Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

RECEIVED
SEP 8 1998
OIL CON. DIV.
DIST. 3

5. Lease Designation and Serial No.: NOO-C-14-20-3610

6. If Indian, Allottee or Tribe Name: Allottee

7. If Unit or CA, Agreement Designation:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.: Hu Ne Pah 1E

2. Name of Operator: Cross Timbers Operating Company

9. API Well No.: 30-045-29682

3. Address and Telephone No.: 6001 Highway 64, Farmington, New Mexico 87401 (505) 632-3200

10. Field and Pool, or Exploratory Area: Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1190' FSL & 1180' FWL, Section 10-25N-11W, Unit M

11. County or Parish, State: San Juan, NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Change of Operator	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The following change of operator is effective January 1, 1998 for the well listed above.

Old Operator: Amoco Production Company

New Operator: Cross Timbers Operating Company
6001 Highway 64
Farmington, New Mexico 87401

Cross Timbers Operating Company, the operating subsidiary of Cross Timbers Oil Company, assumes operations of the above listed well operating under Nationwide Bond No. 58-15-00.

ACCEPTED FOR RECORD
SEP 1 1998
FARMINGTON INDIAN MINERALS OFFICE
BY M. L. Duywater

14. I hereby certify that the foregoing is true and correct

Signed Edwin S. Ryan, Jr. Title Land Manager - Western US Date August 31, 1998

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

*See Instruction on Reverse Side

BLM COPY

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(June 1990)

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT - " for such proposals

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name
NOO-C-14-20-3610

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
Hun Ne Pah #1E

2. Name of Operator
Amoco Production Company

Attention:
Diane Banning

9. API Well No.

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201

10. Field and Pool, or Exploratory Area
Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1190' FSL 1180' FWL Sec. 10 T 25N R 11W

11. County or Parish, State
San Juan County New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Surface Disturbance	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company requests approval for surface disturbance on existing lease for the purpose of laying a natural gas pipeline from the specified wellhead to the El Paso Natural Gas Company. See attached for location specifics.

Please contact Diane Banning at (303) 830-4546 for questions on this notice.

An environmental assessment and archaeological report for this project area has previously been submitted for consideration.

A land survey and 7.5 quadrangle topo map is located in the enclosed.

14. I hereby certify that the foregoing is true and correct

Signed Diane B. Banning Title Well Tie Coordinator Date 02-03-1995

(This space for Federal or State office use)

Approved by /S/ Duane W. Spencer Title _____ Date SEP 03 1998

Conditions of approval, if any:

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, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

NMOCD

SURFACE DISTURBANCE REQUIREMENTS ATTACHMENT
Hun Ne Pah #1E
SW/4 SW/4 Sec. 10, T25N, R11W
San Juan County, New Mexico

1) Type of Pipe to be used: 4 1/2" X-42 OD .156

2) Size of Pipe: 4 1/2" OD

3) Length of Line: 3142' (wellhead to pipeline)

4) Direction Line Will Run From Well and Where it Will End:

   From the wellpad in a Northeasterly direction 1572' to El Paso Natural Gas Company tie-in, both points located in the SW/4 of Section 10. Line will parallel existing road.

5) The El Paso Natural Gas tie-in point is noted on the enclosed topo map.

6) Method or Trenching: Backhoe

7) Trench Width and Depth: Width = 30"
   Depth = 60"

8) The Trench will be backfilled immediately.

9) The disturbed area will be compacted, re contoured, maintained to control settling and erosion.

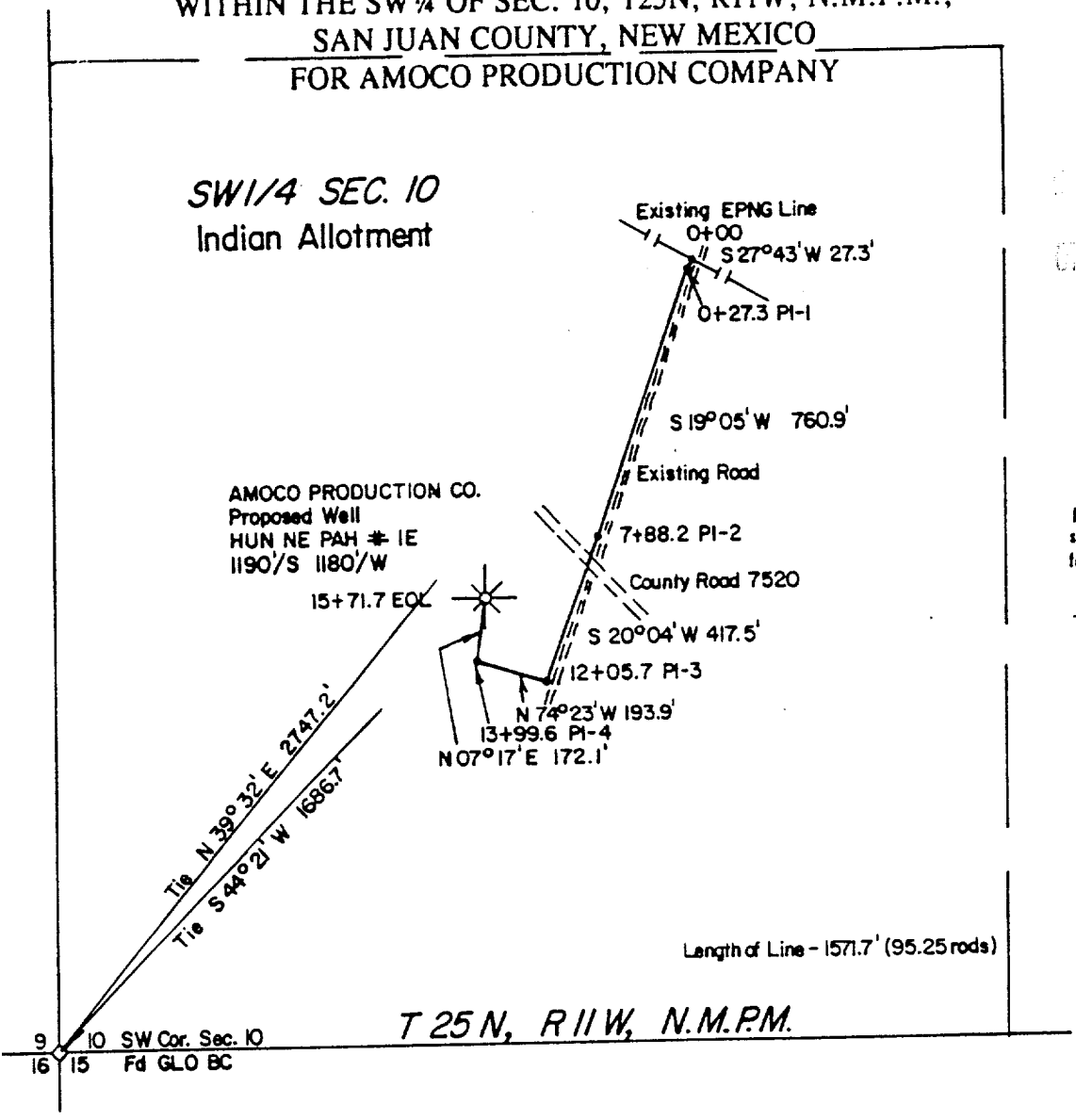
10) The surface area disturbed will be reseeded where applicable with a seed mix approved by the BLM. The reclamation will be completed by 11/1/95 if connected by 6/1/95.

