

Artesia, NM 88210 UNITED STATES

DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

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

2. NAME OF OPERATOR

RB Operating Company

3. ADDRESS OF OPERATOR

2412 N. Grandview, Suite 201, Odessa, Texas

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

At surface: 1387 FEL, 1977 FNL, Sec. 11, T-23-S, R-28-E, Eddy Co., New Mexico

At proposed prod. zone

1980 FNL, 1980 FEL, Sec. 11, T-23-S, R-28-E, Eddy Co., New Mexico

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

2 miles northeast of Loving, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 660' W. Line of E/2
(Also to nearest drilg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

300

16. NO. OF ACRES IN LEASE

320

19. PROPOSED DEPTH

6500' TVD

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

2999'

22. APPROX. DATE WORK WILL START*

23.

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'	350 sacks
7-7/8"	5-1/2"	15.5 & 17#	6350'	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 3600'.
4. Kick off Directional Hole & drill to T.D. (Note: Complete Plan included in APD)
5. Mud log from 2600' to T.D.
6. Electric log at T.D. to surface casing and run multishot as per Commission rules.
7. If commercial, set 5-1/2" casing to T.D.
8. Completion program will be submitted under Sundry notice.
9. If non-commercial, plug as per BLM and New Mexico Oil & Gas Commission specifications.

APPROVAL SUBJECT TO

GENERAL REQUIREMENTS AND

SPECIAL STIPULATIONS

ATTACHED

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 blowout preventer program, if any.

24.

SIGNED

James G. Sheffall

TITLE

Sr. Production Engineer

DATE

10/5/90

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

10 31-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

N MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Supersedes O-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

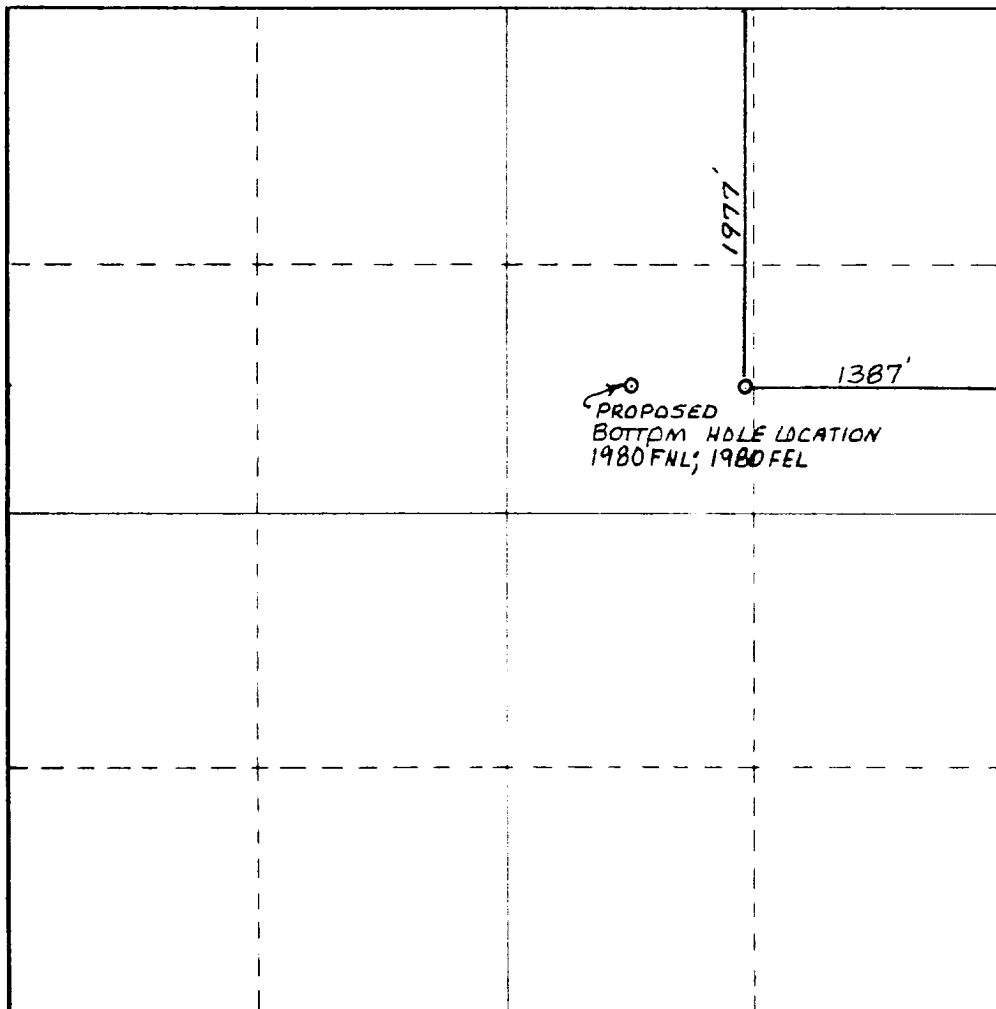
Operator R B OPERATING COMPANY		Lease AMOCO FEDERAL 11-5		Well No. 11-5
Unit Letter G	Section 11	Township 23 South	Range 28 East	County Eddy County, N.M.
Actual Prototype Location of Well:				
1387	feet from the	East	line and	1977
				feet from the
				North
Ground Level Elev. 2999.	Producing Formation Delaware		Pool Loving, East	Dedicated Acreage 40

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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 interests 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 interests, has been approved by the Commission.



CERTIFICATION

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

James G. Shetland
Name

Sr. Production Engineer

Position

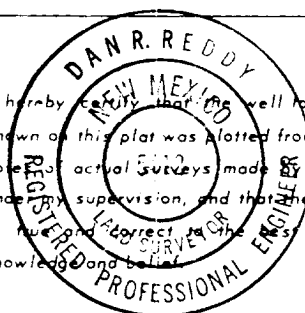
RB Operating Company

Company

October 5, 1990

Date

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 knowledge and belief.



