

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

30-413-22496

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

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Amoco Federal

9. WELL NO.
1#-6

10. FIELD AND POOL, OR WILDCAT
East Loving Delaware

11. SEC. T. R. M. OR BLM. AND SURVEY OR AREA
Sec. 11, T-23-S, R-28-E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

20. ROTARY OR CABLE TOOL
Rotary

22. APPROX. DATE WORK WILL START
July 30, 1990

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER

1. NAME OF OPERATOR
RB Operating Company

2. ADDRESS OF OPERATOR
2412 N. Grandview, Suite 201, Odessa, Texas

3. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface: 1880 FEL, 860 FNL, Sec. 11, T-23-S, R-28-E, Eddy Co. ~~NEW MEXICO~~ MEXICO
At proposed prod. zone: Same

4. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE
2 miles northeast of Loving, New Mexico

5. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit loc. if any)
760' W. line of E/2

6. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
900'

7. NO. OF ACRES IN LEASE
320

8. PROPOSED DEPTH
6500'

9. ELEVATIONS (Show whether DF, RT, GR, etc.)
3036.7 3035.1

RECEIVED
OCT 2 '90

U.B. - NWNE

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	570' CIRCULATE	350 sacks
7-7/8"	5-1/2"	15.5 & 17#	6350' CIRCULATE	1670 sacks, DV tool @ 3350'

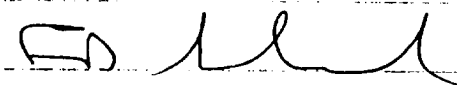
1. Drill 12-1/4" hole to 570', run 8-5/8" casing and cement with 350 sacks.
2. Test casing to 1500#, if successful drill out cement and test to 11 ppg equivalent.
3. Drill 7-7/8" hole to T.D.
4. Mud log from 2600' to T.D.
5. Electric log at T.D. to surface casing.
6. If commercial set 5-1/2" casing to T.D. Cement to surface with 1670 sacks.
7. Completion program will be submitted under Sundry notice.
8. If non-commercial, plug as per BLM and New Mexico Oil & Gas Commission specifications.

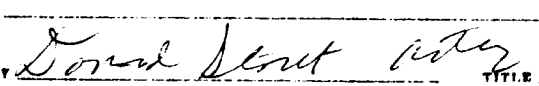
Post ID-1
10-19-90
New Loc + API

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED

RECEIVED
JUL 24 11 50 AM '90
CARRIZO AREA

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 block of present program, if any.

SIGNED:  TITLE: Area Manager DATE: 7/20/90

PERMIT NO. _____ APPROVAL DATE: _____
APPROVED BY:  TITLE: _____ DATE: 9-27-90

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1900, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

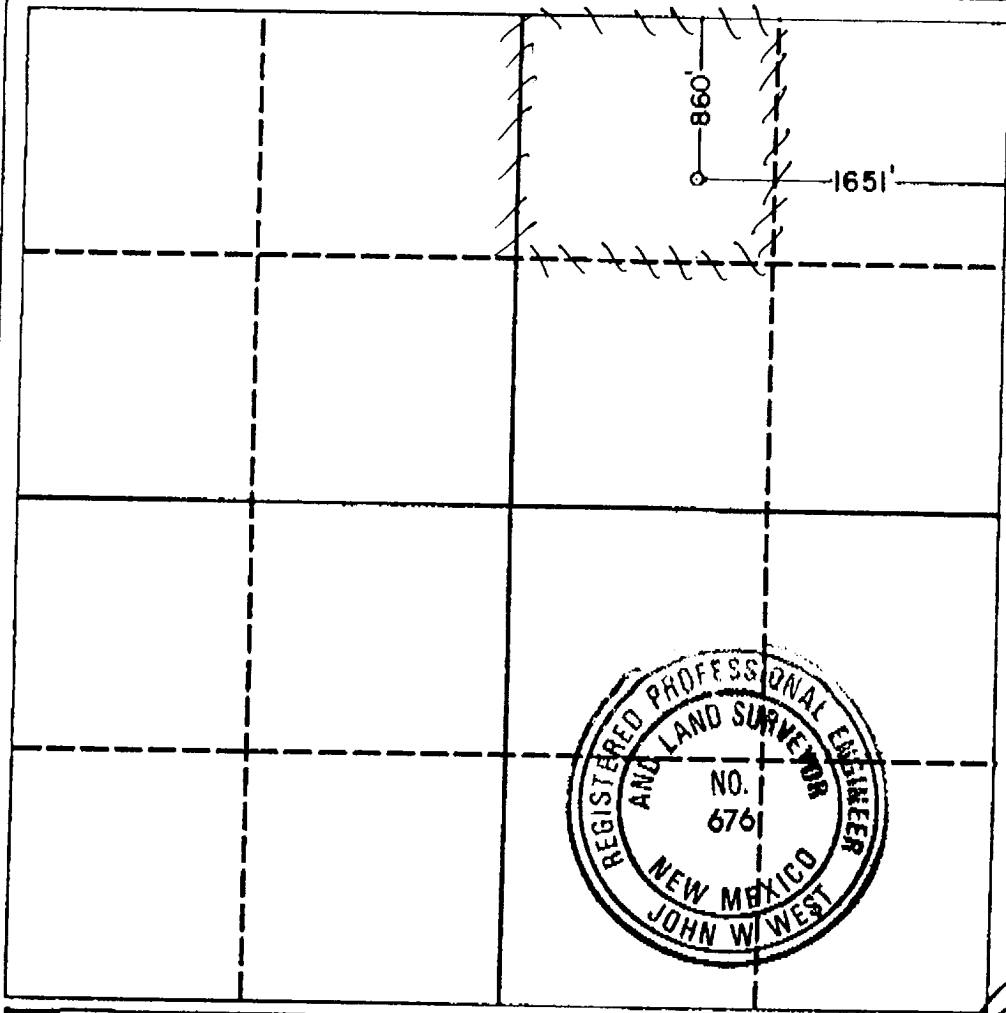
DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator R. B. OPERATING CO.			Lease Amoco Federal 11		Well No. 6
Unit Letter B	Section 11	Township 23 South	Range 28 East	County Eddy	
Actual Footage Location of Well: 860 feet from the North line and 1651 feet from the East line					
Ground level Elev. 3036.7	Producing Formation Delaware		Pool Loving, East	Dedicated Acreage: 40 Acres	