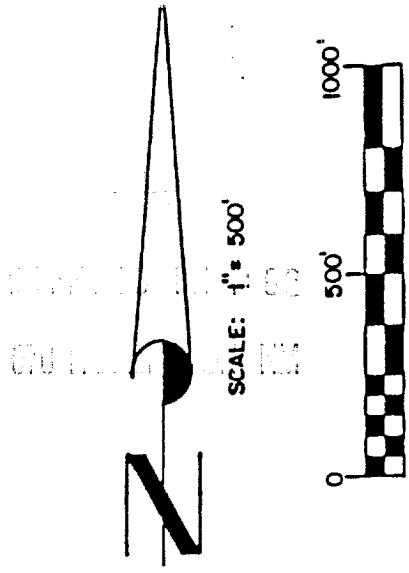
11) Individual who can be contacted for any necessary field inspections is Diane Banning (303) 830-4546.

12) Attached is a 7 1/2 minute quadrangle topo map showing the proposed line.

13) An Archaeological Survey and Environmental survey covering the proposed surface disturbance is attached. These were also previously submitted to the BLM.

CENTERLINE SURVEY OF PROPOSED PIPELINE TO HUN NE PAH # 1E WITHIN THE SW¼ OF SEC. 10, T25N, R11W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO FOR AMOCO PRODUCTION COMPANY





I, Gary D. Vann, hereby certify that this plat was prepared from field surveys made by me or under my supervision and complies with the minimum standards for land surveying in New Mexico.

Gary D. Vann
Registered L. S. # 7016
State of New Mexico

GARY D. VANN
NEW MEXICO
7016
REGISTERED PROFESSIONAL LAND SURVEYOR

VANN SURVEYS
304 N. Locke
Farmington, NM 87401

NOTE: All distances shown are horizontal. Only apparent and visible line crossings are shown. Contractor should call 1-800-321-2537 for location of any marked or unmarked buried pipelines or cables prior to construction.

DATE SURVEYED: January 13, 1995
Basis of Bearing: Solar Observation
Well Name: HUN NE PAH # 1E

Form 3160-3
(December 1990)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.: NOO-C-14-20-3610

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME, WELL NO.: HUN NE PAH #1E

2. NAME OF OPERATOR: Amoco Production Company — Attention: Julie L. Acevedo

9. API WELL NO.:

3. ADDRESS AND TELEPHONE NO.: P.O. Box 800, Denver, Colorado 80201 (303) 830-6003

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1190FSL 1180FWL
At proposed prod. zone:

ENTERED
AFMSS
AUG 31 1998

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 10 Township 25N Range 11W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 31 Miles from Aztec, N.M.

BY MJ

12. COUNTY OR PARISH: SAN JUAN

13. STATE: NEW MEXICO

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: 160

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320 W/2

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

19. PROPOSED DEPTH: 6154' TD

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6475' GR

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.

22. APPROX. DATE WORK WILL START*: 03-15-95

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8.75"	7" J-55	23#	250'	100sx Cl B Cmt to Surface
6.25"	2.875" N-80	6.5#	6154'	1198 Cu. Ft. Cl B Cmt to Surface

Notice of Staking submitted as the HUN NE PAH #1E on 12/21/94

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

Lease Description T25N-R11W: Section 10: SW/4 containing 160 acres, more or less.

RECEIVED
BLM
96 OCT 22 PM 1:17
070 FARMINGTON, NM

070 FARMINGTON, NM
96 OCT 22 PM 1:19
RECEIVED
BLM

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 Julie L Acevedo TITLE Sr. Staff Assistant DATE 12-21-1994

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE SEP 03 1998

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 _____ TITLE _____ DATE _____

35434

*See Instructions On Reverse Side

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 DD, 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

[5] AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	71599	Basin Dakota

[4] Property Code	[5] Property Name	[6] Well Number
	HUN NE PAH	#1E

[7] OGRID No.	[8] Operator Name	[9] Elevation
00778	AMOCO PRODUCTION COMPANY	6475

[10] Surface Location

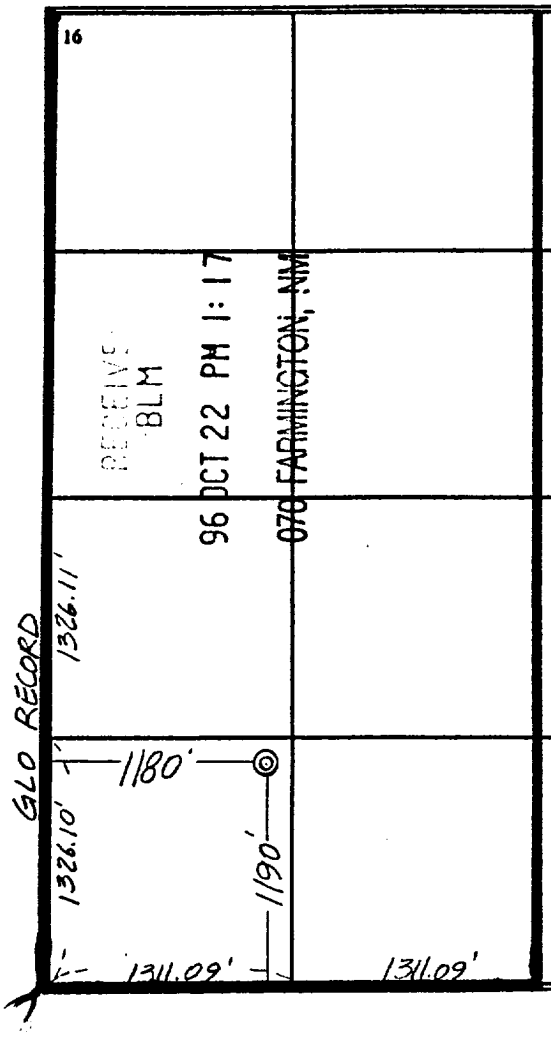
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	25 N	11 W		1190	SOUTH	1180	WEST	SAN JUAN

