL
Sec. 22-T20S-R21E
EDDY COUNTY, NEW MEXIC

B. MANTHEI

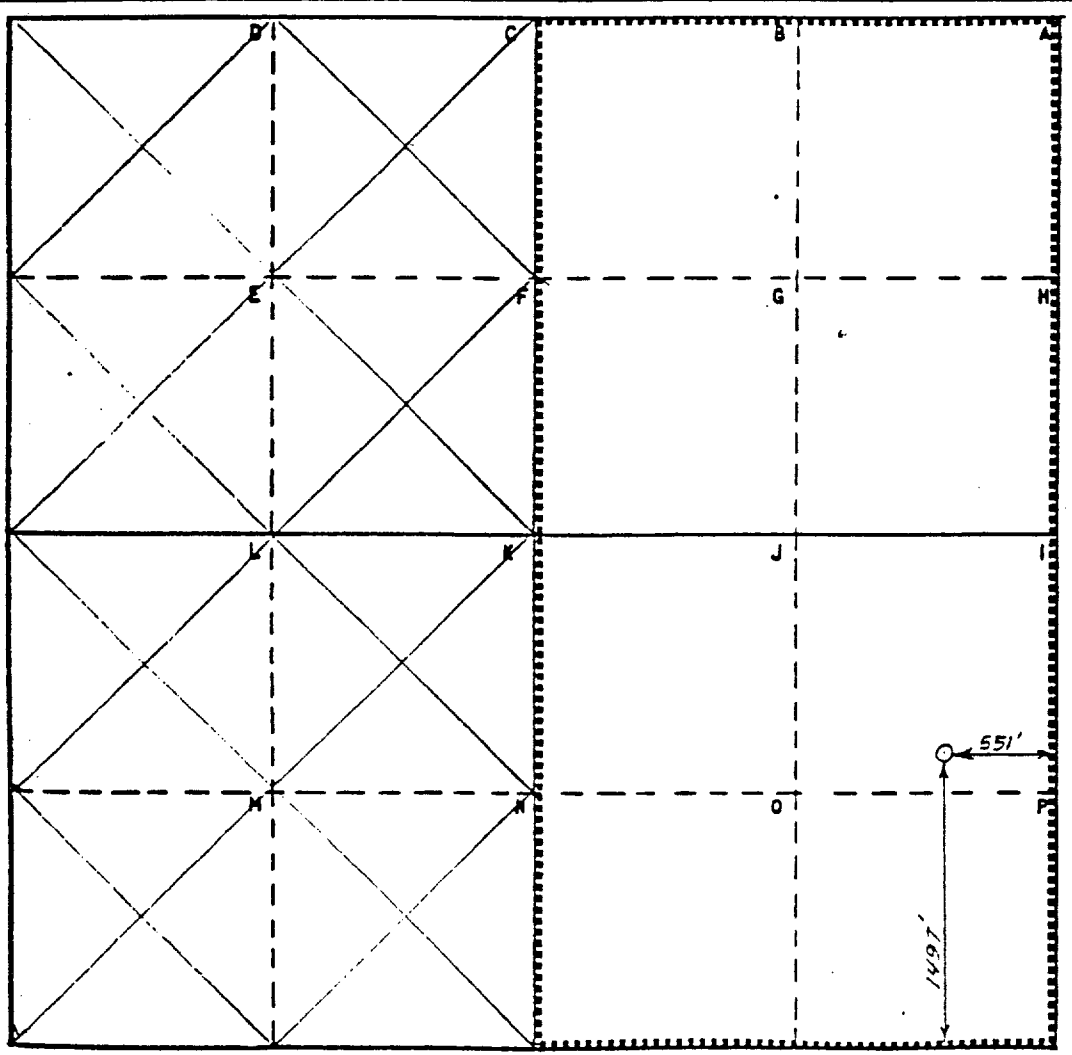
Operator Exxon Corporation		Lease LEGGETT FEDERAL			Well No. 1
Unit Letter I	Section 22	Township 20 S	Range 21 E	County EDDY	
Actual Footage Location of Well: 551 feet from the EAST line and 1497 feet from the SOUTH line					
Ground Level Elev: 4480'	Producing Formation MORROW	Pool LITTLE BOX CANYON UNDESIG		Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Melba Triplena

Position
UNIT HEAD

Company **Exxon Corporation**
Box 1600 Midland, Texas

Date
2-25-85

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
2-11-85

Registered Professional Engineer and/or Land Surveyor
Bruce R. Pennell

Certificate No.
9062

#646191

Wildcat Measurement Service
 PO Box 1836
 Artesia, New Mexico 88211-1636
 Office #505-746-3481
 "Quality and Service is our First Concern"

DOS 2.0
 Run No. 990104-01
 Date Run 04/01/99
 Date Sampled 03/31/99

Analysis for: ARCO PERMIAN
 Well Name: LEGGETT FEDERAL #1
 Field: LITTE BOX CANYON
 Sta. Number:
 Purpose:
 Sampling Temp: DEG F
 Volume/day:
 Pressure on Cylinder: PSIG

GPANGL.L60
 Producer: ARCO PERMIAN
 County: EDDY State: NM
 Sampled By: ARCO PERMIAN
 Atmos Temp: DEG F
 Formation:
 Line Pressure: PSIA

GAS COMPONENT ANALYSIS

		Mol %	GPM
Carbon Dioxide	CO2	0.112	
Nitrogen	N2	1.074	
Methane	C1	89.569	15.182
Ethane	C2	5.496	1.470
Propane	C3	1.951	0.538
Iso-Butane	IC4	0.360	0.118
Nor-Butane	NC4	0.533	0.168
Iso-Pentane	IC5	0.223	0.082
Nor-Pentane	NC5	0.168	0.061
Hexanes Plus	C6+	0.514	0.221
TOTAL		100.000	17.838

Pressure Base: 14.730
 Real BTU Dry: 1124
 Real BTU Wet: 1105
 Real Calc. Specific Gravity: 0.640
 Field Specific Gravity: 0.000
 Standard Pressure: 14.696
 BTU Dry: 1122
 BTU Wet: 1102
 Z Factor: 0.9974
 R Value: 1.2944
 Avg Mol Weight: 18.5056
 Avg CuFt/Gal: 57.1585
 26 Lb Product: 0.5699
 Methane+ GPM: 17.838
 Ethane+ GPM: 2.657
 Propane+ GPM: 1.167
 Butane+ GPM: 0.649
 Pentane+ GPM: 0.363

REMARKS:

Approved by: KARL HAENY

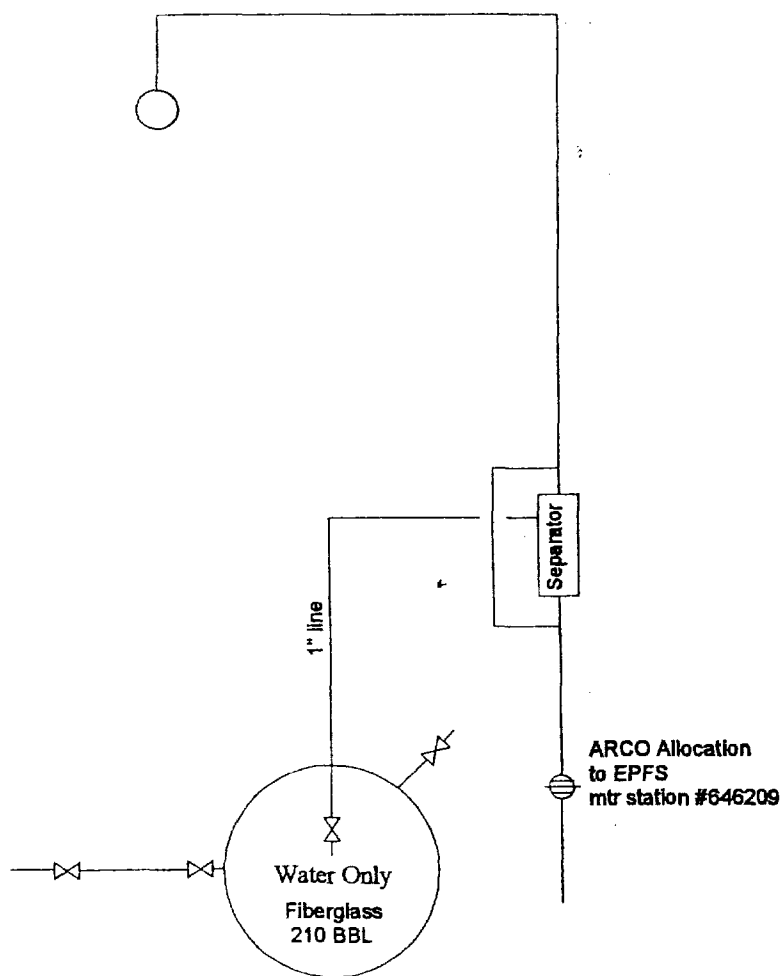
Thu Apr 01 09:39:11 1999

Sweet Thing Federal Unit #1



THIS LEASE COMPLIES WITH
ARCO PERMIAN
SITE SECURITY PLAN
FILED AT:

ARCO PERMIAN
BOX 1089
EUNICE, N. M. 88231
DATE OF FACILITY DIAGRAM: 8/12/99



ARCO PERMIAN
Sweet Thing Federal Unit #1
1980' FNL, 1320' FWL
Sec. 6, T-21S R-22-E
EDDY COUNTY, NEW MEXICO
8/30/99
KING

District I
 PO Box 1980, Hobbs, NM 88241-1980
 District II
 PO Drawer DD, Artesia, NM 88211-0719
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
 Energy, Minerals & Natural Resources Depart

Form C-102
 Revised February 10, 1994
 Instructions on back
 -Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
 PO Box 2088
 Santa Fe, NM 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name Wildcat	
4 Property Code		5 Property Name SWEET THING FEDERAL UNIT			6 Well Number 1
7 OGRID No.		8 Operator Name STEVENS & TULL, INC.			9 Elevation 4367.

10 Surface Location

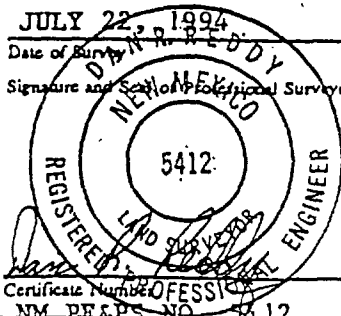
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	6	21 S	22 E		1980	NORTH	1320	WEST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 320	13 Joint or Infill N	14 Consolidation Code U	15 Order No.
---------------------------	-------------------------	----------------------------	--------------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	20.28 Ac.	1980'	3	2	1	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Michael G. Mooney</i> Signature Michael G. Mooney Printed Name Engineer Title 7/28/94 Date
	4					
	5	1320'				
	6					
	20.21 Ac.					18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JULY 22, 1994 Date of Survey Signature and Seal of Professional Surveyor:  Certificate Number NM PE&PS NO. 5412
	7					

#646209



Laboratory Services, Inc.