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



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

Signature: *James J. Shaw*
 Printed Name For: **FRITZ SCHOCH**
 Position: **OPERATIONS MANAGER**
 Company: **R&B OPERATING**
 Date: **9/27/90**

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

Date Surveyed: **September 26, 1990**

Signature & Seal of Professional Surveyor:
Ronald J. Eidson
 License No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239



DRILLING PROGRAM

WELL: RB Operating, Amoco Federal #11-6
FIELD: East Loving Delaware
CATEGORY: Development
STATE: New Mexico
COUNTY: Eddy
LOCATION: 860 FNL & 1880 FEL, Sec. 11, T-23-S,
R-28-E
ELEVATION (G.L.): 3035'

1. Estimated Formation Tops: (See Plat #1)

Salt	570'
Delaware	2590'
Cherry Canyon	3700'
Brushy Canyon	4750'
Bone Springs	6200'
Total Depth	6350'

There are no potential drilling problems.

Estimated Time to Drill and Evaluate: 10 days

Hole Size:

0' - 570' -----12 1/4"
570' - 6350'----- 7 7/8"

2. Estimated Depth at which Water, Oil or Gas are expected to be encountered:

Water:	160' to 180'	
Oil, Gas:	Delaware	2590'
	Cherry Canyon	3700'
	Lower Brushy Canyon	6050'

3. BOP & Accessory Equipment: (See plat 2)

0 - 570: None
570' -6350'

1 set - 10" double ram 3000# W.P. BOP's
3000# W.P. choke manifold

Wellhead Equipment:

8 5/8" sow x 11" 2000 psi Casing head Larkin Model
92 or equivalent
5 1/2" sow x 2 7/8" 2000 psi Tubing head Larkin Model R
or equivalent
5000# single master valve

4. Casing Program: (See Plat #1)

Conductor Casing:

No conductor pipe will be used.

SURFACE CASING:

0 - 570-----8 5/8", 24#, J-55, ST&C

PRODUCTION CASING:

0 - 6350-----5 1/2", 15.5 & 17#, J-55, LT & C

Accessory Equipment:

Surface Casing:

- 1 - 8 5/8" Texas Pattern shoe
- 1 - 8 5/8" Insert Float Collar
- 1 - 8 5/8" x 12 1/4" Centralizer 3 - 5' above shoe
- 1 - 8 5/8" x 12 1/4" Centralizer next two Joints
- 1 - 8 5/8" Stop Ring

Note: Run shoe and insert Collar 1 Joint apart

Production Casing:

- 1 - 5 1/2" Float Shoe
- 1 - 5 1/2" Float Collar
- 2 - 5 1/2" Stop Rings
- 1 - 5 1/2" x 7 7/8" Centralizer 3 - 5' above float shoe
- 1 - 5 1/2" x 7 7/8" Centralizer around next collar
- 1 - 5 1/2" x 7 7/8" Centralizer immediately below float collar
- 1 - 5 1/2" x 7 7/8" Centralizer around next 2 collars
- 1 - 5 1/2" x 7 7/8" Centralizer alternating collars for next 10 joints (5 centralizers)

Note: Run float shoe and float collar 2 joints apart

- 1 - 5 1/2" DV Tool @ 3350
- 5 1/2" x 7 7/8" Centralizer 1 joint above & below DV Tool

Cementing Program:

Surface Casing: (based on 100% excess) (circulated to surface)

Spacer: 10 bbl water

Lead Slurry:

350 sx. Class "C" + .25 pps Cello-Seal
Slurry Weight-----14.81 ppg.
Slurry Yield----- 1.33 cu. ft./sx.
Water Ration----- 6.32 gal/sx

Production casing: (based on 100% excess) (circulated to surface)

Spacer: 15BBL., 8.40 ppg WMW-1 flush

FIRST STAGE

Lead Slurry:

600 sx. 50:50 POZ (Base "C") + 2% Gel + 0.40% TF-4 + 57% water + 0.3% CF-2 + 10 pps Gilsonite
Slurry Weight-----13.62 ppg
Slurry Yield----- 1.41 cu. ft./sx.
Water Ratio----- 5.75 gal/sx.

Tail Slurry:

150 sx. Class "C" + 0.2% TF-4 + .3% CF-14 + 56% water
Slurry Weight-----14.78 ppg
Slurry Yield----- 1.33 cu. ft./sx.
Water Ratio----- 6.32 gal/sx.

SECOND STAGE (DV Tool @ 3350) (based on 100% excess)

Lead Slurry:

820 sx. Pacesetter Lite (c) + 6% Gel + 10% salt + 105% water
Slurry Weight-----12.67 ppg
Slurry Yield----- 2.03 cu. ft./sx.
Water Ratio----- 10.97 gal/sx.

Tail Slurry:

100 sx. Class "C" + 0.2% CaCl₂ + 56% water
Slurry Weight-----14.78 ppg
Slurry Yield----- 1.33 cu. ft./sx.
Water Ratio----- 6.32 gal/sx.

6. Mud Program: (See Plat # 1)

<u>Specification</u>	<u>0 - 570'</u>	<u>570' - 6000'</u>	<u>6000'-6350'</u>
Mud wt (ppg)	8.6 -9.0	9.0 - 10.0	10.0
Vis (sec)	36 - 45	28 - 31	34 -38
WL (ml)	N/C	N/C	15 or less
Type System	Gel-Fresh	Gel-Brine	Gel-Brine

Closed Mud System: (See Plat #3)

A closed mud system will be used and cuttings and drill fluids will be disposed of as per Section 7 of the Multi-Point Surface Use Plot.

Casing Test:

Before drilling out test surface casing to 1500 psi.

Casing Seat Test:

After drilling out surface casing test to leak off or 11 ppq equivalent, whichever is less.

Deviation Specifications:

Maximum Deviation
5 deg.