[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	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320			

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



[17] OPERATOR CERTIFICATION

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

Signature

Julie L. Acevedo
Printed Name

Sr. Staff Assistant
Title

12/21/94
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.

November 21, 1994
Date of Survey

Signature and Seal of Professional Surveyor:

GARY D. VANN
NEW MEXICO
7016
REGISTERED PROFESSIONAL LAND SURVEYOR

7016
Certificate Number

Version No. 1
i 2/20/94
656A1.XLS

CEMENTING PROGRAM
Hun Ne Pah #1E

blp

Well Name:	Hun Ne Pah #1E	Field:	Basin Dakota
Location:	1190' FSL X 1180' FWL, Sec 10, T25N, R11W	API No.	
County:	San Juan	Well Flac	
State:	New Mexico	Formation:	Dakota
		KB Elev. (est.)	6488 ft.
		GL Elev. (est.)	6475 ft.

Casing Program:

Casing String	Est. Depth (ft.)	Hole Size (in.)	Casing Size (in.)	Casing Weight (lb/ft.)	Casing Grade	Thread	TOC (ft.)
Surface	250	8.75	7.000	23	J-55	8R, LT&C	Surface ✓
Production	6,154	6.25	2.875	6.5	N-80	8R, EUE	Surface ✓

Casing Properties: (No Safety Factor Included)

Casing String	Casing Weight (lb/ft.)	Burst (psi.)	Collapse (psi.)	Joint St. (1000 lbs.)	Capacity (bbl/ft.)	Torque(ft. lbs.) Opt/Min/Max	Drift (in.)
Surface	23	4360	3270	313	0.0393		6.241
Production	6.4	10570	11160	144	0.00579		2.347

Mud Program:

Apx. Interval (ft.)	Mud Type	Mud Weight (lb/gal)
0 - SCP	Spud	8.6-8.8
SCP - TD	LSND	8.8-9.2

Recommended Mud Properties Prior Cementing:

PV	<20
YP	<10
Fluid Loss	<15

Cementing Program:

	Surface	Production(foam)
Excess %, Bit	75	60
Excess %, Caliper	NA	15
BHST (est. deg. F)	60	160
Pipe Movement	NA	Rotate 10-20 rpm
Rate, Max. (bpm)	1 truck	6
Rate, Recommended (bpm)	8	4
Pressure, Max. (psi)	200	2000
Shoe Joint	40'	80
Batch Mix	NA	NA
Circulating prior cmtng (hr.)	0.5	2
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 rig less completions.

CEMENTING PROGRAM
Hun Ne Pah #1E

Surface:

Preflush	20 bbl.	Fresh Water + dye marker	
Slurry 1 TOC@Surface	100 sk	Standard Cement + 2% CaCl2 + 1/4 lb/sk flocele	95 cu. ft.

Slurry Properties:	density (lb/gal)	yield (ft3/sk)	water (gal/sk)
slurry 1	15.60	1.18	5.20

Casing Equipment: (Halliburton) 7", 8R, ST&C

1 Type M Guide Shoe
1 Insert Float w Auto Fill
1 Weld A
3 S-4 Centralizer
1 Top Wooden Plug

CEMENTING PROGRAM
Hun Ne Pah #1E

Production: (Foam Cement)

Preflush	20 bbl.	Mud Flush + dye marker + 150 scf/bbl nitrogen	
	40 bbl.	Fresh Water + 150 scf/bbl nitrogen	
Lead Cement Slurry 1		50/50 Std. Cmt/Poz A + Nitrogen + 2% gel (total) + 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk flocele	966 cu. ft.
Tail Cement Slurry 2 TOC@5500		50/50 Std. Cmt/Poz A + 2% gel (total) + 5 lb/sk gilsonite + 0.4% Halad-344 + 1/4 lb/sk flocele	132 cu. ft.
Top Out Cement Slurry 3	85 sk	Standard Cement + 2% Calcium Chloride	100 cu. ft.

Slurry Properties:

	surf. density (lb/gal)	foam density (lb/gal)	surf. yield (ft3/sk)	foam yield (ft3/sk)	water (gal/sk)	nitrogen rate (scf/bbl)	depth of fill (ft)
slurry 1	13.50	10.00	1.32	1.82	5.59	150	500 - 2500
slurry 1	13.50	10.00	1.32	1.78	5.59	300	2500 - 4000
slurry 1	13.50	10.00	1.32	1.77	5.59	430	4000 - 5500
slurry 2	13.50	NA	1.32	NA	5.59	NA	5500 - TD
slurry 3	15.60	NA	1.18	NA	5.20	NA	0 - 500

Note: The job should be pumped at 6 bpm max FOAM rate. Do not exceed 6 bpm on displacement. Slow to 2 bpm for the last 25 bbl of displacement. Displace with 2% KCl or 0.2% Clay Fix II water. This is to be a rigless completion.

Casing Equipment: Halliburton 2 7/8", 8R, EUE, (no need to cut long pin)

1 Super Seal II Float Shoe
25 S-4 Fluidmaster Centralizer 1st 10 centralizers. everyother joint, then one every 10 joints, 1 above and below the Ojo Alamo
1 Lock Clamp
1 Weld A
1 Omega Latch Down Plug and Baffle

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.

AMOCO PRODUCTION COMPANY
DRILLING PROGRAM

File No.: Hunnep1a.xlw
Date: 12/19/94

Lease: Hun Ne Pah
County: San Juan County, New Mexico
Former name:
Well No. #01E
Surface Location: 1190' FSL & 1180' FWL of Section 10, T25N, R11W
Field: Basin Dakota

OBJECTIVE: Develop Dakota Gas formation.

