

UNITED STATES  
DEPARTMENT OF THE INTERIOR

AUG 9 1996

Form approved.  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

Bureau of Land Management  
Durango, Colorado

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 4-20-604-62	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Mountain Utes	
2. NAME OF OPERATOR Amoco Production Company 778 ✓ Patty Haefele		7. UNIT AGREEMENT NAME	
3. ADDRESS AND TELEPHONE NO. P.O. Box 800, Denver, Colorado 80201 (303) 830-4988		8. FARM OR LEASE NAME, WELL NO. Ute Indians A 24 1183 ✓	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface 795' FSL 395' FEL Unit P At proposed prod. zone		9. API WELL NO. 30-045-20418 ✓	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 30 miles from Farmington, New Mexico		10. FIELD AND POOL, OR WILDCAT Ute Dome Dakota 86720 ✓	
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 4200	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 34 Township 32N Range 14W ✓	
17. NO. OF ACRES ASSIGNED TO THIS WELL 180 ✓	18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	12. COUNTY OR PARISH San Juan	
19. PROPOSED DEPTH 2479'	20. ROTARY OR CABLE TOOLS Rotary	13. STATE New Mexico	
21. ELEVATIONS (Show whether DF, RT, GR., etc.) 5929' GR ✓		22. APPROX. DATE WORK WILL START* 09-01-96	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8.75"	7.000" J-55	20#	350'	110 cu.ft. Std. cement, circ to surface
8.25"	4.500" K-55	11.6#	2479'	310 cu.ft 50/50 std cmt, tail w/ 86 cu.ft., circ to surface

Notice of Staking submitted on 7/16/96 as the Ute Indians A #24.

Venting / Flaring approved for 30 days per NTL-4A

Lease Description:

T31N R14W: Sec 2: all, Sec 3: E/2, Sec 10: N/ENE/4, Sec 11: NW/4NW/4

APPROVED FOR A PERIOD NOT TO EXCEED 1 YEAR.

T32N R14W: Sec 25: SW/4 NE/4 & S/2 NW/4 & NW/4 NW/4 & SW/4 & W/2 SE/4  
Sec 26: all, Sec 27: SE/4, Sec 34: all, Sec 35: all, Sec 36: all

Approval of this agreement does not warrant or certify that the operator thereof and other holders of operating rights hold legal or equitable title to those rights in the subject lease which are committed hereto...

SEE ATTACHED  
CONDITIONS OF APPROVAL

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 Patty Haefele TITLE Staff Assistant DATE 8/7/96  
(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: \_\_\_\_\_  
APPROVED BY [Signature] TITLE Area Manager DATE 10-23-96

NSL-3715

\*See Instructions On Reverse Side

NMOCD

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 matter within its jurisdiction.

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer D11, Artesia, NM 88211-0719  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C-102  
Revised February 21, 1994  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number <u>30-045-29418</u>		1 Pool Code 86720		1 Pool Name Ute Dome Dakota	
1 Property Code 1183		1 Property Name UTE INDIANS A			1 Well Number # 24
1 OGRID No. 000778		1 Operator Name AMOCO PRODUCTION COMPANY			1 Elevation 5929

10 Surface Location

UL or lot no. P	Section 34	Township 32 N	Range 14 W	Lot Idn	Feet from the 795	North/South line SOUTH	Feet from the 395	East/West line EAST	County SAN JUAN
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11 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
12 Dedicated Acres 160									
13 Joint or Infill									
14 Consolidation Code									
15 Order No.									

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

16				17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  <u>Patty Haefele</u> Signature Patty Haefele Printed Name Staff Assistant Title 8/7/96 Date	
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. August 1, 1996 Date of Survey Signature and Seal of Professional Surveyor: <u>GARY D. VANDERKAM</u> 7016 7016 Certificate Number				34 395' 795' 1320'	

File No.: utedoms3  
Date: 8/7/98

<b>OBJECTIVE:</b> Exploit strategic Dakota sand locations based on seismic data.				
<b>METHOD OF DRILLING</b>		<b>APPROXIMATE DEPTHS OF GEOLOGICAL MARKER</b>		
<b>TYPE OF TOOLS</b>	<b>DEPTH OF DRILLING</b>	<b>Actual GL-----Estimated KB</b>	<b>5929</b>	<b>5942</b>
Rotary	0 - TD	<b>Marker</b>	<b>Depth (ft.)</b>	<b>SS Elev. (ft.)</b>
<b>LOGGING PROGRAM</b>				
<b>TYPE</b>	<b>DEPTH</b>			
DIL-CAL-GR		Meeuverde	13	5,929
FDC-CNL-4 ARM CALIPER	SFC--TD	Mancos	452	5,490
(triple combo log suite)		Gallup	1,547	4,395
		Greenhorn	1,977	3,985
		Graneros	2,047	3,895
		Dakota	2,097	3,845
		Paguate	2,157	3,785
		Cubero	2,195	3,747
		Basal Dakota	2,297	3,645
		Morrison	2,329	3,613
		<b>TOTAL DEPTH</b>	<b>2,428</b>	<b>3,513</b>
<b>REMARKS:</b>		**Probable completion		
Sour gas monitoring equipment to be installed at rig up with training required of all personnel. Although this well will not penetrate any formations containing sour gas, the adjoining deeper wells or surface equipment may present a hazardous situation.				
<b>SPECIAL TESTS</b>		<b>DRILL CUTTING SAMPLES</b>		<b>DRILLING TIME</b>
<b>TYPE</b>	<b>DEPTH INTERVAL, ETC</b>	<b>FREQUENCY</b>	<b>DEPTH</b>	<b>FREQUENCY</b>
None		None		<b>Geograph</b>
		<b>Remarks:</b>		
<b>Remarks:</b>		Mud Logging Program: Manned logging unit while drilling below surface casing.		
		Coring Program: None		

**REMARKS:**

▪ Use minimum mud weight to control formation pressures.

