Form 3160-3
(July 1992)

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

SUBMIT IN TRIPLICATE* (Other instruction. reverse side)

FORM APPROVED
OMB NO. 1004-0136
Expires: February 28, 1995

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NM-2512

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

1a. TYPE OF WORK: DRILL ■ DEEPEN ☐

7. UNIT AGREEMENT NAME: Northeast Drinkard Unit

b. TYPE OF WELL: OIL WELL ■ GAS WELL ☐ OTHER — SINGLE ZONE ☐ MULTIPLE ZONE ☐

8. FARM OR LEASE NAME, WELL NO.: #415

2. NAME OF OPERATOR: Apache Corporation, 2000 Post Oak, Suite 100, Houston, TX 77056

9. API WELL NO.: 30-25- 34661

3. ADDRESS AND TELEPHONE NO.: c/o J. O. Easley, Inc., P. O. Box 2691, Roswell, NM 88211-0245 (505) 625-8807

10. FIELD AND POOL OR WILDCAT: Eunice-Blinebry-Tubb-Drinkard North

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At Surface: 1208' FNL & 1745' FWL, Unit C UNORTHODOX LOCATION
At proposed prod. Zone: 1208' FNL & 1745' FWL, Unit C

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 10, 21S-37E, N.M.P.M.

SUBJECT TO LIKE APPROVAL BY STATE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: ±4 miles North of Eunice, New Mexico

12. COUNTY FOR PARISH: Lea — 13. STATE: NM

15. DISTANCE FROM PROPOSED * LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1208'	708.67	40.00
18. DISTANCE FROM PROPOSED LOCATION * TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
909.2'	7,000'	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3454'

22. APPROX. DATE WORK WILL START *: ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 ¼"	8 5/8"	24#	WITNESS 1365'	480 sx PBCZ-Circulate to surf
7 7/8"	5½"	17#	7000'	870 sxs Hal. Interfill "C"
	CAPITAN CONTROLLED WATER BASIN			+455 sxs 50/50 Pozmix
				Circulate to surface

Anticipated Duration of Program: Drilling – Sixteen (16) days
Completion - Twenty (20) days

See attached for complete Drilling Program

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

EXHIBITS

Exhibit "A": Drilling Program
Exhibit "B": H_2S Plan
Exhibit "C": Surface Use Plan
Exhibit "D": Land Survey Plat
Exhibit "E": Vicinity Plat
Exhibit "F": Existing Well Plat
Exhibit "G": Rig Layout
Exhibit "H": BOP Layout

acc 7/19/99

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Bonita L. L. Jones TITLE Permit Agent for Apache Corporation DATE 7-10-99

Bonita L. L. Jones, RLP, Consulting Landman for J. O. Easley, Inc.

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY: /S/LARRY D. BRAY

APPROVED BY _____ Acting Assistant Field Office Manager, Lands and Minerals DATE 8-30-99

APPROVED FOR 1 YEAR

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 ma

OPER. OGRID NO. 873
PROPERTY NO. 22503
POOL CODE 22900
EFF. DATE 9-13-99
API NO 30-025-34661

51

BUREAU OF LAND
ROSWELL N.M.
JUL 12

EXHIBIT "A"
NEDU #415

DRILLING PROGRAM

I. The geological surface formation is recent Permian with quaternary alluvium and other surficial deposits.

II. Estimated Tops of Geological Markers:

FORMATION	DEPTH	SUBSEA
Quaternary alluvials	Surface	
Rustler	1365'	2111'
Yates	2775'	701'
Seven Rivers	3025'	451'
San Andres	4200'	-724'
Glorieta	5468'	-1992'
Paddock	5550'	-2074'
Blinebry	5600'	-2124'
Tubb	6130'	-2654'
Drinkard	6470'	-2994'
TD	7000'	-3524'

III. Estimated depths at which water, oil, gas, or other mineral-bearing formations are expected to be encountered:

SUBSTANCE	DEPTH
Oil	Blinebry at 5600' Tubb at 6130' Drinkard at 6470'
Gas	None anticipated
Water	None anticipated

All fresh water and prospectively valuable minerals (as described by BLM) encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows within zones of correlative rights will be tested to determine commercial potential.

IV. A. Proposed Casing Program:

HOLE SIZE	CASING SIZE	GRADE	WEIGHT PER FOOT	DEPTH
12 ¼"	8 5/8"	K-55 STC	24#	1365'
7 7/8"	5 ½"	K-55 LTC	17#	7000'

B. Proposed Cement Program:
See pages 3 through 9

V. Proposed Mud Program:
See pages 3 through 9

VI. Proposed Control Equipment:
Will install on the 8 5/8" surface casing a 10" Series 900 Type "E" Shaffer Double Hydraulic BOP and will test before drilling in the Queen formation. BOP working pressure: 3000 psi. See Exhibit "H" for BOP layout.

VII. Auxiliary Equipment:
Blowout preventor, gas detector, kelly cock, pit level monitor, flow sensors, and stabbing valve.

VIII A. Testing Program:
Drill Stem Tests: None planned

B. Logging Program:

GR-DLL-MSFL-Cal	TD-2300'
GR-CNL-CDL-Cal	TD - Surface

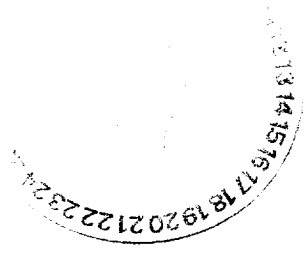
C. Coring Program:
None planned

IX. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered, however, the proposed mud program will be modified to increase the mud-weight. The estimated maximum bottom hole pressure is 1980 psi.