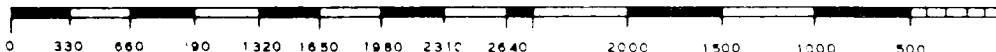
Date Surveyed

July 3, 1990

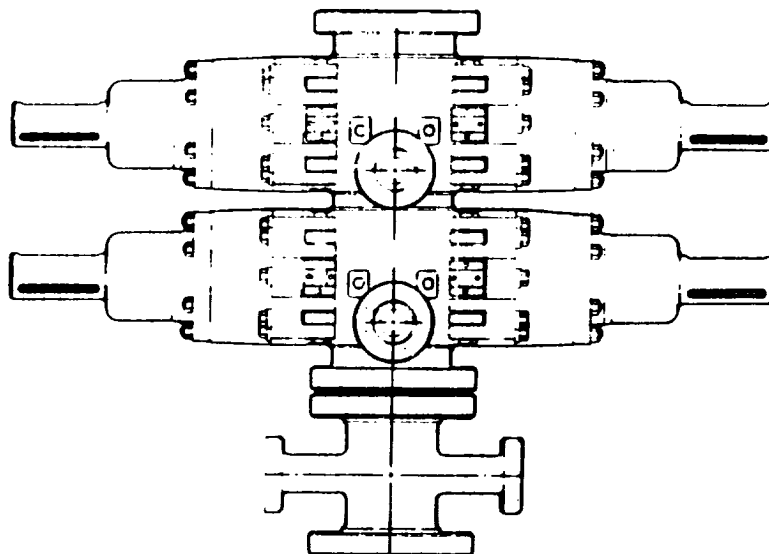
Registered Professional Engineer and/or Land Surveyor

Dan R. Reddy
Certificate No.

NM PE&PS NO. 5412



BLOW OUT PREVENTION EQUIPMENT



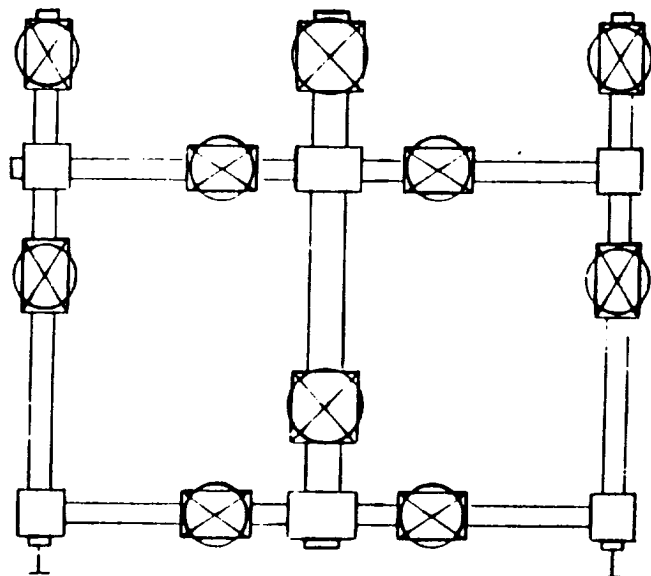
BOP Stack

- 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

DRILLING PROGRAM

WELL: RB Operating, Amoco Federal #11-5
FIELD: East Loving Delaware
CATEGORY: Development
STATE: New Mexico
COUNTY: Eddy
LOCATION: 1387 FEL & 1977 FNL, Sec. 11, T-23-S,
R-28-E (surface)
ELEVATION (G.L.): 2999'

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

Salt	570'
Delaware	2590'
Cherry Canyon	3700'
Brushy Canyon	4750'
Bone Springs	6200'
Total Depth T.V.D.	6500'

There are no potential drilling problems.

Estimated Time to Drill and Evaluate: 15 days

Hole Size:

0' - 570' -----12 1/4"
570' - 6500'----- 7 7/8"

2. Estimated Depth at which Water, Oil or Gas are expected to be encountered: (all depths T.V.D.)

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

3. BOP & Accessory Equipment: (See plat 2) (all depths T.V.D.)

0 - 570: None
570' -6500'

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 - 6500-----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 with 1 joint
- 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:

0 - 3500'

Maximum Deviation
5 deg.

Maximum Rate of Charge
1.5 deg/ 100'

Directional Drilling Program attached.

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:

October 30, 1990



A Baker Hughes company

2103 Market, Midland, TEXAS 79703; Phone: (915) 694-9517, Fax: (915) 694-5648

R. B. Operating Company
Gary Miller

Amoco Federal 11-5
October 3, 1990

DIRECTIONAL DRILLING PROCEDURE

1. Drill to K.O.P. keeping hole as straight as practical.
2. Pick up 7 7/8" soft formation Rock Bit, 6 1/2" Slow Speed Mud Motor, 1.5 degree Bent Sub, 6 1/4" X 30' Non Magnetic Drill Collar and rest of the rig collars and drill pipe. Trip in hole.
3. Orient downhole motor with wireline steering tool to N90W and commence drilling. Drill with motor assembly until 4 to 5 degrees is achieved. Trip out of hole.
4. Trip in hole with 7 7/8" Rock Bit, 7/8" IBS, 6 1/4" X 30' Non Mag Drill Collar, 30' Steel Collar, 7 7/8" String Reamer, drill collars and drill pipe. Drill with this assembly until average angle of 14.34 degrees (+-) is obtained, or to a TVD of 4546.15 or a MD of 4556.10. Trip out of hole.
5. Trip in hole with 7/8" Bit, 7 7/8" IBS, 8' Short Collar, 7 7/8" Reamer, Non Mag Drill Collar, 7 7/8" Reamer, 30' Steel Collar, 7 7/8" Reamer, Drill Collars and Drill Pipe.
6. Drill to T.D. with this assembly or until a corrective tool run is required.
7. At trip out prior to running logs, drop Multishot Survey for the New Mexico Oil & Gas Commission.

