

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructi
reverse side,

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL ☒ DEEPEN ☐ PLUG BACK ☐			5. LEASE DESIGNATION AND SERIAL NO. NM-073394-A	
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☒ MULTIPLE ZONE ☐			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Shell Oil Company			7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR P. O. Box 1009, Midland, Texas 79702			8. FARM OR LEASE NAME Corder Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FNL and 1980' FEL At proposed prod. zone Same			9. WELL NO. 3	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles northwest of Caprock			10. FIELD AND POOL, OR WILDCAT Cato San Andres	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drg. unit line, if any) 660		16. NO. OF ACRES IN LEASE 799.97	17. NO. OF ACRES ASSIGNED TO THIS WELL 40	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1320		19. PROPOSED DEPTH 3450'	20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START* May 15, 1977	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	250'	100 sacks to surface
7 7/8"	5 1/2"	14#	3450'	1500 sacks to surface

Attachments: 12 Point Development Plan for Surface Use
New Mexico Oil Conservation Commission Form C-102
County Road Map
Access Road Plat
Ownership Map
Facilities Plats
Rig Layout Plat
Drilling Prognosis
Casing and Cement Program
BOP Assembly Drawing
Choke Manifold Drawing

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ARTESIA, NEW MEXICO

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 L. M. Chalk for J. D. D. TITLE J. D. D'Agostino DATE 4-11-77
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

MAY 11 1977

R. L. C. E. E. E.
ACTING DISTRICT ENGINEERTHIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES AUG 11 1977

*See Instructions On Reverse Side

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NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102
Supersedes O-128
Effective 10-65

All distances must be from the outer boundaries of the Section

Operator SHELL OIL COMPANY			Lease SHELL CORDER FEDERAL			Well No. 3
Section B	Section 5	Township 9 South	Range 30 East	County Chaves		
Actual Footage Location of Well: 660 feet from the North line and 1980 feet from the East line						
Ground Level Elev 4108.9	Producing Formation		Pool		Leasehold Acreage	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

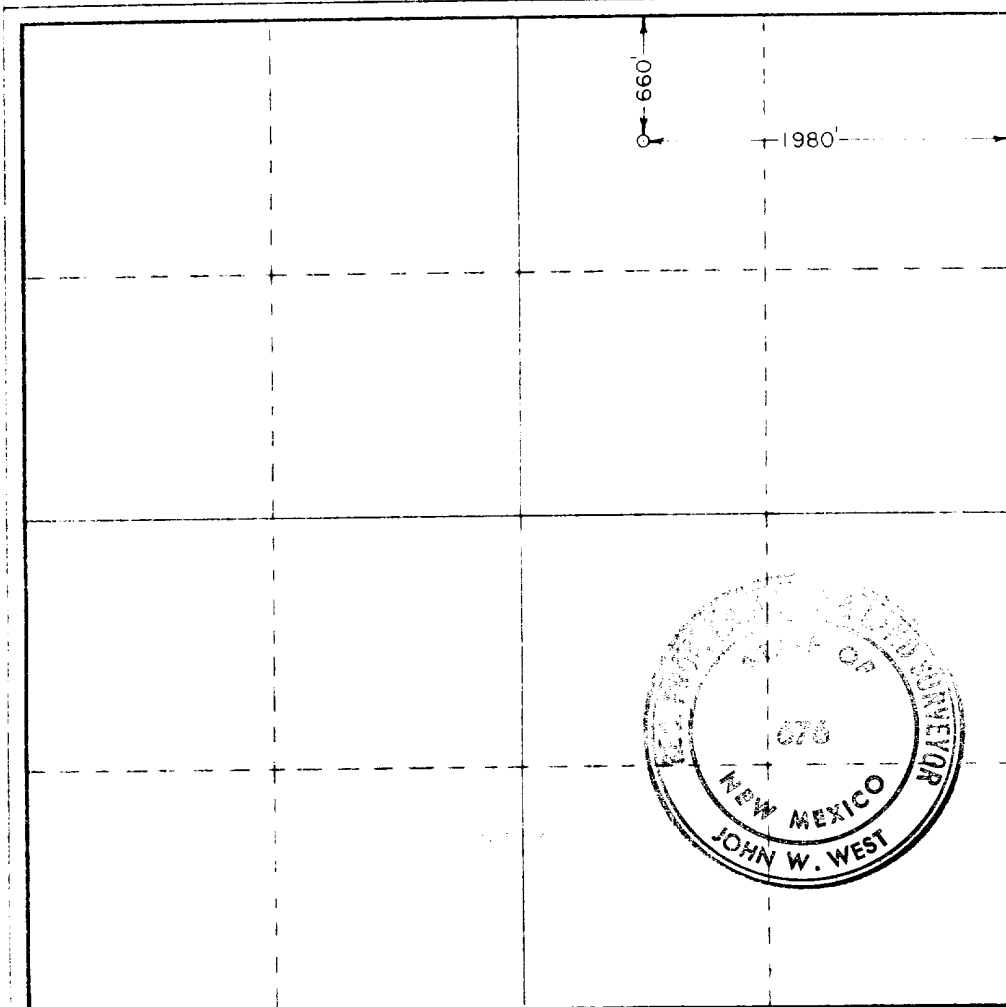
If answer is "no," list the owners and tract descriptions which have actually been consolidated on reverse side of this form if necessary.) _____

