



ARCO Permian

600 North Mariefeld
Midland, TX 79701-4373
P.O. Box 1610
Midland, TX 79702-1610
Telephone 915-688-5570
Facsimile 915-688-5956
Email ecasbee@mail.arco.com

Elizabeth A. Casbeer
Regulatory/Compliance Analyst

July 25, 2000

New Mexico Oil Conservation Division
ATTN: David Catanach
2040 S. Pacheco Street
Santa Fe, NM 87505

Bureau of Land Management
Carlsbad Resource Area
P. O. Box 1778
Carlsbad, NM 88220

RE: Application of ARCO Permian
for Downhole Commingling on
Sweet Thing Federal Unit Well No. 2
Little Box Canyon (Morrow) and Indian Loafer Draw (Upper Penn) Pools
Eddy Co., NM

Mr. Catanach:

ARCO Permian respectfully requests administrative approval for downhole commingling on the Sweet Thing Federal Unit Well Number 2. Attached are the supporting documents for this application.

If you have any questions, please contact me at 915/688-5570. Please send the approved permit to:

ARCO Permian
ATTN: E. A. CASBEER, Room 959-54
P. O. Box 1610
Midland, TX 79702

Yours very truly,

Elizabeth A. Casbeer
Regulatory Compliance Analyst

Attachments

xc: Mike Brock – EUN
Gary Smallwood – 63323/MIO
Central Files - 041/MIO
R/C Files

0021736650

DHC 8/17/00

JUL 28

2802

DISTRICT I

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

DISTRICT II

811 South First St., Artesia, NM 88210-2835

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

ARCO Permian

P.O. Box 1610 Midland, TX 79702

Operator

Address

Sweet Thing Federal Unit #2

Lot 4-31-20.5S-22E

Eddy

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

OGRID NO. 21602 Property Code NM 82831 API NO. 30-015-30338

Spacing Unit Lease Types: (check 1 or more)

Federal ☒ , State ☐ , (and/or) Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Indian Loafer Draw (Upper Penn)		Little Box Canyon (Morrow)
2. Top and Bottom of Pay Section (Perforations)	6710' - 7252'		8042' - 8088'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure	a. (Current)	a.	a.
Oil Zones - Artificial Lift: Estimated Current			
Gas & Oil - Flowing: Measured Current	b. (Original)	b.	b.
All Gas Zones: Estimated Or Measured Original	2049 psi		2796 psi
6. Oil Gravity (°API) or Gas BTU Content	S.G. gas 0.666		S.G. gas 0.640
7. Producing or Shut-In?	PRODUCING		PRODUCING
Production Marginal? (yes or no)			
* If Shut-In, give date and oil/gas/water rates of last production	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: % Gas: %	Oil: % Gas: %	Oil: % Gas: %

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? ☒ Yes ☐ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☒ Yes ☐ No
Have all offset operators been given written notice of the proposed downhole commingling? ☒ Yes ☐ No11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No

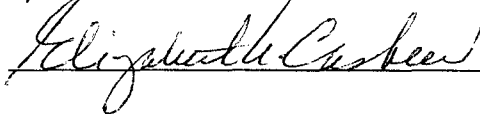
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). _____

16. ATTACHMENTS:

- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation method or formula.
- * Notification list of all offset operators.
- * Notification list of working, overriding, and royalty interests for uncommon interest cases.
- * Any additional statements, data, or documents required to support commingling.

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

SIGNATURE



TITLE:

Regulatory//

Compliance Analyst

DATE July 25, 2000

TYPE OR PRINT NAME

Elizabeth A. Casbeer

TELEPHONE NO. (915)

688-5570

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

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
Fee Lease - 3 Copies

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, 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	Little Box Canyon Morrow
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

LOT 4 13.18 AC.		LOT 3 26.46 AC.		LOT 2 26.61 AC.		LOT 1 27.38 AC.	
4452.2'		4445.9'					
660'							
4439.4'		4451.4'					
LOT 5 20.15 AC.							