CASING PROGRAM:				
Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor Surface	350	7"	8 3/4"	1,2/Set casing +/- 50' below Menafee.
Production	2,429	4 1/2"	6 1/4"	1,2/Allow a minimum of 100' rethole below pay zones.
Remarks:				

1. Circulate cement to surface.
2. Drilling Team to design cement programs.

**GENERAL REMARKS:**

Drilling/Engineering Team to design completion program.

**Form 46 Reviewed by:** \_\_\_\_\_

Logging program reviewed by:

<b>PREPARED BY:</b> TerBest/Anderson/Yamasaki/bilyeu	<b>APPROVED:</b> For Production Dept	<b>APPROVED:</b> For Exploration Dept.
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Version No. 1  
7/23/96  
~MEOF68.XLS

## CEMENTING PROGRAM

rn

Version No. 1  
7/23/96  
~MEOF68.XLS

## CEMENTING PROGRAM

rn

Well Name: Ute Indians A-24  
Location: Sec 34, T32N, R14W  
County: San Juan  
State: New Mexico

API No.  
Well Flac  
Formation: Dakota  
KB Elev. (est.) 5942 ft.  
GL Elev. (est.) 5929 ft.

### Casing Program:

Casing String	Est. TVD (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Grade	Thread	TOC (ft.)
Surface	350	8.750	7	J-55	8R, LT&C	Surface
Production	2,479	8.250	4.500	J-55	8R, LT&C	Surface

### Casing Properties:

(No Safety Factor Included)

Casing String	Size (in.)	Weight (lb/ft.)	Grade	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Drift (in.)
Surface	7	20	J-55	3740	2270	234	0.0404	6.331
Production	4.500	11.6	K-55	5350	4960	154	0.0155	3.875

### Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)
0 - 350	Water/Spud	8.5-9.0
350-TD	Mud	8.8-9.0*

### Recommended Mud Properties Prior Cementing:

PV	<20
YP	<10
Fluid Loss	<15

\* Use minimum mud weight to control formation pressures.

### Cementing Program:

	Surface	Production
Excess %, Bit	100	60
Excess %, Caliper	NA	40
BHST (est. deg. F)	80	115
Pipe Movement	NA	Rotate 10 - 20 rpm
Rate, Max. (bpm)	6	6
Rate, Recommended (bpm)	6	6
Pressure, Max. (psi)	200	4000
Shoe Joint	40	40
Batch Mix	NA	NA
Circulating prior cmtng (hr.)	0.5	1.5
Time Between Stages (hr.)	NA	NA
Special Instructions	1,6,7	2,4,6,8

- 1 Do not wash pumps and lines
- 2 Wash pumps and lines.
- 3 Do not reverse out
- 4 Run Blend Test on Cement
- 5 Record Rate , Pressure, and Density on 3.5" disk
- 6 Confirm densometer with pressurized mud scales
- 7 1" cement to surface if cement is not circulated.
- 8 If cement is not circulated to the surface, run temp. survey 10-12 hr. after landing plug.

### Notes:

- \*\*\* Displace top plug on the production casing job with 0.2% Clay Fix II or 2% KCl water.
- \*\*\* Do not wash up on top of plug. Wash pumps and lines. We want to do rigless completions.

## **FEDERAL CEMENTING REQUIREMENTS**

1. All permeable zones containing fresh water and other usable water containing 10,000 ppm or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.
2. The hole size will be no smaller than 1-1/2" larger diameter than the casing O.D. across all water zones.
3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.
4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API Spec 10D.
5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.
6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.

# CEMENTING PROGRAM

## Production

Preflush	20 bbl.	Mud Flush
	20 bbl.	Fresh Water

Lead	50/50 Std Cement/Blended Silicalite	310 cu. ft.
Slurry 1	+ 02% gel (total)	
TOC @ Surface	+ 0.4% Halad-344	
	+ 02% CaCl <sub>2</sub>	
	+ 1/4 lb/sk flocele	
	*** (If significant losses are encountered during drilling add 10 lb./sk total gilsonite to slurry 1)	

