Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: NM-2512

6. If Indian, Allottee or Tribe Name: N/A

1a. Type of Work: ■ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.: Northeast Drinkard Unit

1b. Type of Well: ■ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.: #129

2. Name of Operator: Apache Corporation

9. API Well No.: 30-025-34938

3a. Address: c/o J. O. Easley, Inc., P. O. Box 2693, Roswell, NM 88211-0245

3b. Phone No. (include area code): (505) 625-8807

10. Field and Pool, or Exploratory: Eunice-Blinebry-Tubb-Drinkard North

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: 1100' FNL, 1270' FWL, Lot 4
At proposed prod. zone: 1100' FNL, 1270' FWL, Lot 4 D

11. Sec., T., R., M., or Blk. and Survey or Area: 3, T21S-R37E, NMPM

14. Distance in miles and direction from nearest town or post office*

12. County or Parish: Lea

13. State: NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of Acres in lease	17. Spacing Unit dedicated to this well
1,100'	708.67	40.00
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	**19. Proposed Depth**	**20. BLM/BIA Bond No. on file**
753'	7,000'	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	**22. Approximate date work will start***	**23. Estimated duration**
3,483'	ASAP	16 days drilling; 20 days completion

24. Attachments CAPITAN CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
Bonita L. Limpus Jones	Bonita L. Limpus Jones	12-22-99

Title: Consulting Landman for J. O. Easley, Inc., Agent for Apache Corporation

Approved by (Signature)	Name (Printed/Typed)	Date
/S/LARRY D. BRAY		
Title	**Office**	
Assistant Field Manager, Lands And Minerals		

Application approval does not warrant or certify the 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, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

*(Instructions on reverse)

GWW

OPER. OGRID NO. 873
PROP. POOL NO. 22503
POOL CODE 22900
EFF. DATE 2-21-00
API NO. 30-025-34938

1

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

EXHIBIT "A"
NEDU #129

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	7,000'	-3324'

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 ST&C	24#	1300' or 50' nto Anhydrite Formation
7 7/8"	5 ½"	K-55 LT&C	17#	7,000'

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.

Operator Name: Apache Corporati
Well Name: NEDU Package (3[illegible] Wells)
Job Description: 8 5/8" Surface Casing
Date: October 14, 1999

Proposal No: 128864998A

JOB AT A GLANCE

Depth (TVD)	~~1,300 ft~~ OR 50 Ft above Anticipated Top of Salt
Depth (MD)	1,300 ft
Hole Size	12.25 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	5,731 gals
Lead Slurry	
Class C + Additives	~~400 sacks~~
Density	12.8 ppg
Yield	2.06 cf/sack
Tail Slurry	
Class C + additives	~~185 sacks~~
Density	14.8 ppg
Yield	1.34 cf/sack
Displacement	
Fresh Water	80 bbls
Density	8.3 ppg

Operator Name: Apache Corporatio
Well Name: NEDU Package (3 Wells)
Job Description: 8 5/8" Surface Casing
Date: October 14, 1999

Proposal No: 128864998A

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
15.376 CASING	40	40
12.250 HOLE	1,300	1,300

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
8.625	8.097	24	1,300	1,300

Float Collar set @	1,260 ft
Mud Density	8.40 ppg
Mud Type	Water Based
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
976 ft	x	0.4127 cf/ft	with	95 % excess	=	786.9 cf
284 ft	x	0.4127 cf/ft	with	100 % excess	=	234.5 cf
40 ft	x	0.3576 cf/ft	with	0 % excess	=	14.3 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	1071.0 cf
					=	191 bbls

FLUID SPECIFICATIONS

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	822	/ 2.06	= [illegible] sacks Class C Cement + 2% bwow Calcium Chloride + 0.25 lbs/sack Cello Flake + 0.005 gps FP-6L + 6% bwoc Bentonite + 101.1% Fresh Water
Tail Slurry	249	/ 1.34	= [illegible] sacks Class C Cement + 2% bwoc Calcium Chloride + 0.005 gps FP-6L + 56.3% Fresh Water
Displacement			80.2 bbls Fresh Water + 56.3% Fresh Water @ 8.34 ppg