SEP 1999
Received
Hobbs
OCD

JOB AT A GLANCE

Depth (TVD)	1,365 ft
Depth (MD)	1,365 ft
Hole Size	11 in
Casing Size/Weight :	8 5/8 in, 24 lbs/ft
Pump Via	Casing 8 5/8" O.D. (8.097" .I.D) 24 #
Total Mix Water Required	4,064 gals
Lead Slurry	
Class C + 6% Gel	275 sacks
Density	12.8 ppg
Yield	2.06 cf/sack
Tail Slurry	
Class C + additives	105 sacks
Density	13.5 ppg
Yield	1.69 cf/sack
Displacement	
Fresh Water	84 bbls
Density	8.3 ppg



Operator Name: Apache Corporation
Well Name: NEDU Package
Job Description: 8 5/8" Surface Casing
Date: March 11, 1999

Proposal No: 128850946F

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
15.376 CASING	40	40
11.000 HOLE	1,365	1,365

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
8.625	8.097	24	1,365	1,365

Float Collar set @	1,325 ft
Mud Density	8.40 ppg
Est. Static Temp.	88 ° F
Est. Circ. Temp.	83 ° F

VOLUME CALCULATIONS

40 ft	x	0.8837 cf/ft	with	0 % excess	=	35.3 cf
685 ft	x	0.2542 cf/ft	with	188 % excess	=	500.9 cf
640 ft	x	0.2542 cf/ft	with	0 % excess	=	162.7 cf
40 ft	x	0.3576 cf/ft	with	0 % excess	=	14.3 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	713.2 cf
					=	127 bbls

FLUID SPECIFICATIONS

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	536	/	2.06	= 275 sacks Class C Cement + 0.005 lbs/sack Static Free + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 6% bwoc Bentonite + 101% Fresh Water
Tail Slurry	177	/	1.69	= 105 sacks Class C Cement + 0.005 lbs/sack Static Free + 2% bwoc Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 78.8% Fresh Water
Displacement				84.4 bbls Fresh Water @ 8.34 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.80	13.50
Slurry Yield (cf/sack)	2.06	1.69
Amount of Mix Water (gps)	11.39	8.88
Amount of Mix Fluid (gps)	11.39	8.88
Estimated Pumping Time - 70 BC (HH:MM)	3:30	3:00
COMPRESSIVE STRENGTH		
12 hrs @ 83 ° F (psi)		
24 hrs @ 83 ° F (psi)		
72 hrs @ 83 ° F (psi)		

JOB AT A GLANCE

Depth (TVD)	7,000 ft
Depth (MD)	7,000 ft
Hole Size	7.875 in
Casing Size/Weight :	5 1/2in, 17 lbs/ft
Pump Via	Casing 5 1/2" O.D. (4.892" .I.D) 17 #
Total Mix Water Required	15,556 gals
Lead Slurry	
35:65:8 (Poz:C:Gel) + Salt	870 sacks
Density	11.8 ppg
Yield	2.54 cf/sack
Tail Slurry	
50:50:2 Class C	455 sacks
Density	14.2 ppg
Yield	1.30 cf/sack
Displacement	
Fresh Water	156 bbls
Density	8.3 ppg

Operator Name: Apache Corporation
Well Name: NEDU Package
Job Description: 5 1/2" Production Casing
Date: March 11, 1999

Proposal No: 128850946F

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	1,365	1,365
7.875 HOLE	7,000	7,000

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.892	17	7,000	7,000

Float Collar set @	6,720 ft
Mud Density	10.00 ppg
Est. Static Temp.	121 ° F
Est. Circ. Temp.	114 ° F

VOLUME CALCULATIONS

1,365 ft	x	0.1926 cf/ft	with	0 % excess	=	262.9 cf
3,635 ft	x	0.1733 cf/ft	with	209 % excess	=	1943.2 cf
1,800 ft	x	0.1733 cf/ft	with	86 % excess	=	579.0 cf
80 ft	x	0.1305 cf/ft	with	0 % excess	=	10.4 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	2795.5 cf
					=	498 bbls

Operator Name: Apache Corporation
Well Name: NEDU Package
Job Description: 5 1/2" Production Casing
Date: March 11, 1999

Proposal No: 128850946F

FLUID SPECIFICATIONS

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	2206	/	2.54	= 870 sacks (35:65) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 8% bwoc Bentonite + 141.8% Fresh Water
Tail Slurry	589	/	1.3	= 455 sacks (50:50) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 2% bwoc Bentonite + 58.5% Fresh Water
Displacement				156.2 bbls Fresh Water @ 8.34 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	11.80	14.20
Slurry Yield (cf/sack)	2.54	1.30
Amount of Mix Water (gps)	14.80	5.90
Amount of Mix Fluid (gps)	14.80	5.90
Estimated Pumping Time - 70 BC (HH:MM)	3:30	3:30
Free Water (mls) @ 114 ° F @ 45 ° angle	1.0	0.8
Fluid Loss (cc/30min) at 1000 psi and 114 ° F	750.0	850.0
COMPRESSIVE STRENGTH		
12 hrs @ 114 ° F (psi)	200	800
24 hrs @ 114 ° F (psi)	350	1500
72 hrs @ 114 ° F (psi)	500	2000

PRODUCT DESCRIPTIONS

Bentonite
Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

Calcium Chloride
A powdered, flaked or pelletized material used to decrease thickening time and increase the rate of strength development.

Cello Flake
Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

Class C Cement
Intended for use from surface to 6000 ft., and for conditions requiring high early strength and/or sulfate resistance.

FP-6L
A clear liquid that decreases foaming in slurries during mixing.

Poz (Fly Ash)
A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.

Sodium Chloride
At low concentrations, it is used an accelerator for cement slurries. At high concentrations, it is used for formation compatiablity.

Static Free
An anti-static additive for resin coated proppants used to prevent air entrainment due to aggiomerated particles.

EXHIBIT "B"
NEDU #415

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

I. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H_2S).
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H_2S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H_2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H_2S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

II. H_2S Safety Equipment and Systems

Note: All H_2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating, the first zone containing, or reasonably expected to contain, H_2S.

1. Well Control Equipment:
   - A. Flare line with electronic igniter or continuous pilot.
   - B. Choke manifold with a minimum of one remote choke.
   - C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
   - D. Auxiliary equipment to include annular preventer, mud-gas separator, rotating head, and flare gun with flares.
2. Protective equipment for essential personnel:
   - A. Mark II Surviveair 30-minute units located in the dog house and at briefing areas.

3. H_2S detection and monitoring equipment:
   A. Two portable H_2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H_2S levels of 20 ppm are reached.
   B. One portable S02 monitor positioned near flare line.
4. Visual warning systems:
   A. Wind direction indicators.
   B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate.
5. Mud program:
   A. The mud program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H_2S scavengers will minimize hazards when penetrating H_2S-bearing zones.
   B. A mud-gas separator and an H_2S gas buster will be utilized.
6. Metallurgy:
   A. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H_2S service.
   B. All elastomers used for packing and seals shall be H_2S trim.
7. Communication:
   A. Radio communications in company vehicles including cellular telephone and 2-way radio.
   B. Land Line (telephone) communications at field office.
8. Well testing:
   A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing will be conducted during daylight hours, and formation fluids will not be flowed to the surface. All drill stem testing operations conducted in an H_2S environment will use the closed chamber method of testing.