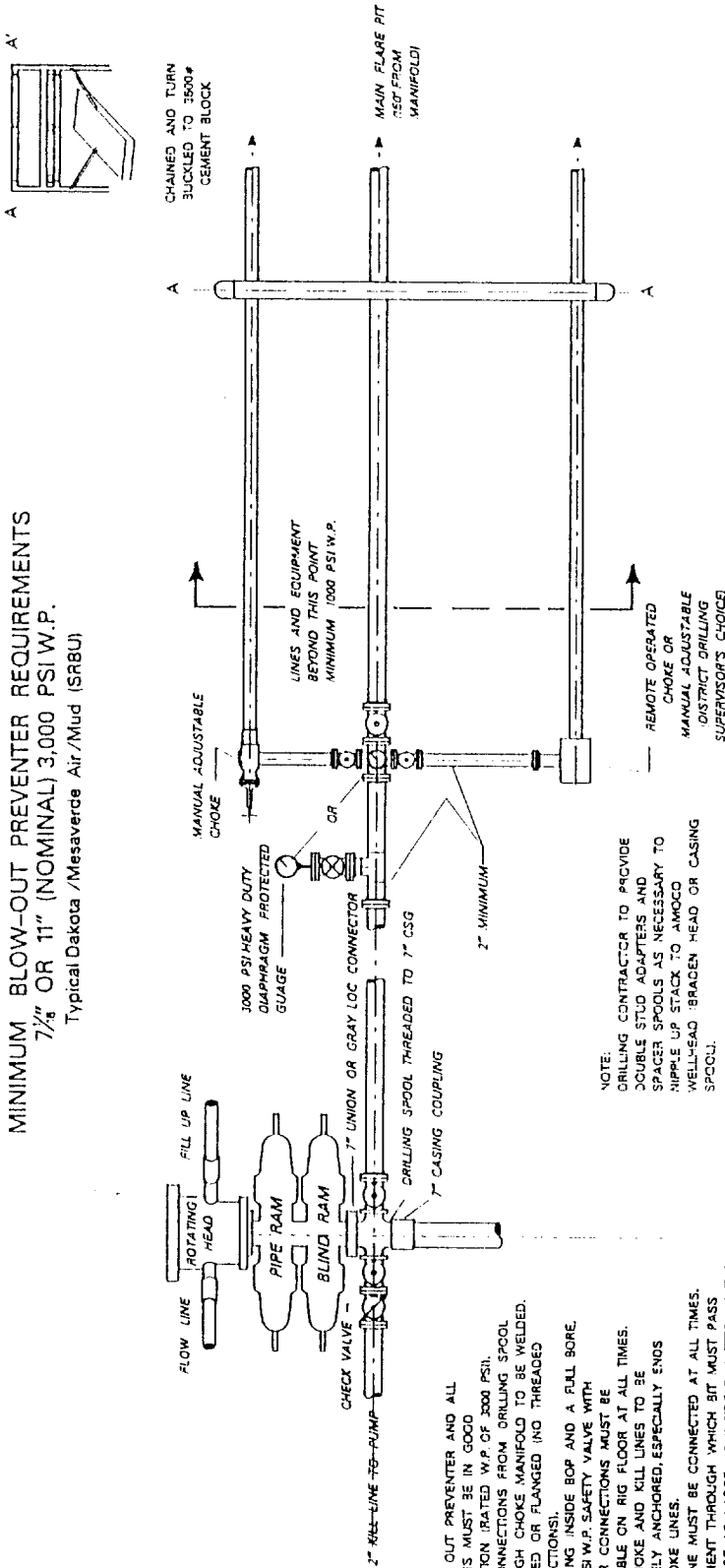
Tail	65 sk	50/50 Std. Cmt/Poz A	86 cu. ft.
slurry 2	(500 ft)	+ 2% gel (total)	
		+ 5 lb/sk gilsonite	
		+ 0.4% Halad-344	
		+ 1/4 lb/sk flocele	

Slurry Properties:	density (lb/gal)	yield (ft <sup>3</sup> /sk)	water (gal/sk)
slurry 1	12.00	2.03	11.45
slurry 2	13.50	1.32	5.59

Casing Equipment: (Halliburton) 4 1/2", 8R, LT&C

- 1 Super Seal II Float Shoe
- 1 Super Seal II Float Collar
- 1 Weld A
- 10 S-4 Fluidmaster Centralizers
- 1 Metal Cement Basket Install at Dakota top.
- 1 Top Rubber Plug
- 2 Limit Clamp

# MINIMUM BLOW-OUT PREVENTER REQUIREMENTS 7 7/8" OR 11" (NOMINAL) 3,000 PSI W.P. Typical Dakota / Mesaverde Air / Mud (SR8U)



NOTE:  
1. CHOKES ASSEMBLY VERTICAL FOR ILLUSTRATION ONLY. SHOULD BE HORIZONTAL ON RIG. ANCHOR ALL LINES SECURELY EVERY 30' AND WITHIN 5' OF END OF LINE.  
2. DRILLING CONTRACTOR TO BE RESPONSIBLE FOR PROVIDING ALL LINES AND VALVES.

NOTE:  
1. ALL UNMARKED VALVES TO BE PULL-OPENING GATE OR PLUG VALVES METAL TO METAL SEAL 3000 PSI W.P.

- NOTE:
1. BLOW OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION (RATED W.P. OF 3000 PSI).
  2. ALL CONNECTIONS FROM DRILLING SPOOL THROUGH CHOKE MANIFOLD TO BE WELDED, CLAMPED OR FLANGED (NO THREADED CONNECTIONS).
  3. A STRING INSIDE BOP AND A FULL BORE, 3000 PSI W.P. SAFETY VALVE WITH PROPER CONNECTIONS MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES.
  4. ALL CHOKES AND KILL LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES.
  5. KILL LINE MUST BE CONNECTED AT ALL TIMES.
  6. EQUIPMENT THROUGH WHICH BIT MUST PASS, SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
  7. MUST HAVE UPPER AND LOWER KELLY COCK ON KELLY.
  8. BLOW-OUT PREVENTER CLOSING EQUIPMENT SHALL HAVE SUFFICIENT CAPACITY TO FULFILL REQUIREMENTS OF CURRENT FEDERAL REGISTAR (43 CFR) DATED NOV. 1998.
  9. NO COLLECTOR BOTTLES, SURGE TANKS OR BUFFER CHAMBERS DOWNSTREAM OF THE CHOKE MANIFOLD.
  10. ALL TURNS TO BE MADE WITH TARGETED TEES (18-24" MIN.) NO BENDS OR SWEEPS IN LINE FROM BOP TO CHOKE MANIFOLD.
  11. IF A FLEXIBLE HOSE IS TO BE USED AS A CHOKE LINE, IT MUST BE APPROVED BY AMOCO PRIOR TO RIGGING UP.
  12. LOCK TO BE INSTALLED ON BLIND RAM CONTROL.

**SAN JUAN BASIN  
Dakota Formation  
Pressure Control Equipment**

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Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 psi, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 psi. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 psi system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 psi rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rigs to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below surface casing (7.000") to total depth in the Basin Dakota. No abnormal temperature, pressures, or H<sub>2</sub>S anticipated.