CEMENT PROPERTIES

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	12.80	14.80
Slurry Yield (cf/sack)	2.06	1.34
Amount of Mix Water (gps)	11.39	6.35
Amount of Mix Fluid (gps)	11.39	6.35
Estimated Pumping Time - 70 BC (HH:MM)	3:30	2:20
Free Water (mls) @ 85 ° F @ 45 ° angle	1.0	0.0
Fluid Loss (cc/30min) at 1000 psi and 85 ° F	750.0	850.0
COMPRESSIVE STRENGTH		
12 hrs @ 85 ° F (psi)		1092
24 hrs @ 85 ° F (psi)		1789
72 hrs @ 85 ° F (psi)		3000
12 hrs @ 114 ° F (psi)	200	
24 hrs @ 114 ° F (psi)	350	
72 hrs @ 114 ° F (psi)	500	

Thickening time, compressive strength and fluid loss numbers quoted are approximate. Apache will be furnished lab reports with actual test results for each slurry. Standard lab testing will be performed for each slurry. Field blend testing will be performed on all slurries with fluid loss or special additives to confirm the thickening times, fluid loss and fluid rheologies.

JOB AT A GLANCE

Depth (TVD)	7,000'
Depth (MD)	6,800 ft
Hole Size	7.875 in
Casing Size/Weight :	5 1/2 in, 17 lbs/ft
Pump Via	Casing 5 1/2" O.D. (4.892" I.D) 17 #
Total Mix Water Required	9,165 gals
Spacer	
Mud Clean	20 bbls
Density	8.3 ppg
Lead Slurry	
35:65:8 (Poz:C:Gel) + Salt	477 sacks
Density	11.8 ppg
Yield	2.54 cf/sack
Tail Slurry	
50:50:2 (Poz:H:Gel) + F.L.	360 sacks
Density	14.2 ppg
Yield	1.30 cf/sack
Displacement	
Fresh Water	156 bbls
Density	8.3 ppg

WELL DATA

ANNULAR GEOMETRY

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	1,210	1,210
7.875 HOLE	~~8,800~~ 7,000'	6,800

SUSPENDED PIPES

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.892	17	~~8,800~~ 7000'	6,800

Float Collar set @	6,720 ft
Mud Density	10.00 ppg
Mud Type	Water Based
Est. Static Temp.	124 ° F
Est. Circ. Temp.	115 ° F

VOLUME CALCULATIONS

1,210 ft	x	0.1926 cf/ft	with	0 % excess	=	233.0 cf
3,790 ft	x	0.1733 cf/ft	with	49 % excess	=	976.5 cf
1,800 ft	x	0.1733 cf/ft	with	47 % excess	=	457.5 cf
80 ft	x	0.1305 cf/ft	with	0 % excess	=	10.4 cf (inside pipe)
				TOTAL SLURRY VOLUME	=	1677.4 cf
					=	299 bbls

FLUID SPECIFICATIONS

Spacer — 20.0 bbls Mud Clean II @ 8.34 ppg

FLUID	VOLUME CU-FT		VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	1210	/	2.54	= 477 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	468	/	1.3	= 360 sacks (50:50) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.25 lbs/sack Cello Flake + 1% bwoc FL-25 + 0.005 gps FP-6L + 2% bwoc Bentonite + 58.1% Fresh Water
Displacement				156.2 bbls Fresh Water + 58.1% 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	5.85
Amount of Mix Fluid (gps)	14.80	5.86
Estimated Pumping Time - 70 BC (HH:MM)	3:30	4:00
Free Water (mls) @ 114 ° F @ 45 ° angle	1.0	0.0
Fluid Loss (cc/30min) at 1000 psi and 114 ° F	750.0	208.0
COMPRESSIVE STRENGTH		
12 hrs @ 114 ° F (psi)	200	800
24 hrs @ 114 ° F (psi)	350	1500
72 hrs @ 114 ° F (psi)	500	2000

All slurries will be tested prior to loading to confirm thickening times. Fluid loss will be tested and reported on slurries with fluid loss additives. Lab test report will be furnished prior to pumping cement. Thickening time, compressive strength and fluid loss numbers quoted are approximate. Apache will be furnished lab reports with actual field blend test results for each slurry.

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.

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.

Class H Cement
Class H cement is an API type, all purpose oil well cement which is used without modification in wells up to 8,000 ft. It possesses a moderate sulfate resistance. With the use of accelerators or retarders, it can be used in a wide range of well depths and temperatures.

FL-25
An all purpose salt-tolerant fluid loss additive that provides exceptional fluid loss control across a wide range of temperatures and salinity conditions and remedial cementing applications.

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

Mud Clean II
A water-base mud wash designed for use ahead of cement slurries to aid in mud and drilling debris removal and to prevent contamination of the cement slurry. It should be used only when water-base mud is used.

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.