EXHIBIT "C"

SURFACE USE AND OPERATIONS PLAN

CULTURAL RESOURCES SURVEY

APPROXIMATE REHABILITATION SCHEDULE

LOCALITY: NEDU #415

LOCATION: NE¼NW¼ OF SECTION 10, T21S-R37E, N.M.P.M.
LEA COUNTY, NEW MEXICO

OPERATOR: APACHE CORPORATION

SUBMITTED TO:

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

ROSWELL DISTRICT OFFICE

2909 WEST 2ND STREET

ROSWELL, NEW MEXICO 88201

TELEPHONE (505) 627-0272

This plan is submitted to provide permitting agencies with information necessary to allow an appraisal of the environmental effects associated with the proposed drilling operations. Within the context of typical drilling operations, this plan provides for protection of surface resources and other environmental components. This plan has been developed in conformity with the United States Geological Survey NTL-6 guidelines, Bureau of Land Management Oil and Gas Order No. 1, and in connection and consultation with the private surface owner of record, if other than the United States of America, as well as the Roswell District Office for the Bureau of Land Management and the United States Department of the Interior personnel.

PART #1:

1) Surface Location:
NE¼NW¼ of Section 10, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1208' FNL & 1745' FWL, Unit C
See attached Exhibits "D" and "E"

2) Bottom Hole Location:
NE¼NW¼ of Section 10, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1208' FNL & 1745' FWL, Unit C
See attached Exhibits "D" and "E"

3) Leases Issued: NM-2512

4) Record Lessee:
Conoco, Inc. 25%
Amoco Production Company 25%
Atlantic Richfield Company 25%
Chevron U.S.A. Inc. 25%

5) Acres in Lease:
Section 3: Lots 1, 2, 3, 4, 7, 8, 12, 15, 16,
N½SE¼, SE¼SE¼
Section 4: Lot 1
Section 10: E½NW¼, NW¼NE¼, S½NE¼
Total Acres: 708.67

6) Acres Dedicated to Well:
There are 40.0000 acres dedicated to this well which takes the NE¼NW¼ of Section 10, Township 21 South, Range 37 East, N.M.P.M., Lea County, New Mexico.

PART #2:

1) Existing Roads:

Exhibit "E" comprises 2 maps showing the proposed well site in relation to existing roads and State Highway 18 (Loop). The well is ±4 miles North of Eunice, New Mexico. From Eunice, go north approximately 4.25 miles on State Highway Loop 18. Turn east on existing lease road and go approximately 150' to location. Access is highlighted on Exhibit "E-2".

2) Planned Access:

A. Length and Width: No new access road will be necessary as the existing lease/access road crosses the well site.

Application for a buried pipeline will be made if it becomes necessary.

B. Construction: The existing roads will be lightly graded and topped with compacted caliche as needed.
C. Turnouts: None required.
D. Culverts: None required.
E. Cuts and Fills: As needed.
F. Gates and Cattleguards: None required.

3) Location of Existing Wells:

Exhibit "F" shows existing wells within a 1-mile radius of the proposed well.

4) Location of Existing and/or Proposed Facilities:

A. There are production facilities within the area of the Northeast Drinkard Unit.
B. If the oil well proves to be commercial, any necessary production facilities will be installed on the drilling pad, and flow lines will be installed along the proposed and existing roads to the production facilities and storage tanks.

5) Location and Type of Water Supply:

Apache Corporation plans to drill the proposed well with fresh and brine water which will be obtained from commercial sources. The water will be transported over proposed and existing access roads.

6) Source of Construction Materials:

Caliche for surfacing access roads and the wellsite pad will be obtained from the location itself or from BLM pits in the area.

7) Method of Handling Waste Material:

A. Drill cuttings will be disposed of in the reserve pits.
B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
C. All pits will be fenced with normal fencing materials to prevent livestock from entering the area.
D. Water produced during operations will be collected in tanks until hauled to an approved disposal system.
E. Oil produced during operation will be stored in tanks until sold.

F. Apache Corporation will comply with current laws and regulations pertaining to the disposal of human waste.
G. All waste materials will be contained to prevent scattering by the wind and will be removed from the well site within 30 days after drilling and/or completion operations are finished.

8) Ancillary Facilities: None planned.

9) Well Site Layout:
A. Exhibit "G" shows the relative location and dimensions of the well pad, reserve pits, and major rig components. The pad and pit area have been staked and flagged.
B. Mat Size: 125' x 235' including reserve pits as shown on Exhibit "G".
C. Cut & Fill: Only minor leveling of the drilling site is anticipated.
D. The surface will be topped with compacted caliche and the reserve pits will be plastic lined.

10) Plans for Restoration of the Surface:
A. After completion of drilling and/or completion operations, all equipment and other material, not needed for operations, will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the well site in as aesthetically pleasing a condition as possible.
B. Any unguarded pits containing fluids will be fenced until they are filled.
C. If the proposed well is non-productive, Apache Corporation will comply with all rehabilitation and/or vegetation requirements of the Bureau of Land Management, and such rehabilitation will be accomplished as expeditiously as possible. All pits will be filled and leveled within 90 days after abandonment.

11) Other Information:
A. Topography: The wellsite and access road are located in the Querecho Plains and are relatively flat.
B. Soil: The proposed location, access road and production facilites consist of sandy soil. Slope in the proposed area ranges from zer (0) to five (5) degrees.
C. Flora and Fauna: Vegetation is one of a grassland environment and a scrub-grass, scrub disclimax community. The wildlife consists of rabbits, coyotes, rattlesnakes, lizards, dove, quail and other wildlife typical of the semi-arid desert land.
D. Ponds and Streams: There are no ponds, lakes, streams or feeder creeks in the immediate area.
E. Residences and Other Structures: There are no occupied residences or other structures on or near the proposed location.
F. Land Use: The land is used for grazing cattle.
G. Surface Ownership: The surface is owned by Robert McCasland, P. O. Box 206, Eunice, New Mexico 88231, 505-394-2553. A surface damage agreement is being negotiated for this tract.

H. Archaeological, Historical, and Other Cultural Sites:

Desert West Archaeological Services will be conducting an archaeological survey of the proposed NEDU #415 well which covers the drilling location, production facilities, and access road, including a corridor along said access road for power and flow lines. Their report will be filed under separate cover.