OPERATOR CERTIFICATION

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

Signature
Michael G. Mooney

Printed Name
Consulting Engineer

Title
6/8/98

Date

SURVEYOR CERTIFICATION

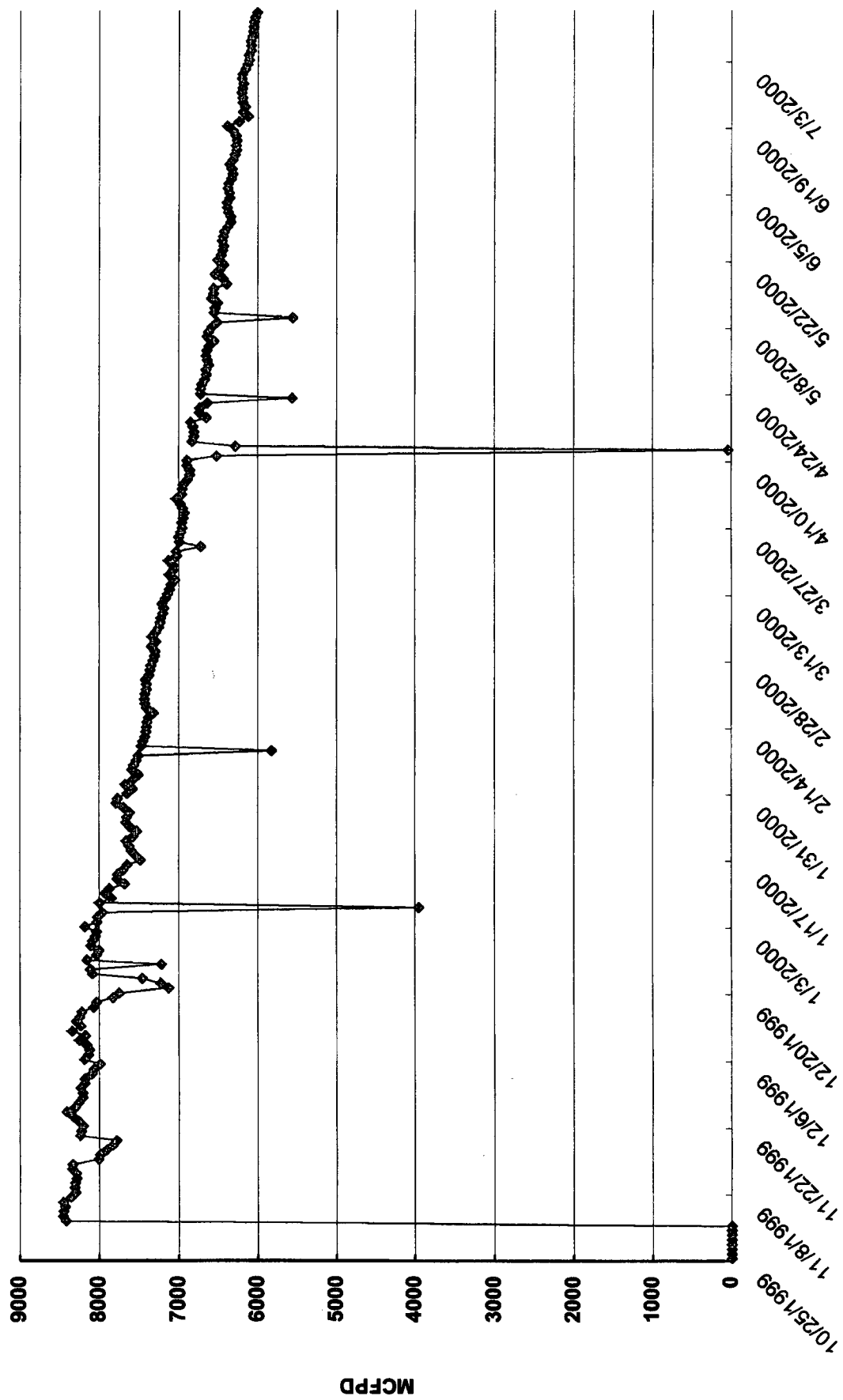
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