EXHIBIT "B"
NEDU #129

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 #129

LOCATION: LOT 4 OF SECTION 3, 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:
Lot 4 of Section 3, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1100' FNL & 1270' FWL, Lot 4
See attached Exhibits "D" and "E"

2) Bottom Hole Location:
Lot 4 of Section 3, Township 21 South, Range 37 East, N.M.P.M.
Lea County, New Mexico
1100' FNL & 1270' FWL, Lot 4
See attached Exhibits "D" and "E"

3) Leases Issued: NM-2512

4) Record Lessee:
a) 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 in Lot 4 of Section 3, Township 21 South, Range 37 East, 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. The well is ±6 miles north of Eunice, New Mexico. From Eunice, go north approximately 5 miles on State Highway Loop 18. Turn north on old carbon plant road and follow existing lease roads approximately 4 miles to location. Access is highlighted on Exhibit "E-2".

2) Planned Access:

A. Length and Width: A 172' access road, 20' wide, will be constructed from the existing lease/access road around the well site. Extra width may be needed in the turns.
Application for a buried pipeline will be made if it becomes necessary.

B. Construction: The new road will be 20' wide with a center crown, with 6 inches compacted caliche. 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 #129 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: 12-22-99

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

Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

EXHIBIT "D-1"

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- 34938	22900	Eunice: Blinebry-Tubb-Drunkard, North

Property Code	Property Name	Well Number
22503	N.E.D.U. FED.	129

OGRID No.	Operator Name	Elevation
873	APACHE CORPORATION	3483

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 4	3	21 S	37 E		1100	NORTH	1270	WEST	LEA

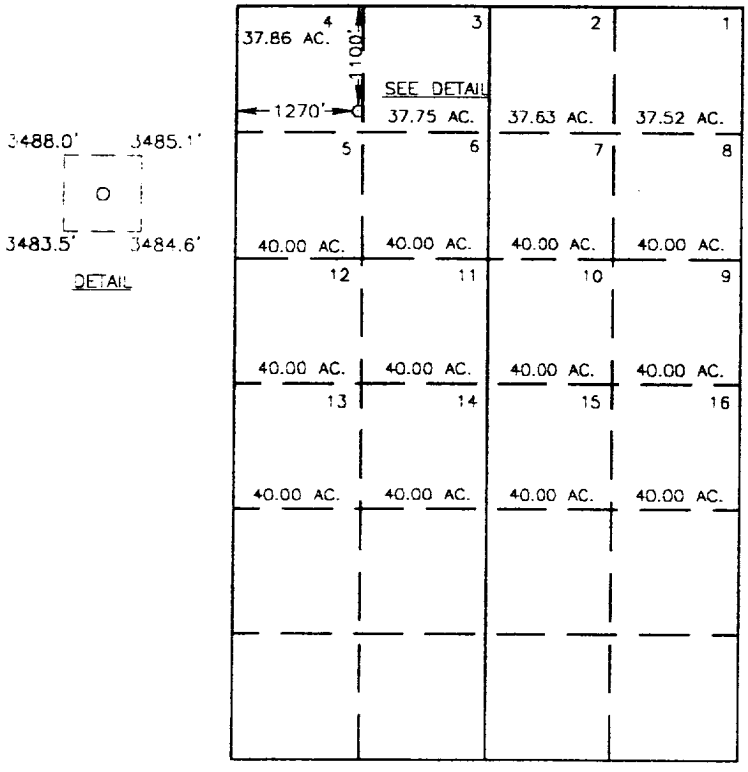
Bottom Hole Location If Different From Surface

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

NMSPC E2
NAD 27
554631.4 N
863349.5 E



OPERATOR CERTIFICATION

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

Signature

Bonita L. Limpus Jones
Printed Name

J. O. Easley, Inc.,
Agent for Apache Corporation
Title

12-22-99
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.

NOVEMBER 22-29, 1999
Date Surveyed DC

Signature & Seal of Professional Surveyor

12/7/99

99-11-0991

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641
MACON McDONALD 12185

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 Departmen

EXHIBIT "D-2"

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
30-025-34938	22900	Eunice: Blinebry-Tubb-Drunkard, North

Property Code	Property Name	Well Number
22503	N.E.D.U. FED.	129

OGRID No.	Operator Name	Elevation
873	APACHE CORPORATION	3483

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 4	3	21 S	37 E		1100	NORTH	1270	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			