I. Operator's Representative:

Dennis Bickford
Apache Corporation
2000 Post Oak Blvd., Suite 100
Houston, Texas 77056
(713) 296-7121
FAX: (713) 296-7207

CERTIFICATION

I hereby certify that Apache Corporation has inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Apache Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Bonita L. L. Jones, RLP, Consulting Landman
J. O. Easley, Inc., Agent for Apache Corporation
P. O. Box 2691
Roswell, New Mexico 88202-2691
(505) 625-8807 FAX (505) 625-8827

Date: 7-10-99

EXHIBIT "D-1"

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

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

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	Pool Code	Pool Name
30-25-	22900	Eunice; Blinebry-Tubb--Drinkard

Property Code	Property Name	Well Number
22503	NEDU	415

OGRID No.	Operator Name	Elevation
873	APACHE CORPORATION	3454'

Surface Location

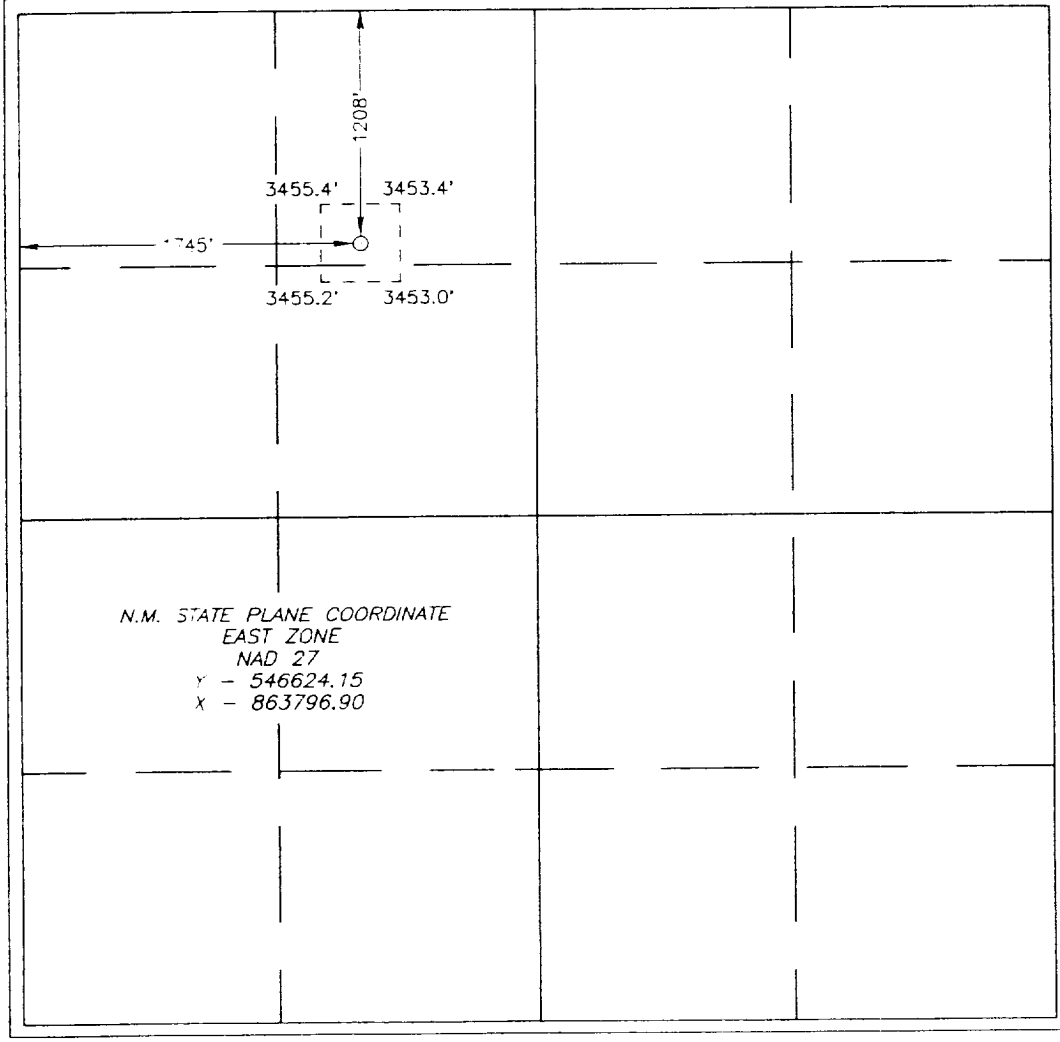
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	21 S	37 E		1208	NORTH	1745	WEST	LEA

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	Joint or Infill	Consolidation Code	Order No.
40			

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

Everett Guzts
Printed Name

Eng. Tech.
Title

6/28/99
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 supervison, and that the same is true and correct to the best of my belief.

JUNE 14, 1999
Date Surveyed KJG

Signature & Seal of Professional Surveyor
12641

GARY L. EIDSON
NEW MEXICO
REGISTERED PROFESSIONAL SURVEYOR

6/28/99

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

EXHIBIT "D-2"

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

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

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	Pool Code	Pool Name
30-25-3466/	22900	Eunice; Blinebry-Tubb-Drinkard, North

Property Code	Property Name	Well Number
22503	NEDU	415

OGRID No.	Operator Name	Elevation
873	APACHE CORPORATION	3454'