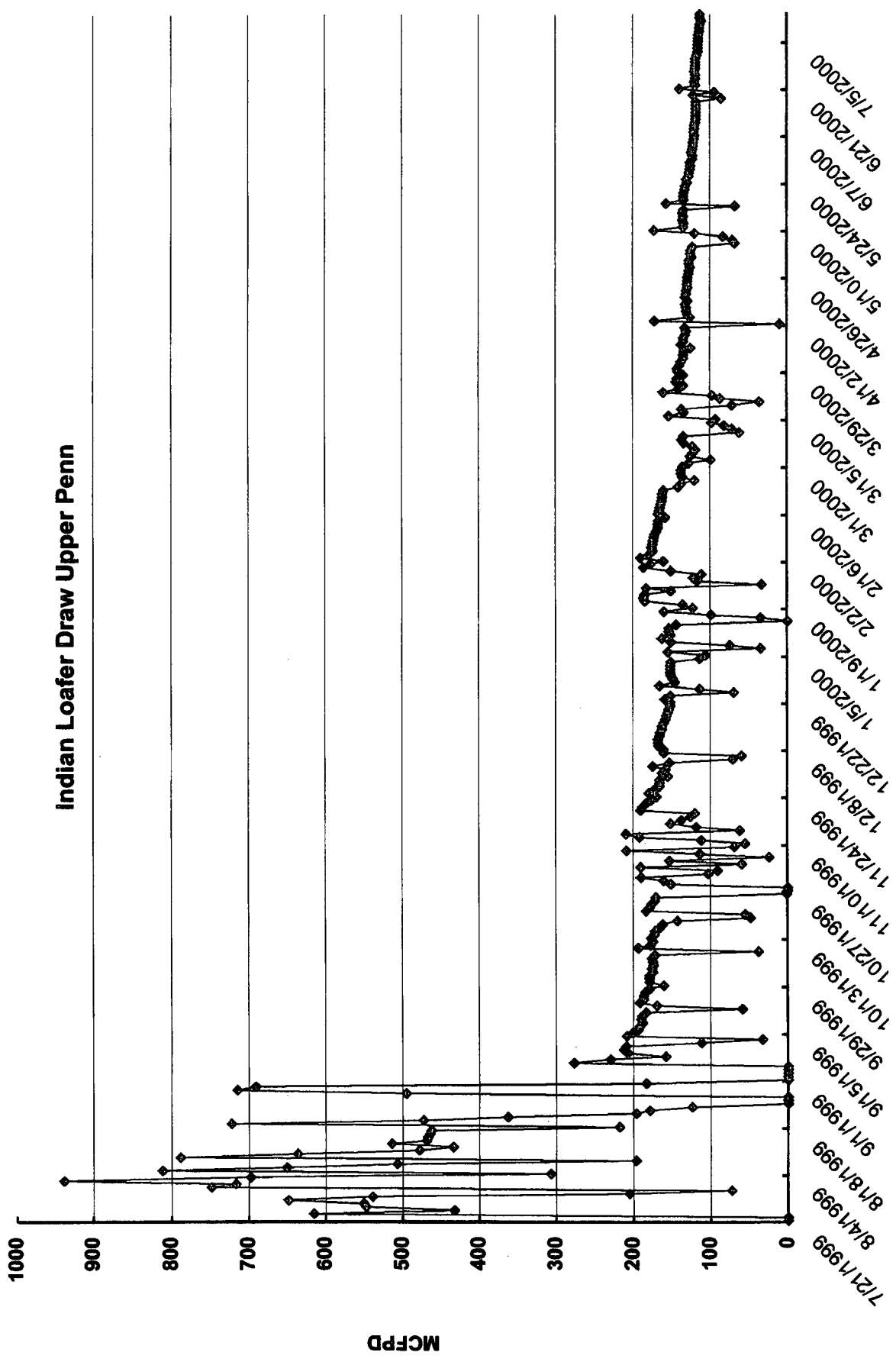
MAY 28, 1998

Date Surveyed
Signature
Professional Surveyor
W.O. Num 98-0837

3239
5-29-98
RONALD EIDSON, 3239
GARY S. EIDSON, 12641
MCDONALD, 12185

Little Box Canyon Morrow





SWEET THING FEDERAL UNIT WELL NO. 2

ALLOCATION FORMULA

<u>Producing Formation</u>	<u>*Daily Production Test Average</u>	<u>% of Total</u>
Currently		
Indian Loafer Draw (Upper Penn)	115 MCFPD	2%
Little Box Canyon (Morrow)	6000 MCFPD	98%
After Workover to DHC		
Indian Loafer Draw (Upper Penn)	115 MCFPD	.7%
Little Box Canyon (Morrow)	15000 MCFPD	99.3%

?