METHOD OF DRILLING
TYPE OF TOOLS: Rotary
DEPTH OF DRILLING: Ground Level - TD

LOGGING PROGRAM
TYPE: SP-GR-Cal-HRI-SDL-DSN (Triple Combo)
DEPTH: Minimum run required

REMARKS:

SPECIAL TESTS
TYPE: None
DEPTH INTERVAL, ETC

Remarks:

APPROXIMATE DEPTHS OF GEOLOGICAL MARKER

Actual GL——Estimated KB		8475	8488
	Marker	Depth (Ft)	SS Elev. (ft.)
	Ojo Alamo	458	6,030
	PC	1388	5,100
	Lewis Shale	1588	4,900
	Cliff House	2,843	3,645
	Menefee Shale	2,908	3,580
	Point Lookout	3,838	2,650
	Mancos	4,113	2,375
	Gallup	4,688	1,800
	Greenhorn	5,764	724
	Dakota **	5,854	634
	TOTAL DEPTH	6,154	334

* Possible pay
**Probable completion
Ojo Alamo is possible usable water

DRILL CUTTING SAMPLES
FREQUENCY: DEPTH:

DRILLING TIME
FREQUENCY: Geolograph
DEPTH: Int - TD

Remarks:
Mud Logging Program: None
Coring Program: None

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/g	Vis, sec/qt	W/L, cc's/30 min.
0 - 250'	Spud			
250' - Mancos (1)	Water	8.8 - 9.0	Sufficient to clean hole	N/C
Mancos - TD (2) (3	LSND	8.8 - 9.2	Sufficient to clean hole and run logs	As required

REMARKS:
1 - The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate sweep frequency.
2 - Mud up at the top of the Mancos Shale.
3 - Sweep the hole as necessary.

CASING PROGRAM:

Casing String	Estimated Depth	Casing Size	Hole Size	Landing Point, Cement, Etc
Conductor				
Surface	250'	7"	8.75"	1
Production	6,154	2-7/8"	6.25"	1, 2

Remarks:
1 - Circulate cement to surface.
2 - Production cement to be designed by Denver drilling staff.

GENERAL REMARKS:

Business Unit Engineering staff to design completion program.

Form 46 Reviewed by:
Logging program reviewed by:

PREPARED BY:	APPROVED:	APPROVED:
P. Edwards/Logan/Ovitz		
Form 46 7-84bw 12/20/94 14:11	For Production Dept	For Exploration Dept.

SAN JUAN BASIN
DAKOTA FORMATION
PRESSURE CONTROL EQUIPMENT

Background

The objective Dakota formation maximum surface pressure is anticipated to be 1400 PSI, based on completion testing. 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 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 to total depth. No abnormal temperature, pressure or H_2S anticipated.

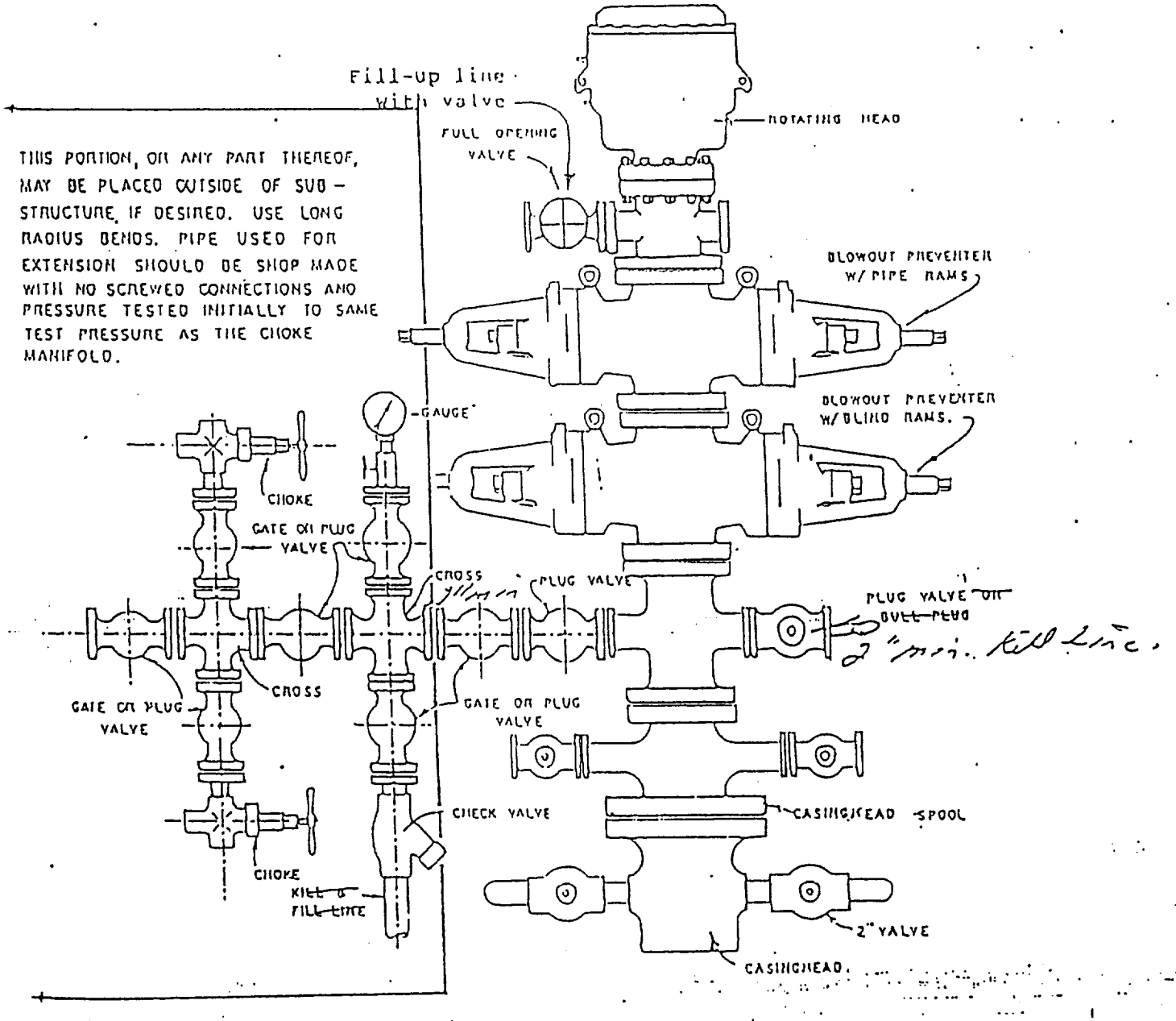
Prior to drilling below intermediate casing, a modified two (2) double ram pressure control equipment system will be installed. This system is designed for Dakota formation interval drilling with air and water. A service unit will typically be used to drill this interval, and the wellbore will be completed as an uncased open hole if commercial productivity is established. If not, the wellbore will be cased and cemented with a 4 1/2" contingency liner. Based upon maximum surface pressure criteria, 2000 PSI equipment is required. However, as stated above, 3000 PSI working pressure equipment will typically be utilized. The No. 3 pipe ram in Exhibit 2 will be 4 3/4" if 4 3/4" drill collars are run in the bottom hole assembly. Per John Acevedo 1/9/95