Surface Location

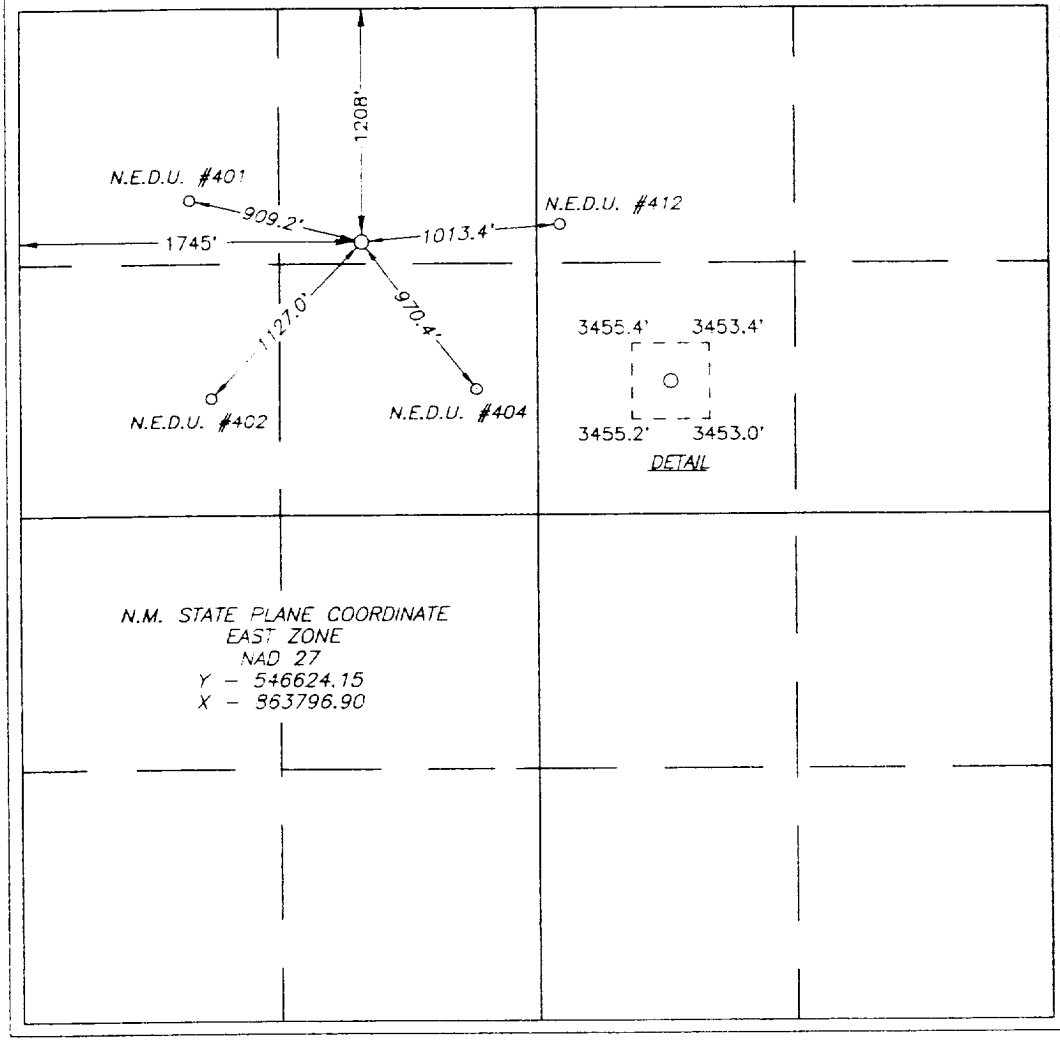
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	10	21 S	37 E		1208	NORTH	1745	WEST	LEA

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	Joint or Infill	Consolidation Code	Order No.
40			

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.

Everett Ouzts

Signature

Everett Ouzts

Printed Name

Eng. Tech.

Title

6/28/99

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 supervison, and that the same is true and correct to the best of my belief.

JUNE 10, 1999

Date Surveyed

Signature & Seal of Professional Surveyor

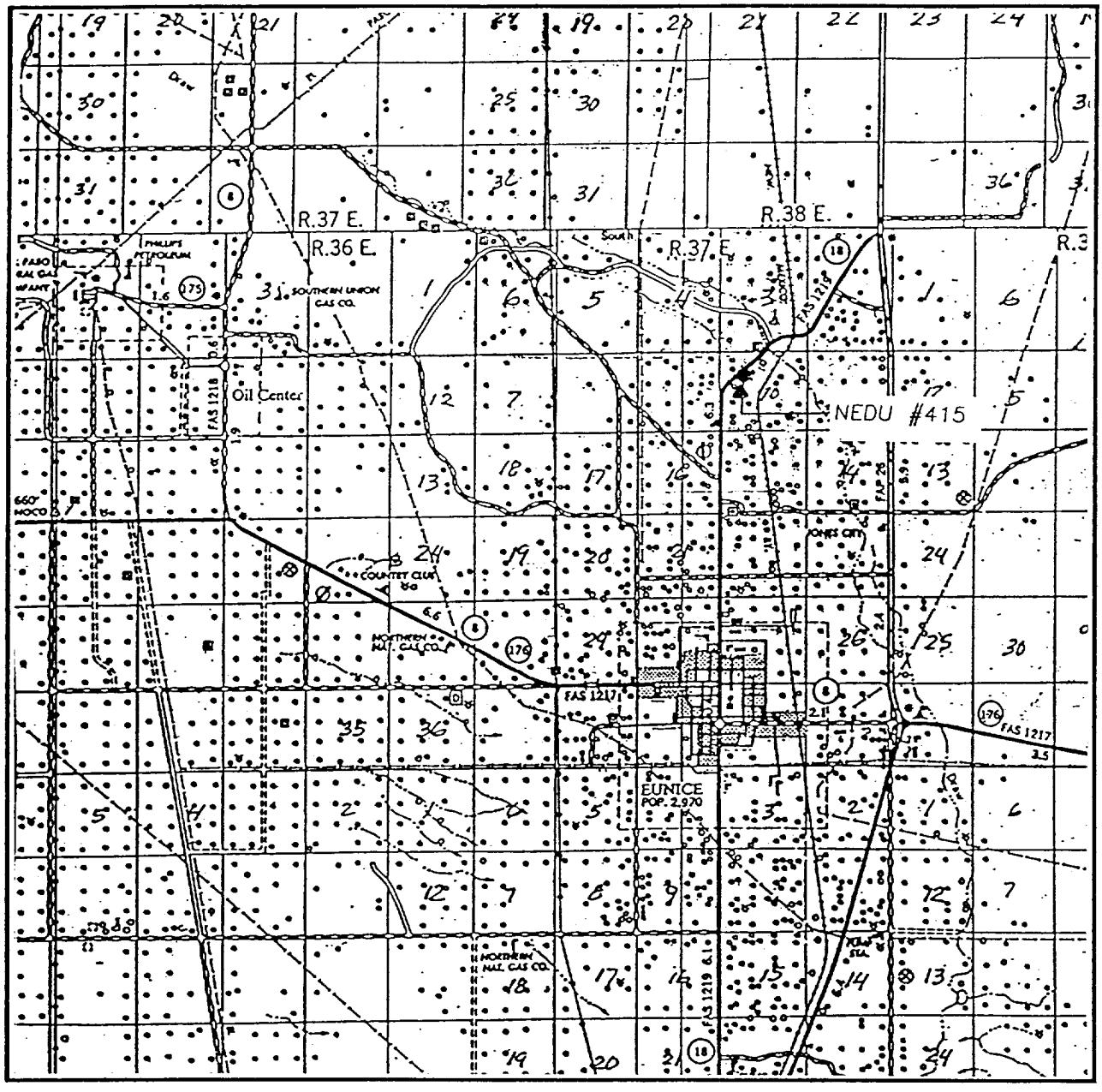
RONALD J. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

6/25/99

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641

EXHIBIT "E-1"
NEDU #415

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 10 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1208' FNL & 1745' FWL

ELEVATION 3442'