4016 Fleeta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: ARCO Permian
Attention: Mr. Rolan Taylor
P. O. Box 1089
Eunice, New Mexico 88281

SAMPLE: IDENTIFICATION: Sweet Thing Fed. #1
COMPANY: ARCO Permian
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/19/99 3:00 pm
ANALYSIS DATE: 2/23/99
PRESSURE - PSIG 500
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Rolan Taylor
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

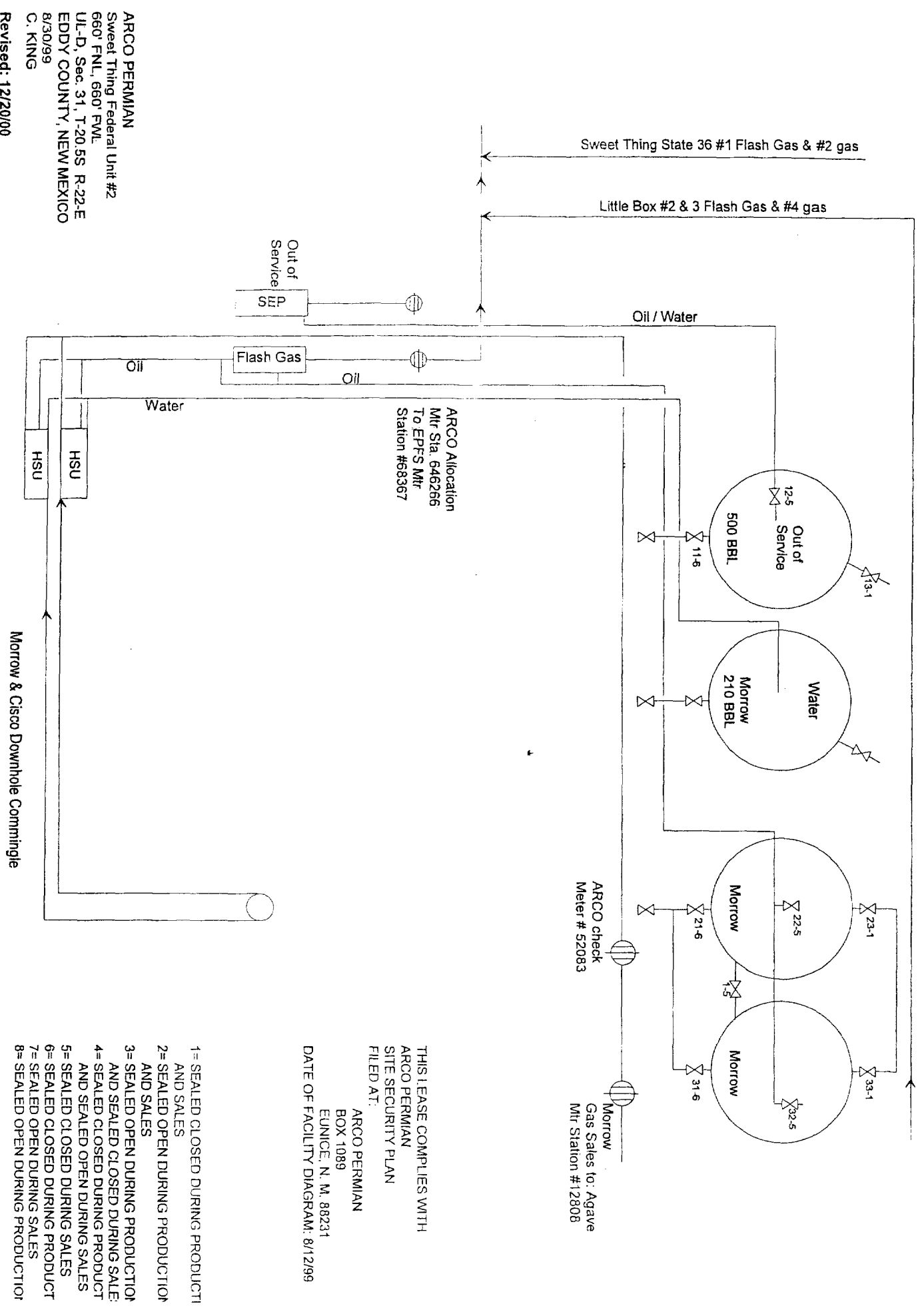
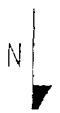
COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.123	
Carbon Dioxide (CO2)	0.833	
Methane (C1)	89.824	
Ethane (C2)	5.746	1.533
Propane (C3)	1.987	0.546
I-Butane (IC4)	0.810	0.101
N-Butane (NC4)	0.514	0.162
I-Pentane (IC5)	0.163	0.059
N-Pentane (NC5)	0.149	0.054
Hexane Plus (C6+)	0.851	0.144
	100.000	2.599

BTU/CU.FT. - DRY 1110
AT 14.650 DRY 1106
AT 14.650 WET 1087
AT 14.73 DRY 1112
AT 14.73 WET 1093

MOLECULAR WT. 18.8993

SPECIFIC GRAVITY -
CALCULATED 0.685
MEASURED

Sweet Thing Federal Unit #2



- 1= SEALED CLOSED DURING PRODUCTION AND SALES
- 2= SEALED OPEN DURING PRODUCTION AND SALES
- 3= SEALED OPEN DURING PRODUCTION AND SEALED CLOSED DURING SALE
- 4= SEALED CLOSED DURING PRODUCTION AND SEALED OPEN DURING SALES
- 5= SEALED CLOSED DURING SALES
- 6= SEALED CLOSED DURING PRODUCT
- 7= SEALED OPEN DURING SALES
- 8= SEALED OPEN DURING PRODUCTION

ARCO PERMIAN
 Sweet Thing Federal Unit #2
 660' FNL, 660' FWL
 UL-D, Sec. 31, T-20.5S R-22-E
 EDDY COUNTY, NEW MEXICO
 8/30/99
 C. KING
 Revised: 12/20/00

DISTRICT II
 P.O. Drawer 88, Artesia, NM 88211-0719

DISTRICT III
 1000 Elie Brames Rd., Artee, NM 87410

DISTRICT IV
 P.O. Box 2088, Santa Fe, NM 87504-2088

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	80240	INDIAN LOATZ DE Little Box Canyon Morrow Upper Perm
Property Code	Property Name	Well Number
15750	SWEETTHING FEDERAL UNIT	2
OGRID No.	Operator Name	Elevation
021602	STEVENS & TULL, Inc.	4443

Surface Location

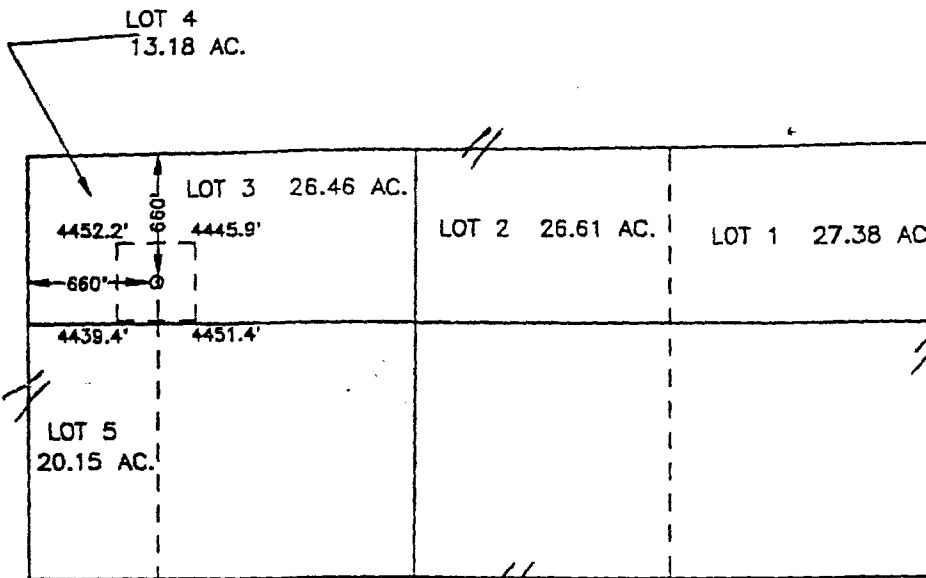
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	20 1/2 S	22 E		660	NORTH	660	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	20 1/2 S	22 E		660	North	660	West	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
233.79	I		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Michael G. Mooney
 Signature
 Michael G. Mooney
 Printed Name
 Consulting Engineer
 Title
 6/8/98
 Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 28, 1998

Date Surveyed JLP
 Signature *Ronald E. Eidson*
 Professional Surveyor
 NEW MEXICO
 3238
 5-29-98
 W.O. Num 98-0837
 Certificate No. RONALD EIDSON, 3238
 GARY S. EIDSON, 12641
 DONALD McDONALD, 12185

RECEIVED
 JUN 27 4 10 18

JUN-28-00 WED 13:52 Precision Measurement 307 21 9327

P. 04

*Arco meter
00646266*

PRECISION MEASUREMENT, INC.
P.O. Box 3059
746 North Circle Drive
Casper, WY. 82802

6/28/00 1:41 AM
Phone: 307-227-9327
800-824-7260
Fax: 307-577-4189
E Mail: pml@trib.com

GAS ANALYSIS REPORT

Analysis For: ARCO PERMIAN
Field Name: LITTLE BOX
Well Name: SWEETTHING FED #2 FLASH GAS
Station Number:
Purpose:
Sample Deg. F:
Volume/Day:
Formation:
Line PSIG:
Line PSIA:

Run No: 4798-3
Date Run: 6/28/00
Date Sampled: 6/21/00
Producer:
County: EDDY
State: NEW MEXICO
Sampled By: R.T.
Atmos Deg. F:

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.000	
Carbon Dioxide	CO2:	0.914	
Nitrogen	N2:	1.780	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	74.232	
Ethane	C2:	13.849	3.693
Propane	C3:	5.474	1.504
Iso-Butane	IC4:	0.833	0.272
Nor-Butane	NC4:	1.354	0.426
Iso-Pentane	IC5:	0.453	0.166
Nor-Pentanes	NC5:	0.376	0.136
Hexanes	C6:	0.480	0.197
Heptanes	C7:	0.208	0.096
Octanes	C8:	0.046	0.023
Nonanes	C9:	0.000	0.000
Decanes	C10:	0.000	0.000
Totals		100.000	6.512