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.

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CERTIFICATION

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

K.M. Crick for

J. D. D'Agostino

Senior Drilling Engineer

Shell Oil Company

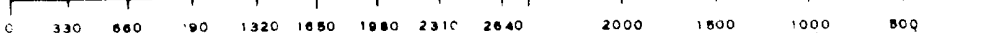
April 13, 1977

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

March 5, 1977

Registered Professional Engineer
and/or Land Surveyor

John W. West
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12-POINT DEVELOPMENT PLAN FOR SURFACE USE

SHELL OIL COMPANY
CORDER FEDERAL NO. 3
CATO SAN ANDRES FIELD
CHAVES COUNTY, NEW MEXICO

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1. Existing Roads to Well Location

To reach this well location, proceed west from Caprock (located on U.S. 380) ten miles. Turn right (north) on a primitive road for ten miles to the location. (See attached county road map.)

2. Planned Access Roads

Approximately 1120' of 12' wide access road will be required from the well site to the existing lease road east of the location. (See attached plat showing existing and planned access roads.)

3. Location of Existing Wells

Location of existing wells is shown on the attached ownership plat.

4. Location of Tank Batteries, Production Facilities, etc.

A plat showing the existing tank batteries and flowlines and proposed flowlines is attached.

5. Location and Type of Water Supply

We plan to contract with a private supplier to haul the water to be used during this drilling operation.

6. Source of Construction Materials

The materials needed to construct the access roads or well location will be purchased from a private supplier.

7. Methods for Handling Waste Disposal

All waste that can be burned will be burned in a pit located in the north-west corner of the drill site. All other waste and drilling fluids will be buried in a pit and covered with a minimum of two feet of cover.

8. Ancillary Facilities

There will be no permanent structures or airstrips. Trailer locations are shown on the attached location layout sheet.

9. Well Site Layout

See attached location layout sheet.

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10. Plans for Restoration of the Surface

Any topsoil removed while digging pits will be stockpiled. The burn pit will be covered and leveled. The reserve pit will be allowed to dry, filled in and leveled. The location will be cleaned, topsoil spread over the disturbed areas and reseeded as directed by the Bureau of Land Management.

11. Other Environmental Information

The immediate area under concern has caliche and sandy soil which is sparsely covered with unidentified native grasses and scrub mesquite. There are no water wells, flowing streams or bodies of water in the immediate area.

12. Field Representative

R. E. Henson
4415 Versailles
Midland, Texas 79703
915-697-3374

or

J. E. Miller
3331 Providence
Midland, Texas 79701
915-697-1069

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 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 Shell Oil Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