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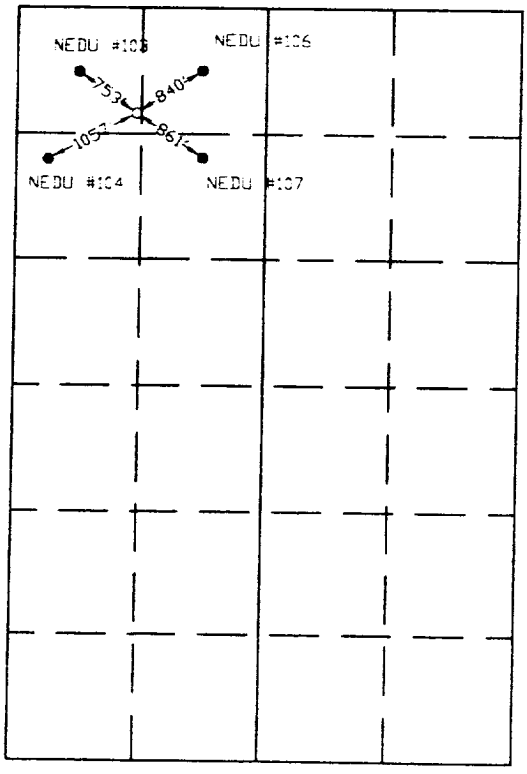
NMSPC E2
NAD 27
554631.4 N
863349.5 E



OPERATOR CERTIFICATION

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

Signature

Bonita L. Limpus Jones
Printed Name

J. O. Easley, Inc.,
Agent for Apache Corporation
Title

12-22-99
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.