Pressure Base: 14.730
Real BTU Dry: 1282.092
Real BTU Wet: 1259.655
Calc. Ideal Gravlty: 0.735
Calc. Real Gravlty: 0.737
Field Gravlty:
Standard Pressure: 14.696
BTU Dry: 1279.150
BTU Wet: 1256.892
Z Factor: 0.996
Average Mol Weigh: 21.932
Average CuF/Gal: 38.610
Ethane+ GPM: 6.512
Propane+ GPM: 2.819
Butane+ GPM: 1.315
Pentane+ GPM: 0.617
Hexanes + GPM: 0.316
Heptanes + GPM: 0.119
Octanes + GPM: 0.023
Nonanes + GPM: 0.000

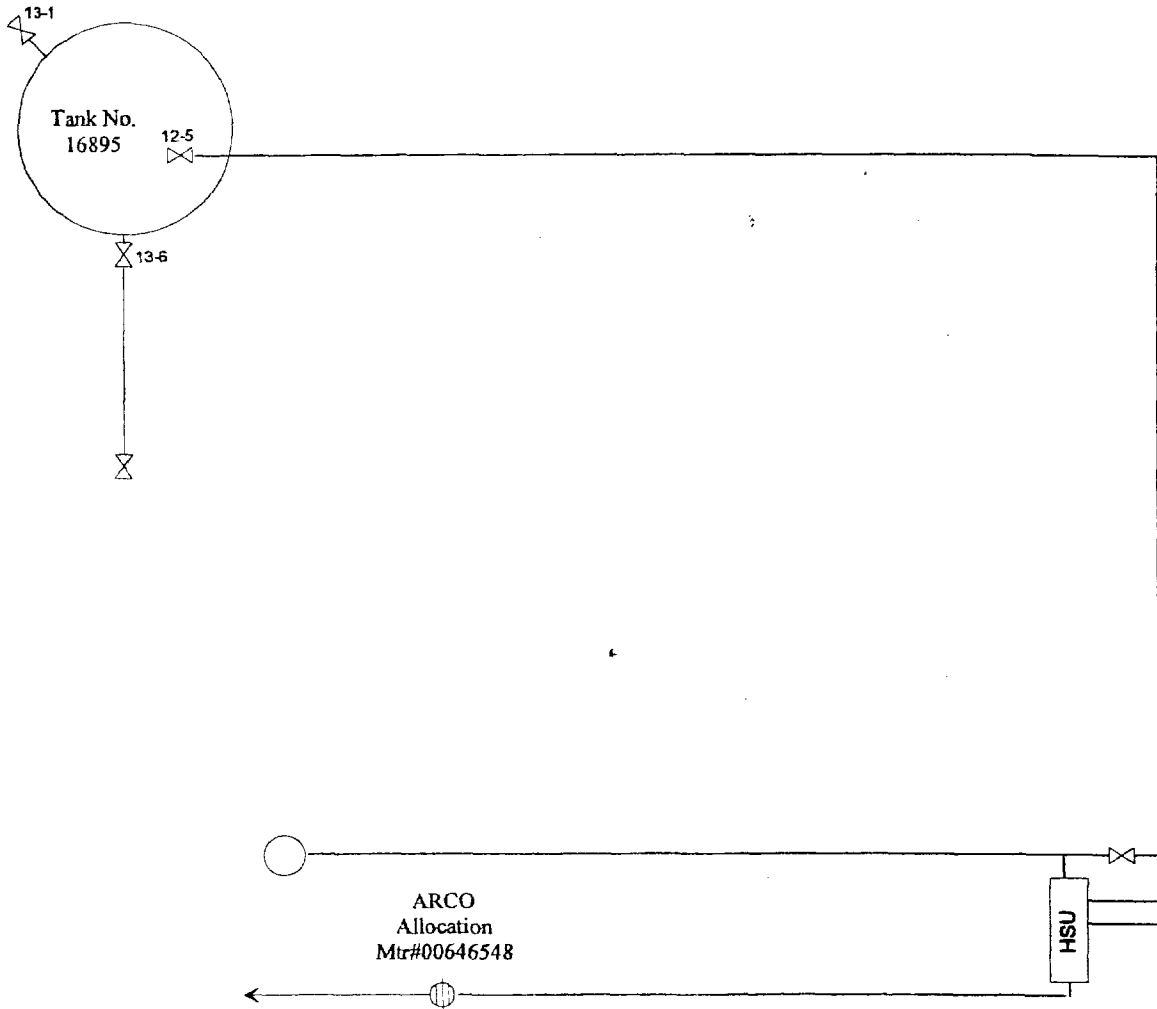
BTEX Components, 100 % of Total Volume:
N-Hexane: 0.1245
Benzene: 0.0124
Toluene: 0.0106
Ethylbenzene: None Detected
Xylenes: None Detected

Remarks:

Analysis By: C.G.Martin



B & C Federal 25 #1



THIS LEASE COMPLIES WITH
ARCO PERMIAN
SITE SECURITY PLAN
FILED AT:
ARCO PERMIAN
BOX 1089

- 1= SEALED CLOSED DURING PRODUCTION AND SALES
- 2= SEALED OPEN DURING PRODUCTION AND SALES
- 3= SEALED OPEN DURING PRODUCTION AND SEALED CLOSED DURING SALES
- 4= SEALED CLOSED DURING PRODUCTIC AND SEALED OPEN DURING SALES

ARCO PERMIAN
B & C FEDERAL 25 #1
660' FSL, 990' FWL
Sec. 25-T20S-R21E
EDDY COUNTY, NEW MEXIC
03/10/00
B WALLACE

DISTRICT I
P.A. Box 1286, Santa Fe, N.M. 87501-1286

DISTRICT II
P.A. Box 202, Santa Fe, N.M. 87501-0202

DISTRICT III
1800 N.W. 22nd St., Albuquerque, N.M. 87104

DISTRICT IV
P.O. Box 1000, Santa Fe, N.M. 87501-1000

State of New Mexico
Energy, Minerals and Natural Resources Department

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Revised February 10, 1984
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OIL CONSERVATION DIVISION
P.O. Box 2028
Santa Fe, New Mexico 87504-2028

AMENDED REPORT

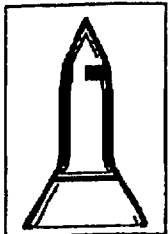
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Well Code	Well Name							
		WILCOAT (RISQ AND MORROW)							
Property Code	Property Name	Well Number							
	B & C FEDERAL 25	1							
OSR# No.	Operator Name	Elevation							
000990	ARCO PERMIAN	4388							
Surface Location									
W. of 1st. 1/4	Section	Township	Range	Lot 1/4	Feet from 1/4	North/South Line	Feet from 1/4	East/West Line	County
M	25	20 S	21 E		660	SOUTH	990	WEST	EDDY
Bottom Hole Location if Different from Surface									
W. of 1st. 1/4	Section	Township	Range	Lot 1/4	Feet from 1/4	North/South Line	Feet from 1/4	East/West Line	County
Dedication Area	Depth or Depth	Computation Code	Order No.						
320									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the data representation contained herein to true and complete to the best of my knowledge and belief.</p> <p><i>Laure Green</i> Operator</p> <p><i>Laure Green</i> Printed Name</p> <p><i>PER CAMP FOOT</i> Title</p> <p>11/5/99 Date</p>	
	<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 10, 1999</p> <p><i>Donald J. Emerson</i> Donald J. Emerson Professional Surveyor New Mexico 91399</p> <p>Donald J. Emerson 12641 12105</p>	

B&C Federal #1
 Measurement File
 # 646548



ARMSTRONG GAS LABS, INC.



Monahans, Texas 79756
 (915) 943-8844 (FAX) 943-8855

GAS ANALYSIS REPORT

Analysis No.: 000124.bpr
 Customer: Well Testing

<u>Component</u>	<u>Mol. %</u>	<u>BTU</u>	<u>SG</u>	<u>GPM</u>	
Nitrogen	0.2815	0.000	0.003		
Methane	90.8388	919.594	0.503		
CO2	0.4903	0.000	0.007		
Ethane	5.6026	99.373	0.058	1.498	
H2S	0.0000	0.000	0.000		
Propane	1.5933	40.182	0.024	0.439	
Iso-Butane	0.2362	7.699	0.005	0.077	
Butane	0.3895	12.736	0.008	0.123	
Iso-Pentane	0.1528	6.128	0.004	0.056	
Pentane	0.1349	5.421	0.003	0.049	
Hexanes C6+	0.2801	14.400	0.009	0.122	
Hydrogen	N/A				
Helium	N/A				
Oxygen	N/A				
CO	N/A				
Ideal Totals	100.0000	1105.532	0.624	2.364	

Producer:	Arco
Well / Sta. Name:	B&C Federal 25 #1
Sta. No.:	
Formation:	Morrow
Field:	
County:	
Spot / Accum.:	Spot
Date / Time On:	
Date / Time Off:	01/19/00 02:30 PM
Date to Lab:	01/21/00
Date Analyzed:	01/21/00
Effective Date:	
Sample Press. (PSIG):	270
Line Press. (PSIG):	270
Sample Temp. (F):	60
Fl. Gas Temp. (F):	60
Amb. Temp. (F):	
Del. To:	
Sampled By:	Well Testing
Cylinder No.:	

Field H2S (PPM): 0.0
 Field H2S (Grains): 0.0

Pressure Base: 14.73
 Temp. Base: 60

Z Factor (Dry): 0.99742

Dry BTU (Real): 1108.40
 Sat. BTU (Real): 1090.36
 H2O (# / mmcf): N/L
 As Del. BTU (Real):