Equipment Specification

Interval	BOP Equipment
Below Surface Casing to Total Depth	12" nominal, 3000 PSI double ram preventer with 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, floor safety valved and choke manifold which will also be tested to equivalent pressure.

1. Upper kelly cock valve, with handle will be utilized.
2. There will be safety valves and subs to fit all drill strings in use.



BLOWOUT PREVENTER HOOKUP

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: 8%.

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.

D. Reserve pit(s):
Unlined ✓
Lined _____ (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 BLM.

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

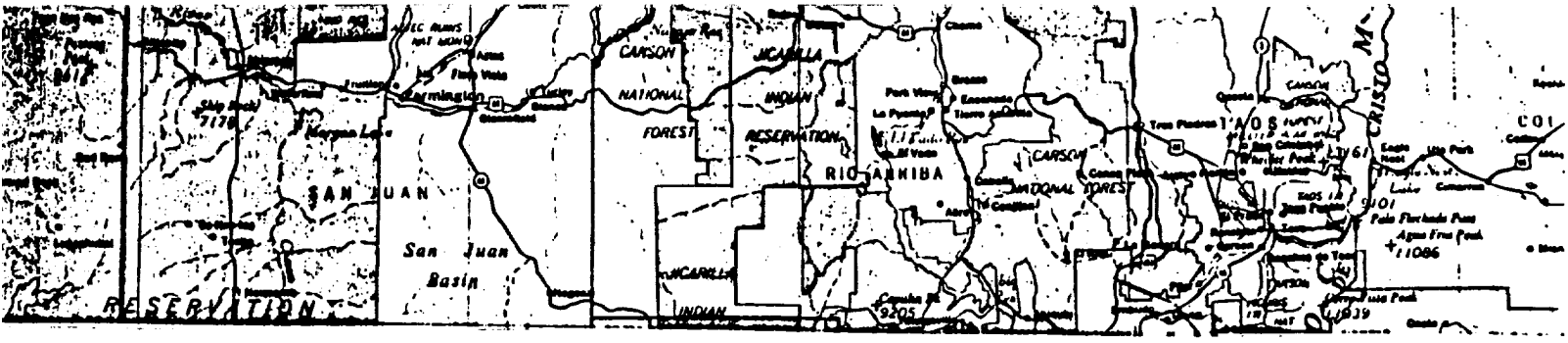
Amoco Production Company
Kurt W. Unger
Drilling Superintendent
P.O. Box 800
Denver, Colorado 80201-0800

(303) 830-6036

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: 19 Dec '94 Kurt W. Unger

Kurt W. Unger, Drilling Superintendent



SW 10 - 25 - 11 DK
1190' F/SL 1180' F/WL
SEC. 10, T25N, R11W, N.M.P.M.
RAIL POINT: 174 miles from Montrose, Co.
MUD POINT: 31 miles from Aztec, N.M
CEMENT POINT: 35 miles from Farmington, N.M

AZTEC
14.0
9.0
13.0
BLOOMFIELD
FARMINGTON
STATE ROAD 44
12.44
CR 7150
CR 7115
CARSON TRADING POST
CR 1300
CR 7150
9.89
NEW ROAD (300'+)
0.18
0.06
CR 7520
SW 10-25-11 DK