NOVEMBER 22-29, 1999
Date Surveyed DC

Signature & Seal of Professional Surveyor

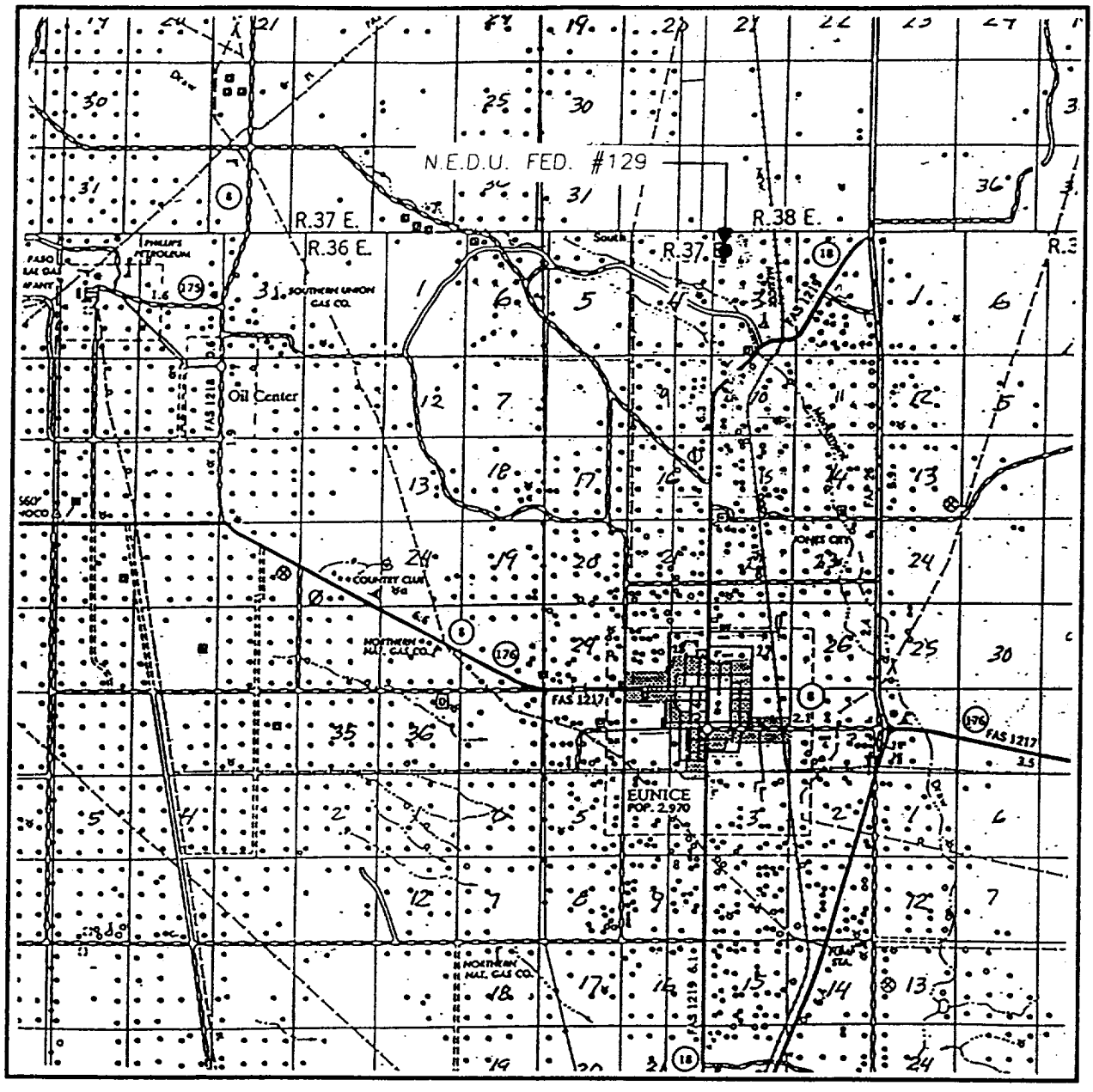
12/7/99

99-11-1099

Certificate No. RONALD J. EIDSON 3239
GARY EIDSON 12641
MACON McDONALD 12185

VICINITY MAP

EXHIBIT "E-1"
NEDU #129



SCALE: 1" = 2 MILES

SEC. 3 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1100' FNL & 1270' FWL