Equipment Specification

Interval

Below surface casing to total depth

BOP Equipment

11" nominal or 7 1/16", 3000 psi double ram preventer with rotating head.

All ram type preventers and related control equipment will be hydraulically tested to 250 psi (low pressure) and 2000 psi (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock, upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.



# BOP Test Pressure

## Amoco Production Company BOP Pressure Testing Requirements

Lease/Well#: Ute Indians A #24

County: San Juan

State: New Mexico

Formation:	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure**
Mesaverde	13		
Mancos	502		
Gallup	1597		
Greenhorn	2020		
Graneros	2097		
Dakota	2147	930	472
Paguate	2207		
Cubero	2245		
Basal Dakota	2347		
Morrison	2379		

\*\*Note: Determined using the following formula:  $ABHP - (.22 \times TVD) = ASP$

Requested BOP Pressure Test Exception:

750

## **NEW MEXICO MULTIPOINT REQUIREMENTS**

### **1. Existing Roads**

- A. The proposed location is staked as shown on the Certified Plat.
- B. Route and distance from nearest town is identified on the form 3160-3, item #14 (also, see Exhibit A).
- C. Access road(s) to location are identified on Exhibits A and B.
- D. Not applicable unless exploratory well.
- E. All existing roads within one-mile radius of the well site are shown on Exhibit B.
- F. Improvement and/or maintenance of existing roads may be done as deemed necessary for Amoco's operations, or as required by the surface management agency.

### **2. Access Roads**

- A. Width: 18'
- B. Maximum Grades: 5%
- C. Turnouts: none
- D. Drainage will be used as required.
- E. Size and location of culverts, if needed, will be determined at the onsite inspection or during construction.
- F. Surfacing materials may be applied to the proposed road and/or location if the conditions merit it.
- G. Gates and/or cattle guards will be installed at fence crossings if deemed necessary by the land owner or the surface management agency.
- H. The proposed new access road is center-line flagged if applicable

### **3. Location of Existing Wells**

- A-H. All existing wells, to the best of our knowledge, are identified on Exhibit C (9 section plat).

### **4. Location of Existing and/or Proposed Facilities**

- A. All existing facilities owned or controlled by Amoco are shown on Exhibits D and E.
- B. If this proposed well is productive, Amoco will own or have control of these facilities on location: storage tanks, wellhead, production unit, and if applicable, a pump jack and/or compressor. Also there will be buried production lines from the wellhead to the production unit and/or storage tanks. Amoco will submit a Sundry Notice when off-pad plans are finalized.
- C. Rehabilitation, whether the well is productive or not, will be made on all unused areas in accordance with surface owner or manager approval.

## **5. Location and Type of Water Supply**

A. Water will be obtained from a privately permitted water source secured through a contract water hauling company. It will be hauled in vacuum trucks via the access road (Exhibit A). The appropriate permits for this activity have been obtained by the water transporter.

## **6. Source of Construction Materials**

A. - D. No off-site materials will be needed to build the proposed location or access road.

## **7. Methods of Handling Waste Disposal**

A. A closed loop mud system will be used during drilling operations. All drill cuttings will be trenched, and buried on location. Drilling fluids will be stored for reuse or disposed of at an approved disposal facility. A reserve pit for produced water containment will be constructed during completion operations. The reserve pit will be fenced on three sides and the 4th side will be fenced upon removal of the rig. The pit will be allowed to sit for 90 days and then pulled as required by NTL-2B. Produced water will be disposed of at an approved injection well or an evaporation site. Sanitary facilities and a steel mesh portable trash container will remain on location throughout drilling operations and will then be removed to a designated disposal area. The well site will be properly cleaned upon removal of the rig.

## **8. Ancillary Facilities.**

A. To the best of our knowledge, no ancillary facilities will be needed at this time.

## **9. Well Site Layout**

A-C. Cross-sections, etc. - See Exhibit D. Exact location of rig related equipment will be determined when Amoco contracts a drilling rig; however, all this equipment will be contained on location. The location diagram reflects actual area of well pad. Total disturbed area will vary due to cut and fill slopes.

Note: We plan on drilling this well without a pit, however, if a reserve pit is required, it will be lined.

D. Reserve pit(s):

Unlined \_\_\_\_\_

Lined X (8-10 mil reinforced plastic, size sufficient to cover pit area and fit underneath a rig tank.)

## **10. Plans for Restoration of Surfaces**

A. Restoration of the surface will be conducted after the reserve pit has dried. The pit will then be cleaned up and back filled and the entire disturbed area will be re-contoured. The topsoil stockpile will then be uniformly placed over this area and reseeding of the site will be carried out as instructed by the appropriate management agency. Methods to protect against erosion will be employed. After final abandonment, additional restoration efforts will be applied.

## **11. Surface Ownership**

A. The surface owner is: Mountain Utes .

## 12. Other Information

### A. General Description

1. Archeological clearance, topography, soil character, and flora and fauna are detailed in the archeologist's report forwarded by an approved contract archaeologist to the appropriate management agency.
2. Land uses include recreation, grazing and oil and gas development.

