

June 15, 1999

Attn: David Catanach
State of New Mexico – Oil Conservation Division
2040 S. Pacheco
Santa Fe, New Mexico 87505

**Re: Application to Downhole Commingle
Turner No. 20
Paddock Pool (49210) and Wantz ABO Pool (62700)
Lea County, New Mexico**

Apache Corporation would like to request administrative approval to downhole commingle the referenced pools in the Turner # 20 well.

To support this request we submit the following:

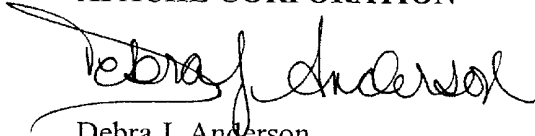
- 1) New Mexico – OCD Form C-107A
- 2) New Mexico – OCD Form C-102 for Paddock Pool
- 3) New Mexico – OCD Form C-102 for Wantz ABO Pool
- 4) Production Curve for Turner # 18 in the Paddock Pool
- 5) Production Curve for Turner # 08 in the Wantz ABO Pool
- 6) Well Test for Turner # 20 from both pools and Allocation formula
- 7) Copy of letter sent (by Certified Mail) to Offset operators within one-half mile of Turner # 20

8) Map of location with one-half mile radius marked

If you have any questions or require additional information regarding this application, please contact me at 713-296-6338. Thank you.

Sincerely,

APACHE CORPORATION

A handwritten signature in black ink, appearing to read "Debra J. Anderson". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Debra J. Anderson
Sr. Engineering Technician

Attachments

DISTRICT I
1625 N. French Drive, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107A
New 3-12-96

APPROVAL PROCESS:
☒ Administrative
☐ Hearing
EXISTING WELLBORE
☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLE

Apache Corporation 2000 Post Oak Blvd., Suite 100, Houston, Texas 77056-4400
Operator Address
Turner 20 Unit P / Sec. 22 / T21S / R37E Lea
Lease Well No. Unit Ltr.-Sec-Twp-Rgn County
Spacing Unit Lease Types: (one or more)
☐ Federal ☐ State ☒ Fee

OGRID NO.	000873 Property Code	22880 API No.	30-025-34592
The following facts are submitted in support of downhole commingling:		Upper Zone	Intermediate Zones
1. Pool Name and Pool Code	Paddock (49210)		Wantz ABO (62700)
2. Top and Bottom of Pay Section (Perforations)	5057' - 5326'		6989' - 7274'
3. Type of production (Oil or Gas)	Oil		Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	a. (Current) 1300 b. (Original)	a. b.	a. 1500 b.
6. Oil Gravity (°API) or Gas BTU Content	35.1		34.4
7. Producing or Shut-In? Production Marginal? (Yes or No) * If Shut-In, give date and oil/gas/water rates of last production 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 80 days)	Producing Yes Date: Rates: Date: 6/13/99 Rates: 30x92x121		Shut-In Yes Date: 5/27/99 Rates: 37x239x8 Date: Rates:
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 47% Gas: 31%	Oil: % Gas: %	Oil: 53% Gas: 69%

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 ☐ No
11. Will cross-flow occur? ☐ Yes ☒ No If yes, are fluids compatible, will the formations be undamaged, will any cross-flow 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 ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on or communized 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(C) 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 Debra J. Anderson TITLE Senior Engineering Technician DATE 06/15/99
TYPE OR PRINT NAME Debra J. Anderson TELEPHONE NO. 713-296-6338

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34592	Pool Code 49210	Pool Name Paddock
Property Code 22880	Property Name TURNER	Well Number 20
GRID No. 000873	Operator Name APACHE CORPORATION	Elevation 3400

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	21 S	37 E		330	SOUTH	730	EAST	LEA

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 40	Joint or Infill	Consolidation Code	Order No.
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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.	
	Signature 	
	Printed Name Debra J. Anderson	
	Title Sr. Engineering Tech. Date 06/14/99	
NAD 27 NME Y=532355.10 N X=866786.92 E 	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.	
	Date Surveyed MARCH 16, 1999	
	Signature of Surveyor 	
	Printed Name RONALD J. EIDSON Title Sr. Engineering Tech. Date 06/14/99	

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

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

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1000 Rio Brazos Rd., Aztec, NM 87410

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

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

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34592	Pool Code 62700	Pool Name Wantz ABO
Property Code 22880	Property Name TURNER	Well Number 20
OGRID No. 000873	Operator Name APACHE CORPORATION	Elevation 3400

Surface Location

UL or lot No. P	Section 22	Township 21 S	Range 37 E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 730	East/West line EAST	County LEA
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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 40	Joint or Infill	Consolidation Code	Order No.						