ELEVATION 3483

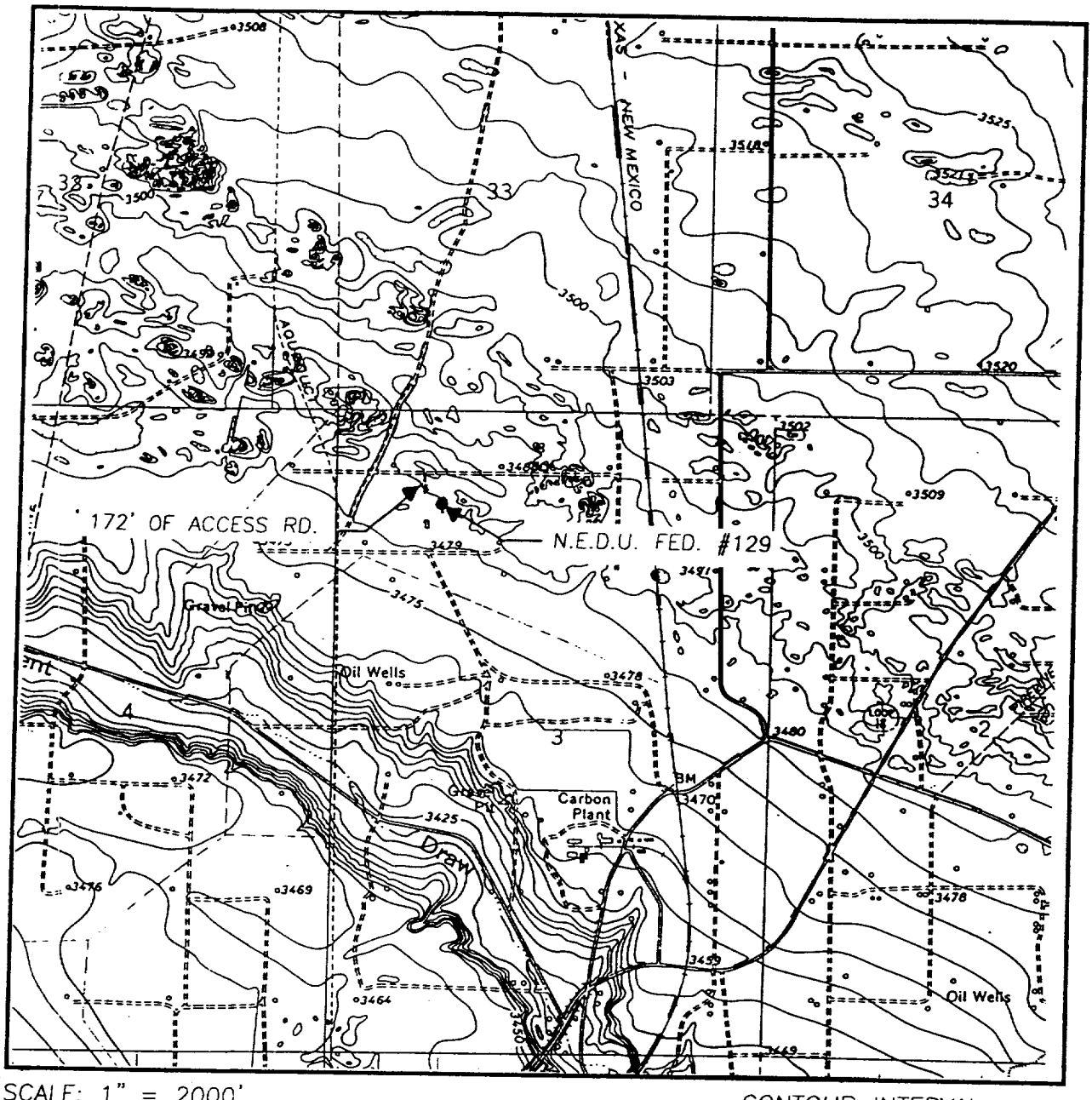
OPERATOR APACHE CORPORATION

LEASE N.E.D.U. FED.

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

LOCATION VERIFICATION MAP

EXHIBIT "E-2"
NEDU #129



SCALE: 1" = 2000'

CONTOUR INTERVAL:
HOBBS SW – 5'

SEC. 3 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1100' FNL & 1270' FWL

ELEVATION 3483

OPERATOR APACHE CORPORATION

LEASE N.E.D.U. FED.