STEVENS & TULL, INC.

date 1/9/99

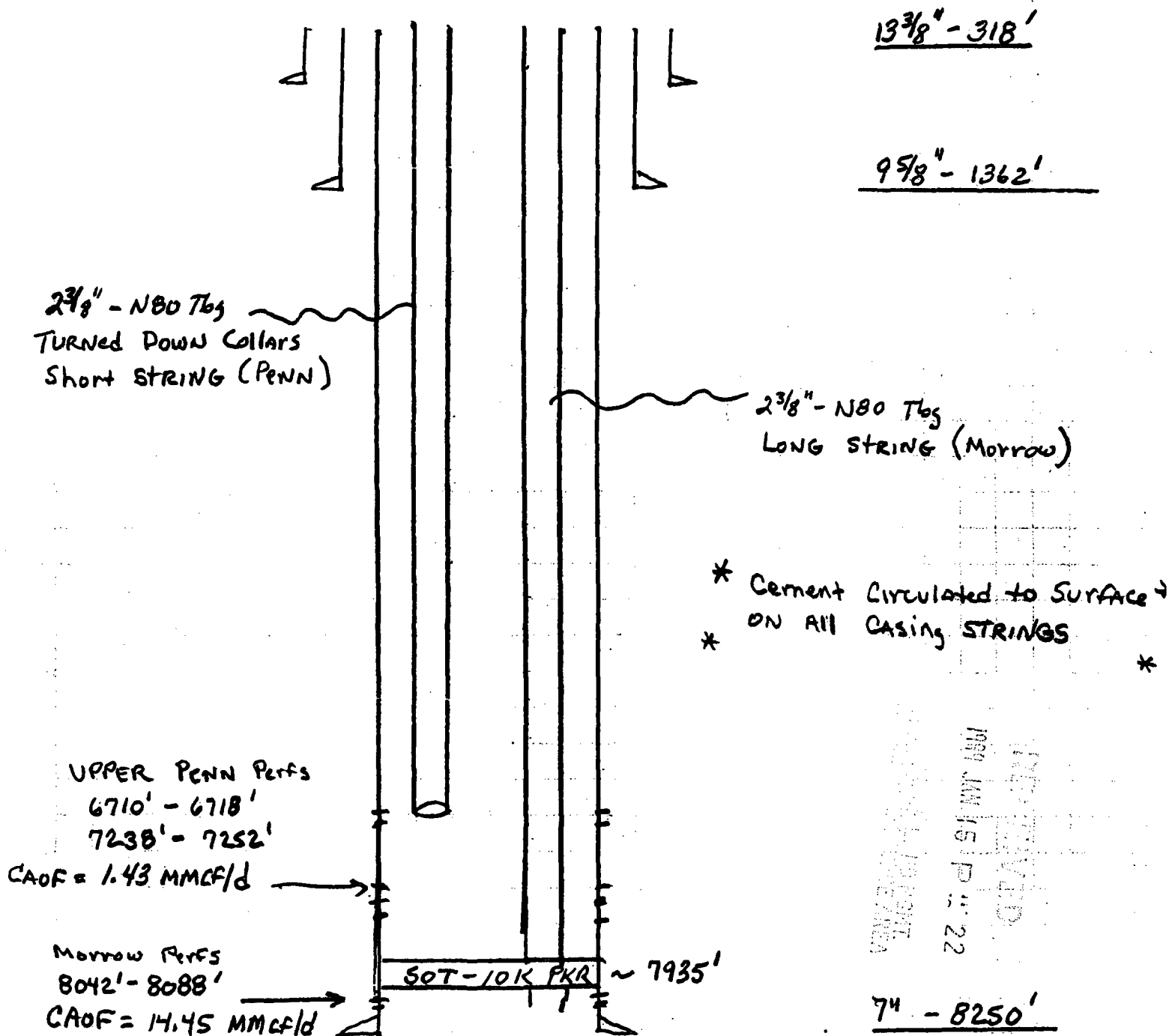
MICHAEL G. MOONEY
Petroleum Engineer
(915) 699-1410

P.O. Box 11005 (79702)
3316 Andrews Highway (79703)
Midland, Texas

Current

Subject DUAL Completion

Sweetthing Fedense Unit #2
Sec 31, T20½S, R22E
EDDY County, New Mexico



STEVENS & TULL, INC.