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OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

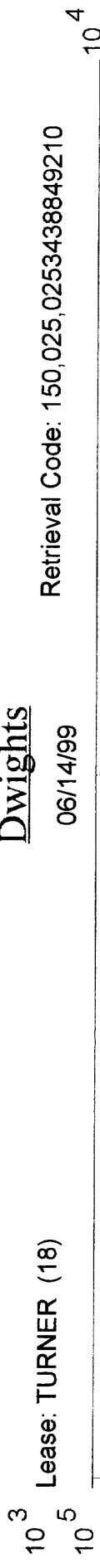
	OPERATOR CERTIFICATION <i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i> Signature Debra J. Anderson Printed Name Sr. Engineering Tech. Title 06/14/99 Date	
	SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown 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> MARCH 16, 1999 Date Surveyed Signature of Surveyor Professional Surveyor NEW MEXICO 3239 P.O. Num 99-10-0203 Cert. State No. RONALD EIDSON, 3239 EIDSON, 12641 McDONALD, 12185	

Dwights

Lease: TURNER (18)

Retrieval Code: 150,025,0253438849210

06/14/99



Gas (mcf/mo)

Water (bbl/mo)

County: LEA

Field: PADDOCK (PADDOCK) PD

Reservoir: PADDOCK

Operator: APACHE CORP

F.P. Date: 06/98

Oil Cum: 21.15 mbbl

Gas Cum: 85.37 mmcf

Location: 22N 21S 37E

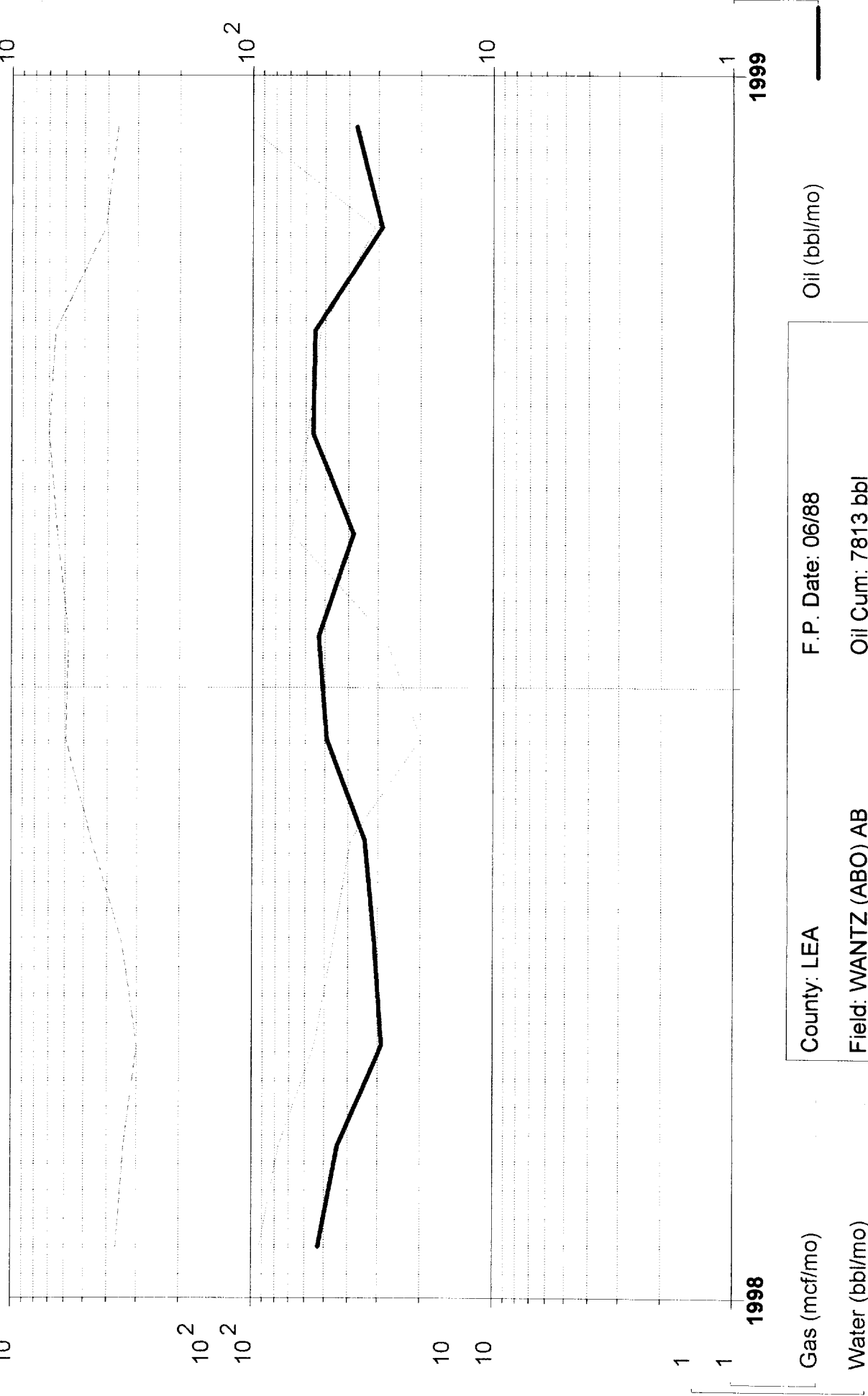
Oil (bbl/mo)