PROFILE FOR

AMOCO PRODUCTION COMPANY

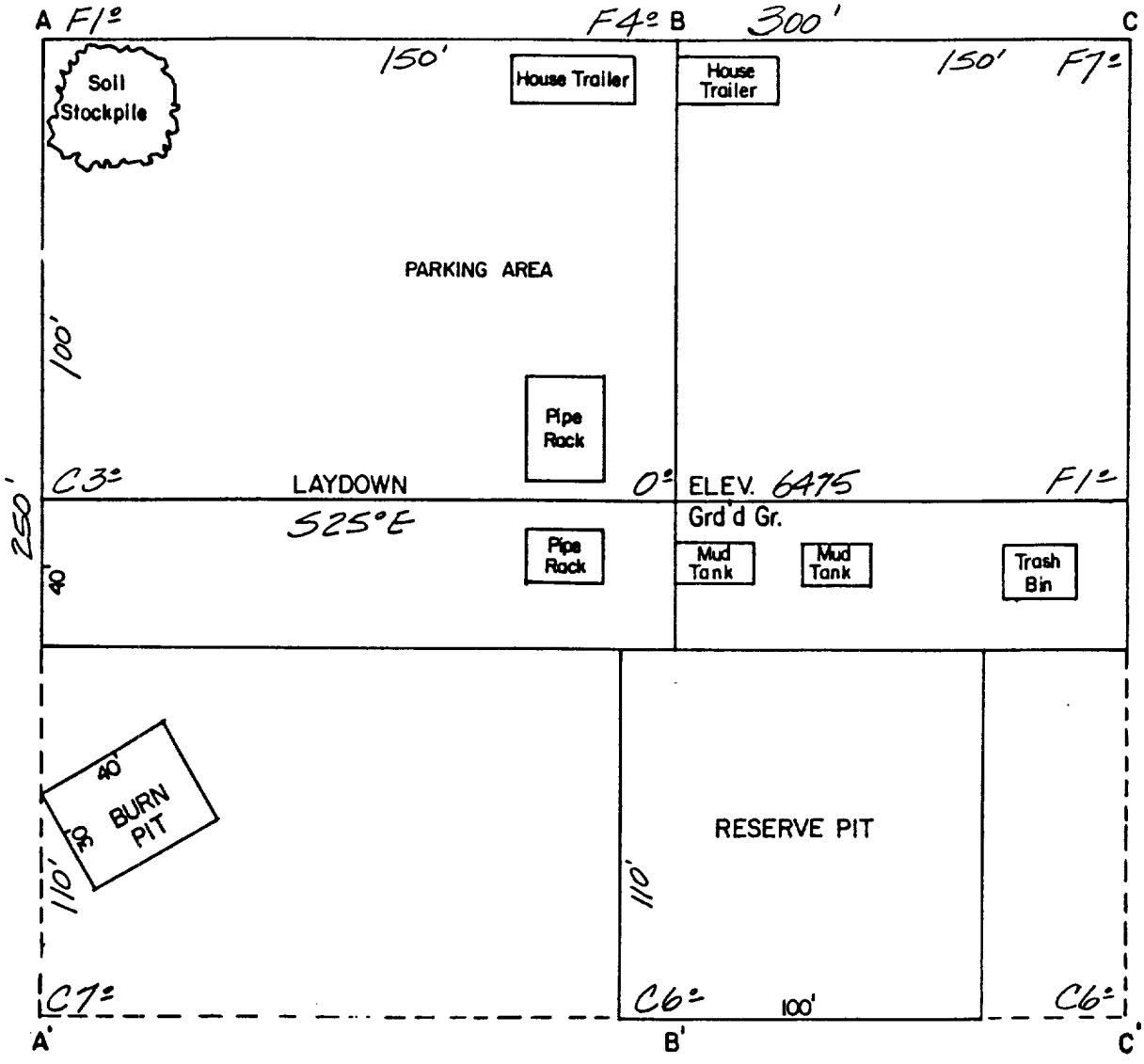
SW 10 - 25 - 11 DK

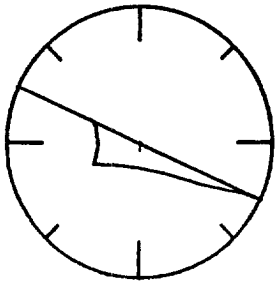
1190' F/SL 1180' F/WL

SEC. 10, T25N, R11W, N.M.P.M.

SAN JUAN COUNTY, NEW MEXICO

EXHIBIT "D"