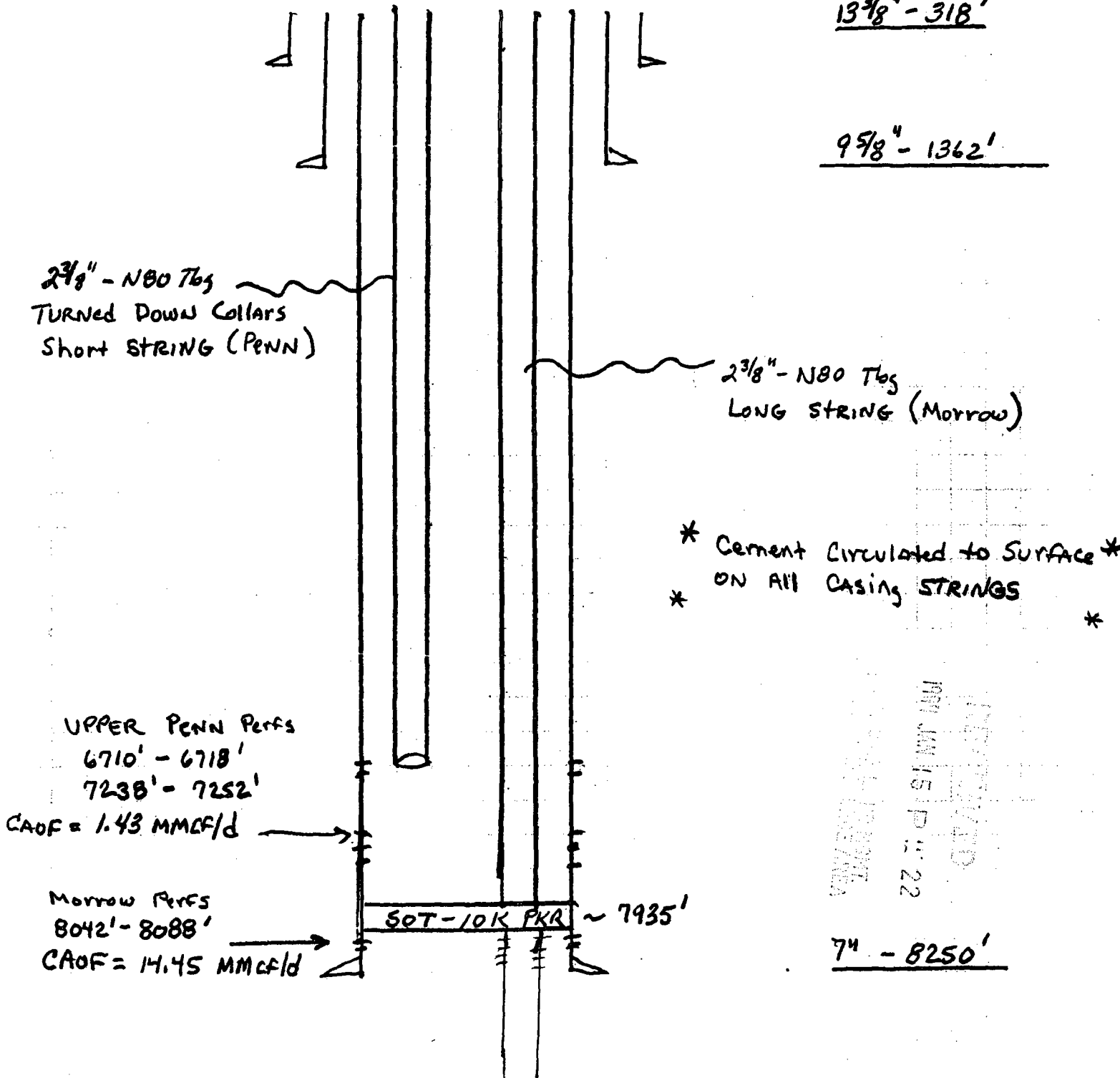
MICHAEL G. MOONEY
Petroleum Engineer
(915) 699-1410