EDDY COUNTY, NEW MEXICO

Checked by : -

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*****
*
*      Surface Information
*      =====
*
*      Slot co-ordinates :-      0.00N      0.00E
*
*      *****
*      Calculation Premises
*      =====
*
*      All depths are in feet and are RKB.
*      All distances are in feet .
*
*      Origin point of local coordinates is slot.
*
*      Vertical section is calculated on the plane of
*      S89 43W (269.71 deg) and is referenced from
*      • Platform centre.
*
*      *****
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Well Profile Synopsis
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Measured Depth =====	True Vert Depth =====	Inclin. Degrees =====	Azimuth Degrees =====	Bearings Degrees =====	Rectangular Coordinates =====	Vertical Section =====
KICK OFF POINT	3600.00	0.00	0.00	N 0.00E	0.00N	0.00

BUILD - BUILD RATE =						
1.50DEG / 100FT.						

*****	4556.10	14.34	269.71	S89.71W	0.60S	119.04

HOLD						

TARGET	6469.58	14.34	269.71	S89.71W	3.00S	593.01

Well Profile

=====						
Measured	True Vert	Inclin.	Azimuth	Bearings	Rectangular	Vertical
Depth	Depth	Degrees	Degrees	Degrees	Coordinates	Section
=====	=====	=====	=====	=====	=====	=====
KICK OFF POINT						
3600.00	3600.00	0.00	0.00	N 0.00E	0.00N	0.00E
3700.00	3699.99	1.50	269.71	S89.71W	0.01S	1.31W
3800.00	3799.91	3.00	269.71	S89.71W	0.03S	5.23W
3900.00	3899.69	4.50	269.71	S89.71W	0.06S	11.77W
4000.00	3999.27	6.00	269.71	S89.71W	0.11S	20.92W
4100.00	4098.57	7.50	269.71	S89.71W	0.17S	32.68W
4200.00	4197.54	9.00	269.71	S89.71W	0.24S	47.03W
4300.00	4296.09	10.50	269.71	S89.71W	0.32S	63.96W
4400.00	4394.16	12.00	269.71	S89.71W	0.42S	83.47W
4500.00	4491.70	13.50	269.71	S89.71W	0.53S	105.54W
4556.10	4546.15	14.34	269.71	S89.71W	0.60S	119.04W
4600.00	4588.68	14.34	269.71	S89.71W	0.66S	129.91W
4700.00	4685.56	14.34	269.71	S89.71W	0.78S	154.68W
4800.00	4782.45	14.34	269.71	S89.71W	0.91S	179.45W
4900.00	4879.33	14.34	269.71	S89.71W	1.03S	204.22W
5000.00	4976.21	14.34	269.71	S89.71W	1.16S	228.99W
5100.00	5073.10	14.34	269.71	S89.71W	1.28S	253.76W
5200.00	5169.98	14.34	269.71	S89.71W	1.41S	278.53W
5300.00	5266.86	14.34	269.71	S89.71W	1.53S	303.30W
5400.00	5363.75	14.34	269.71	S89.71W	1.66S	328.07W
5500.00	5460.63	14.34	269.71	S89.71W	1.78S	352.84W
5600.00	5557.52	14.34	269.71	S89.71W	1.91S	377.61W
5700.00	5654.40	14.34	269.71	S89.71W	2.04S	402.38W
5800.00	5751.28	14.34	269.71	S89.71W	2.16S	427.15W
5900.00	5848.17	14.34	269.71	S89.71W	2.29S	451.92W
6000.00	5945.05	14.34	269.71	S89.71W	2.41S	476.69W
6100.00	6041.93	14.34	269.71	S89.71W	2.54S	501.46W
6200.00	6138.82	14.34	269.71	S89.71W	2.66S	526.23W
6300.00	6235.70	14.34	269.71	S89.71W	2.79S	550.99W
6400.00	6332.58	14.34	269.71	S89.71W	2.91S	575.76W


**EASTMAN
CHRISTENSEN**

Well Profile (continued)
=====

Measured Depth =====	True Vert Depth =====	Inclin. Degrees =====	Azimuth Degrees =====	Bearings Degrees =====	Rectangular Coordinates =====	Vertical Section =====
TARGET NO.1 6462.58	6400.00	14.34	269.71	S89.71W	3.00S 593.00W	593.01