Maximum Rate of Charge
1.5 deg/ 100'

7. Logging & Testing Program:

Open Hole: 570' to 6350'

First Run

Dual Laterolog
Micro Laterolog
Gamma Ray Neutron

Second Run

Densilog
Compensated Neutron
Gamma Ray Neutron

DST's: None planned

Mud Logging

2000' to Total Depth

8. No abnormal pressures or temperatures are anticipated. H₂S should not be encountered.

9. Anticipated Starting Date:

July 30, 1990

Multi-Point Surface Use Operating Plan
R.B. Operations
Amoco Federal #11-6

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, and the proposed construction. And the procedures to be followed in rehabilitation of the surface after completion of the operations, so that a complete appraisal can be made of the environmental affects associated with the operation.

1. Existing Roads

A. Plat #4 is a portion of the USGS Carlsbad, N.M. regional map. The proposed location is situated approximately 3 miles North East of Loving, New Mexico, via the access route shown in red. Plat #5 is a portion of the USGS Loving, New Mexico map showing existing roads, and New roads to be constructed.

B. Directions:

--From Carlsbad go south 12 miles on US 285
--Turn East on Highway 31 for 4 miles
--Turn North on second road after crossing the railroad (1/2 mile East of the Pecos River Bridge) onto existing dirt road, go 1/2 mile to Amoco Federal #11-3 well, and bear to right on new access road. Follow access road 1/4 mile to the Amoco Federal #11-8 location, turn west and follow road 1/8 mile to location.

2. Planned Access Road (Plat #6)

A. The proposed well site is located 1450' northwest of the existing Amoco Federal #11-3 well.

B. The road will be surfaced with caliche as needed and 2750' of new road will be constructed. Drainage ditches or culverts will be used as needed.

3. Location of Existing Wells

A. The well locations in the vicinity are shown on plat #7.

4. Location of Existing and/or Proposed Facilities (Plat #6)

- A. The Amoco Federal #11-3, located approximately 1300' southeast of the proposed well site, is producing at the time. The flowline will be laid on the surface along the access road to the production facility.
- B. In the event that this well is productive, a flow line will be laid on the surface along the access road to the existing Amoco Federal #11-3 production facility. No productive facilities other than the well itself will be located on the proposed well site.

5. Location and Type of Water Supply

- A. The well is to be drilled with both fresh and brine water to be hauled to the location by truck & will be bought from commercial sources.

6. Source of Construction Material

- A. Any caliche required for construction of the access road and the well pad will be obtained from the existing pit located on Fee land in the SW-NW 1/4 of Section 23, T-23-S, R-28 -E.

7. Methods of Handling Waste Disposal

The well will be drilled using a closed mud system & no reserve pits will be used. (Plat #3 & #8)

- A. Drill cuttings will be contained on site in steel tanks. They will then be trucked to the Reserve Pit area of the existing Amoco Federal #11-1 and be buried (see Plat #6). A small-pit will be dug & the cuttings will be dumped into it. The cuttings will be allowed to set and all fluids that separate out will be taken to an approved disposal well. And the pit will then be back filled when operations in the section have been completed, sand will be placed on the pit area for cover after all operations in the section have been completed.
- B. Water and drilling fluids will be hauled to a commercial disposal facility.
- C. Oil produced during operations will be stored in tanks and hauled off site.
- D. Human sewage will be contained in a portable chemical toilet, transported from the site and disposed of at an approved site.

- E. Trash will be deposited in a metal container and hauled to an approved disposal site.
 - F. Within 30 days following drilling and/or completion operations, trash and debris will be hauled to an approved disposal site.
8. Ancillary Facilities
None
9. Wellsite Layout
- A. Plat #8 shows the dimensions of the well pad. As mentioned in Section 7, no reserve pits will be used. Location of the major rig components, and well pad orientation are shown. It is currently planned to use Grace Drilling Co. Rig # 403, this could change however depending on availability.
 - B. Topography of the area slopes slightly to the south. Fills should be no more than 3'-5' deep. The location will be capped with 4 to 6" of caliche.
 - C. No reserve pit will be used however the pit used for the drill cutting at the Amoco Federal #11-1 will be lined with plastic.
 - D. No diversion ditches are planned.
 - E. The pad has been stacked and flagged for the archeological study.
10. Plans for restoration of the Surface.
- A. Upon completion of drilling, completion and production operations the area disturbed by the project will be restored to BLM specifications or to as near their former natural condition as possible.
 - B. All of the caliche material will be removed and the area will be leveled to pre-project grade.
 - C. No drainage systems will be needed on the site.
 - D. No segregation of spoils is planned at this time as it is a blow sand area.
 - E. Waste disposal was outlined in section 7.
 - F. Revegetation and fertilization will be as per BLM stipulations.

- G. All areas not used for production will be restored after completion of the well. The roads are already existing and will not be restored.

11. Surface Restored

- A. This is private surface and a damage agreement is being negotiated with Mississippi Chemical Corp., P. O. Box 101, Carlsbad, New Mexico 88220, the surface owner.

12. Other Information

- A. The general location of this site is a rocky desert and mesquite brush area. The soil has a very small amount of vegetation and stockpiling of material is not planned.
- B. The vegetation is desert scrub characterized by various species of cacti, accacia and mesquite.
- C. Wildlife species that occur in the area include: rabbits, muledeer, coyote, snakes and various rodents.
- D. The Pecos River is 1/2 mile west of the well site.
- E. An archaeological survey of the site and proposed access road has been conducted and the report is attached.