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

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

EXHIBIT "F"
NEDU #129

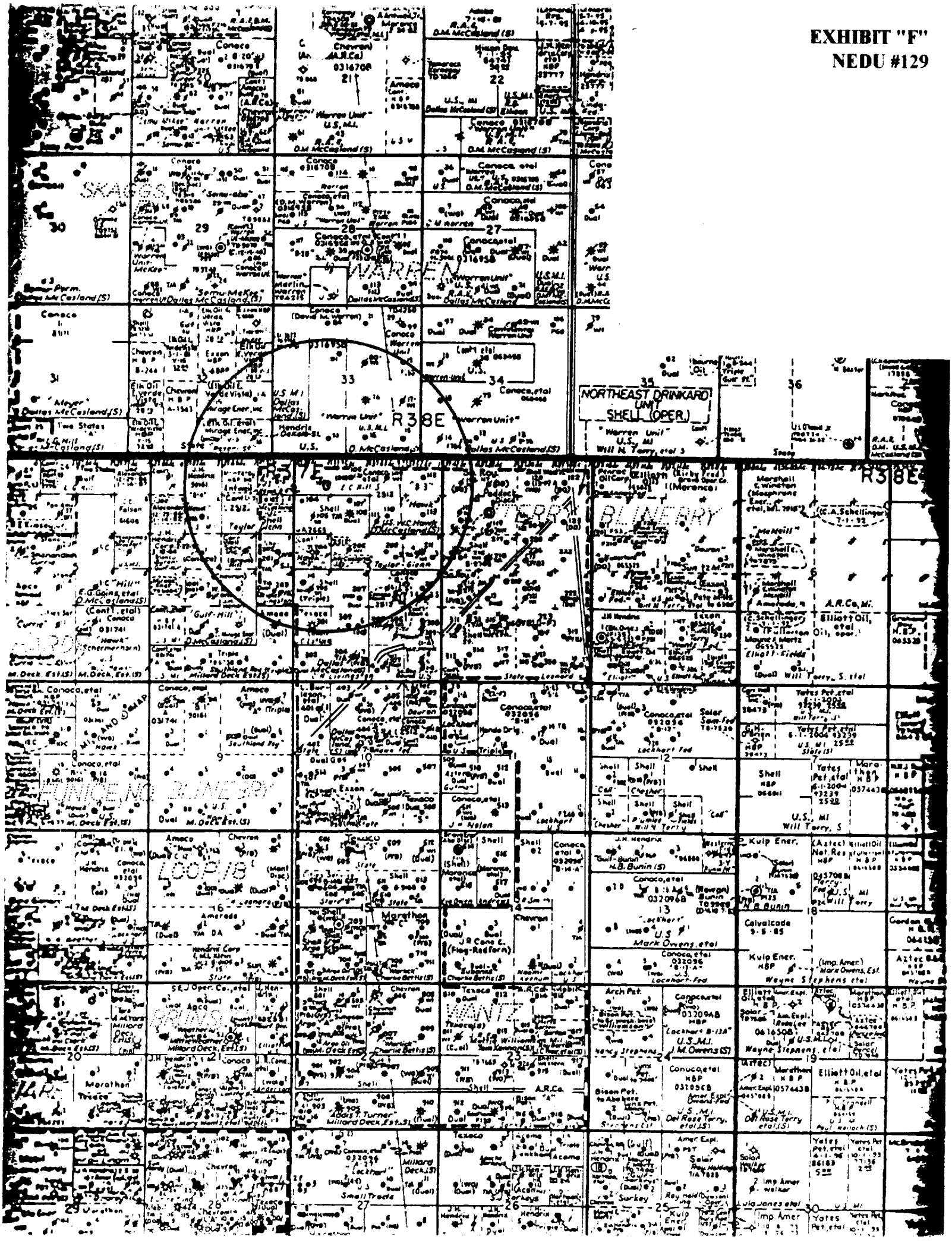
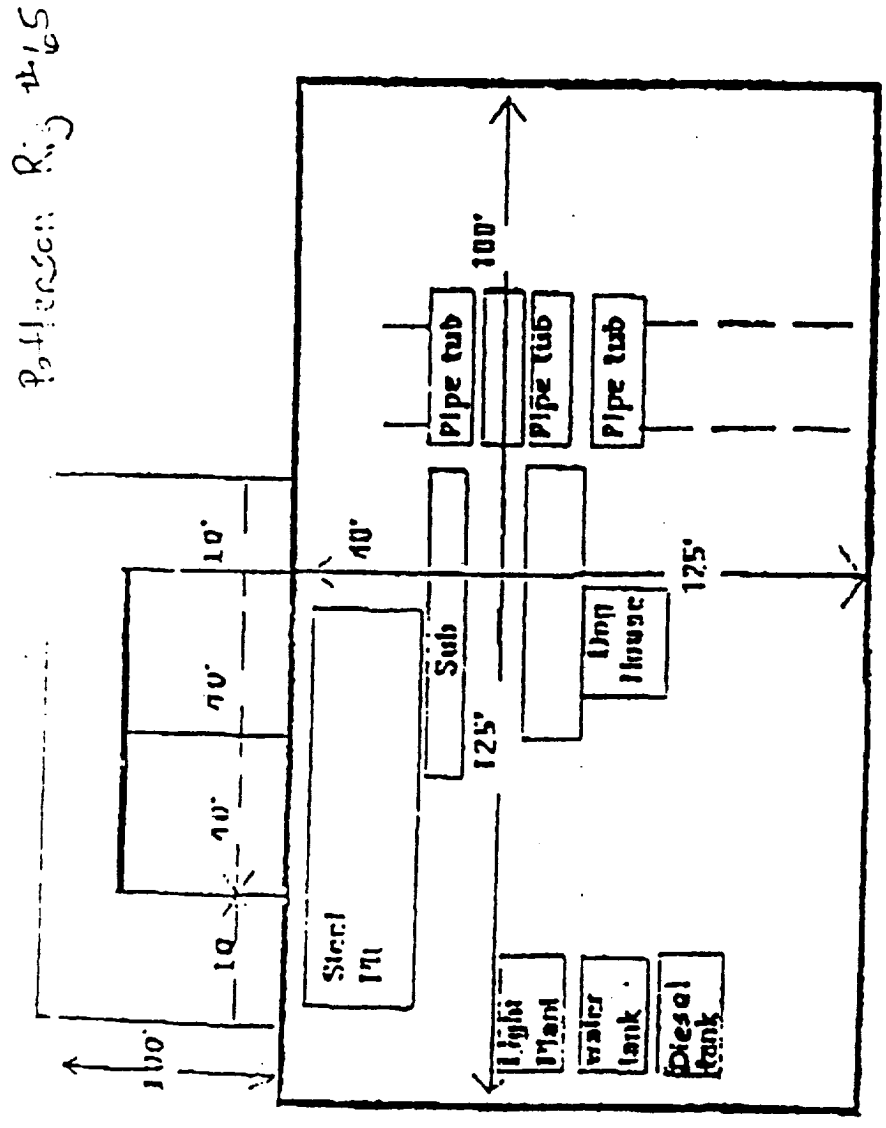
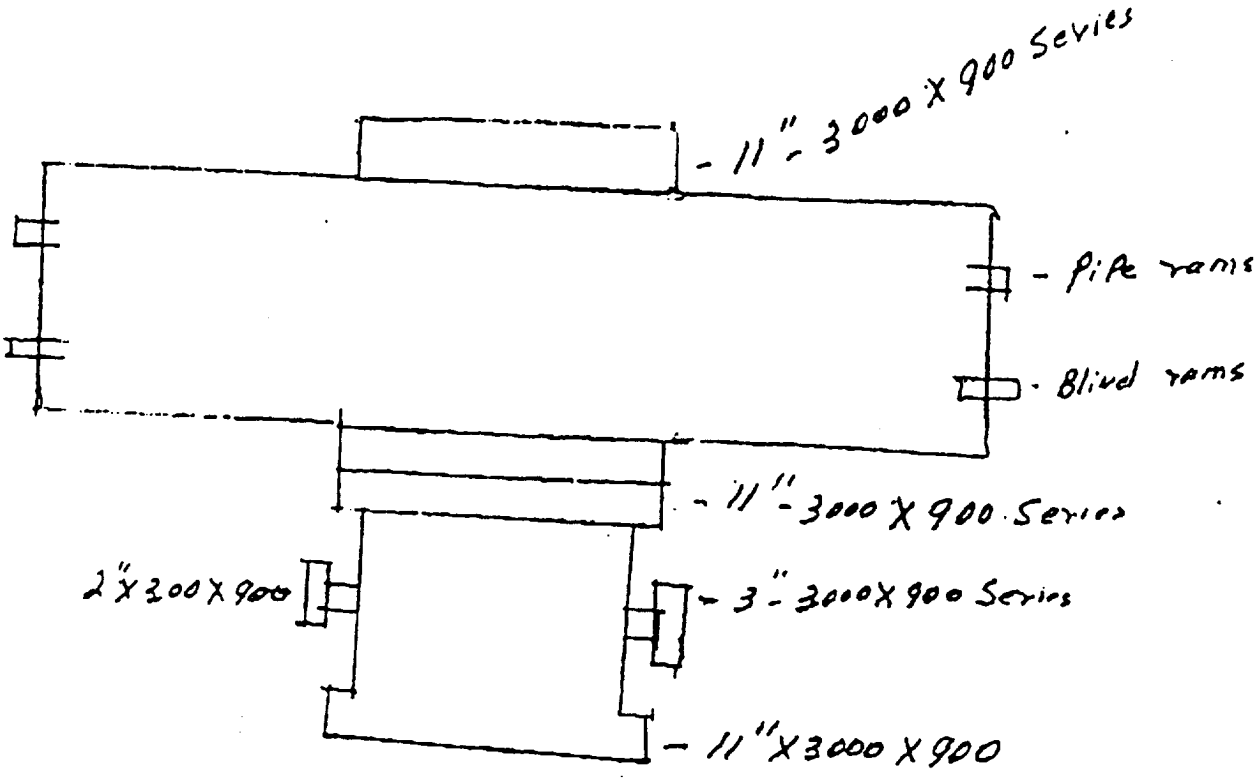