R.B. OPERATING COMPANY

AMOCO FEDERAL 11-5
EDDY COUNTY, NEW MEXICO



WELL: AMOCO FED. 11-5

SLOT: 1

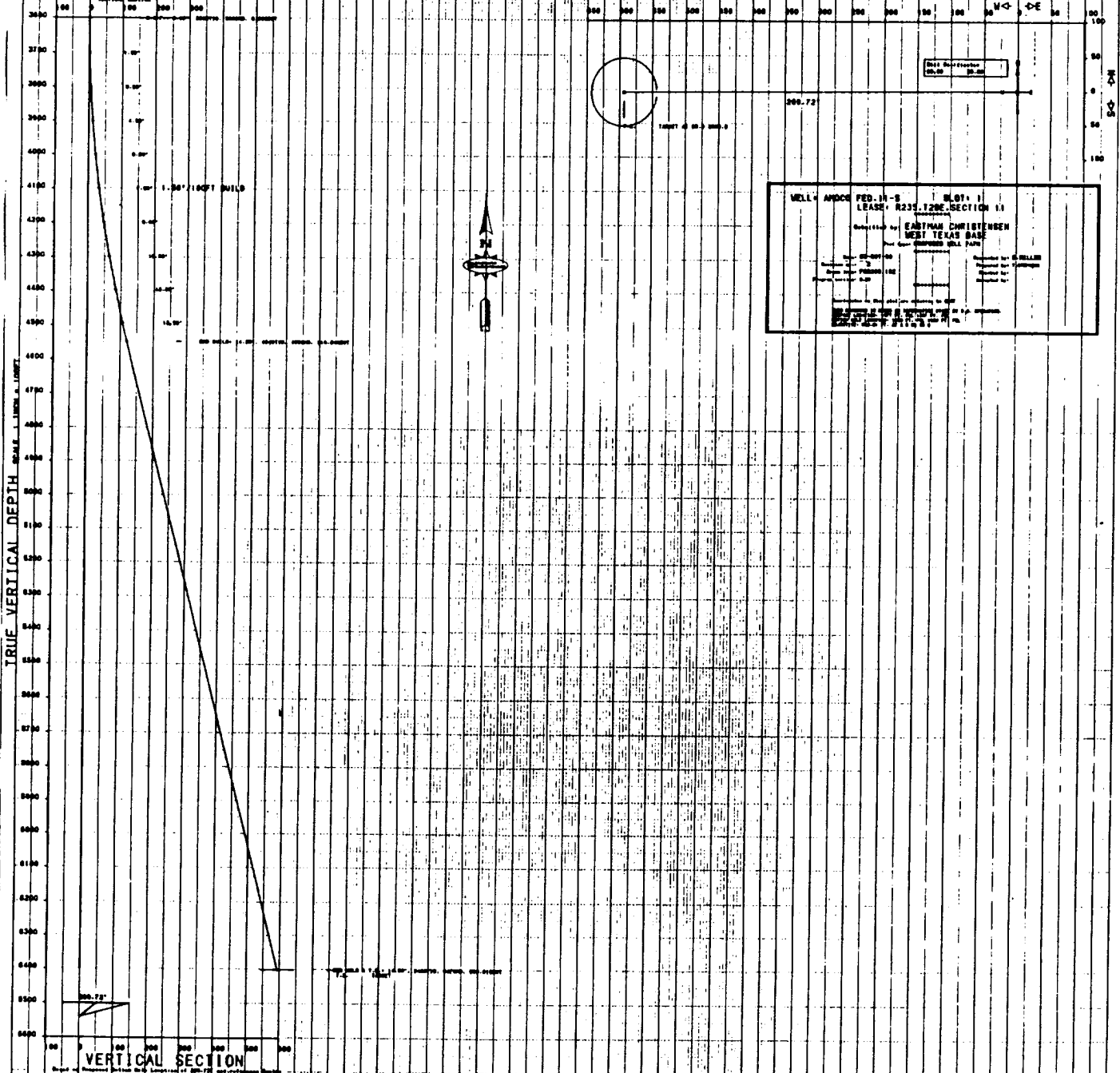


VERTICAL PROJECTION

SCALE 1 INCH = 1000'

HORIZONTAL PROJECTION

SCALE 1 INCH = 500'



Multi-Point Surface Use Operating Plan
R.B. Operations
Amoco Federal #11-5

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 #11-1 location, continue north 1/4 mile to Amoco Federal 11-3 location, location is at west end of Amoco Federal #11-3 pad.

2. Planned Access Road (Plat #6)

- A. The proposed well site is located on the west end of the existing Amoco Federal #11-3 well production facility.
- B. The existing road to the Amoco Federal #11-1 well will be used. No surface material will be 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. In the event that this well is productive, either a flow line will be laid on the surface to the

existing Amoco Federal #11-3 Production Facility or productive facilities 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 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 continued 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 is relatively level with a slight rise to the north end. Fills should be no more than 3' 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 sand dune and mesquite brush area. The sand 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

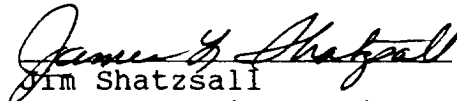
- A. The field representatives responsible for assuring compliance with the approved surface use plan are:

	Office	Home
Operations Manager Fritz Schoch	915-362-6302	915-683-3635
Sr. Production Engineer Jim Shatzsall	915-362-6302	915-699-1210
Field Foreman - Construction David Mitchell	505-745-2329	505-397-6002
Compliance Gary Miller	915-682-4559	915-699-4672