13. Operator's Representative and Certification

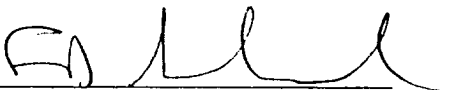
- A. The field representatives responsible for assuring compliance with the approved surface use plan are:

	Office	Home
Operations Manager Fritz Schoch	915-362-6302	915-683-3635
Engineer Terrell Hansen	915-362-6302	915-699-9784
Field Foreman - Construction David Mitchell	505-745-2329	505-397-6002
Compliance Gary Miller	915-682-4559	915-699-4672

B. Certification:

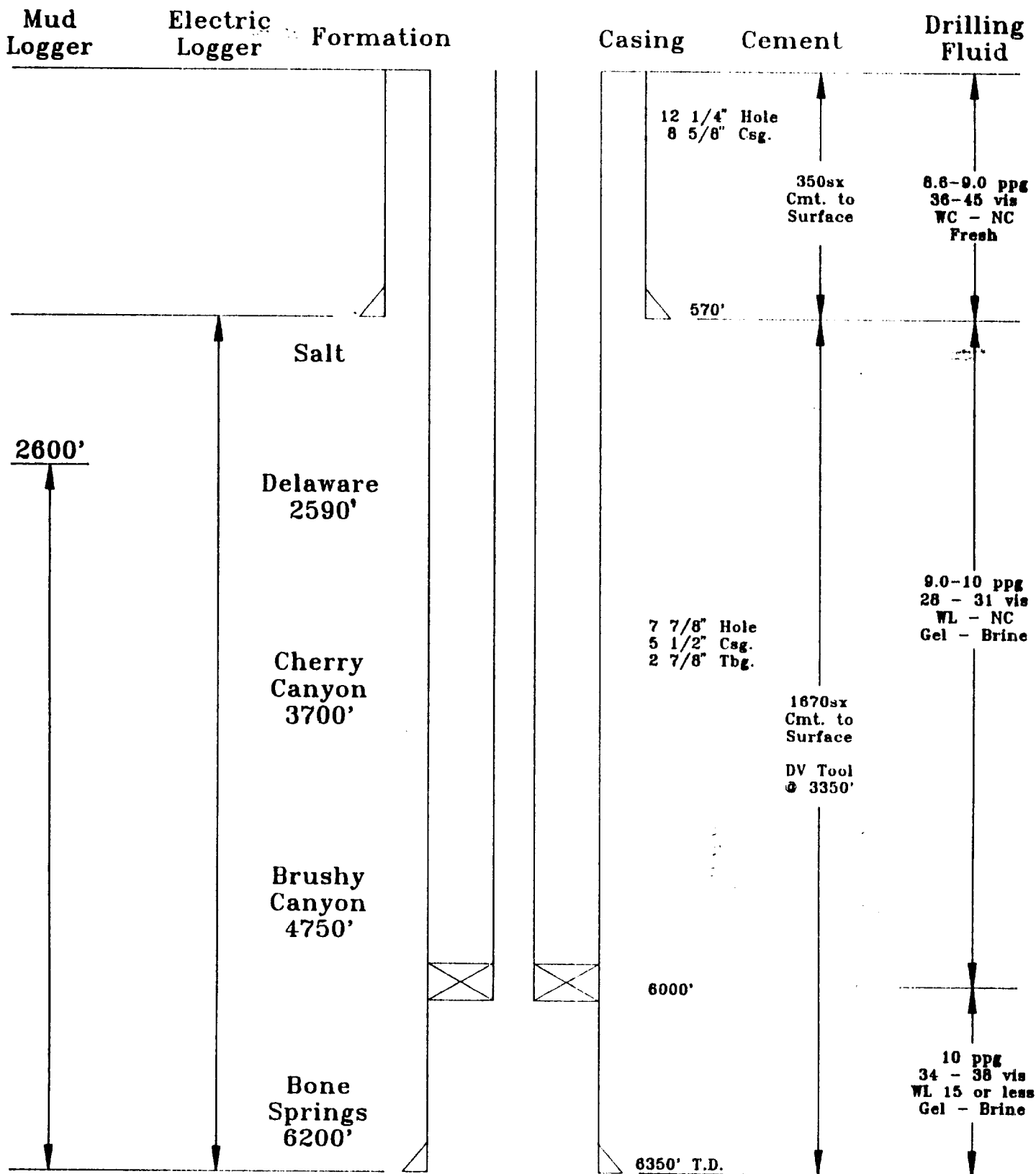
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by RB Operating 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 the 18 U.S.C. 1001 for the filing of a false statement.

Date: 7/19/90

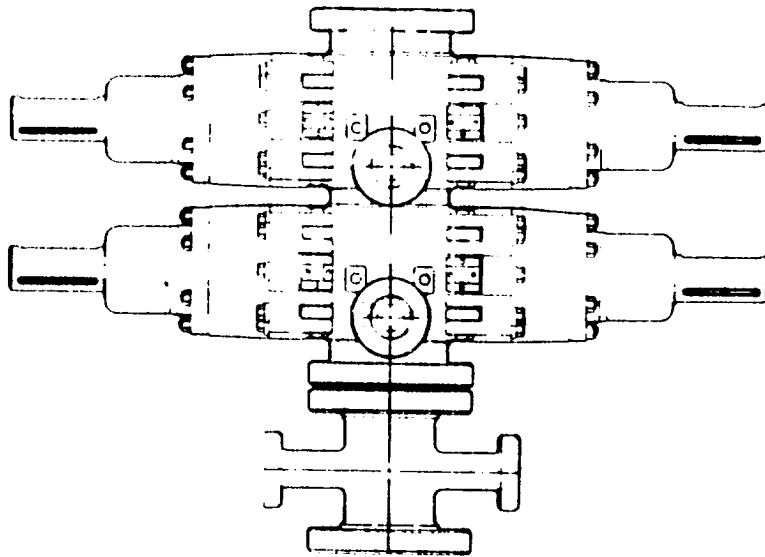


Fritz Schoch
Operations Manager

WELL: RB Operating Amoco Federal #11-6
 FIELD: East Loving Delaware
 CATEGORY: Development
 STATE: New Mexico
 COUNTY: Eddy
 LOCATION: 860FNL & 1880 FEL, Sec. 11, T-23-S, R-28-E
 ELEVATION: (G.L.) 3035'