4-11-77
Date

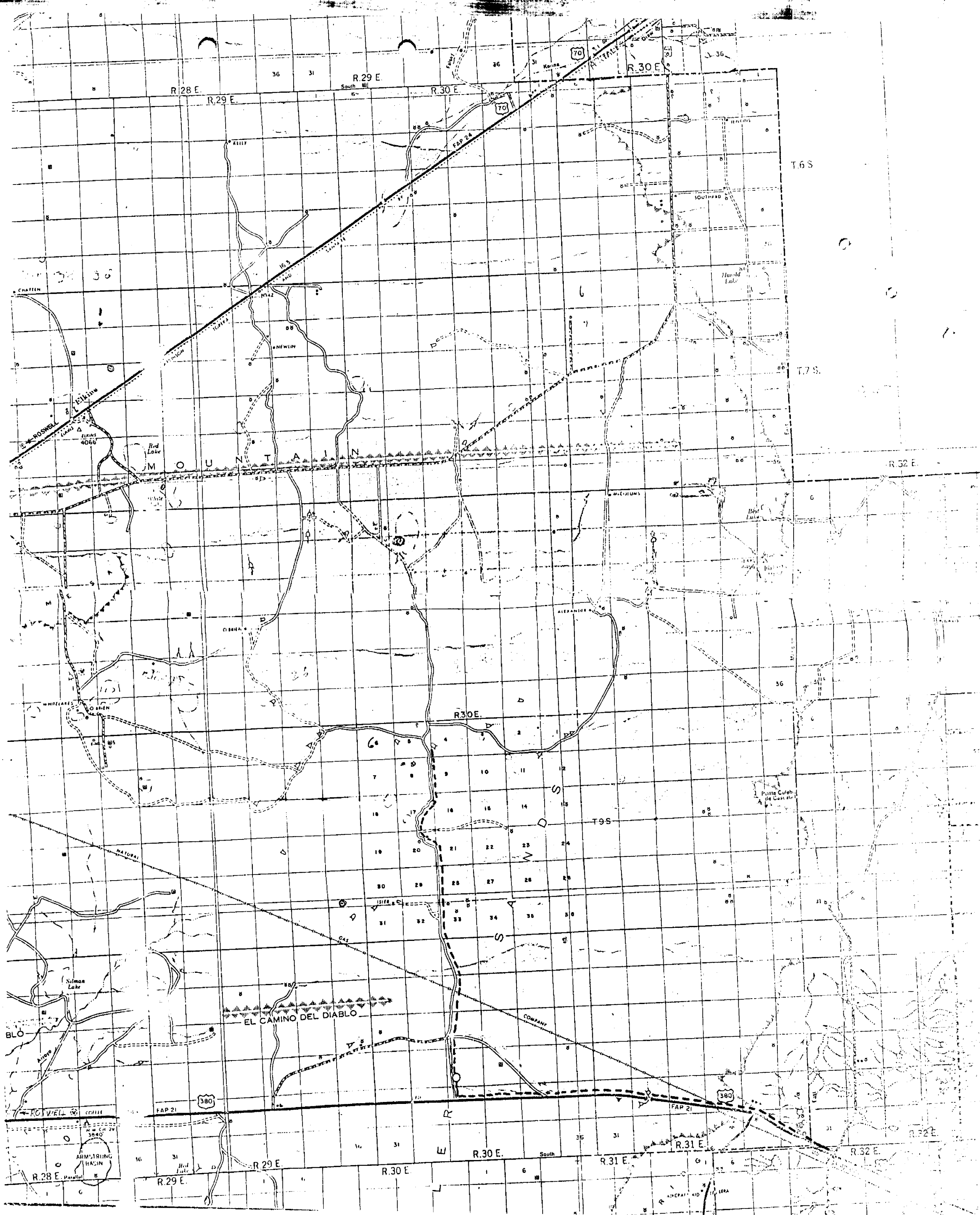
CASimar

C. A. Simar
Division Drilling Superintendent
(Name and title)