B. Certification:

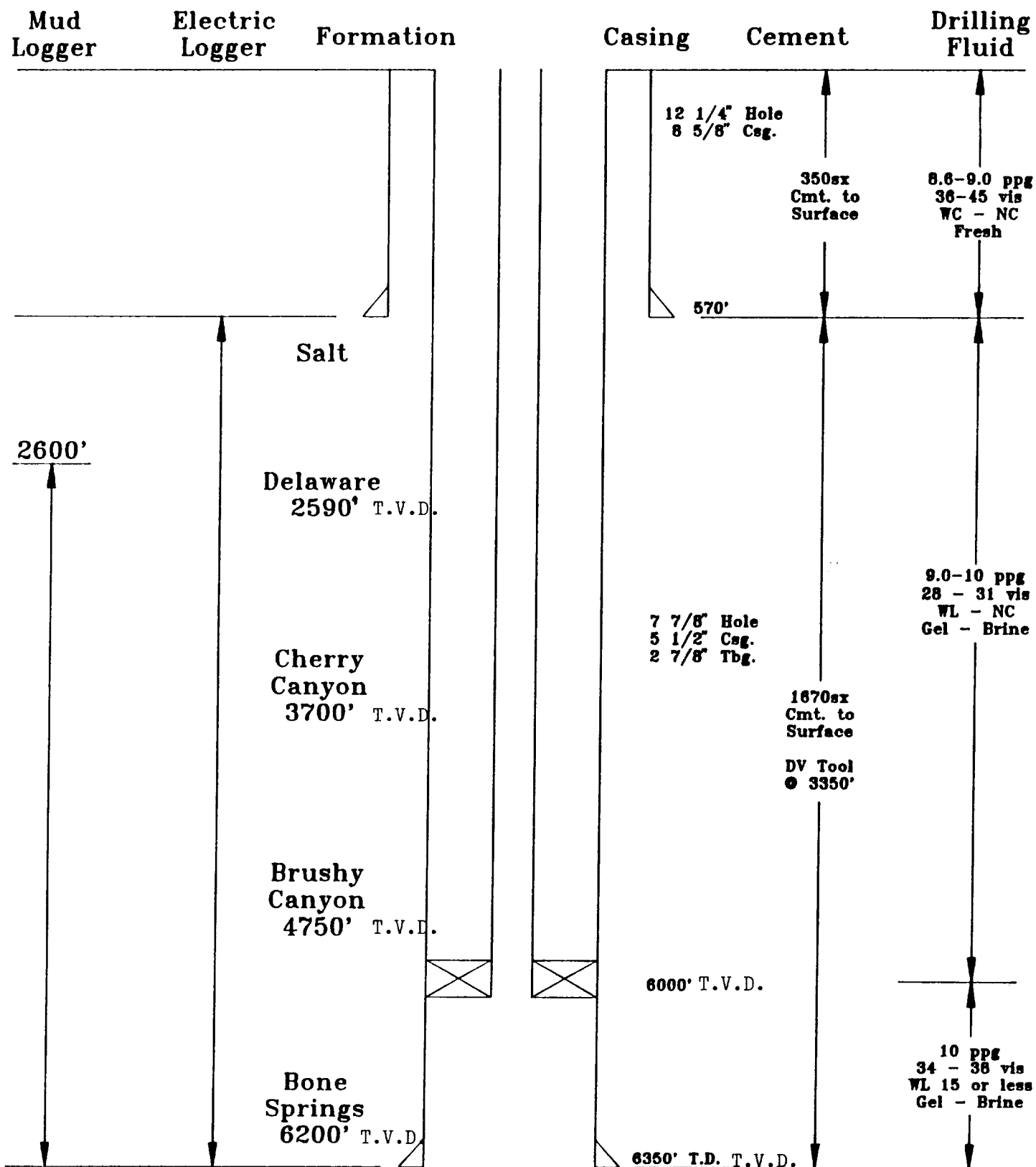
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated 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.