Dwights

Lease: TURNER (8)

Retrieval Code: 150,025,21S37E22L00AB

06/14/99



County: LEA	F.P. Date: 06/88
Field: WANTZ (ABO) AB	Oil Cum: 7813 bbl
Reservoir: ABO	Gas Cum: 62.46 mmcf
Operator: APACHE CORP	Location: 22L 21S 37E

Turner # 20
Well Tests

Wantz ABO Pool (62700)

DATE	OIL	GAS	WATER
05/11/99	18	24	240
05/12/99	13	10	55
05/13/99	22	122	3
05/14/99	23	138	0
05/15/99	22	140	0
05/16/99	22	138	0
05/17/99	20	148	5
05/18/99	12	135	10
05/19/99	16	139	0
05/20/99	17	158	0
05/21/99	23	218	1
05/22/99	50	250	3
05/23/99	34	215	3
05/24/99	35	216	5
05/25/99	27	219	10
05/26/99	37	239	8

Total

Oil	Gas
50	250
34	215
35	216
27	219
37	239
183	1139

Paddock Pool (49210)

DATE	OIL	GAS	WATER
06/02/99	58	361	37
06/03/99	10	138	100
06/04/99	40	92	252
06/05/99	56	102	213
06/06/99	41	102	176
06/07/99	38	99	160
06/08/99	36	94	155
06/09/99	38	99	149
06/10/99	34	98	139
06/11/99	31	108	129
06/12/99	31	105	126
06/13/99	30	92	121

Total

Oil	Gas
38	99
34	98
31	108
31	105
30	92
164	502

Wantz ABO	183	1139
Paddock	164	502
Total	347	1641
Wantz ABO %	0.53	0.69
Paddock %	0.47	0.31

**TURNER LEASE
OFFSET OPERATORS**

Conoco Inc.
10 Desta Dr., Suite 100W
Midland, Texas 79705
Certified Rcpt # Z 116 148 776

Texaco E&P Inc.
205 E. Bender Blvd.
Hobbs, New Mexico 88240
Certified Rcpt # Z 116 148 777



June 15, 1999

Offset Operators

**Re: Application to Downhole Commingle
Turner No. 20
Paddock Pool (49210) and Wantz ABO Pool (62700)
Lea County, New Mexico**

Attached please find a copy of an Application to Downhole Commingle the referenced pools in the Turner # 20 that Apache Corporation has filed with the New Mexico Oil Conservation Division. If you have an objection to this application, you must notify the OCD in writing within 20 days from the date of this letter.