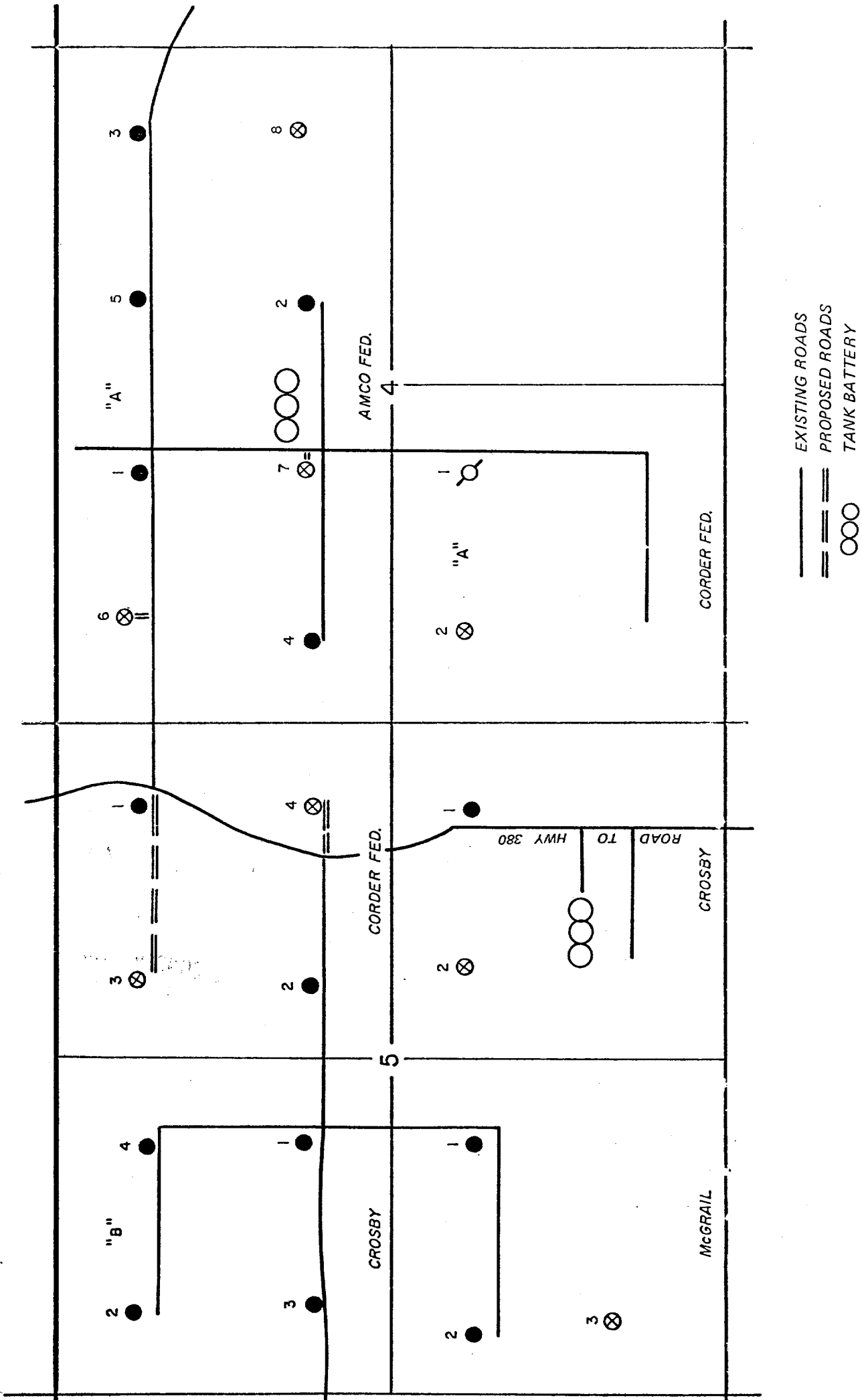
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EXISTING AND PLANNED ACCESS ROADS