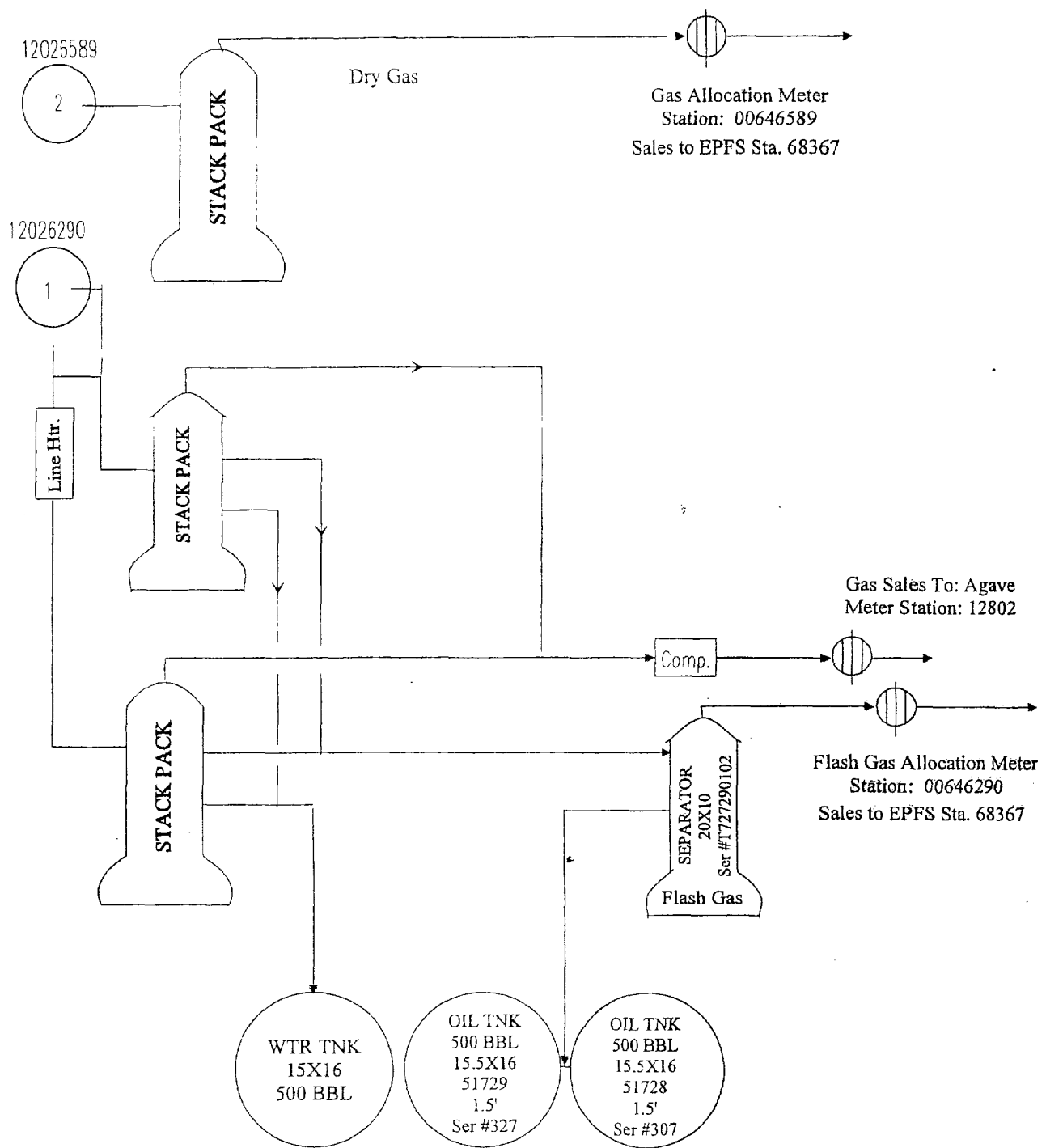
Sp. Gravity (Real): 0.6259
 Field Gravity:
 Lab Gravitometer: 0.626

GPM (Ethane+): 2.364
 GPM (Propane+): 0.866

GPA 2145 / 2172

Remarks:

ANALYZED BY: [Signature]
 copy to Valerie
 [Signature]



Lease Equipment using fuel:

1. Line Heater 3.5x14 #000048028 Ser #9607
2. Stack Pack 30x10 Ser #32.063
3. Stack Pack 16x7.6 Ser #53607
4. Rental Compressor 000049455

ARCO Permian PARS Flow Schematic	
Lease: Sweet Thing State 36 #1 & #2	
Property Code: 641291207	
Location: Sec. 36-T20.5S-R31E	
Field: Sweet Thing	
County: Eday State: N.M.	
By: Cris King Date: 3/15/99	
Facility: 12644272	Update: 11/22/00

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico
Energy, Minerals and Natural Resources Department

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DISTRICT II
P.O. Drawer 200, Artesa, NM 88211-0710

OIL CONSERVATION DIVISION

DISTRICT III
1000 Rio Brazos Ed., Artesa, NM 87410

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

DISTRICT IV
P.O. Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 80240	Pool Name Little Box Canyon Morrow Gas
Property Code	Property Name SWEET THING STATE 36	Well Number 1
OGED No.	Operator Name STEVENS & TULL	Elevation 4458

Surface Location

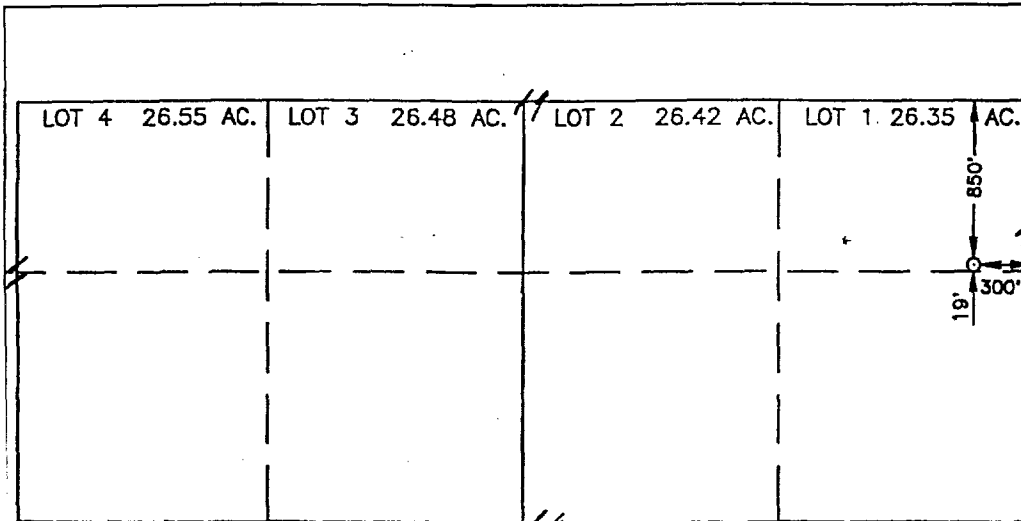
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	36	20-1/2-S	21 E		850	NORTH	300	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres * 265.80	Joint or Infill I	Consolidation Code	Order No. * Unorthodox location approval case # NSL-3901(NSP)
-----------------------------	----------------------	--------------------	--

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Michael G. Mooney
Signature

Michael G. Mooney
Printed Name
Consulting Engineer
Title

12/10/97
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 6, 1997

Date Surveyed JLP

Ronald J. Edson
Signature of Surveyor
Professional Surveyor

RONALD J. EDSON
NEW MEXICO
12-10-97
REG. NO. 97-112190

Certified by: RONALD J. EDSON, 3259
RONALD J. EDSON, 12841
PROFESSIONAL SURVEYOR, 12185

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

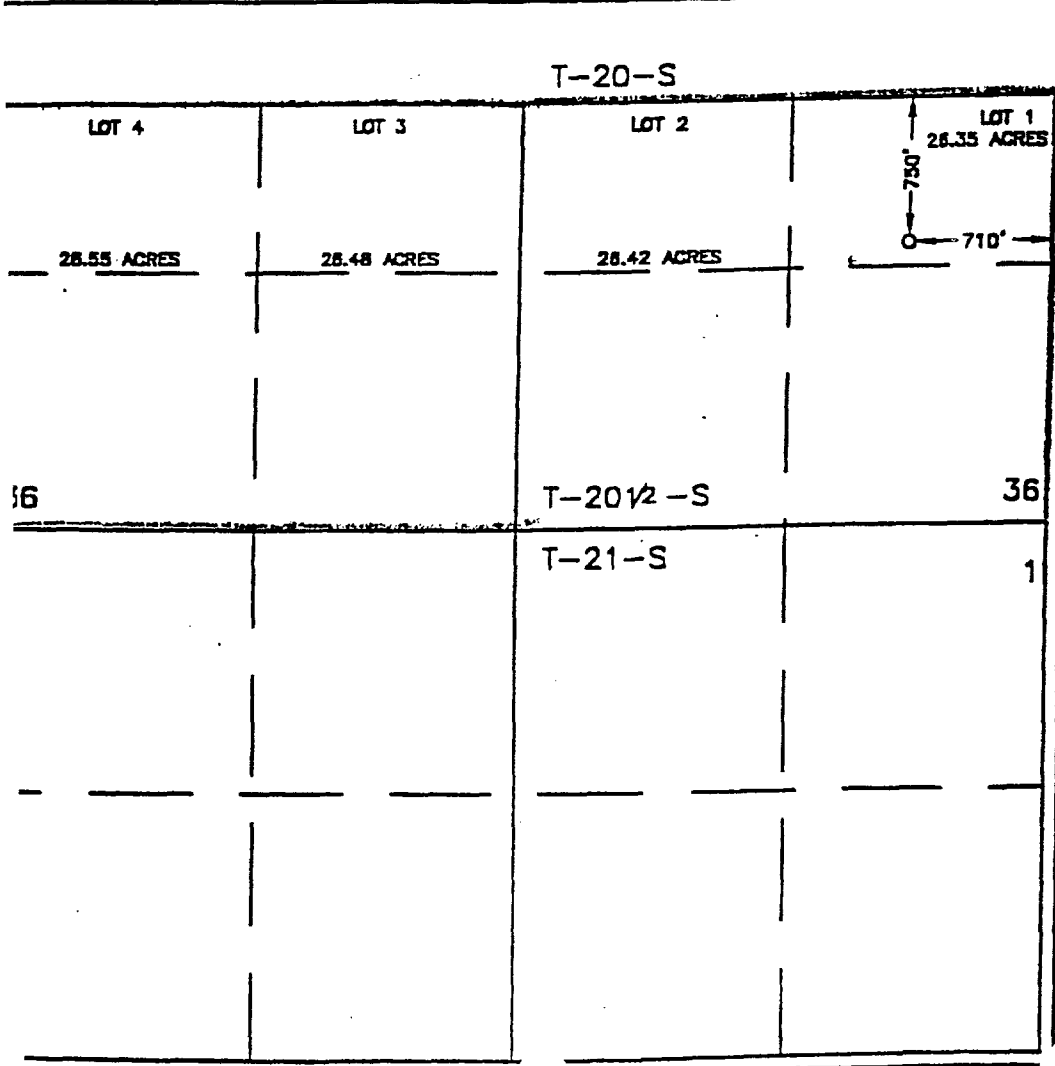
API Number	Pool Code	Pool Name WILOCAT (CISCO)
Property Code	Property Name SWEET THING STATE 36	Well Number 2
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 4443