P.O. Box 11005 (79702)
3318 Andrews Highway (79703)
Midland, Texas

date 1/9/99

Proposed DHC
Subject DUAL Completion

Sweetthorn Fedense Unit # 2
Sec 31, T20 1/2 S, R22 E.
EDDY County, New Mexico

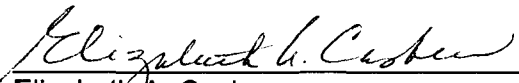


STATE OF TEXAS

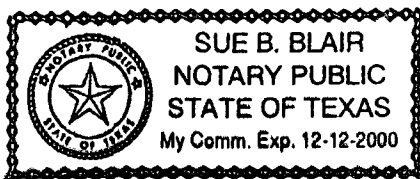
COUNTY OF MIDLAND

BEFORE ME, the undersigned authority on this day personally appeared Elizabeth A. Casbeer, an Regulatory Compliance Analyst with **ARCO Permian**, who being by me duly sworn, deposes and states that the persons listed on the foregoing attached list have been sent a copy on July 25, 2000, of the New Mexico Oil Conservation Division Form C-107 entitled, "Application For Downhole Commingling" for the Sweet Thing Federal Unit Well Number 2, located in Section 31, T20.5S, R22E, Eddy County New Mexico.

ARCO Permian


Elizabeth A. Casbeer

SUBSCRIBED AND SWORN TO before me on July 25, 2000, to certify which witness my hand and seal of office.




NOTARY PUBLIC, STATE OF TEXAS

OFFSET OPERATORS AND LEASEHOLD
SWEET THING FEDERAL UNIT NO. 2 WELL
660' FN & WL OF SECTION 31,
T-20 1/2-S, R-22-E, N.M.P.M.,
EDDY COUNTY, NEW MEXICO



ALL SECTION 31, T-20 1/2-S, R-22-E, AND LOTS 3,4,5,6 & 7, SE/4 NW/4 AND E/2 SW/4
SECTION 6, T-21-S, R-22-E.
STEVENS & TULL, INC.'S SWEET THING FEDERAL UNIT
P.O. BOX 11005, MIDLAND, TEXAS 79702



LOTS 1 AND 2, S/2 NE/4 AND SE/4 SECTION 1, T-21-S, R-21-E.
STEVENS & TULL, INC.'S NASSER FEDERAL LEASE
P.O. BOX 11005, MIDLAND, TEXAS 79702



LOTS 1 AND 2, S/2 NE/4 AND SE/4 SECTION 6, T-21-S, R-22-E.
STEVENS & TULL, INC.'S WILD THING FEDERAL LEASE
P.O. BOX 11005, MIDLAND, TEXAS 79702



ALL OF SECTION 36, T-20 1/2-S, R-21-E.
STEVENS & TULL, INC.'S SWEET THING STATE "36" LEASE (VA-802)
P.O. BOX 11005, MIDLAND, TEXAS 79702



ALL OF SECTION 36, T-20-S, R-21-E.
STEVENS & TULL, INC.'S LITTLE BOX STATE LEASE (VA-1541)
P.O. BOX 11005, MIDLAND, TEXAS 79702