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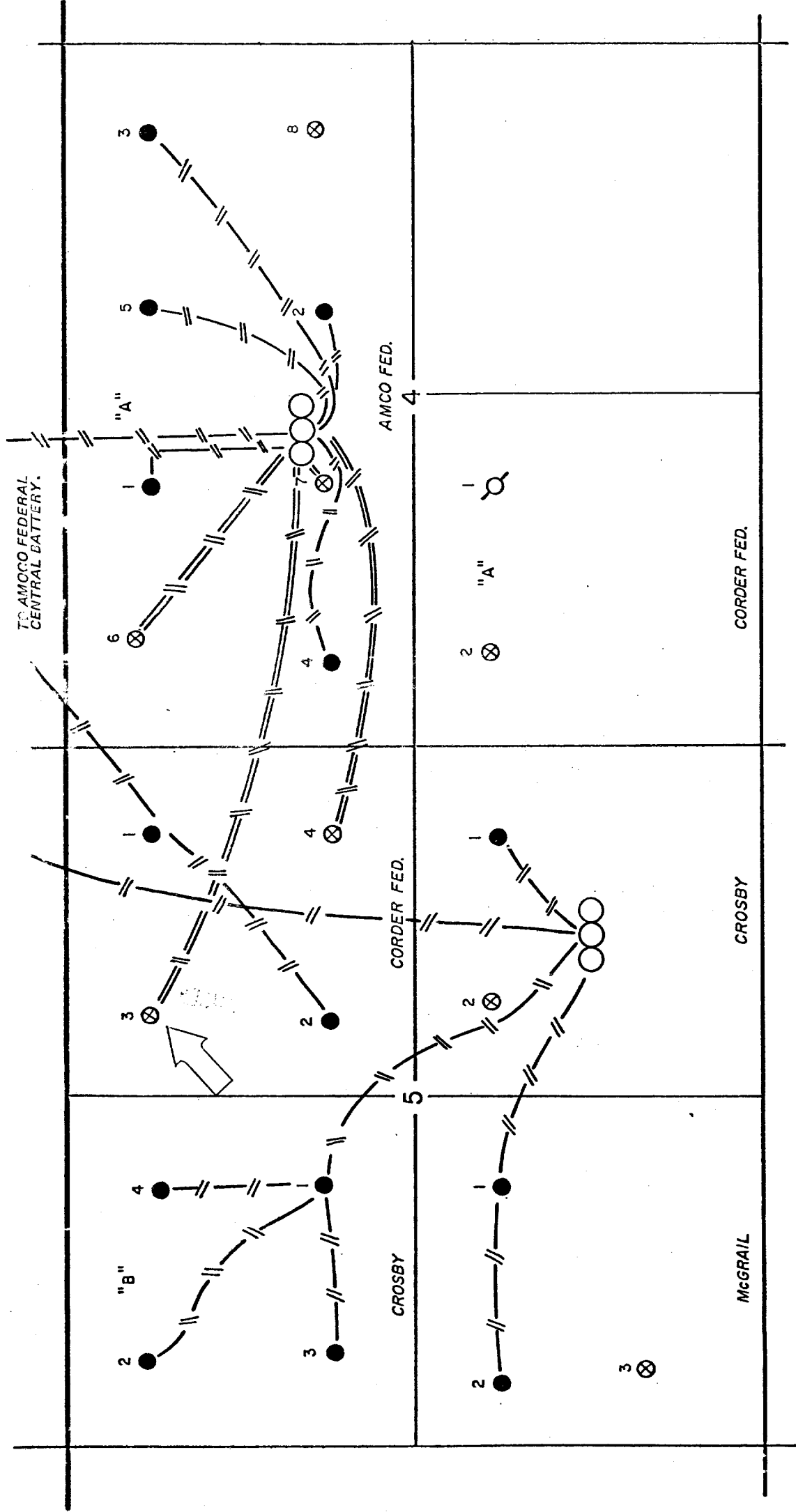
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State Lightcap 0-3400 0-
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TANK BATTERIES AND FLOW LINES