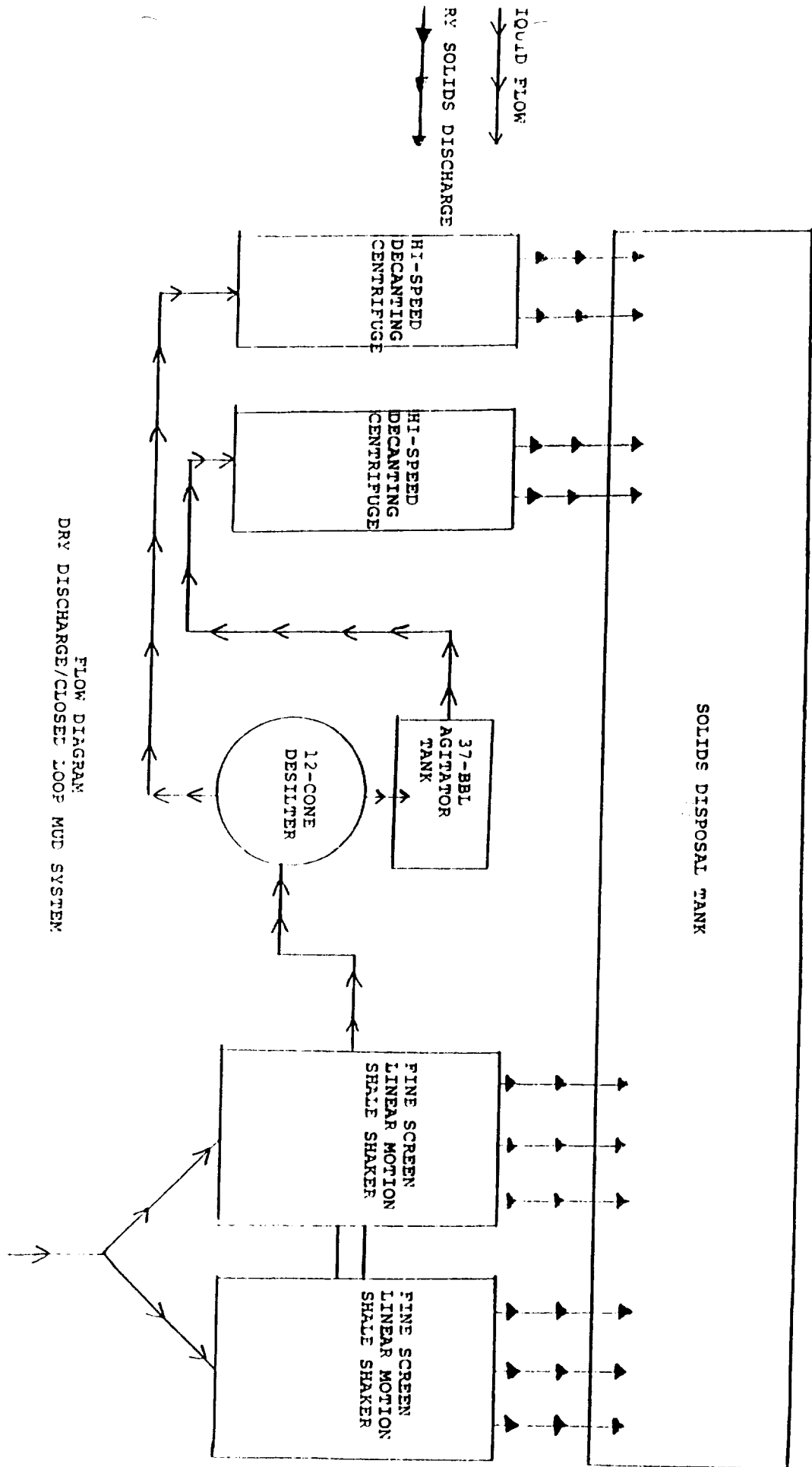
Date: 10/5/90


Jim Shatzsali
Sr. Production Engineer

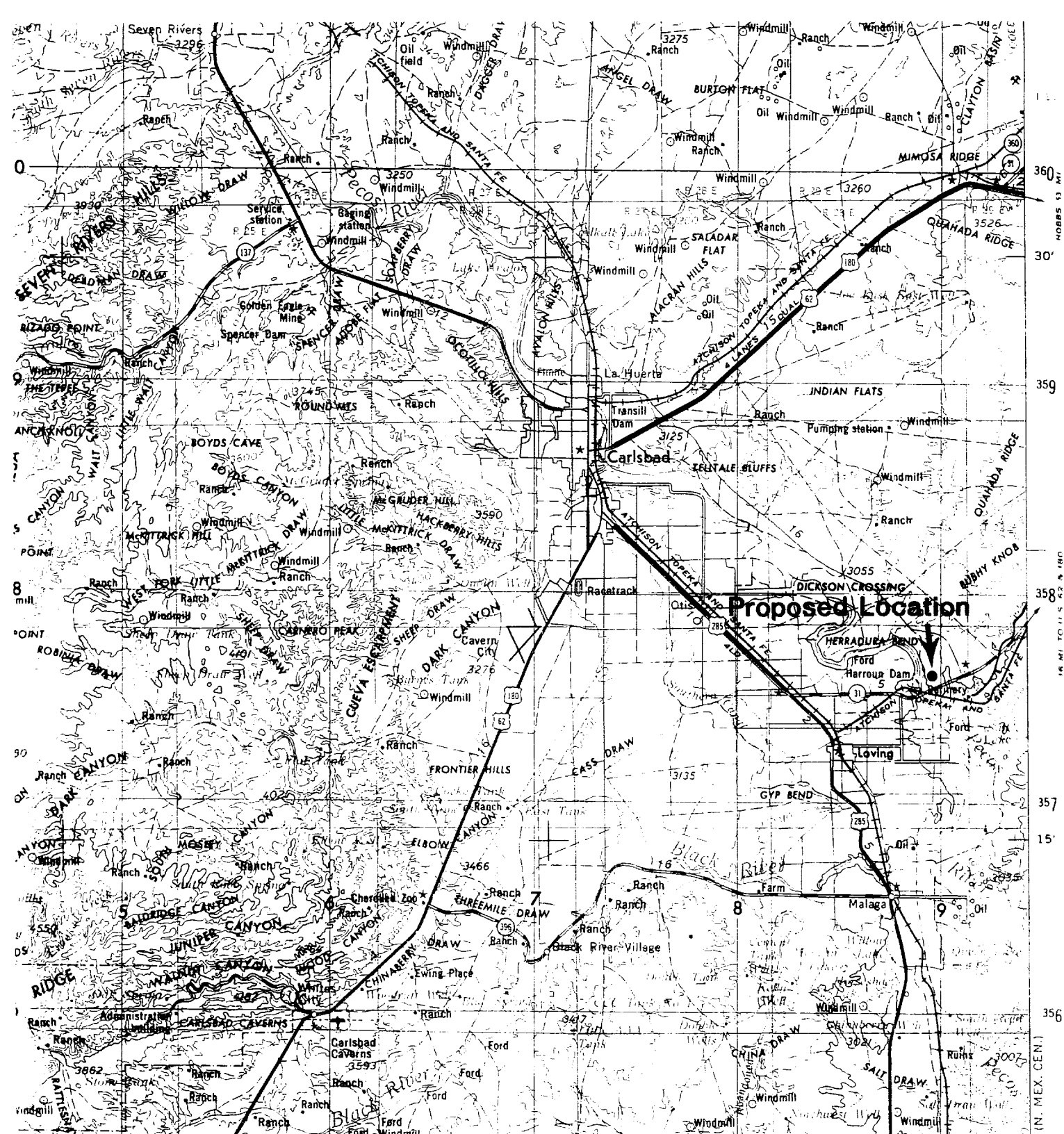
PLAT #1	Drilling Program
PLAT #2	BOP and Choke Diagram
PLAT #3	Closed mud system
PLAT #4	Regional Map
PLAT #5	Topographic Map
PLAT #6	Access Road and Location
PLAT #7	Offset Wells
PLAT #8	Rig and Location Layout
PLAT #9	Survey Plat

WELL: RB Operating, Amoco Fe al #11-5
 FIELD: East Delaware Basin
 CATEGORY: Development
 STATE: New Mexico
 COUNTY: Eddy
 LOCATION: Surface: 1387' FEL & 1977' FNL, Sec. 11, T-23-S, R-28-E
 ELEVATION: 2999'





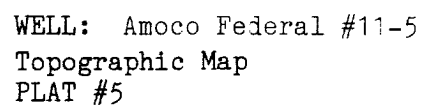
FLOW DIAGRAM
 DRY DISCHARGE/CLOSED LOOP MUD SYSTEM