S/2 SECTION 31, T-20-S, R-~~23~~-E.
STEVENS & TULL, INC.'S FEDERAL "31" LEASE
P.O. BOX 11005, MIDLAND, TEXAS 79702



N/2 SECTION 5, T-21-S, R-22-E.
YATES PETROLEUM CORPORATION (1/2)
105 SOUTH 4TH STREET, ARTESIA, NM 88210

OXY, USA, INC. (1/2)
P.O. BOX 300, TULSA, OK 74102



ALL SECTION 32, T-20 1/2-S, R-22-E.
YATES PETROLEUM CORPORATION
105 SOUTH 4TH STREET, ARTESIA, NM 88210

Sweet Thing Federal Unit #2 Pools: Little Box Canyon (Morrow) Indian Loafer Draw (Upper Penn)		
	Sweet Thing Federal Unit #2 Indian Loafer Draw (Upper Penn) Well No.1, Section 31 T-20.5-S. R-22-E	Sweet Thing Federal Unit #2 Little Box Canyon (Morrow) Well No.1, Section 31 T-20.5-S. R-22-E
Royalty Interest		
Minerals Management Service Royalty Management Program Box 5810 T A Denver, CO 80217	0.12500000	0.12500000
Overriding Royalty Interest		
Jerry A. Weant D/B/A Bevoil P.O. Box 7201 Midland TX 79708	0.00500000	0.00500000
Michael G. Mooney P.O. Box 7405 Midland TX 79708	0.00127395	0.00127395
Wesley K. Noe 3323 Maxwell Midland TX 79707	0.00127396	0.00127396
The "S" Family Partners, LTD P.O. Box 11106 Midland TX 79702	0.01477740	0.01477740
Pogar Petroleum, LTD. P.O. Box 10095 Midland TX 79702	0.01477740	0.01477740
Calmetto, II LTD. P.O. Box 11107 Midland TX 79702	0.01477740	0.01477740
Great Western Drilling Co. P.O. Box 1659 Midland TX 79701	0.03692250	0.03692250
Working Interest		
Scott E. Muehlbrad 2511 Terrace Midland TX 79705	0.00351038	0.00351038
D & D Partnership 830 East Big Briar Way Arcanada Ca 91011	0.02808298	0.02808298
Doralex Energy, Inc. 3619 S. Jackson San Angelo TX 76904-5598	0.01404149	0.01404149
Dingus Investments, Inc. P.O. Box 11120 Midland TX 79702	0.04190388	0.04190388
The De Compiegne Property Co. #20LTD P.O. Box 1071 Midland TX 79702	0.05028465	0.05028465
Andrews & Corkran, L.L.C., Agent for David J. Andrews & Dennis D. Corkran 2219 WestLake Drive, Ste. 150 Austin, TX 78746	0.06704620	0.06704620
Yates Petroleum Corp. P.O. Box 1395 Artesia NM 88211-1395	0.00162252	0.00162252
ABO Petroleum Corporation 105 S. 4th Street Artesia NM 88210	0.01297511	0.01297511

	Sweet Thing Federal Unit #2 Indian Loafer Draw (Upper Penn) Well No.1, Section 31 T-20.5-S. R-22-E	Sweet Thing Federal Unit #2 Little Box Canyon (Morrow) Well No.1, Section 31 T-20.5-S. R-22-E
Great Western Drilling Co. P.O. Box 1659 Midland TX 79701	0.05096182	0.05096182
Myco Industries, Inc. P.O. Box 840 Artesia NM 88211-0840	0.01297511	0.01297511
Yates Drilling Company 105 S. 4th Street Artesia NM 88210	0.01297511	0.01297511
Atlantic Richfield Co. P.O. Box 600 Dallas TX 75221	0.48981814	0.48981814
Total Royalty Interest	0.12500000	0.12500000
Total Overriding Royalty Interest	0.08880261	0.08880261
Total Working Interest	0.78619739	0.78619739
Total Interest	1.00000000	1.00000000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FOR APPROVED
OMB NO. 1004-0137
Expires: December 31, 1991LEASE DESIGNATION AND SERIAL NO.
NM82831

IF INDIAN, ALLOTTEE OR TRIBE NAME

UNIT AGREEMENT NAME

NMNM91032A

FARM OR LEASE NAME, WELL NO.
Sweetthing Federal Unit #2API WELL NO.
30-015-30338FIELD AND POOL, OR WILDCAT
Indian Loafer Draw Upper PerSEC. T., R., M., OR BLOCK AND SURVEY
OR AREA
Lot 4, Sec. 31, T20½S, R22ECOUNTY OR PARISH
EddySTATE
NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. REMED. ☐ Other _____

2. NAME OF OPERATOR

Stevens & Tull, Inc.

3. ADDRESS AND TELEPHONE NO.

P. O. Box 11005, Midland, TX 79702 (915) 699-1410

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 660' FNL & 660' FWL

At top prod. interval reported below
675' FNL & 480' FWLAt total depth
675' FNL & 480' FWL

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 8/19/98 16. DATE T.D. REACHED 9/17/98 17. DATE COMPL. (Ready to prod.) 10/22/98 18. ELEVATIONS (DF, RKB, RT, GS, ETC.)* 4443 GR 19. ELEV. CASINGHEAD 4448