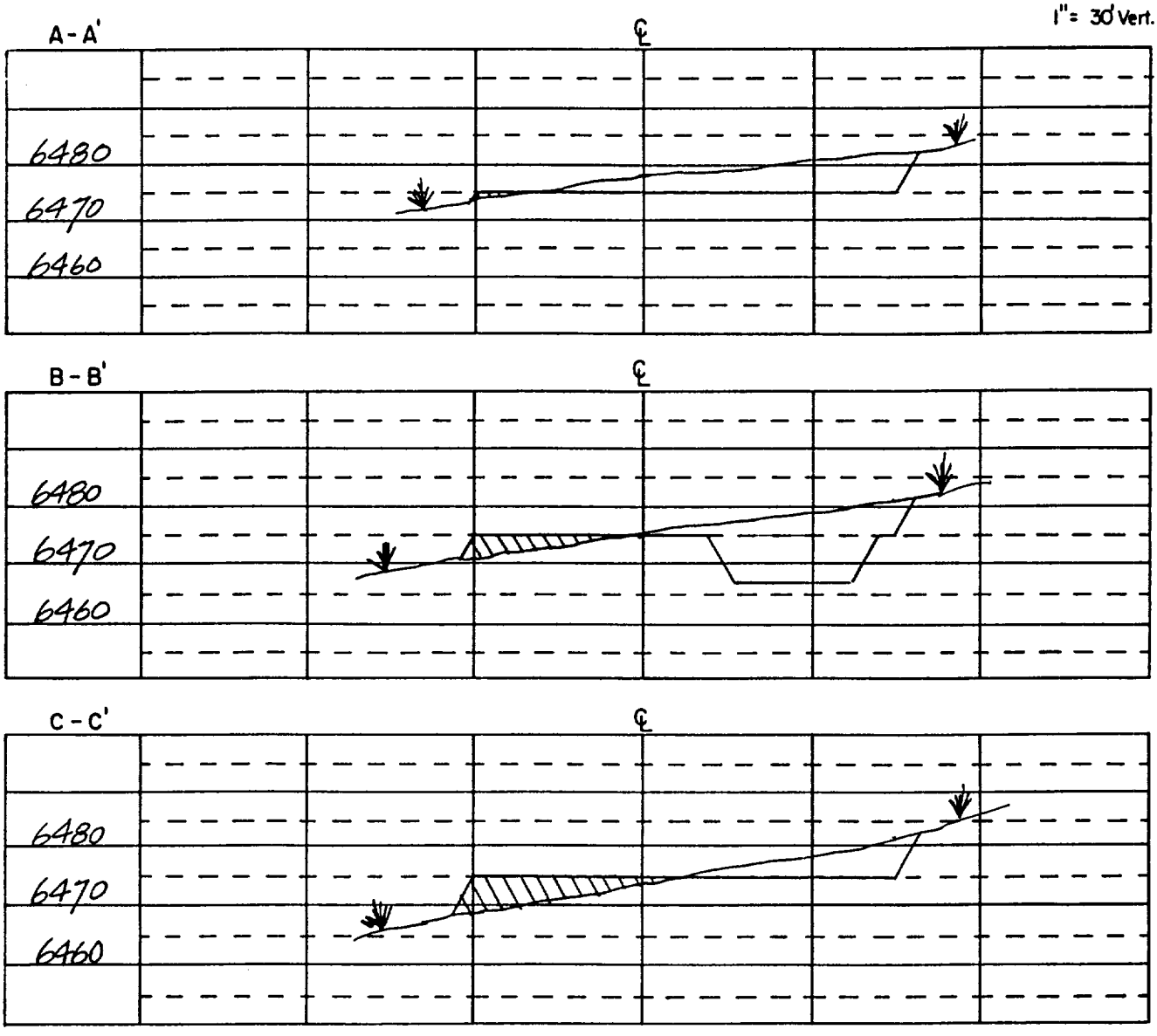


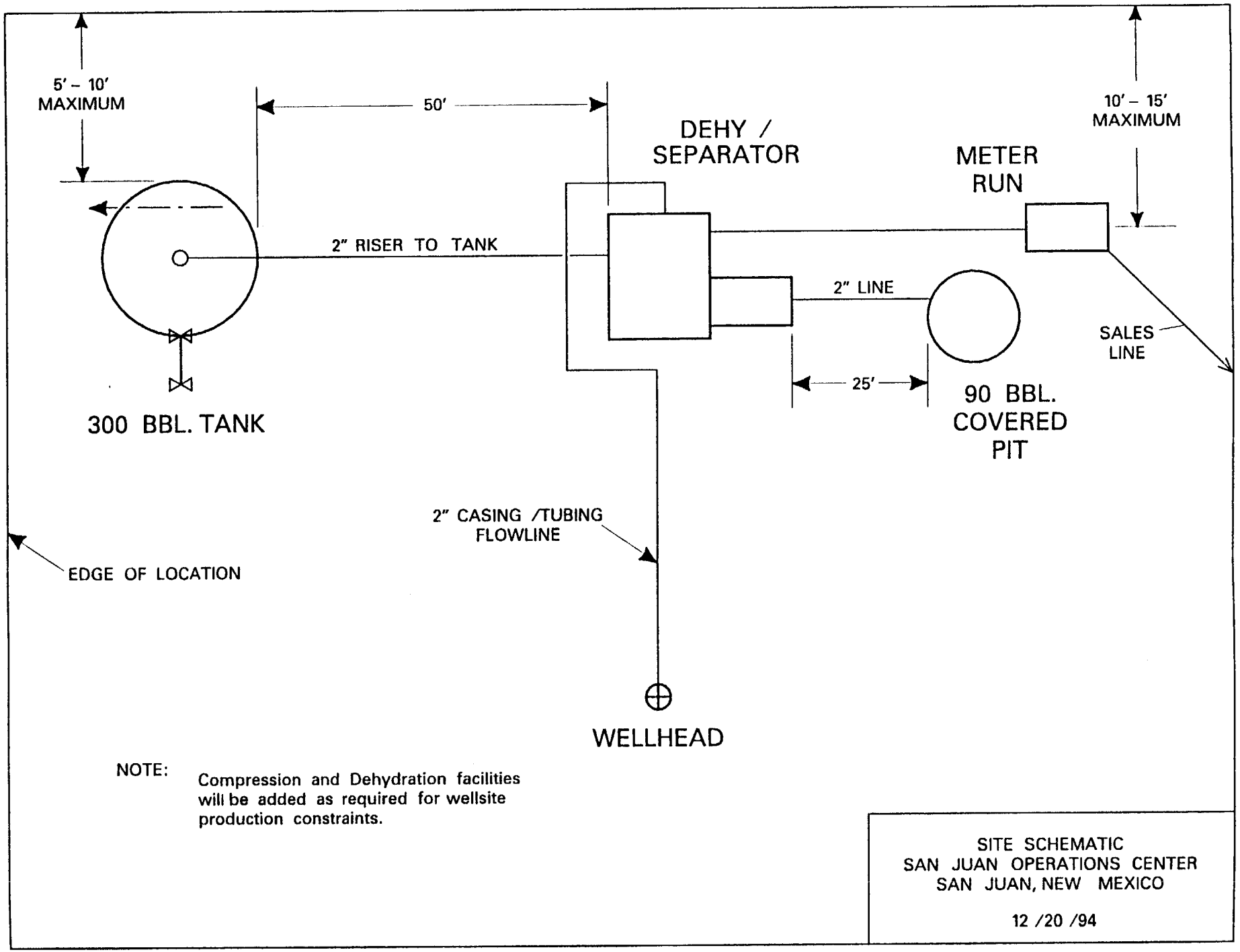


NOTE: Contractor should call 1-800-321-2537 for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least 2 days prior to construction.

AMOCO PRODUCTION COMPANY
SW 10 - 25 - 11 DK
1190' F/SL 1180' F/WL
SEC. 10, T25N, R11W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