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
LOT 1	36	20 1/2 S	21 E		750	NORTH	710	EAST	EDDY

Bottom Hole Location If Different From Surface									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 265.8	Joint or InHH	Consolidation Code	Order No.
---------------------------------	---------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Laurie Cherry
 Signature
LAURIE CHERRY
 Printed Name
 REG/COMP. ASST.
 Title
 11/29/99
 Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

NOVEMBER 22, 1999

Date Surveyed
 Signature
 Professional Surveyor
 R. EDSON
 199-11-0975
 3239-99

Professional No. RONALD EDSON 3239
 12541
 12185

JUN-28-00 WED 13:51 Precision Measurement

307 237 9327

P.02

PRECISION MEASUREMENT, INC.
P.O.Box 3859
745 North Circle Drive
Casper, WY. 82602

6/28/00 1:41 PM
Phone: 307-237-9327
800-824-7260
Fax: 307-577-4138
E Mail: pmi@wib.com

GAS ANALYSIS REPORT

Analysis For: ARCO PERMAN
Field Name: LITTLE BOX
Well Name: SWEET THING 36 #1 FLASH GAS
Station Number: WCA #12
Purpose:
Sample Deg. F:
Volume/Day:
Formation:
Line PSIG:
Line PSIA:

Run No: 4796-1
Date Run: 6/28/00
Date Sampled: 6/21/00
Producer:
County: EDDY
State: NEW MEXICO
Sampled By: R.T.
Atmos Deg. F:

GAS COMPONENTS
MOL% GPM

Oxygen	O2:	0.000	
Carbon Dioxide	CO2:	0.857	
Nitrogen	N2:	5.665	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	72.325	
Ethane	C2:	12.778	3.408
Propane	C3:	5.234	1.438
Iso-Butane	IC4:	0.790	0.258
Nor-Butane	NC4:	1.241	0.390
Iso-Pentane	IC5:	0.381	0.139
Nor-Pentanes	NC5:	0.301	0.109
Hexanes	C6:	0.329	0.135
Heptanes	C7:	0.100	0.046
Octanes	C8:	0.000	0.000
Nonanes	C9:	0.000	0.000
Decanes	C10:	0.000	0.000
Totals		100.000	5.922

Pressure Base: 14.730
Real BTU Dry: 1209.891
Real BTU Wet: 1188.718
Calc. Ideal Gravity: 0.739
Calc. Real Gravity: 0.741
Field Gravity:
Standard Pressure: 14.696
BTU Dry: 1207.115
BTU Wet: 1186.111
Z Factor: 0.997
Average Mol Weight: 21.773
Average CuF/Gal: 40.755
Ethane+ GPM: 5.922
Propane+ GPM: 2.514
Butane+ GPM: 1.077
Pentane+ GPM: 0.429
Hexanes + GPM: 0.181
Heptanes + GPM: 0.046
Octanes + GPM: 0.000
Nonanes + GPM: 0.000

BTEX Components, 100 % of Total Volume
N-Hexane: 0.0834
Benzene: 0.0080
Toluene: 0.0025
Ethylbenzene: None Detected
Xylenes: None Detected

Remarks:

Analysis By: C.G.Martin

646087

Wildcat Measurement Service
PO Box 1836
Artesia, New Mexico 88211-1836
Office #505-746-3481
"Quality and Service is our First Concern"

DOS 2.0
Run No. 20430-04
Date Run 04/30/2000
Date Sampled 04/26/2000

Analysis for: ARCO PERMIAN
Well Name: SWEET THING "36" STATE #2
Field: LITTLE BOX CANYON
Sta. Number: WCA #14
Purpose: SPT
Sampling Temp: 113 DEG F
Volume/day:
Pressure on Cylinder: 126 PSIG

GPANGL.L60
Producer: ARCO PERMIAN
County: EDDY State: NM
Sampled By: KARL HAENY
Atmos Temp: DEG F
Formation:
Line Pressure: 139.1 PSIA

GAS COMPONENT ANALYSIS

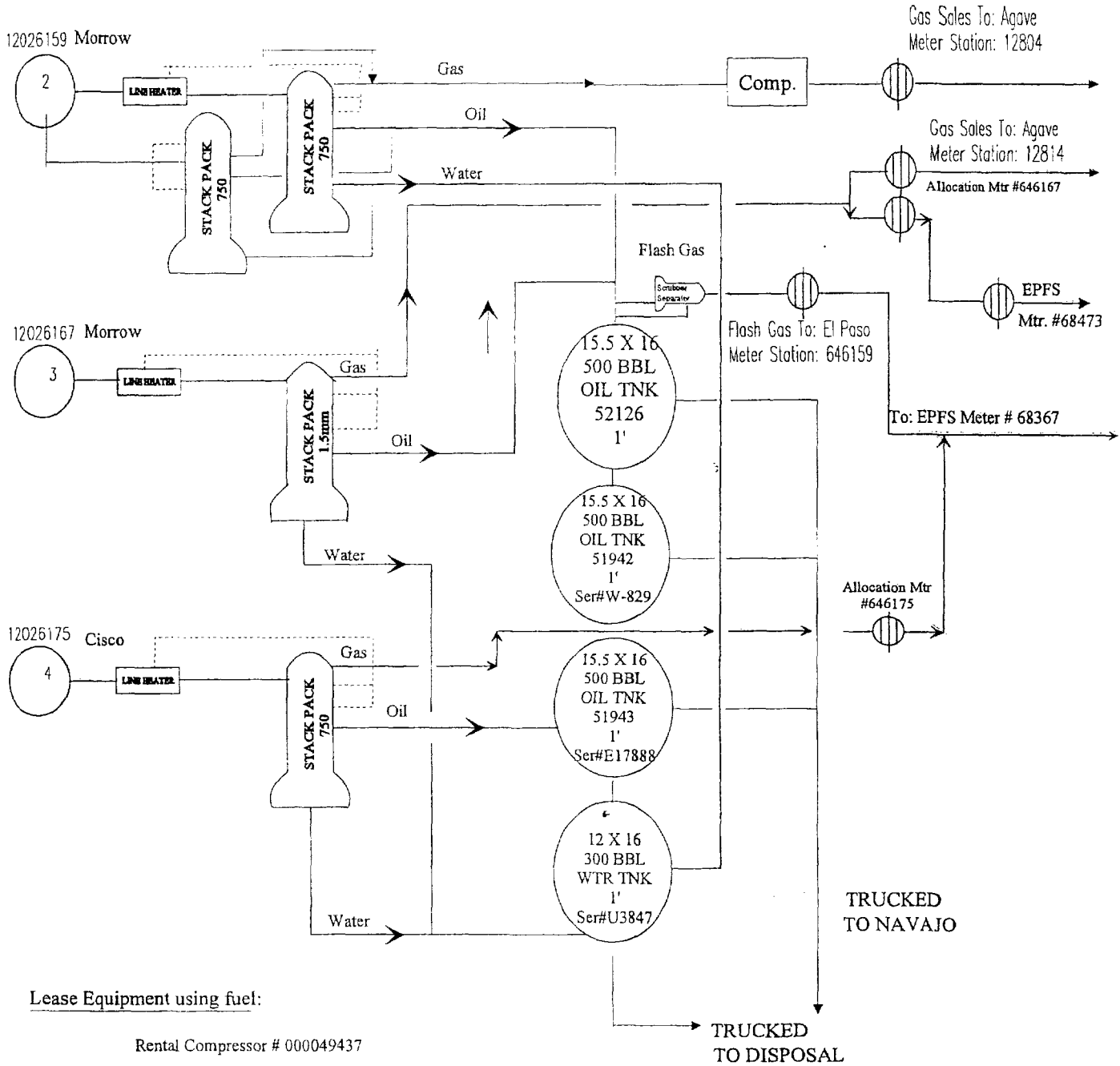
		Mol %	GPM
Carbon Dioxide	CO2	0.186	
Nitrogen	N2	0.930	
Methane	C1	89.955	15.247
Ethane	C2	5.323	1.424
Propane	C3	1.797	0.495
Iso-Butane	IC4	0.310	0.101
Nor-Butane	NC4	0.566	0.178
Iso-Pentane	IC5	0.185	0.068
Nor-Pentane	NC5	0.179	0.065
Hexanes Plus	C6+	0.569	0.245
TOTAL		100.000	17.823

Pressure Base: 14.730
Real BTU Dry: 1122
Real BTU Wet: 1103
Real Calc. Specific Gravity: 0.639
Field Specific Gravity: 0.000
Standard Pressure: 14.696
BTU Dry: 1120
BTU Wet: 1100
Z Factor: 0.9974
N Value: 1.2947
Avg Mol Weight: 18.4610
Avg CuFt/Gal: 57.1784
26 Lb Product: 0.5989
Methane+ GPM: 17.823
Ethane+ GPM: 2.576
Propane+ GPM: 1.152
Butane+ GPM: 0.657
Pentane+ GPM: 0.377

REMARKS:

Approved by: DON NORMAN

Wed May 03 09:10:43 2000



Lease Equipment using fuel:

Rental Compressor # 000049437

Well #2

1. Line Heater 42" x 14' 4" Ser #19461DWG D05010830001 #000048034
2. Stack Pack 16"x12' Serial #24379 Model #HSU-7G #000048035
3. Stack Pack 24" x 10' Ser #24420 #000045399

Well #3

1. Liner Heater 3x10 #000048036
2. Stack Pack 20" x 10' Ser #92124

Well #4

1. Line Heater 4x10 Model #2x4 13-y Ser #IH42062
2. Stack Pack 16" x 7'6" Ser #92490; #92482

Scrubber Separator Ser#47040 DWG #AJ-100 12x10

<p>ARCO Permian PARS Flow Schematic</p>
<p>Lease: Little Box State Property Code: 641291208 Location: UL F Sec. 36-20S-21E Field: Sweet Thing County: Eddy State: N.M. By: Chris King Date: 3/15/99 Facility: 12644213 Update: 11/29/00</p>

DISTRICT II
 P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
 P.O. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name LITTLE BOX STATE	Well Number 2
OGRID No.	Operator Name STEVENS & TULL	Elevation 4432

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	20 S	21 E		660	SOUTH	2310	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p>Signature _____</p> <p>Printed Name _____</p> <p>Title _____</p> <p>Date _____</p>
	<p>SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>APRIL 7, 1998</p> <p>Date Surveyed _____ DMCC</p> <p>Signature & Seal of Professional Surveyor _____</p>
	<p>Certificate No. JOHN W. WEST 676 RONALD E. EIDSON 3239 CAROL ANN EIDSON 12641</p>