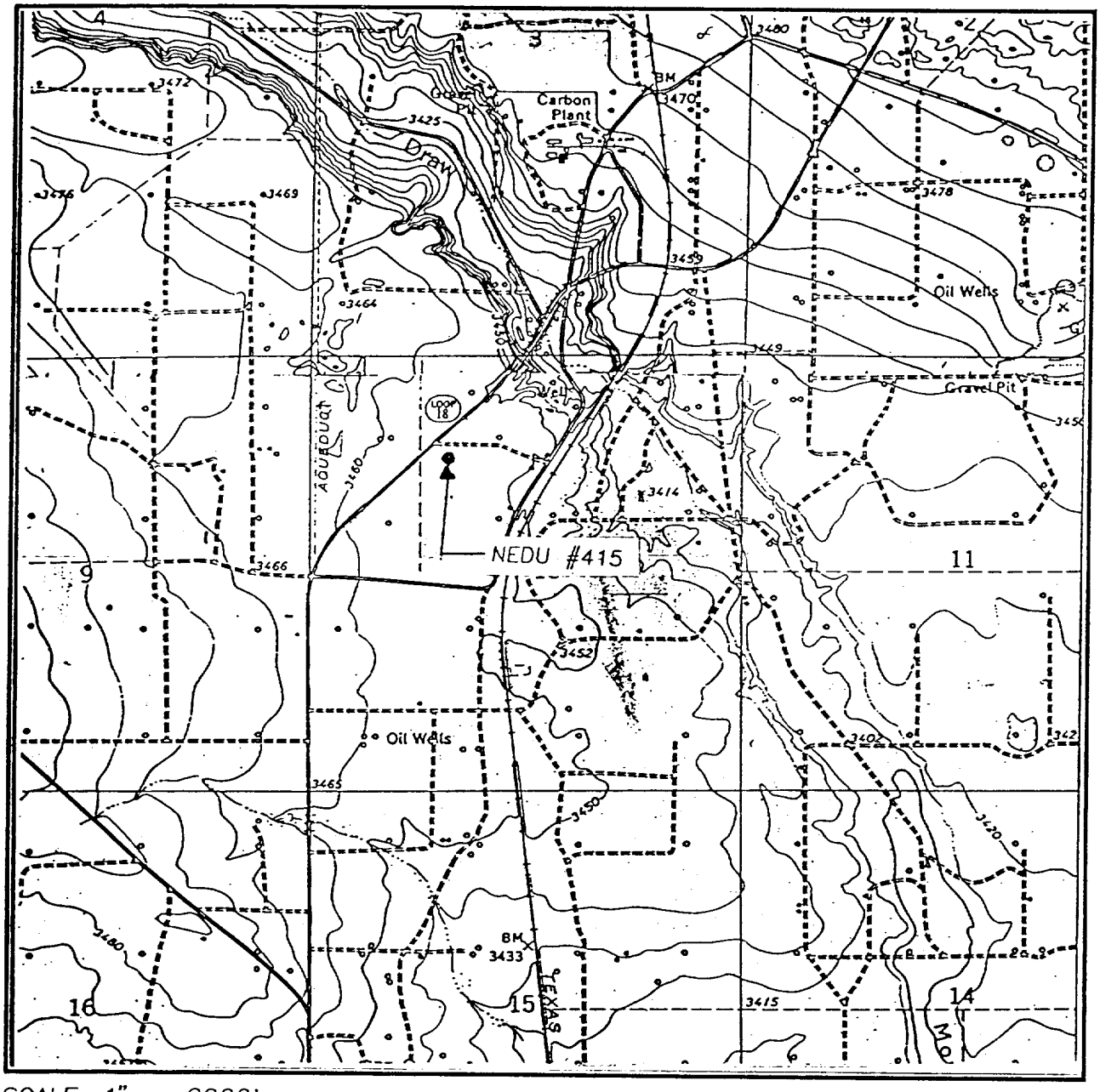
OPERATOR APACHE CORPORATION

LEASE N.E.D.U.

JOHN WEST SURVEYING CO.
HOBBS, NEW MEXICO
(505) 393-3117

EXHIBIT "E-2"
NEDU #415

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOBBS SW – 5'
EUNICE – 10'

SEC. 10 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1208' FNL & 1745' FWL

ELEVATION 3454'

OPERATOR APACHE CORPORATION

LEASE N.E.D.U.

U.S.G.S. TOPOGRAPHIC MAP
HOBBS SW, EUNICE, N.M.