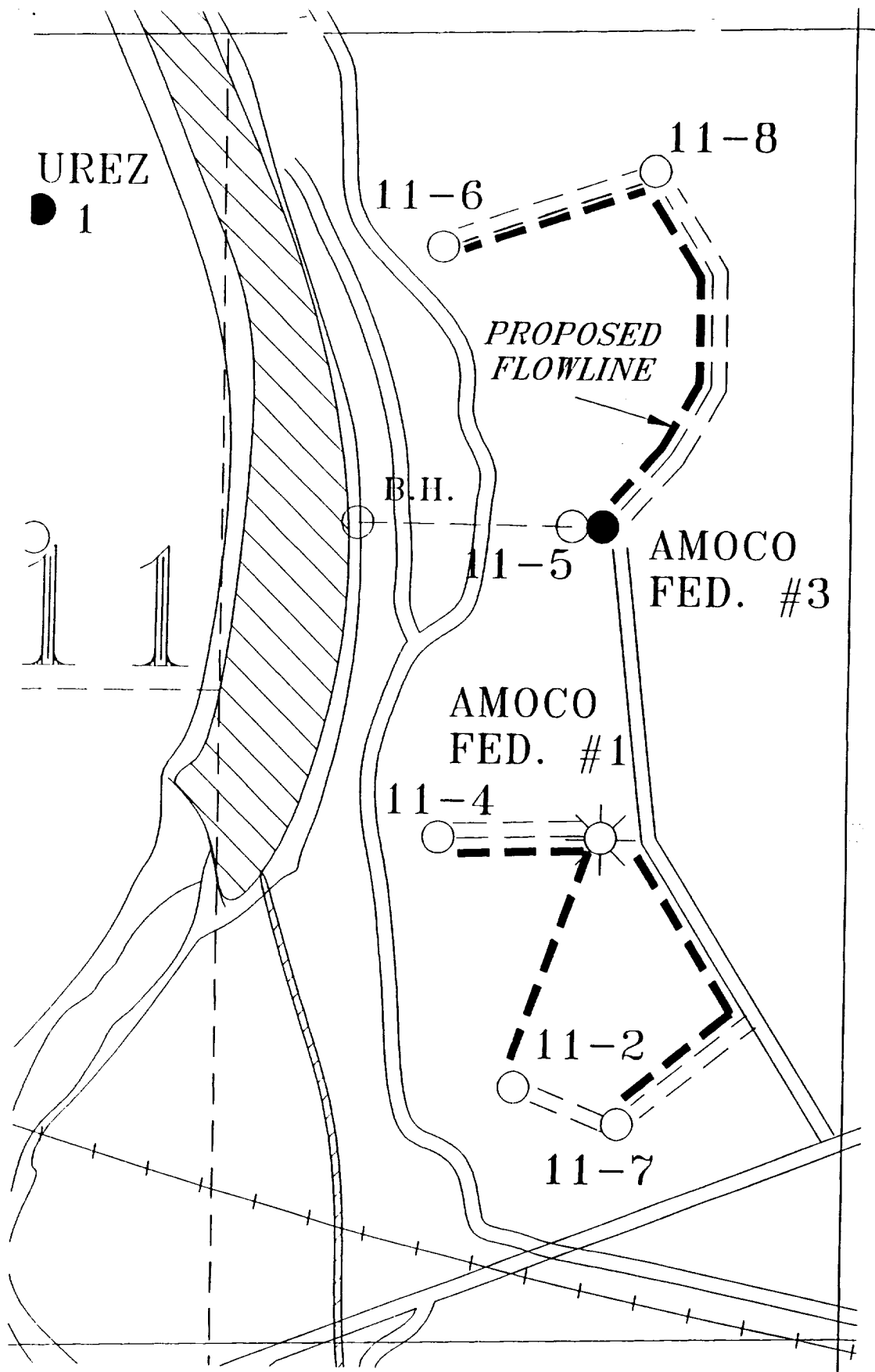


Note: Taken from USGS Regional Topographic Map, Carlsbad, New Mexico

Amoco Federal Regional Topographic Map

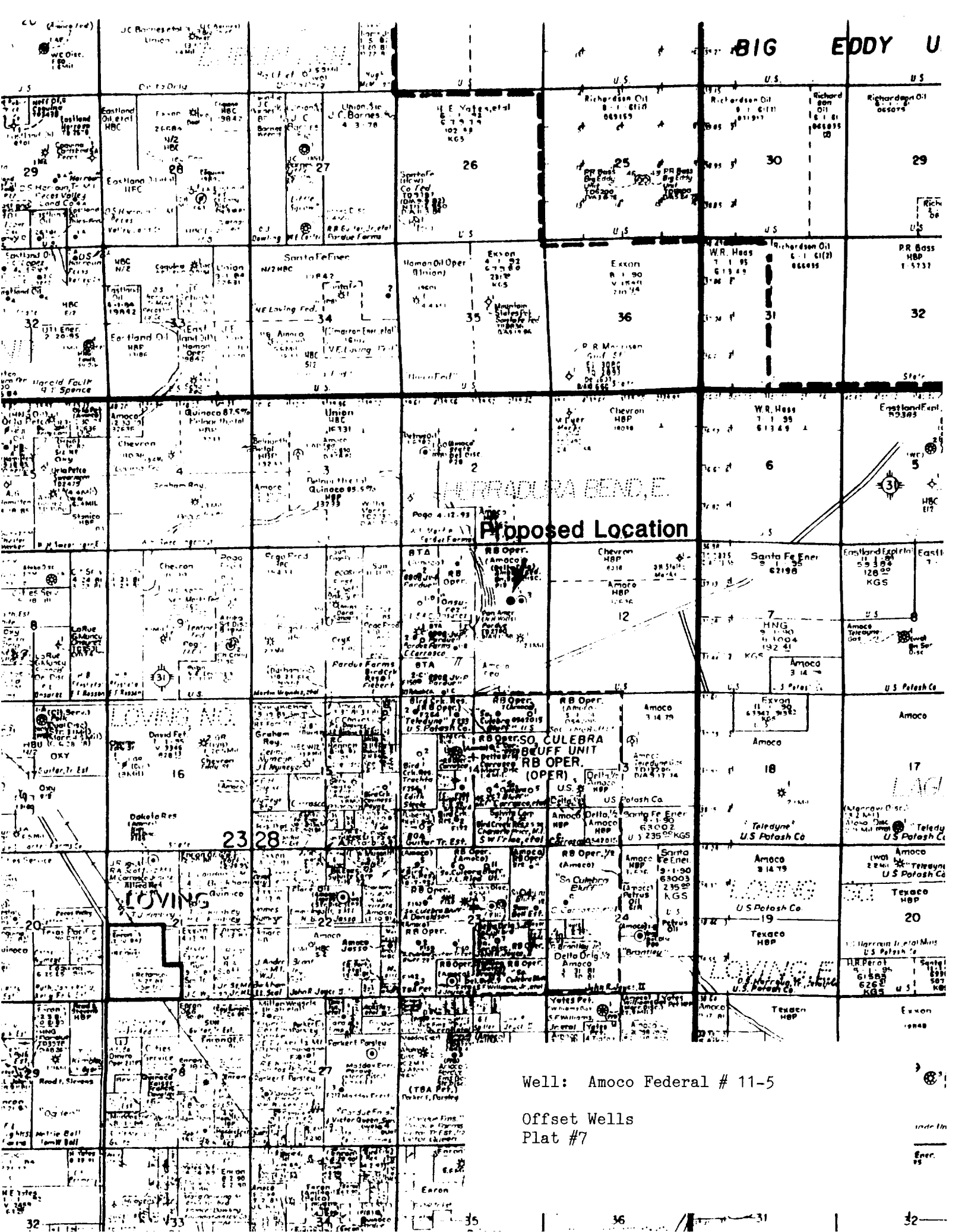