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

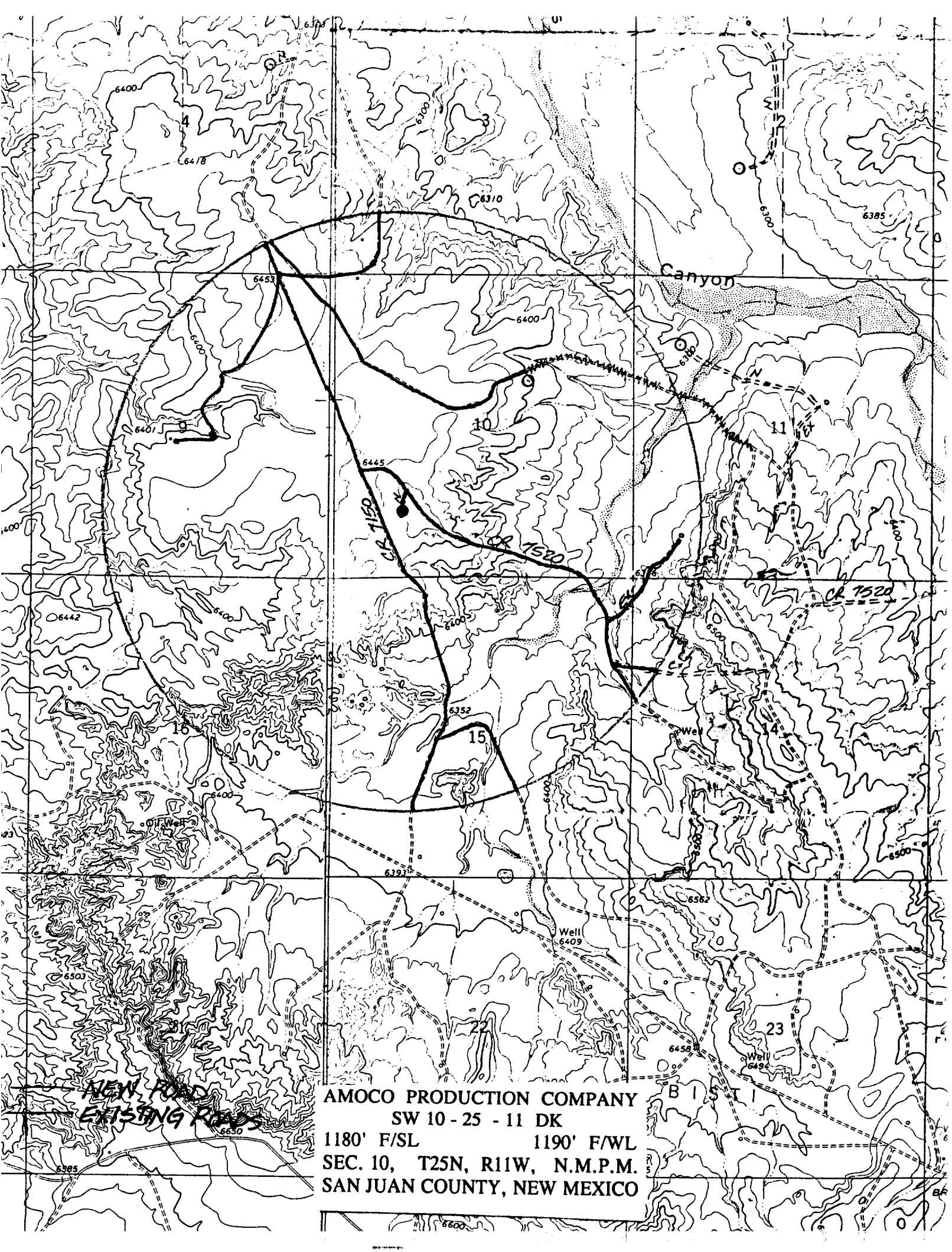


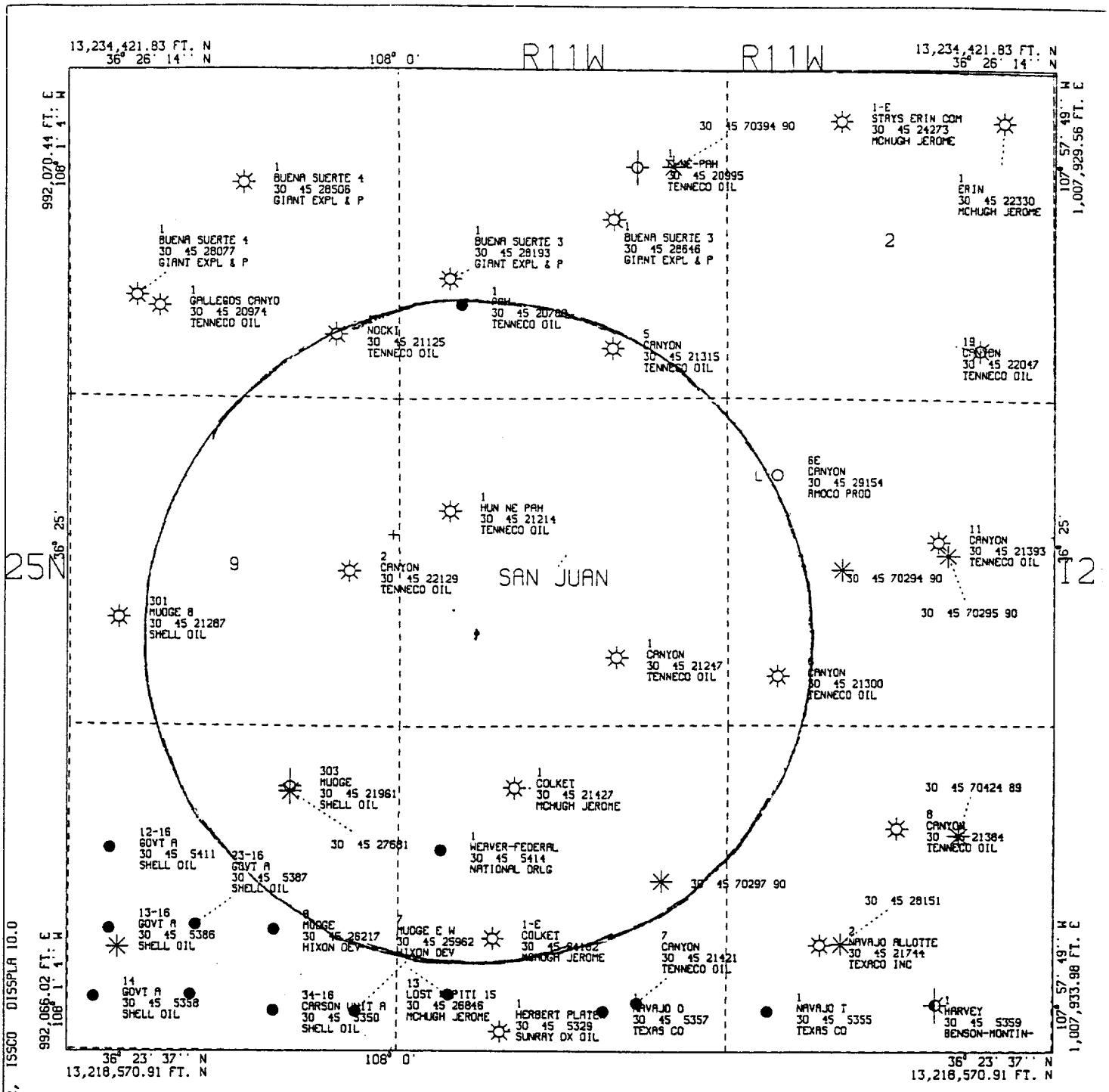


NOTE: Compression and Dehydration facilities will be added as required for wellsite production constraints.

SITE SCHEMATIC
SAN JUAN OPERATIONS CENTER
SAN JUAN, NEW MEXICO

12 /20 /94


Canyon
CR 7150
CR 7520
CR 7520
Oil Well
Well
6409
Well
6494
NEW ROAD
EXISTING ROADS
AMOCO PRODUCTION COMPANY
SW 10 - 25 - 11 DK
1180' F/SL 1190' F/WL
SEC. 10, T25N, R11W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



POLYCONIC CENTRAL MERIDIAN - 107° 59' 26" W LON
SPHEROID - 6

AMOCO PRODUCTION COMPANY
HUNNEPAH 1E
SEC 10-T25N-R11W
SAN JUAN NM

SCALE 1 IN. = 2,000 FT. DEC 16, 1994

HORIZONTAL DATUM NAD27

12.07.28 FRI 16 DEC, 1994 JOB-PV7237D2, ISSCO DISSPLA 10.0