## 13. Operator's Representative and Certification

Amoco Production Company  
Glen H. Cotten  
Drilling Superintendent  
P.O. Box 800  
Denver, Colorado 80201-0800

(303) 830-4500

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 presently exist; that the statements made in this 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 AMOCO PRODUCTION COMPANY and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

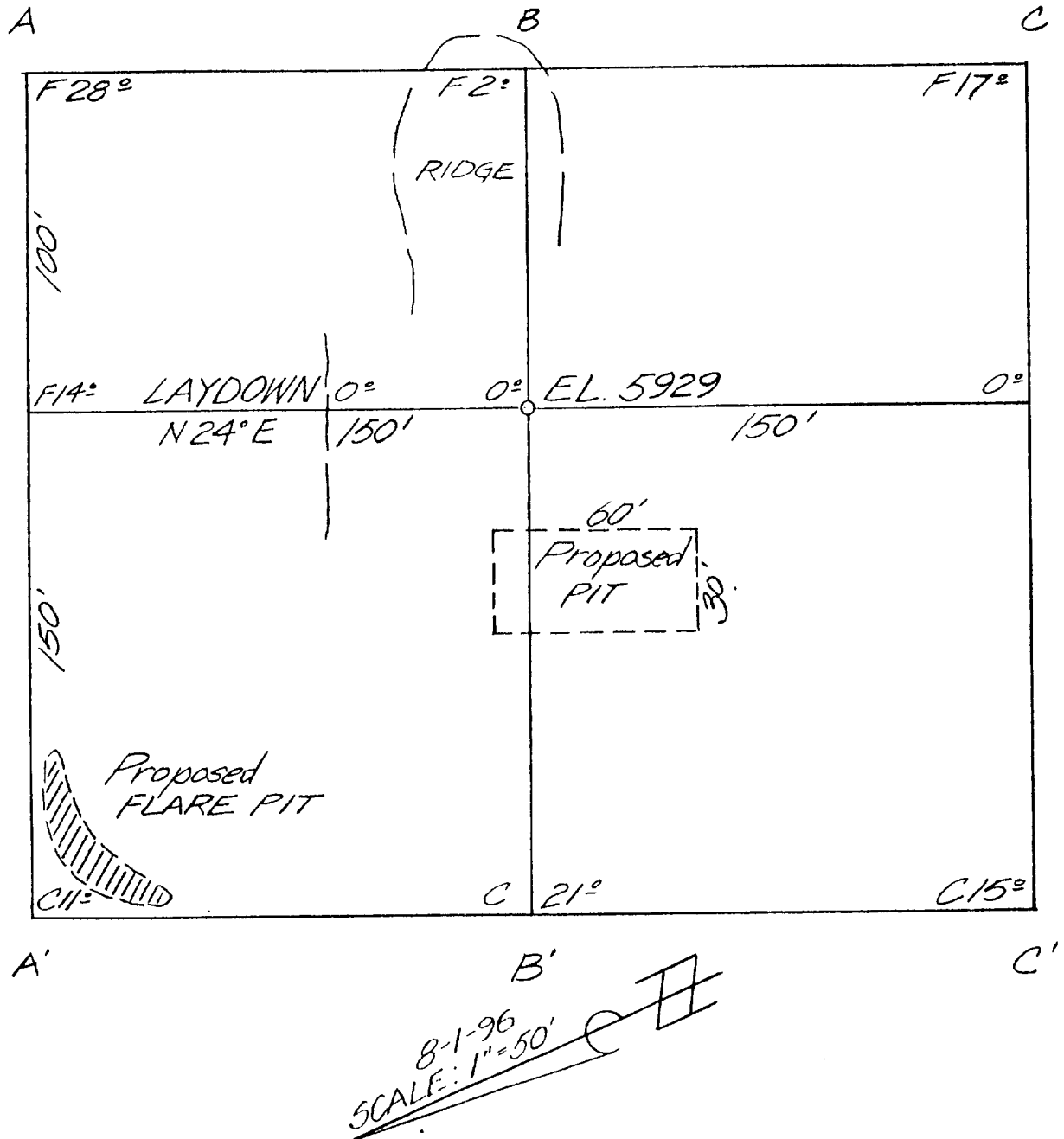
Date: \_\_\_\_\_

*Glen H. Cotten*

Glen H. Cotten, Drilling Superintendent



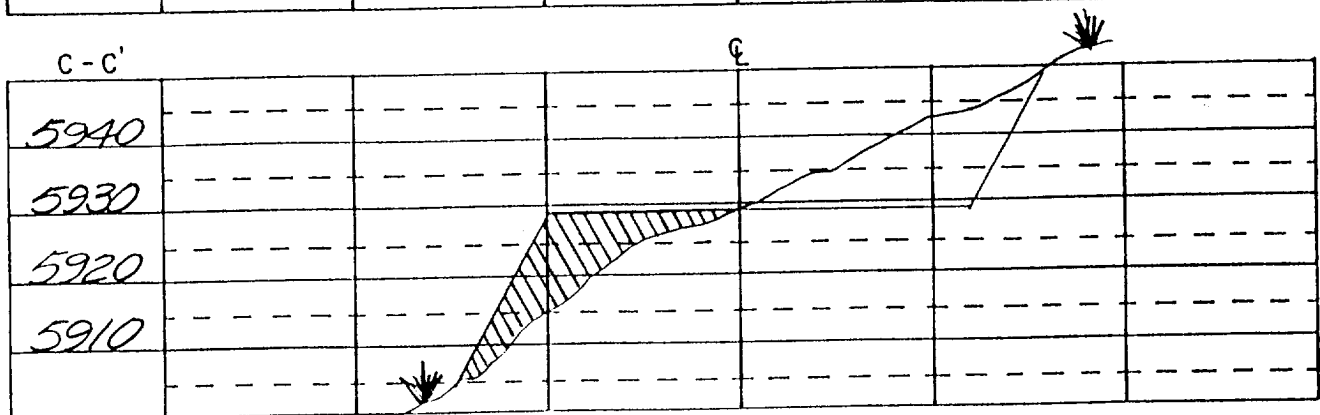
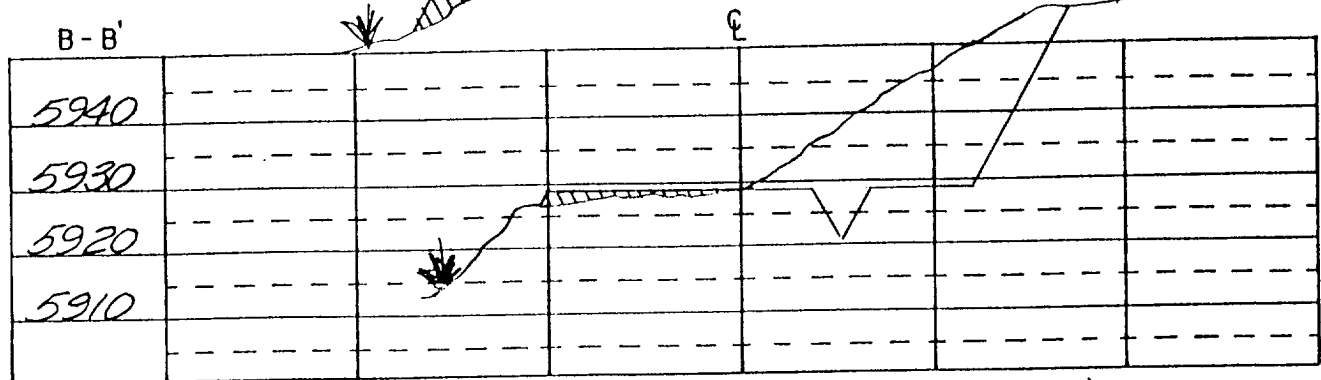
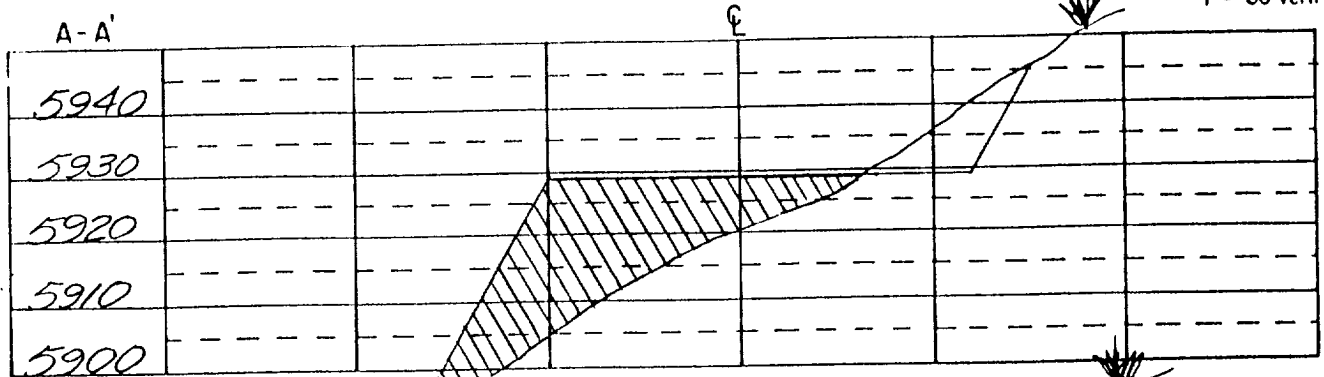
AMOCO PRODUCTION COMPANY  
 UTE INDIANS A #24  
 795' F/SL 395' F/EL  
 SEC. 34, T 32 N, R 14 W, N.M.P.M.  
 SAN JUAN COUNTY, NEW MEXICO