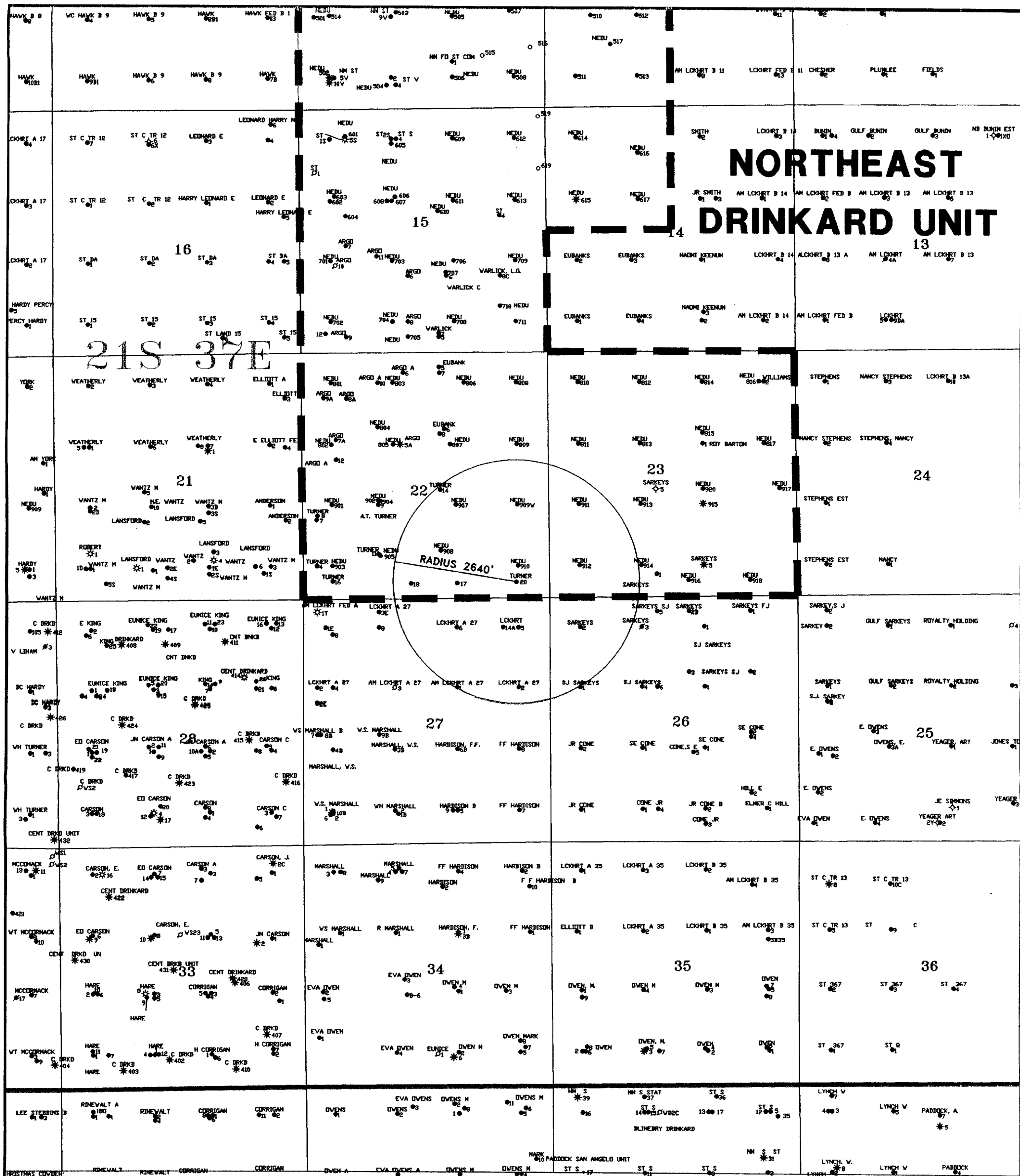
Sincerely,

APACHE CORPORATION

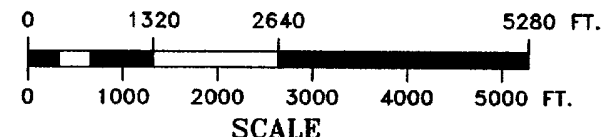
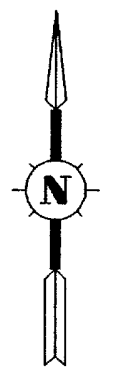
A handwritten signature in black ink, appearing to read "Debra J. Anderson", written over a horizontal line.


Debra J. Anderson
Sr. Engineering Technician

Attachment



NORTHEAST DRINKARD UNIT





NEDU AREA LEA COUNTY, NEW MEXICO

TURNER #20 DOWN HOLE COMMINGLE

DATE: 06/15/99	REVISED: 00/00/00	GEOLOGIST: B. USZYNSKI
J:\PER\NEDU\TURNER20.DWG	DRAFTED BY: HGS	LANDMAN: T. CUSTER