BLOW OUT PREVENTION EQUIPMENT



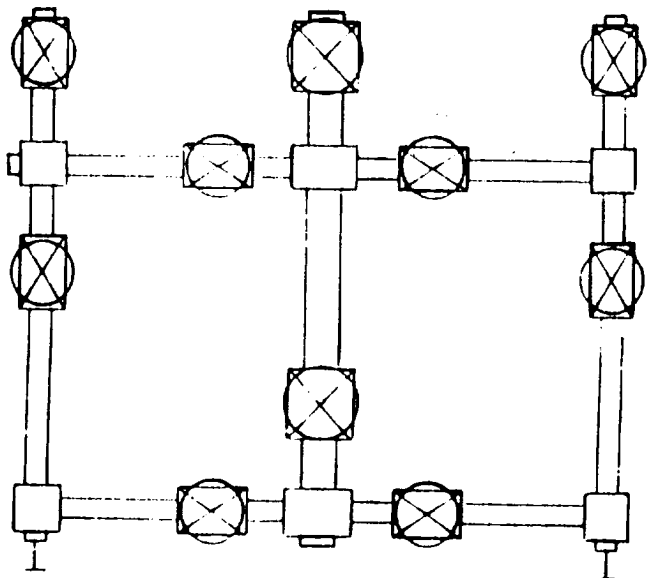
BOP Stack

- 1 Rucker Shaffer "B" double ram
10" - 3000 psi WP

Closing Unit

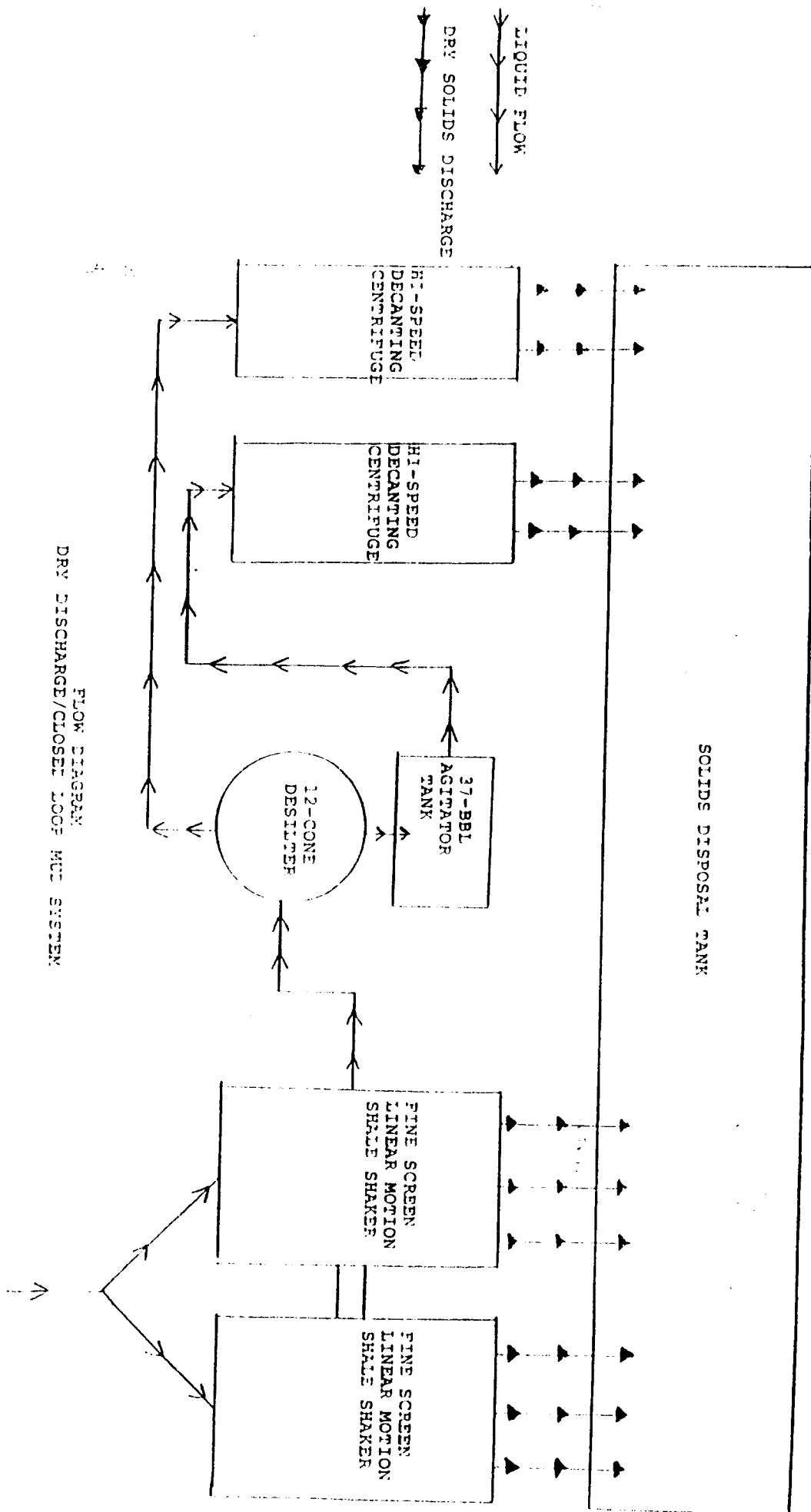
- Hydril model 80 three station accumulator
- Controls located in accumulator house and on rig floor