20. TOTAL DEPTH, MD & TVD 8275 21. PLUG, BACK T.D., MD & TVD 8214 22. IF MULTIPLE COMPL., HOW MANY* 2 23. INTERVALS DRILLED BY ROTARY TOOLS R CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6710-7252 Upper Penn 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Azimuthal Laterlog w/Micro-CFL & Litho-Density Compensated Neutron & FMI

27. WAS WELL CORRED

Yes

28. CARING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8 K55	48	318	17 1/2	455 sx to Surface	
9 5/8 J55	36	1362	12 1/4	1045 sx to Surface	
7" N80	23# & 26#	8250	8 3/4	750 sx to 6220'	
				935 sx to Surface	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	6710	7935

31. PERFORATION RECORD (Interval, size and number)

6710 - 6718 (4 spf=34 holes)

7238-7252 (4 spf = 48 holes)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6710-7252	Acidize w/1000 gals 15% NEFE

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
10/22/98		Flowing				Producing	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
1/9/99	24	30/64	→	0	595	0	
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
1750	0	→	0	595	0		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

None-Directional Survey, Electric Logs previously submitted w/Little Box Canyon Morrow Completio

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Linda Johnston

TITLE

Agent

DATE

2/8/99

* (See Instructions and Spaces for Additional Data on Reverse Side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other
instructions on
reverse side)FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

NM82831

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

NMNM91032A

8. FARM OR LEASE NAME, WELL NO.

Sweetthing Federal Unit # 2

9. API WELL NO.

30-015-30338

10. FIELD AND POOL, OR WILDCAT

Little Box Canyon Morrow

11. SEC., T., R., M., OR BLOCK AND SURVEY
OR AREA

Sec 31, T20 1/2S, R 22E

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other _____b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Stevens & Tull, Inc

3. ADDRESS AND TELEPHONE NO.

P.O. Box 11005, Midland, Texas 79702 915/699-1410

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

660' FNL & 660' FWL

At top prod. interval reported below

675' FNL & 480' FWL

At total depth

675' FNL & 480FWL

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR PARISH

13. STATE

Eddy

NM

15. DATE SPUDDED

08/19/98

16. DATE T.D. REACHED

09/17/98

17. DATE COMPL. (Ready to prod.)

10/22/98

18. ELEVATIONS (DF, RKB, RT, GE, ETC.)

4443 GR

19. ELEV. CASINGHEAD

4448

20. TOTAL DEPTH, MD & TVD

8275

21. PLUG, BACK T.D., MD & TVD

8214

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

R

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)*

8042' - 8088'

Morrow

25. WAS DIRECTIONAL
SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Azimuthal Laterolog w/ Micro-CFL & Litho-Density Compensated Neutron & FMI w/ Dipmeter

27. WAS WELL CORED

Yes

28. CASING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
13 3/8" - K55	48	318	17 1/2	Surface - 455 sx	0
9 5/8" - J55	36	1362	12 1/4	Surface - 1045 sx	0
7" - N80	23# & 26#	8250	8 3/4	6220' - 750 sx	0
				Surface - 935 sx	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8	8088	7935

30. TUBING RECORD

31. PERFORATION RECORD (Interval, size and number)

8040' - 8088'

0.5" diameter

4 spf / 184 holes

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
8042' - 8088'	Natural - perforated in 2 bbls 7.5% HCL

33. * PRODUCTION

DATE FIRST PRODUCTION 10/22/98		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing				WELL STATUS (Producing or shut-in) Producing	
DATE OF TEST 10/28/98	HOURS TESTED 24	CHOKE SIZE 30/64	PROD'N FOR TEST PERIOD →	OIL—BBL 72	GAS—MCF. 8200	WATER—BBL 1	GAS-OIL RATIO 113,890
FLOW. TUBING PRESS. 1750	CASING PRESSURE 0	CALCULATED 24-HOUR RATE →	OIL—BBL 72	GAS—MCF. 8200	WATER—BBL 1	OIL GRAVITY-API (CORR.) 54.2	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Sold - Agave Energy Pipeline

TEST WITNESSED BY

Roy Peugh

35. LIST OF ATTACHMENTS

Directional Survey, Electric Logs, 4 - PT tests w/ pressure build-up data

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Consulting Engineer

DATE 11/14/98

*(See Instructions and Spaces for Additional Data 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.