District I
 PO Box 1988, Hobbs, NM 88241-1988
 District II
 PO Drawer DD, Artesia, NM 88211-0719
 District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV
 PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
 Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
 PO Box 2088
 Santa Fe, NM 87504-2088

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 Revised February 10, 1994
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
4 Property Code		5 Property Name			6 Well Number
		Little Box State			3
7 OGRID No.		8 Operator Name			9 Elevation
		Stevens & Tull			4408

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
F	36	20s	21e		1980	North	1980	West	Eddy

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>16</p>	<p>17 OPERATOR CERTIFICATION</p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i></p> <p>Signature _____</p> <p>Printed Name _____</p> <p>Title _____</p> <p>Date _____</p>	
	<p>18 SURVEYOR CERTIFICATION</p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>September 28, 1998 Date of Survey</p> <p>Signature and Seal of Professional Surveyor P. R. Patton</p>	
	<p>Certificate Number _____</p>	

DISTRICT I
P.O. Box 2000, Santa Fe, NM 87501-2000

DISTRICT II
P.O. Box 90, Artesia, NM 88211-0090

DISTRICT III
1000 E. Sprague Rd., Aztec, NM 87410

DISTRICT IV
P.O. Box 2000, Santa Fe, NM 87504-2000

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised February 10, 1994

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OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96849	Well Name WILDCAT Ltr b Sec Canyon	Pool Name MISSISSIPPIAN
Property Code 23216	Property Name LITTLE BOX STATE		Well Number 1
OCRD No. 021602	Operator Name STEVENS & TULL		Revision 1449

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	20 S	21 E		990	SOUTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill I	Consolidation Code	Order No.
------------------------	----------------------	--------------------	-----------

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

				LOT 1 42.22 AC.	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Michael G. Mooney</i> Signature Michael G. Mooney Printed Name Consulting Engineer Title 11/4/98 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>OCTOBER 26, 1998</p> <p>Date Surveyed J. EIDSON Signature Professional Engineer 10-27-98 86-11-1396 No. 20100 J. EIDSON 3239 Certified Professional Engineer 12841</p>
				LOT 2 41.97 AC.	
				LOT 3 41.89 AC.	
				LOT 4 40.43 AC.	

PRECISION MEASUREMENT, INC.
P.O.Box 3059
746 North Circle Drive
Casper, WY. 82502

6/28/00 1:41 PM
Phone: 307-237-9327
800-624-7280
Fax: 307-577-4139
E Mail: pmi@trib.com

*Arco meter #
00646159*

GAS ANALYSIS REPORT

Analysis For: ARCO PERMIAN
Field Name: LITTLE BOX
Well Name: LITTLE BOX #2 & #3 FLASH GAS
Station Number: WCA #11
Purpose:
Sample Deg. F:
Volume/Day:
Formation:
Line PSIG:
Line PSIA:

Run No: 4796-2
Date Run: 6/28/00
Date Sampled: 6/21/00
Producer:
County: EDDY
State: NEW MEXICO
Sampled By: R.T.
Atmos Deg. F:

GAS COMPONENTS			
		MOL%	GPM
Oxygen	O2:	0.000	
Carbon Dioxide	CO2:	0.915	
Nitrogen	N2:	0.194	
Hydrogen Sulfide	H2S:	0.0000	
Methane	C1:	74.787	
Ethane	C2:	13.962	3.723
Propane	C3:	5.847	1.606
Iso-Butane	IC4:	0.891	0.291
Nor-Butane	NC4:	1.414	0.445
Iso-Pentane	IC5:	0.449	0.164
Nor-Pentanes	NC5:	0.363	0.131
Hexanes	C6:	0.537	0.220
Heptanes	C7:	0.530	0.244
Octanes	C8:	0.111	0.057
Nonanes	C9:	0.000	0.000
Decanes	C10:	0.000	0.000
Totals		100.000	6.881

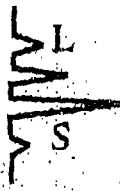
Pressure Base: 14.730
Real BTU Dry: 1327.450
Real BTU Wet: 1304.220
Calc. Ideal Gravity: 0.732
Calc. Real Gravity: 0.734
Field Gravity:
Standard Pressure: 14.696
BTU Dry: 1324.404
BTU Wet: 1301.359
Z Factor: 0.996
Average Mol Weight: 22.278
Average CuFVGal: 37.677
Ethane+ GPM: 6.881
Propane+ GPM: 3.158
Butane+ GPM: 1.552
Pentane+ GPM: 0.816
Hexanes + GPM: 0.521
Heptanes + GPM: 0.301
Octanes + GPM: 0.057
Nonanes + GPM: 0.000

BTEX Components, 100 % of Total Volume:
N-Hexane: 0.1387
Benzene: 0.0182
Toluene: 0.0289
Ethylbenzene: None Detected
Xylenes: None Detected

Remarks:

Analysis By: C.G.Martin

#646167



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: ARCO Permian
Attention: Mr. Rolan Taylor
P. O. Box 1089
Eunice, New Mexico 88281

SAMPLE: Station #12814
IDENTIFICATION: Little Box St. #8
COMPANY: ARCO Permian
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/19/99 2:00 pm
ANALYSIS DATE: 2/23/99
PRESSURE - PSIG 947
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Rolan Taylor
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.255	
Carbon Dioxide (CO2)	0.679	
Methane (C1)	90.217	
Ethane (C2)	5.721	1.526
Propane (C3)	1.662	0.457
I-Butane (IC4)	0.248	0.081
N-Butane (NC4)	0.391	0.123
I-Pentane (IC5)	0.150	0.055
N-Pentane (NC5)	0.149	0.054
Hexane Plus (C6+)	0.498	0.204
	100.000	2.500

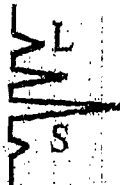
BTU/CU.FT. - DRY 1111
AT 14.650 DRY 1107
AT 14.650 WET 1088
AT 14.73 DRY 1113
AT 14.73 WET 1094

MOLECULAR WT. 18.9190

SPECIFIC GRAVITY -
CALCULATED 0.633
MEASURED

Lab

~~#64181291~~
#646175



Laboratory Services, Inc.

4016 Fleeta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: ARCO Permian
Attention: Mr. Rolan Taylor
P. O. Box 1089
Eunice, New Mexico 88231

SAMPLE: Station #12806
IDENTIFICATION: Little Box St. #4
COMPANY: ARCO Permian
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/19/99 2:00 pm
ANALYSIS DATE: 2/23/99
PRESSURE - PSIG 950
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Rolan Taylor
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	0.965	
Carbon Dioxide (CO2)	0.138	
Methane (C1)	89.400	
Ethane (C2)	5.268	1.406
Propane (C3)	1.808	0.497
I-Butane (IC4)	0.388	0.125
N-Butane (NC4)	0.683	0.199
I-Pentane (IC5)	0.285	0.086
N-Pentane (NC5)	0.246	0.089
Hexane Plus (C6+)	0.924	0.879
	100.000	2.781

BTU/CU.FT. - DRY 1138
AT 14.650 DRY 1134
AT 14.650 WET 1116
AT 14.73 DRY 1141
AT 14.73 WET 1121

MOLECULAR WT. 18.7860

SPECIFIC GRAVITY -
CALCULATED 0.649
MEASURED

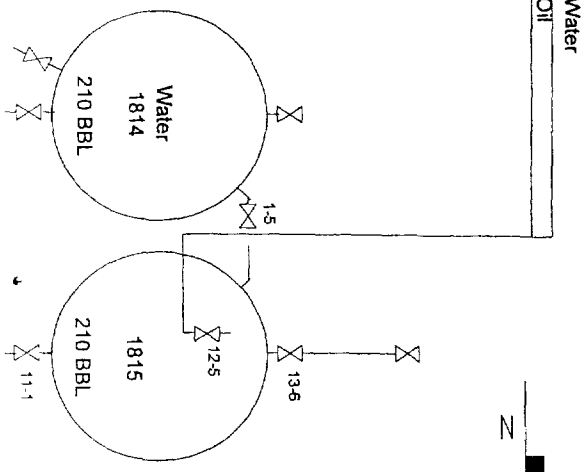
✓
Lab

Gas from Leggett Fed, Hilltop Fed, Crooked Canyon Fed, & B&G Fed.

Nasser Federal #1

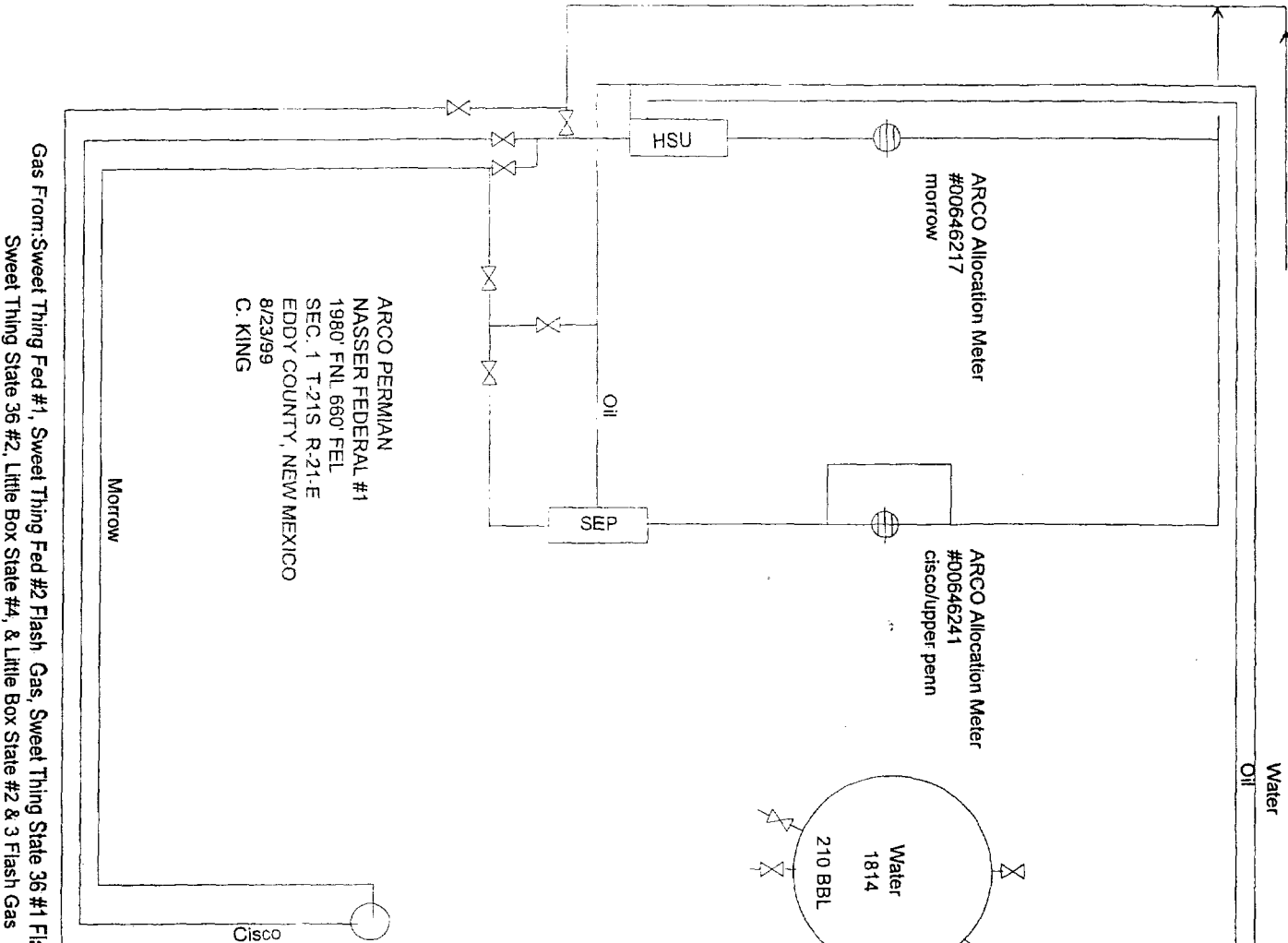
THIS LEASE COMPLIES WITH
ARCO PERMIAN
SITE SECURITY PLAN
FILED AT:
ARCO PERMIAN
BOX 1089
EUNICE, N. M. 88231