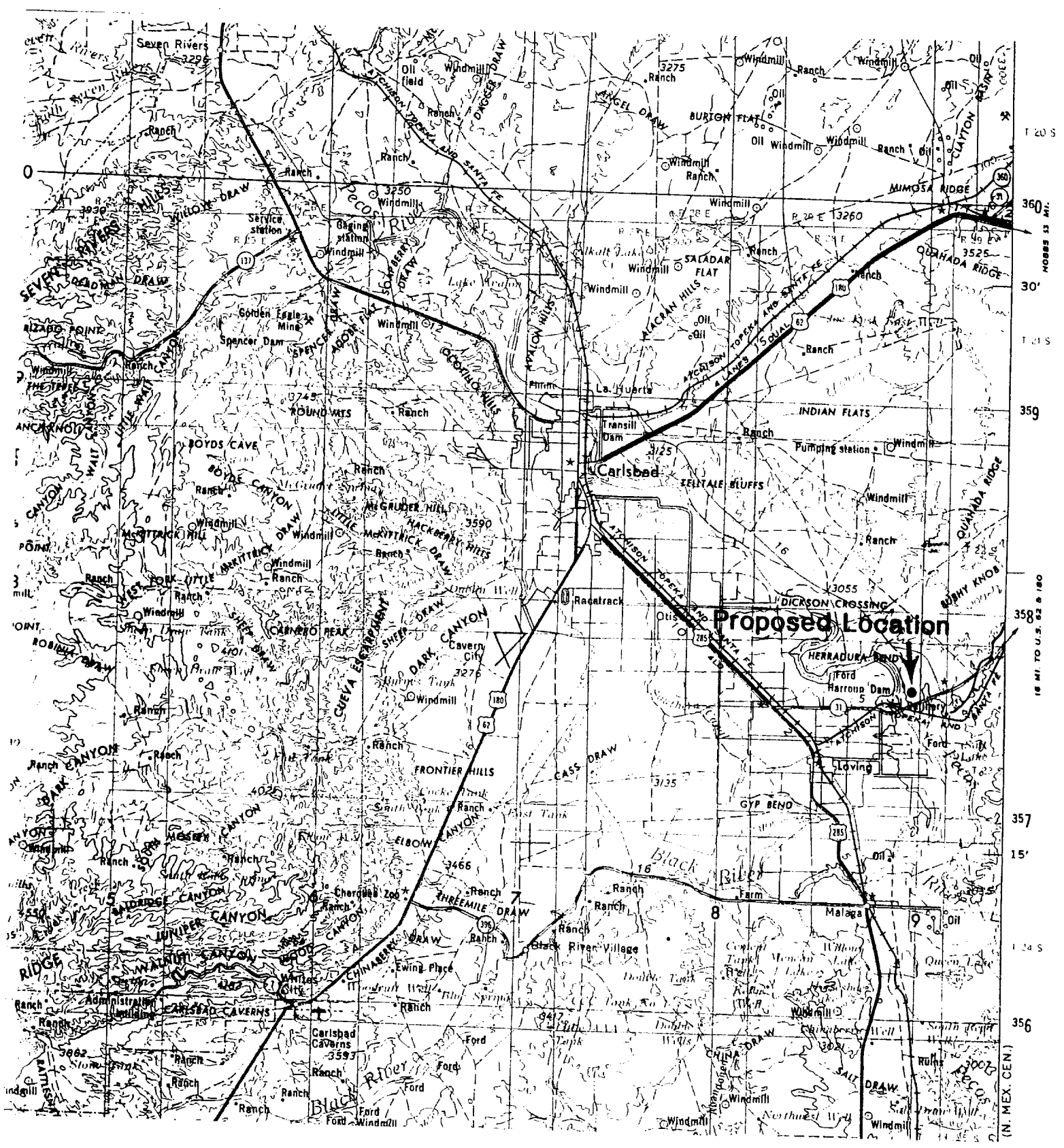
CHOKE MANIFOLD



900 Series, 3000 psi WP

PLAT #2

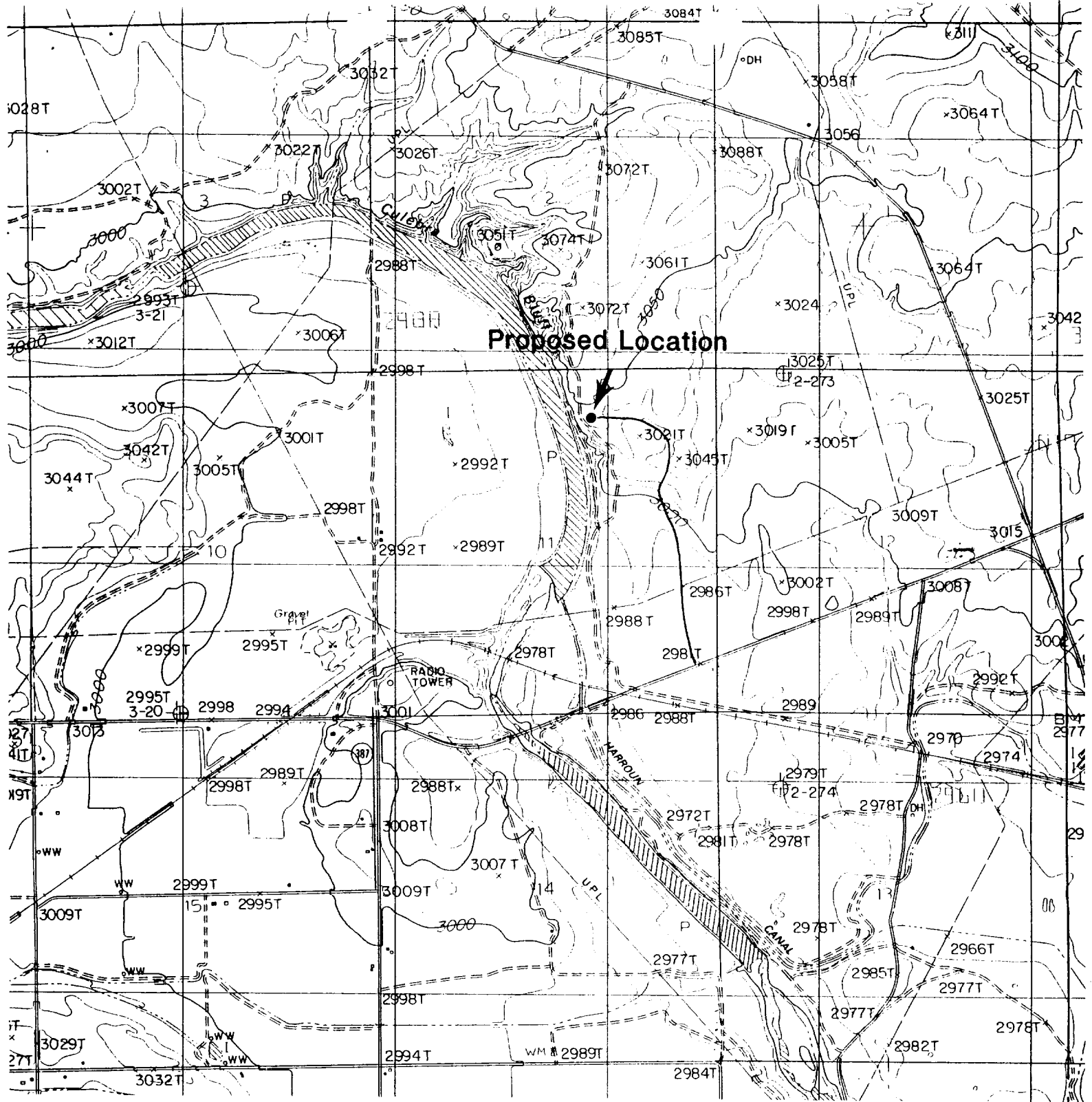




Note: Taken from USGS Regional Topographic Map, Carlsbad, New Mexico

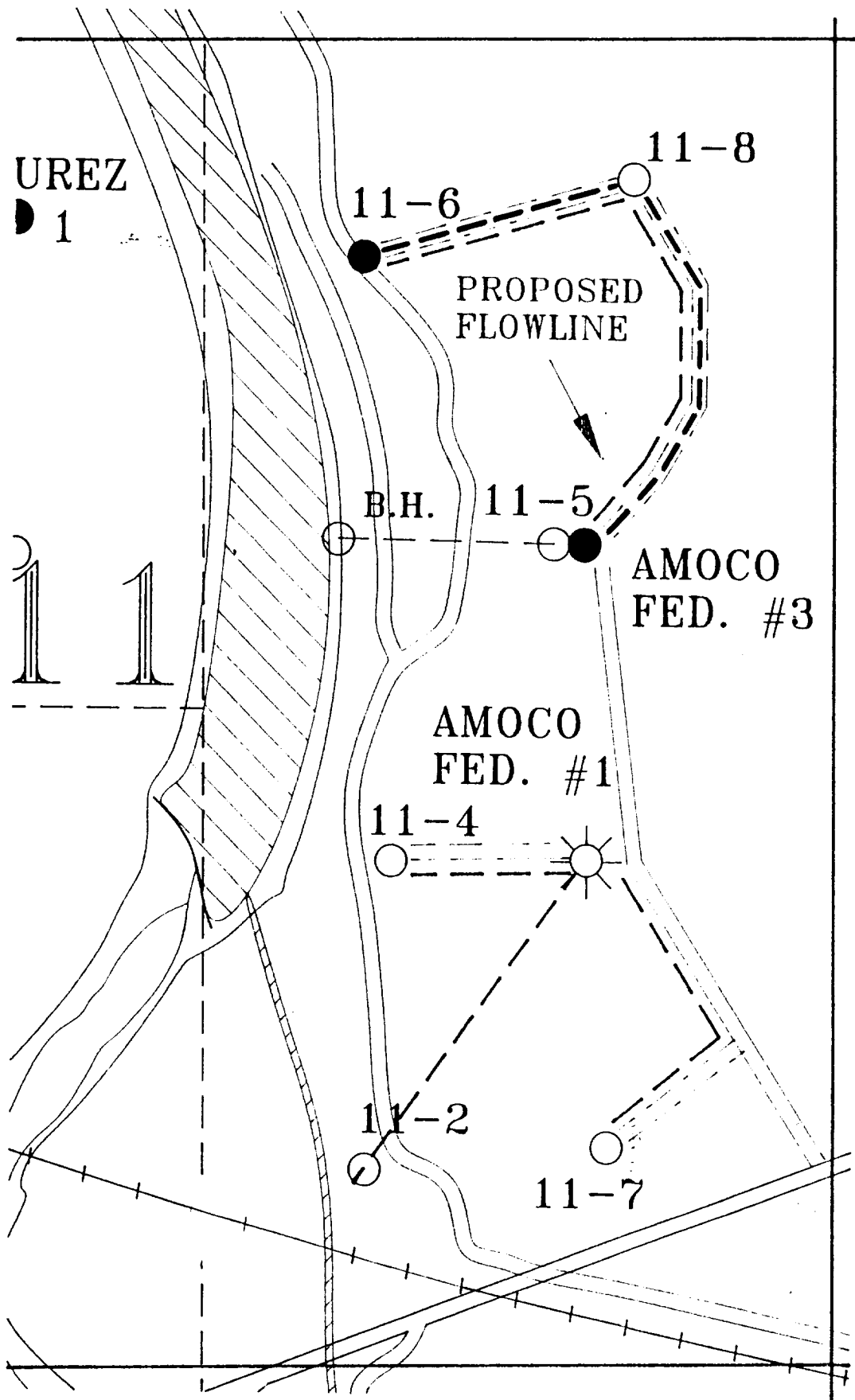