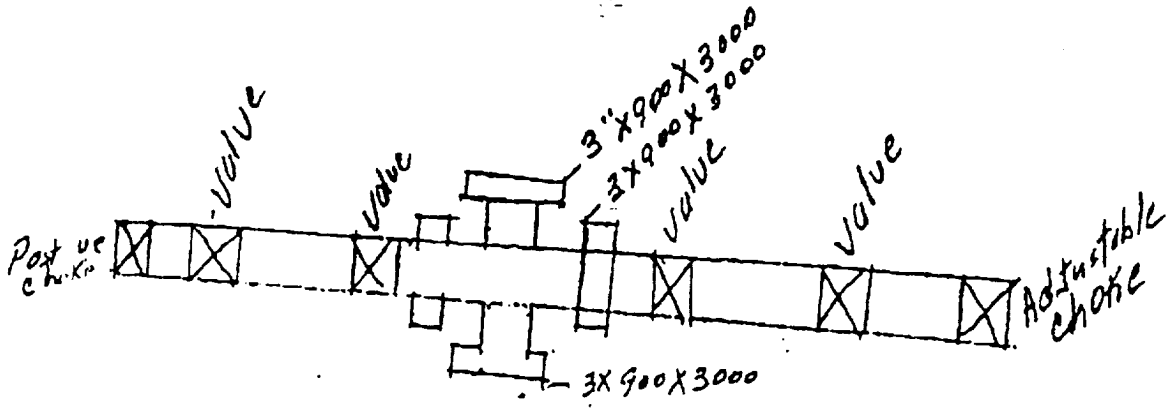


EXHIBIT "G"
NEDU #129



PATTERSON DRILLING COMPANY





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

ELF 9/19/00

ABOVE DATE DOES NOT
INDICATE WHEN
CONFIDENTIAL LOGS
WILL BE RELEASED