Plat #4





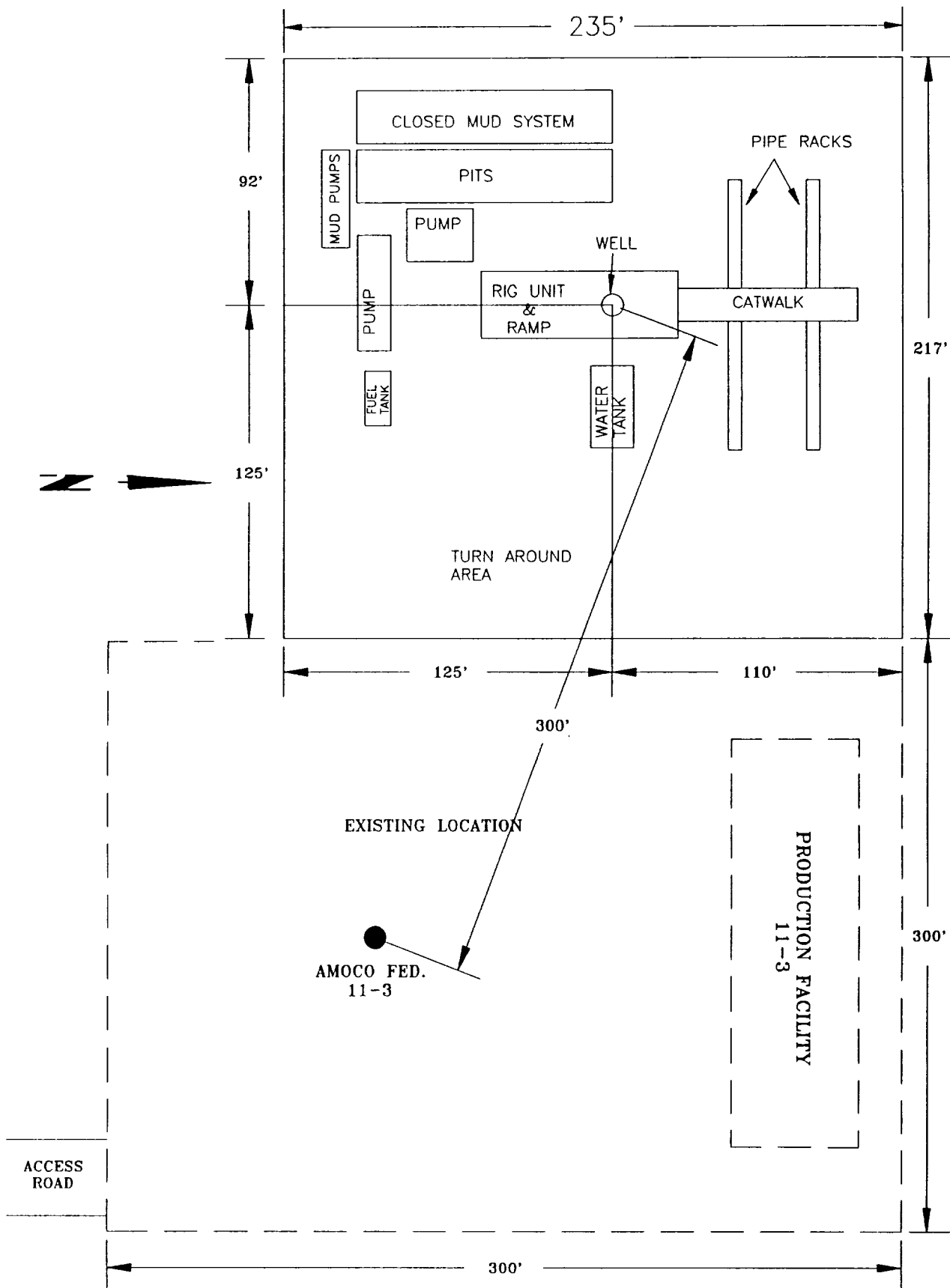
WELL: Amoco Federal #11-5
Road & Location Plat

PLAT #6



Well: Amoco Federal # 11-5

Offset Wells
Plat #7



Amoco Federal #11-5
Location Plat