Amoco Federal Regional Topographic Map

Plat #4

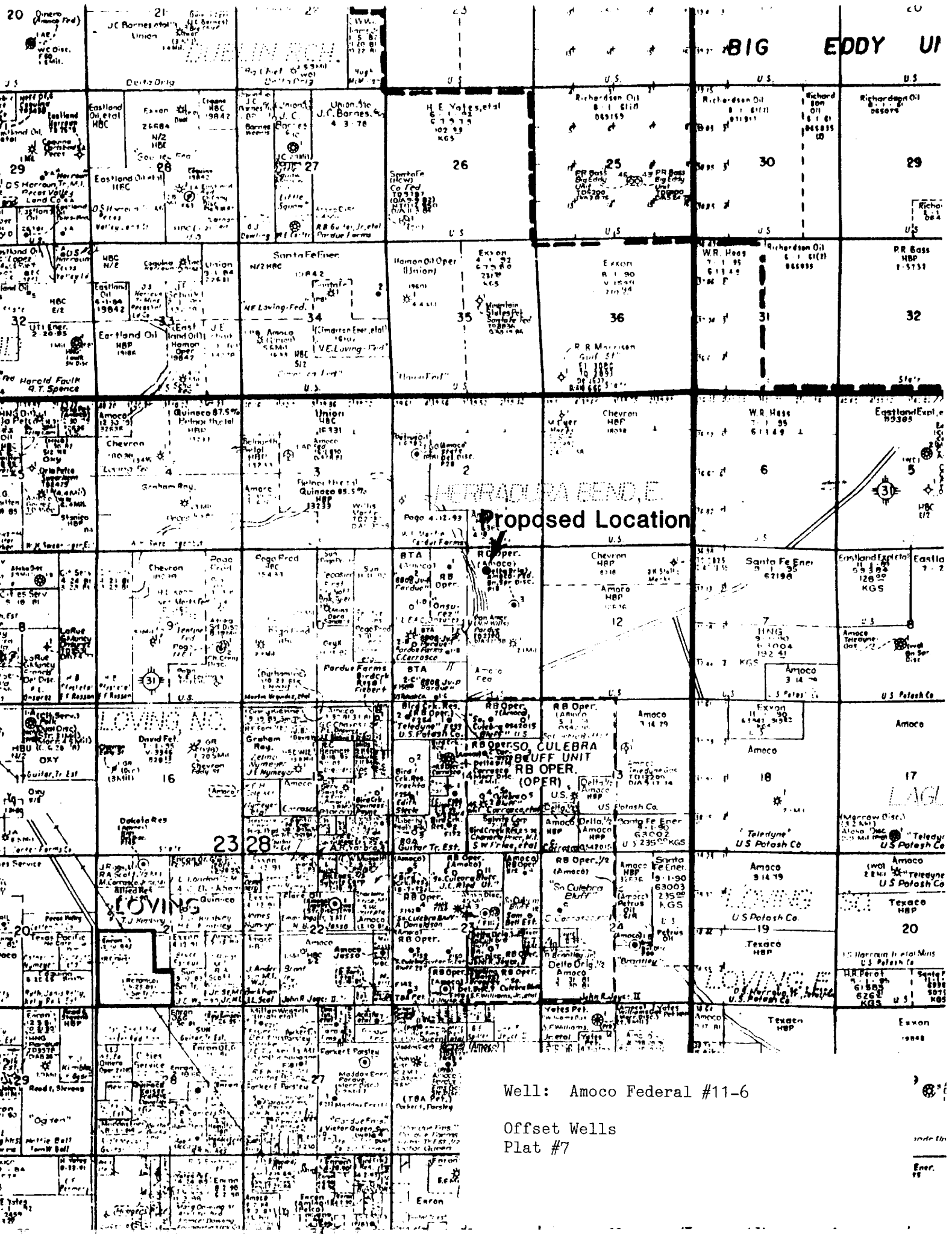


NOTE: Taken from USGS Topographic Map, Loving, New Mexico

WELL: Amoco Federal #11-6
 Topographic Map
 PLAT #5



WELL: Amoco Federal #11-6