DATE OF FACILITY DIAGRAM: 8/12/99
FEDERAL LEASE #: NMMNM27451

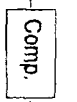


- 1= SEALED CLOSED DURING PRODUCTION AND SALES
- 2= SEALED OPEN DURING PRODUCTION AND SALES
- 3= SEALED OPEN DURING PRODUCTION AND SEALED CLOSED DURING SALES
- 4= SEALED CLOSED DURING PRODUCTION AND SEALED OPEN DURING SALES
- 5= SEALED CLOSED DURING SALES
- 6= SEALED CLOSED DURING PRODUCTION
- 7= SEALED OPEN DURING SALES
- 8= SEALED OPEN DURING PRODUCTION

ARCO PERMIAN
NASSER FEDERAL #1
1980' FNL 660' FEL
SEC. 1 T-21S R-21-E
EDDY COUNTY, NEW MEXICO
8/23/99
C. KING



Gas From: Sweet Thing Fed #1, Sweet Thing Fed #2 Flash Gas, Sweet Thing State 36 #1 Flash Gas,
Sweet Thing State 36 #2, Little Box State #4, & Little Box State #2 & 3 Flash Gas



Gas Sales to:
El Paso Field Service
Meter Station : 68367

3 copies

OIL CONSERVATION DIVISION

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

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

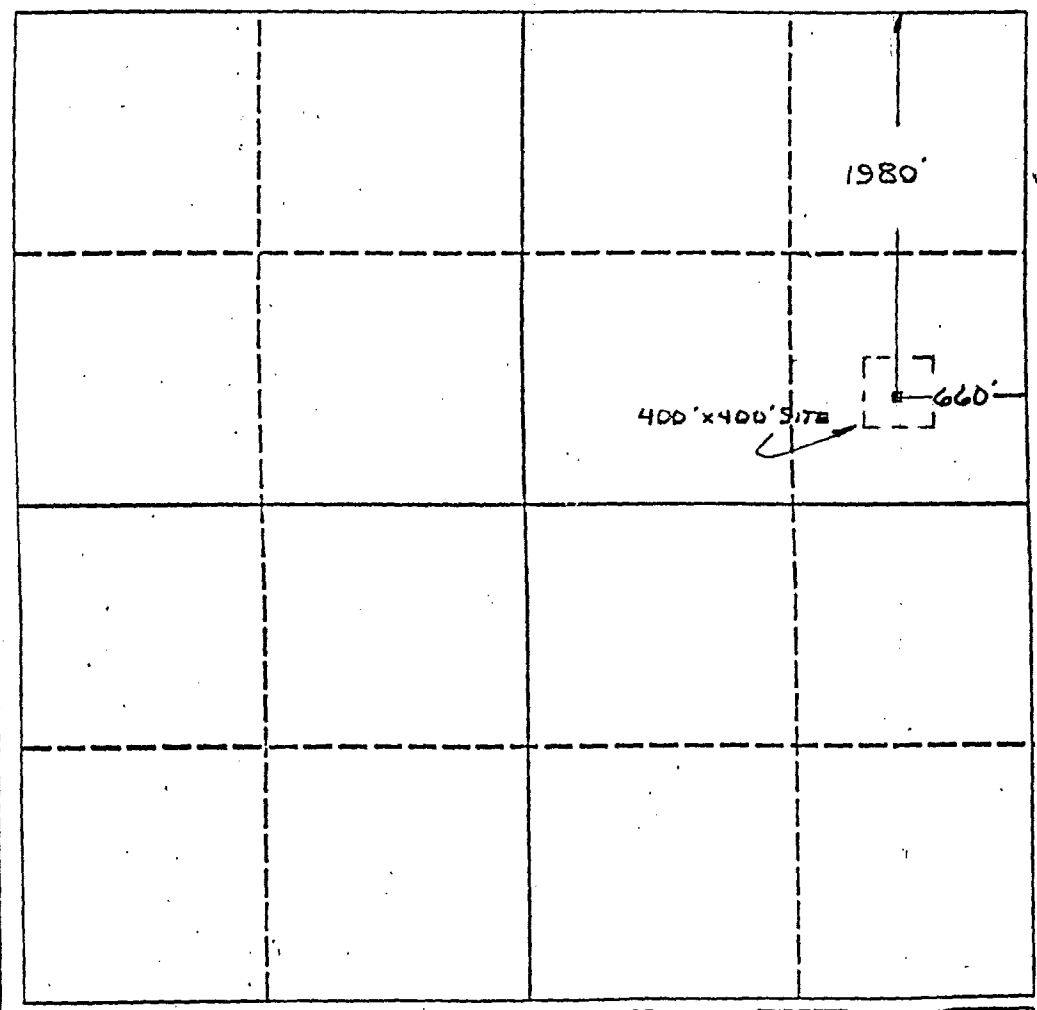
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Stevens & Tull, Inc.			Lease Nasser Federal 1			Well No. 1		
Unit Letter H	Section 1	Township 21 South	Range 21 East	County NMPM		Eddy		
Actual Footage Location of Well: 1980 feet from the North line and 660 feet from the East line								
Ground level Elev. 4420	Producing Formation Morrow			Pool Wildcat	Dedicated Acreage: 319.86 Acres			

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc?
 Yes No If answer is "yes" type of consolidation _____
 If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
 No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



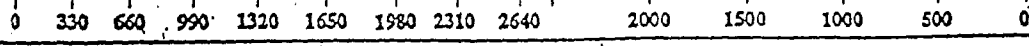
OPERATOR CERTIFICATION
 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature: *Michael G. Mooney*
 Printed Name: Michael G. Mooney
 Position: Engineer
 Company: Stevens & Tull, Inc.
 Date: 12/13/93

SURVEYOR CERTIFICATION
 I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: November _____
 Signature & Seal of Professional Surveyor: *Truman Gaskin*
 Certificate No.: 2126

TRUMAN GASKIN
REGISTERED PROFESSIONAL LAND SURVEYOR
NEW MEXICO
2126



#646241

Wildcat Measurement Service
 PO Box 1836
 Artesia, New Mexico 88211-1836
 Office #505-746-3481
 "Quality and Service is our First Concern"

DOS 2.0

Run No. 20207-04
 Date Run 02/07/2000
 Date Sampled 02/04/2000

Analysis for: ARCO PERMIAN
 Well Name: NASSER FEDERAL #1 (UPPER PENN)
 Field: LITTLE BOX CANYON
 Sta. Number:
 Purpose: SPOT
 Sampling Temp: 60 DEG F
 Volume/day:
 Pressure on Cylinder: 67 PSIG

GPANGL.L60

Producer: ARCO PERMIAN
 County: EDDY State: NM
 Sampled By: KARL HAENY
 Atmos Temp: 47 DEG F
 Formation: UPPER PENN
 Line Pressure: 80.2 PSIA

GAS COMPONENT ANALYSIS

		Mol %	GPM
Carbon Dioxide	CO2	0.147	
Nitrogen	N2	0.883	
Methane	C1	90.058	
Ethane	C2	5.239	1.401
Propane	C3	1.800	0.496
Iso-Butane	IC4	0.300	0.098
Nor-Butane	NC4	0.511	0.161
Iso-Pentane	IC5	0.221	0.081
Nor-Pentane	NC5	0.211	0.076
Hexanes Plus	C6+	0.630	0.271
TOTAL		100.000	2.585

Pressure Base: 14.730

Real BTU Dry: 1126
 Real BTU Wet: 1106
 Real Calc. Specific Gravity: 0.640
 Field Specific Gravity: 0.000

Standard Pressure: 14.696
 BTU Dry: 1123
 BTU Wet: 1104

Z Factor: 0.9974
 N Value: 1.2946
 Avg Mol Weight: 18.4905
 Avg CuFt/Gal: 57.1555
 26 Lb Product: 0.6771
 Methane+ GPM: 17.849
 Ethane+ GPM: 2.585
 Propane+ GPM: 1.183
 Butane+ GPM: 0.687
 Pentane+ GPM: 0.428

REMARKS:

Approved by: DON NORMAN

646211

Wildcat Measurement Service
PO Box 1836
Artesia, New Mexico 88211-1836
Office #505-746-3481
"Quality and Service is our First Concern"

DOS 2.0
Run No. 20107-03
Date Run 01/07/2000
Date Sampled 01/06/2000

Analysis for: ARCO PERMIAN
Well Name: NASSER FEDERAL #1 MORROW
Field: LITTLE BOX CANYON
Sta. Number:
Purpose: SPOT
Sampling Temp: 60 DEG F
Volume/day:
Pressure on Cylinder: 200 PSIG