JOHN WEST SURVEYING CO.
HOBBS, NEW MEXICO
(505) 393-3117

EXHIBIT "F"
NEDU #415

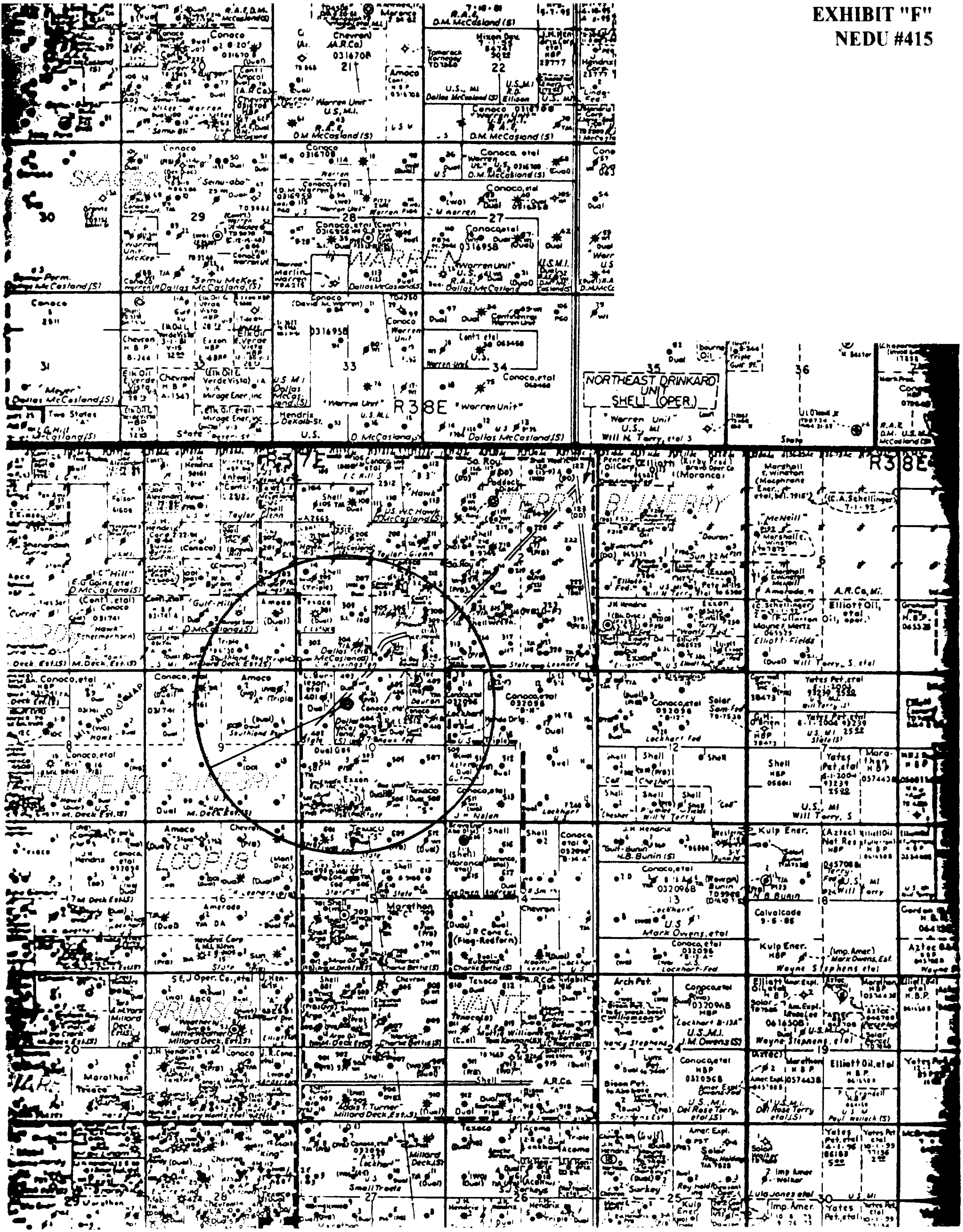


EXHIBIT "G"
NEDU #415

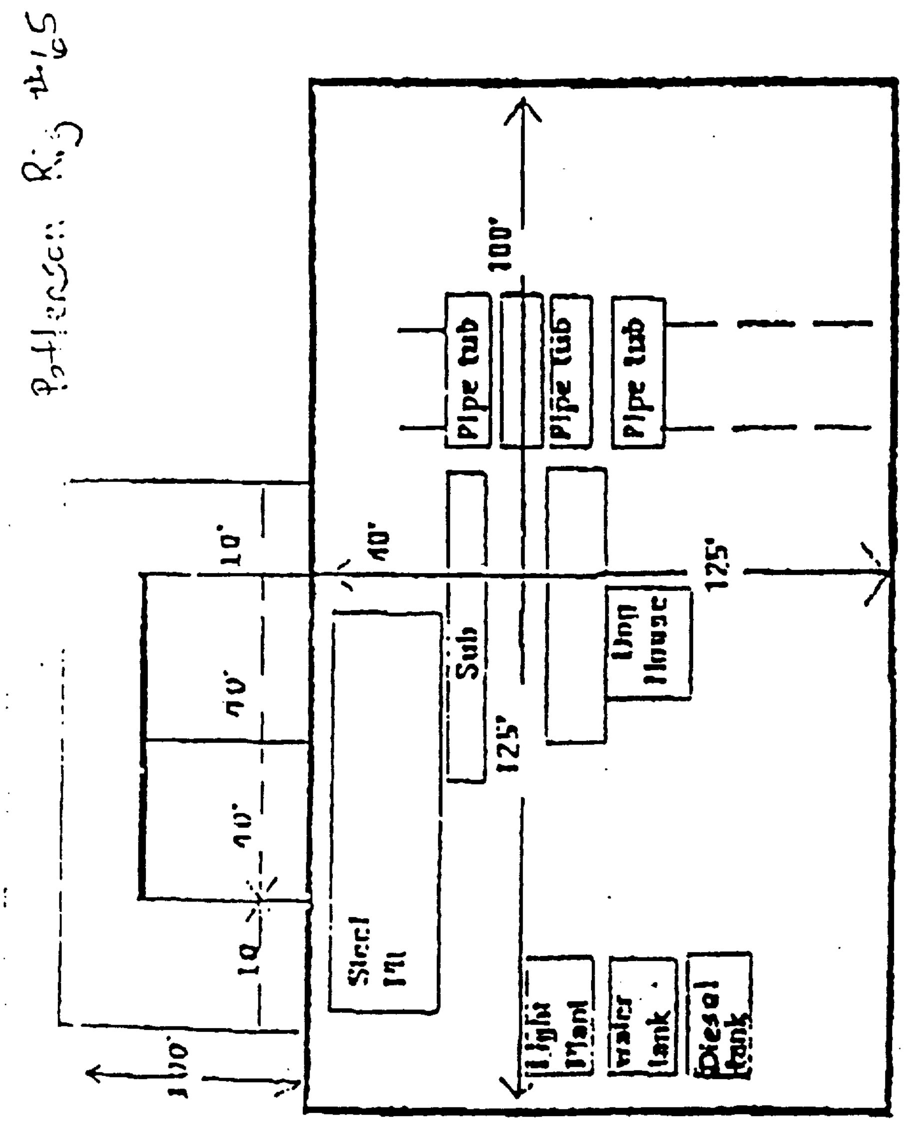


EXHIBIT "H"
NEDU #415

Apache Corporation
WESTERN REGION

NEDU

Eunice; Blinebry-Tubb-Drinkard, North