 Road & Location Plat
 Plat #6



BIG EDDY UI

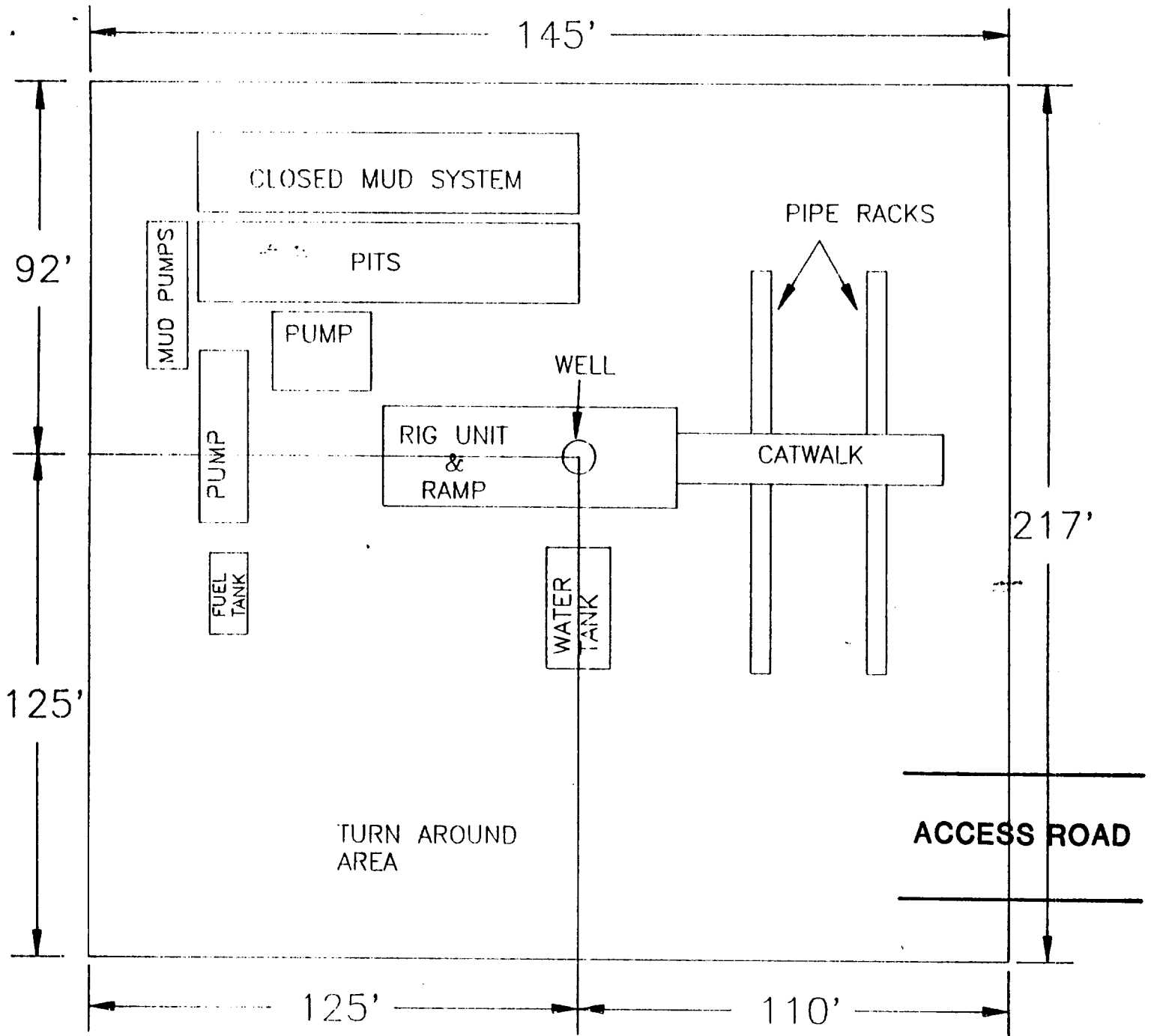
MERRADURA BEND, E.
Proposed Location

LOVING

LOVING

Well: Amoco Federal #11-6
 Offset Wells
 Plat #7

Ener.
 78



Amoco Federal #11-6

Location Plat
Plat #8