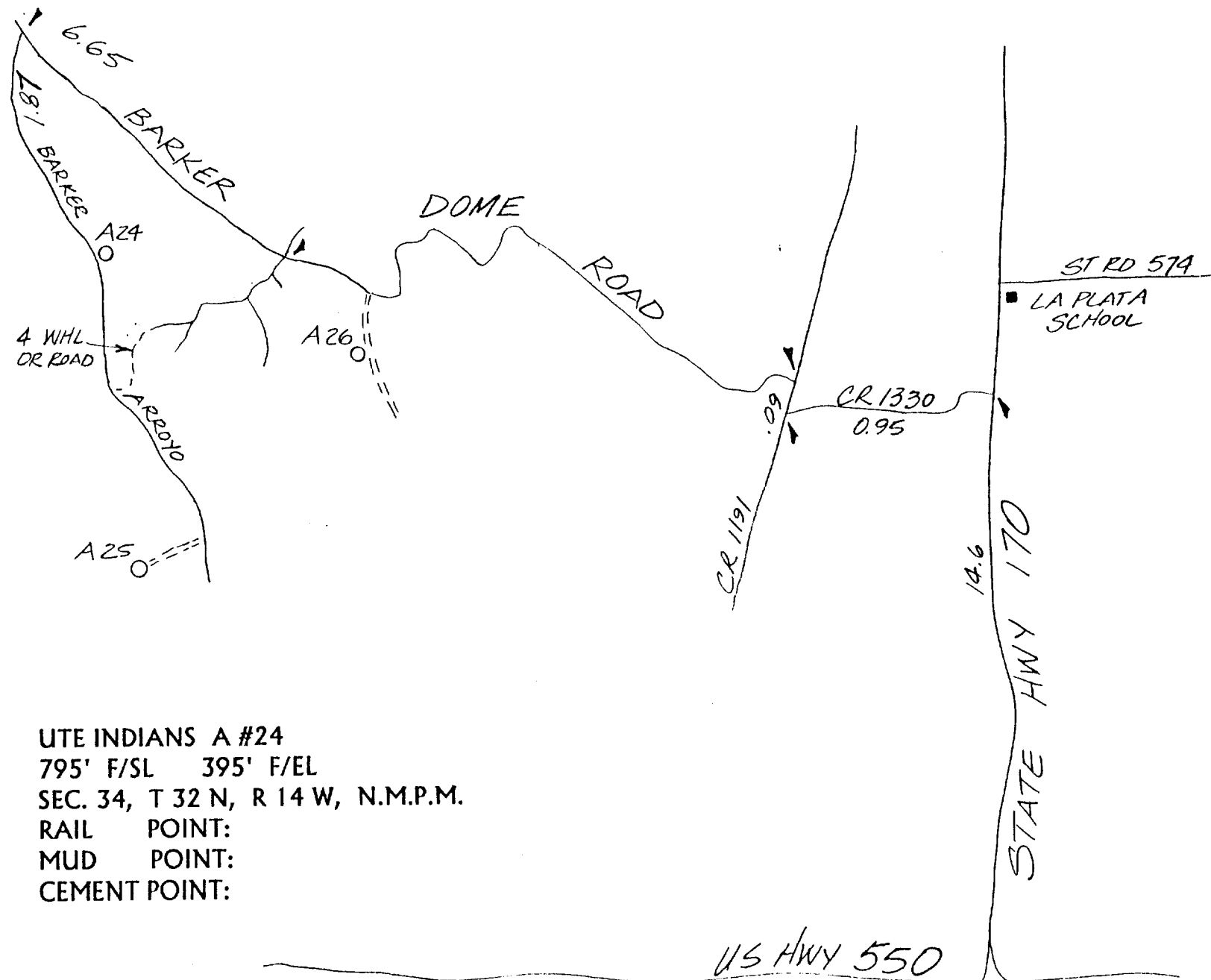
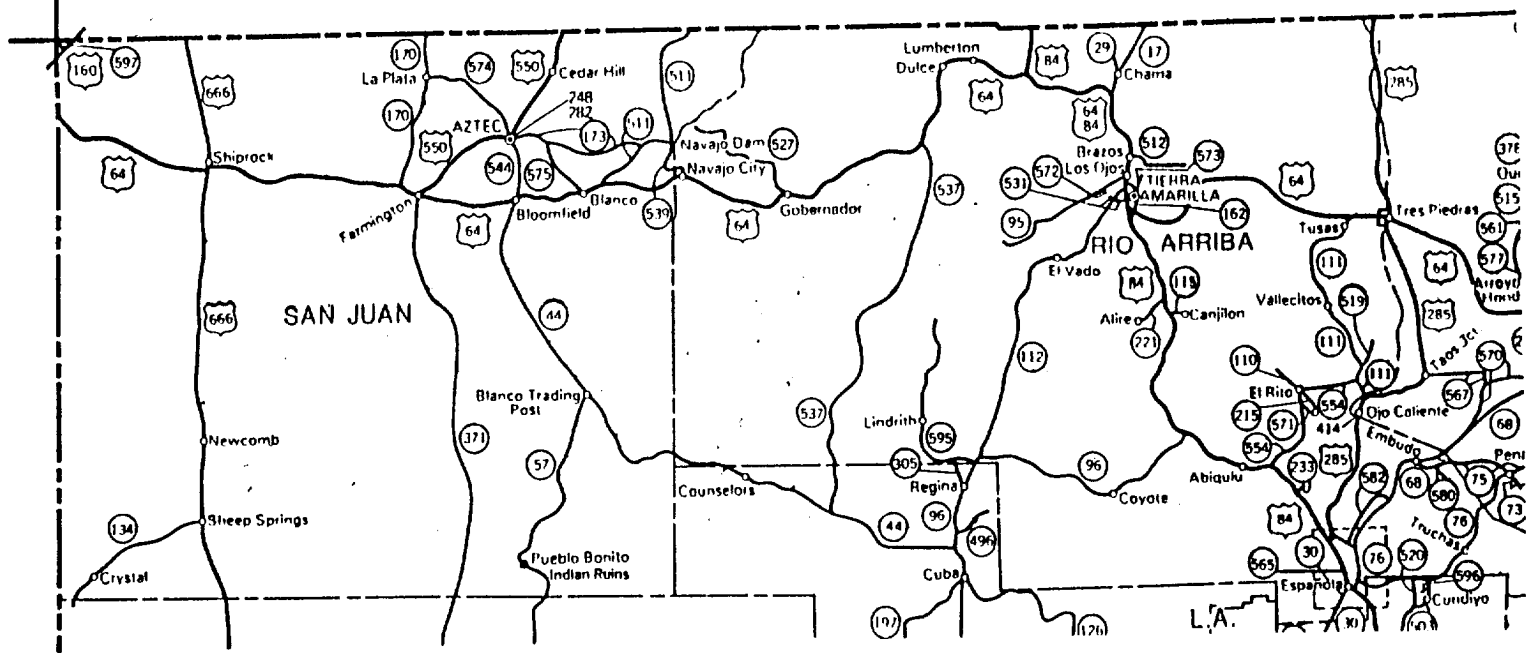


NOTE: Contractor should call 1-800-321-2537 for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 days prior to construction. Cuts and fills are approximate and are to be field adjusted to balance.