GPANGL.L60
Producer: ARCO PERMIAN
County: EDDY State: NM
Sampled By: KARL HAENY
Atmos Temp: 41 DEG F
Formation: MORROW
Line Pressure: 213.2 PSIA

GAS COMPONENT ANALYSIS

		Mol %	GPM
Carbon Dioxide	CO2	0.367	
Nitrogen	N2	0.376	
Methane	C1	93.841	
Ethane	C2	3.678	0.984
Propane	C3	0.869	0.239
Iso-Butane	IC4	0.149	0.049
Nor-Butane	NC4	0.178	0.056
Iso-Pentane	IC5	0.075	0.027
Nor-Pentane	NC5	0.042	0.015
Hexanes Plus	C6+	0.425	0.183
TOTAL		100.000	1.553

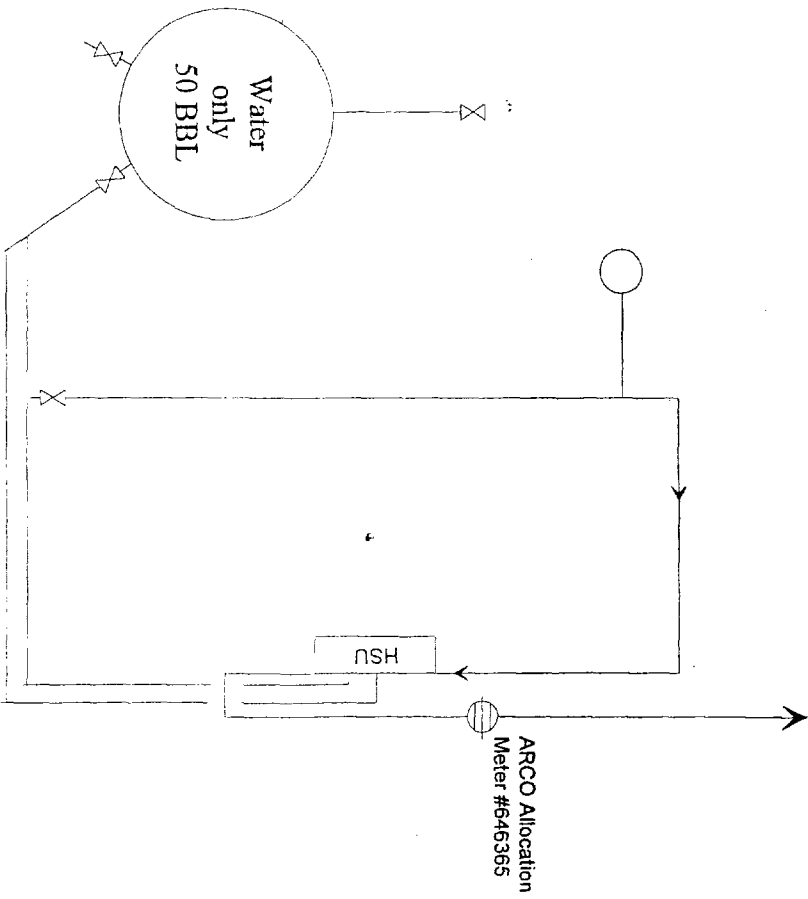
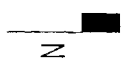
Pressure Base: 14.730
 Real BTU Dry: 1074
 Real BTU Wet: 1055
 Real Calc. Specific Gravity: 0.605
 Field Specific Gravity: 0.000
 Standard Pressure: 14.696
 BTU Dry: 1072
 BTU Wet: 1053
 Z Factor: 0.9977
 N Value: 1.2998
 Avg Mol Weight: 17.4755
 Avg CuPt/Gal: 57.8465
 26 Lb Product: 0.3710
 Methane+ GPM: 17.459
 Ethane+ GPM: 1.553
 Propane+ GPM: 0.570
 Butane+ GPM: 0.330
 Pentane+ GPM: 0.225

REMARKS:

Fri Jan 07 14:06:28 2000

Approved by: DON NORMAN

Hilltop Federal #1



ARCO PERMIAN
HILLTOP FEDERAL #1
1880' FNL 1980' FWL
SEC. 1 T-22S R-21-E
EDDY COUNTY, NEW MEXICO
8/23/99
C. KING

THIS LEASE COMPLIES WITH
ARCO PERMIAN
SITE SECURITY PLAN
FILED AT:
ARCO PERMIAN
BOX 1089
EUNICE, N. M. 88231
DATE OF FACILITY DIAGRAM: 8/12/99

Lease NAME Change 8-24-44

Exxon Lse. No. _____

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-102
Supersedes C-128
Effective 1-4-85

State Lse. No. NM-27451

WELL LOCATION AND ACREAGE DEDICATION PLAT

Federal Lse. No. _____

All distances must be from the outer boundaries of the Section.

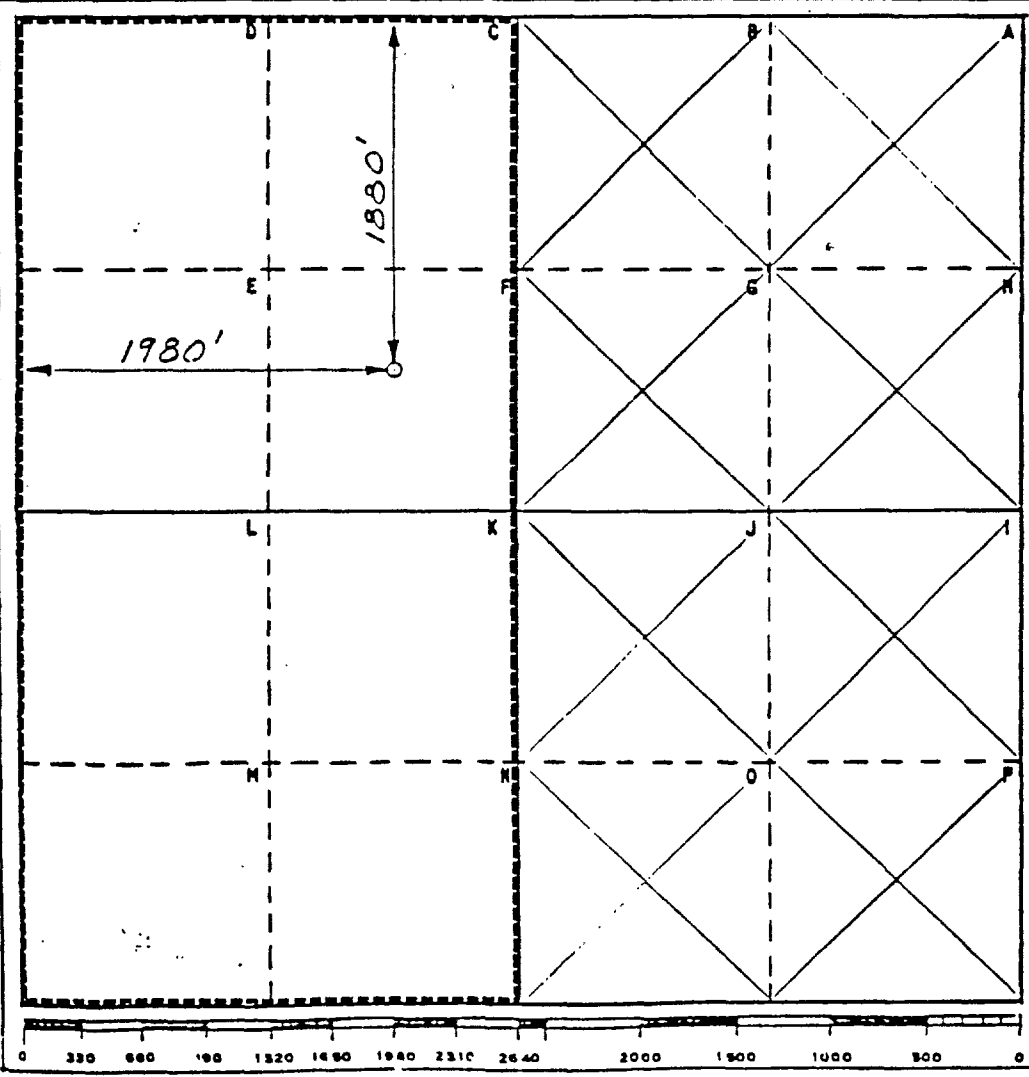
Operator Exxon Corporation		Lease WELTOP NASSER FEDERAL		Well No. 1	
Unit Letter	Section 1	Township 21 S	Range 21 E	County EDDY	
Actual Footage Location of Well: 1880 feet from the NORTH line and 1980 feet from the WEST line					
Ground Level Elev. 4512'	Producing Formation WARRIOR (Perm)		Pool LITTLE BOX CANYON	Dedicated Acreage: 320 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

Yes No If answer is "yes," type of consolidation: _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name
Melba Kripling

Position
UNIT HEAD

Company **Exxon Corporation**
Box 1600 Midland, Texas

Date
3-5-85

I hereby certify that the well location shown on this plat was plotted from field notes of actual survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
1-31-85

Registered Professional Engineer and/or Land Surveyor
Bruce R. Pennell

Certificate No.
9062

#646365



Laboratory Services, Inc.

4016 Fiesta Drive
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

FOR: ARCO Permian
Attention: Mr. Rolan Taylor
P. O. Box 1089
Eunice, New Mexico 88231

SAMPLE: IDENTIFICATION: Hilltop Fed. #1
COMPANY: ARCO Permian
LEASE:
PLANT:

SAMPLE DATA: DATE SAMPLED: 2/19/99 2:30 pm
ANALYSIS DATE: 2/28/99
PRESSURE - PSIG 500
SAMPLE TEMP. °F
ATMOS. TEMP. °F

GAS (XX) LIQUID ()
SAMPLED BY: Rolan Taylor
ANALYSIS BY: Vickie Walker

REMARKS:

COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H2S)		
Nitrogen (N2)	1.309	
Carbon Dioxide (CO2)	0.264	
Methane (C1)	85.575	
Ethane (C2)	5.786	1.544
Propane (C3)	2.291	0.630
I-Butane (IC4)	0.524	0.171
N-Butane (NC4)	0.552	0.268
I-Pentane (IC5)	0.553	0.202
N-Pentane (NC5)	0.510	0.184
Hexane Plus (C6+)	2.836	0.958
	100.000	3.957

BTU/OU.FT. - DRY	1223
AT 14.650 DRY	1219
AT 14.650 WET	1198
AT 14.73 DRY	1226
AT 14.73 WET	1204

MOLECULAR WT. 20.5391

SPECIFIC GRAVITY -
CALCULATED 0.709
MEASURED