LEA COUNTY, NEW MEXICO

	Cassie Glad	4/22/98

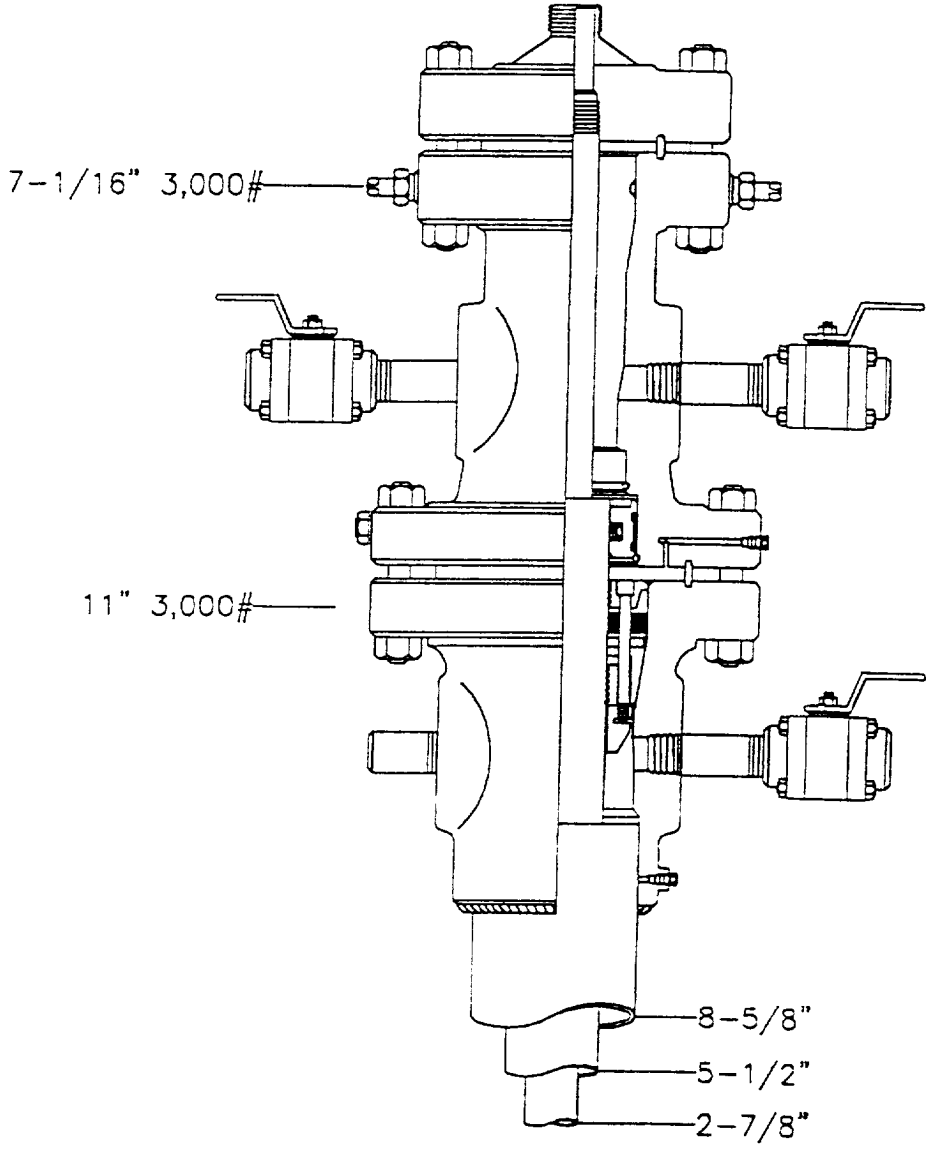
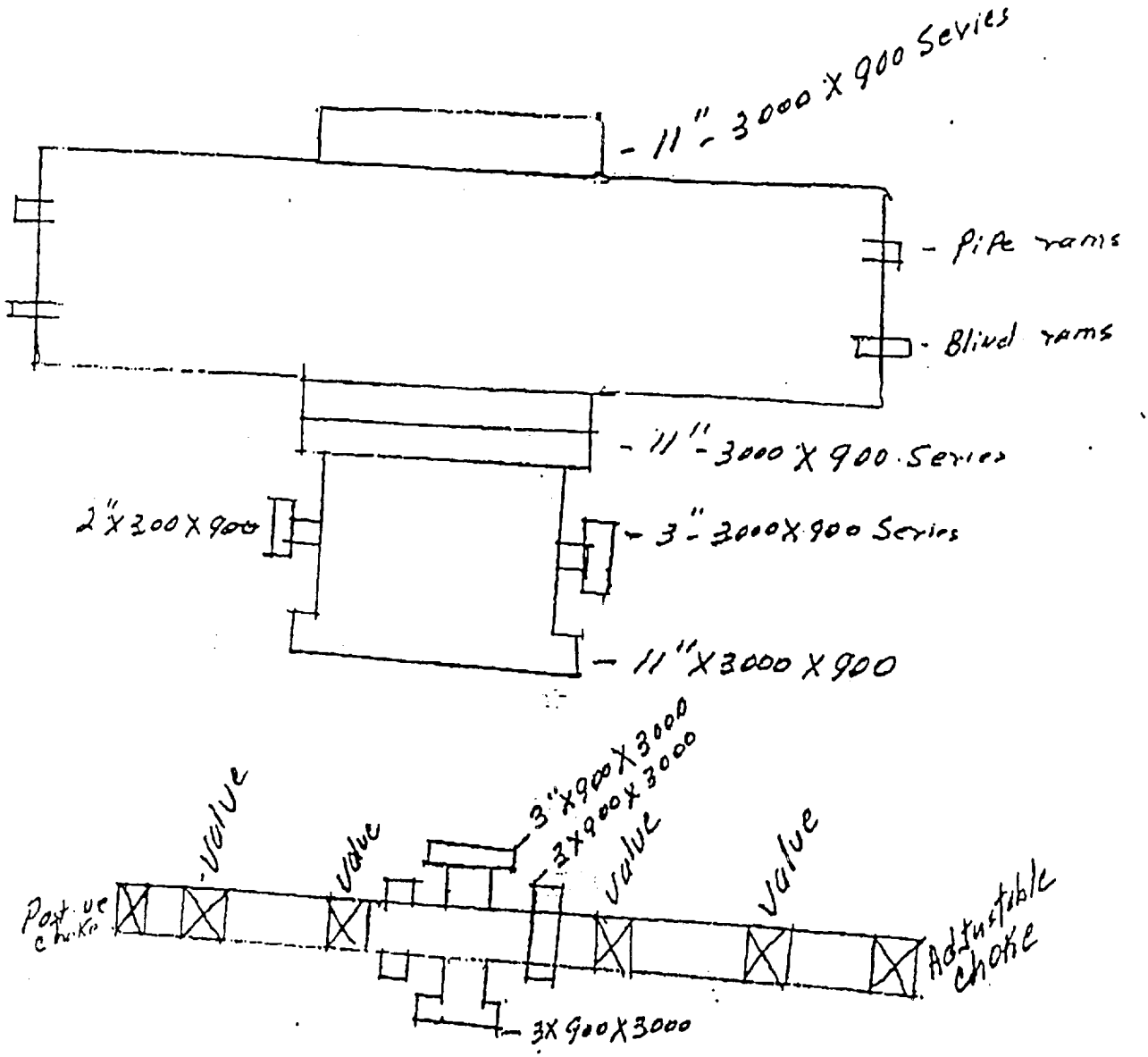


EXHIBIT "H"
NEDU #415

PATTERSON DRILLING COMPANY



All flanges &
Valves - 2" - 3000 - 900 Series
Mud Cross - 3" 3000 X 900 Series