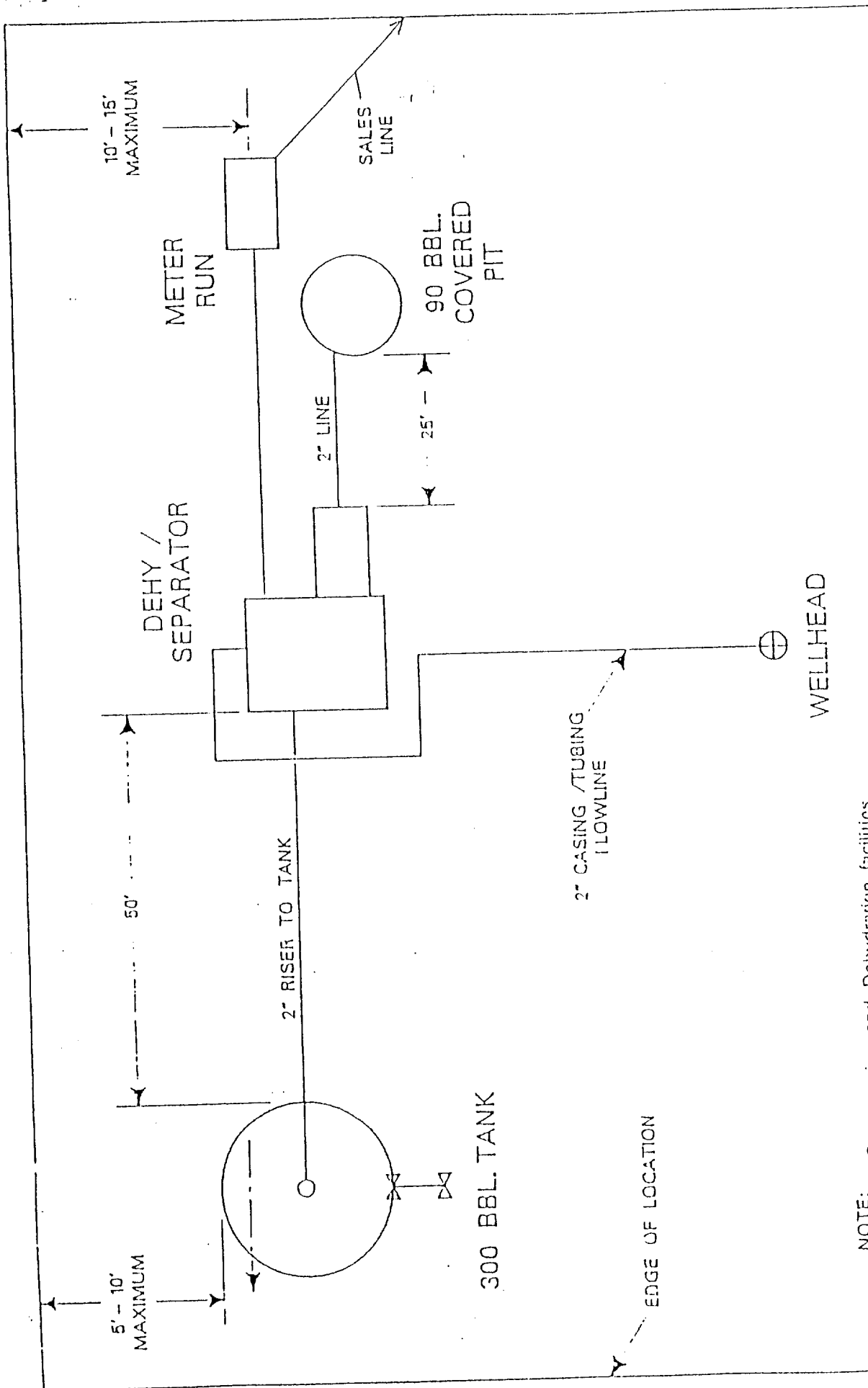
AMOCO PRODUCTION COMPANY  
 UTE INDIANS A #24  
 795' F/SL 395' F/EL  
 SEC. 34, T 32 N, R 14 W, N.M.P.M.  
 SAN JUAN COUNTY, NEW MEXICO

SCALE: 1" = 100' Horiz.  
 1" = 30' Vert.









NOTE: Compression and Dehydration facilities will be added as required for wellsite production constraints.

SITE SCHEMATIC  
SAN JUAN OPERATIONS CENTER  
SAN JUAN, NEW MEXICO

12 / 20 / 94

12.29.13 THUR 8 AUG, 1996 JOB-P1109502, 13500 DISPLA 10.0

13,426,706.52 FT. N  
36° 57' 55" N

13,426,706.52 FT. N  
36° 57' 55" N

992,054.61 FT. E  
108° 19' 23" W

1,007,335.39 FT. E  
108° 16' 7" W

992,060.14 FT. E  
108° 19' 23" W

1,007,339.86 FT. E  
108° 16' 7" W

36° 55' 20" N  
13,411,007.09 FT. N

36° 55' 20" N  
13,411,007.09 FT. N

All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

AMOCO PRODUCTION COMPANY  
PLAT MAP  
Ute Indians /A/ 24  
Dakota

SCALE 1 IN. = 2,000 FT. AUG 8, 1996

POLYCONIC CENTRAL MERIDIAN - 108° 17' 45" W LONG  
SPHEROID - 6

Amoco Production Company  
14-20-604-62  
Ute Indians A #24  
Sec. 32, T. 32 N., R. 14W.  
San Juan County, New Mexico

**Conditions of Approval - Drilling Plan**

1. Verify top of cement if cement does not circulate to surface on the 7" casing string.
2. Notify this office at least 24 hours prior to:
  - a. spudding the well
  - b. running casing strings and cementing
  - c. BOP tests
3. All BOP tests will be performed with a test plug in place. BOP will be tested to full stack working pressure and annular preventer to 50% maximum stack working pressure. All accumulators will be function tested as per Onshore Order #2. All 2M or greater systems require **adjustable** chokes as per Onshore Order #2.
4. There is a potential that the surface casing shoe being set at 350' may be in the Menefee Coal. Adjust setting depth to avoid this situation. Call BLM if this situation arises for change of setting depth approval: Dan Rabinowitz @ 970-385-1363.
5. Submit logs in both paper and log ASCII Standard (LAS) formats.