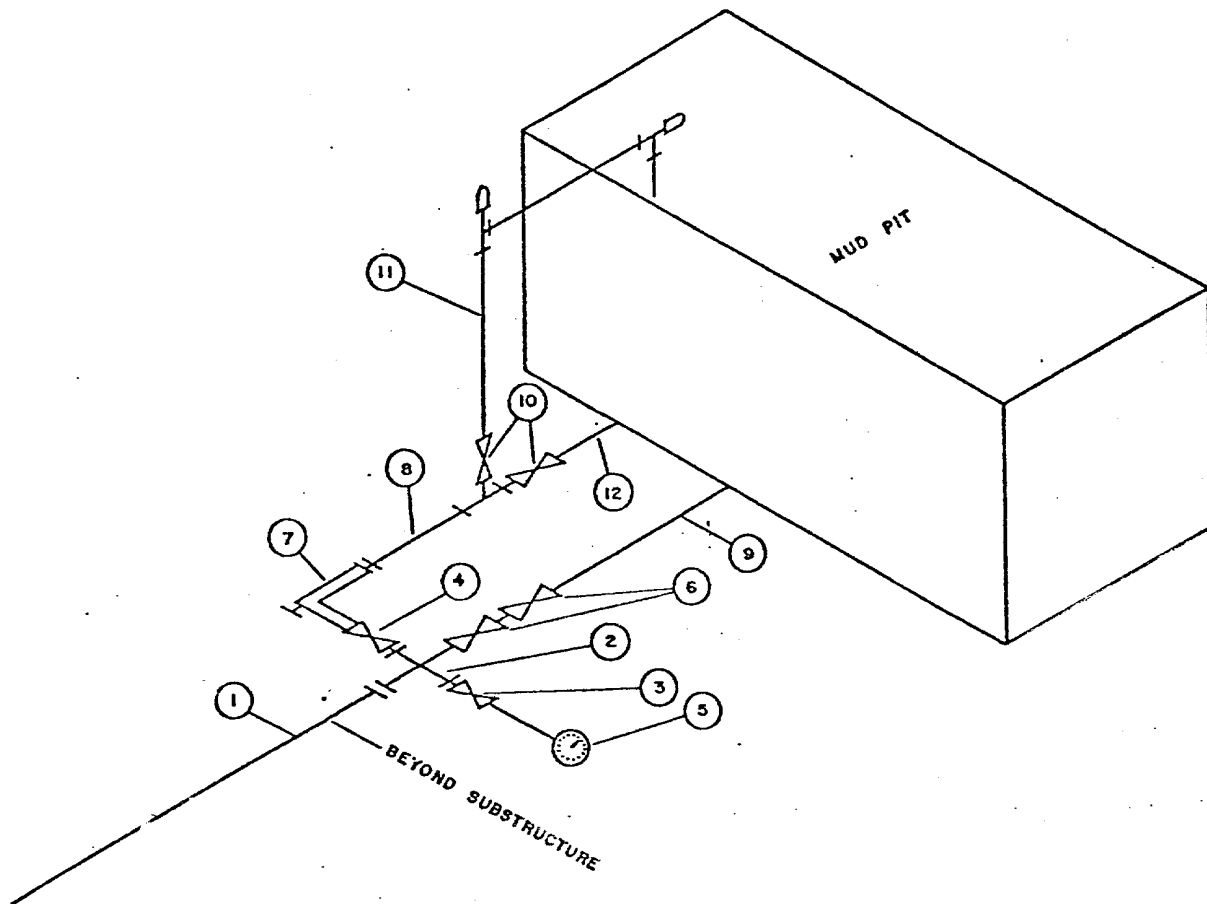
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DRAWING AND CHECK LIST NO. EP-1005-3
(ATTACHMENT 3 TO BID SHEET AND DRILLING ORDER)
MINIMUM BLOWOUT PREVENTER CHOKE MANIFOLD FOR LARGE SURFACE AND CONDUCTOR STRINGS
SPECIFICATIONS FOR WELL NO. 2000 psi API Class 2M
Cato Field CASING SIZE 8 5/8

GENERAL LAYOUT
CHOKE MANIFOLD, CHOKE DISCHARGE LINES



Contractor and Operator to furnish items checked (x)

No.		Min. Size	Type	Press. Rating	Furnished Contractor	Operator
1	Line from drilling spool	2"		2000	X	
2	Cross <u>2 x 2</u> <u>2 x 2</u>			2000	X	
3	Gate Valve	2	*CIW F	2000	X	
4	Gate Valve	2	*CIW F		X	
5	Pressure Gauge			3000	X	
6	Gate Valves	2	*CIW F	2000	X	

*or equivalent

No.		Min. Size	Type	Press. Rating	Furnished by Contr.	Operator
7	Adjustable Choke	2	*H-2	2000	X	
8	Line to Reserve Pit	2		2000	X	
9	Line to Reserve Pit	2		1000	X	
10	Gate Valves	2	*CIW F	2000	X	
11	Line to Mud Pit	2		1000	X	
12	Line to Reserve Pit	2		1000	X	

EQUIPMENT SPECIFICATIONS AND INSTALLATION INSTRUCTIONS

- All connections in choke manifold shall be flanged or Cameron clamp of comparable rating. Low pressure lines downstream from a choke can contain screwed connections.
- All flanges to be API 6B and ring gaskets shall be API RX.
- All lines shall be securely anchored.
- Choke to be equipped with tungsten carbide seat and needle and replacement parts shall be available.
- Line from drilling spool to choke manifold to be as straight as possible. Line downstream from chokes shall make turns by large radius bend or 90° bends using bull plugged tees.
- Discharge lines from chokes and choke bypass shall vent at a minimum of 100 ' from the well.

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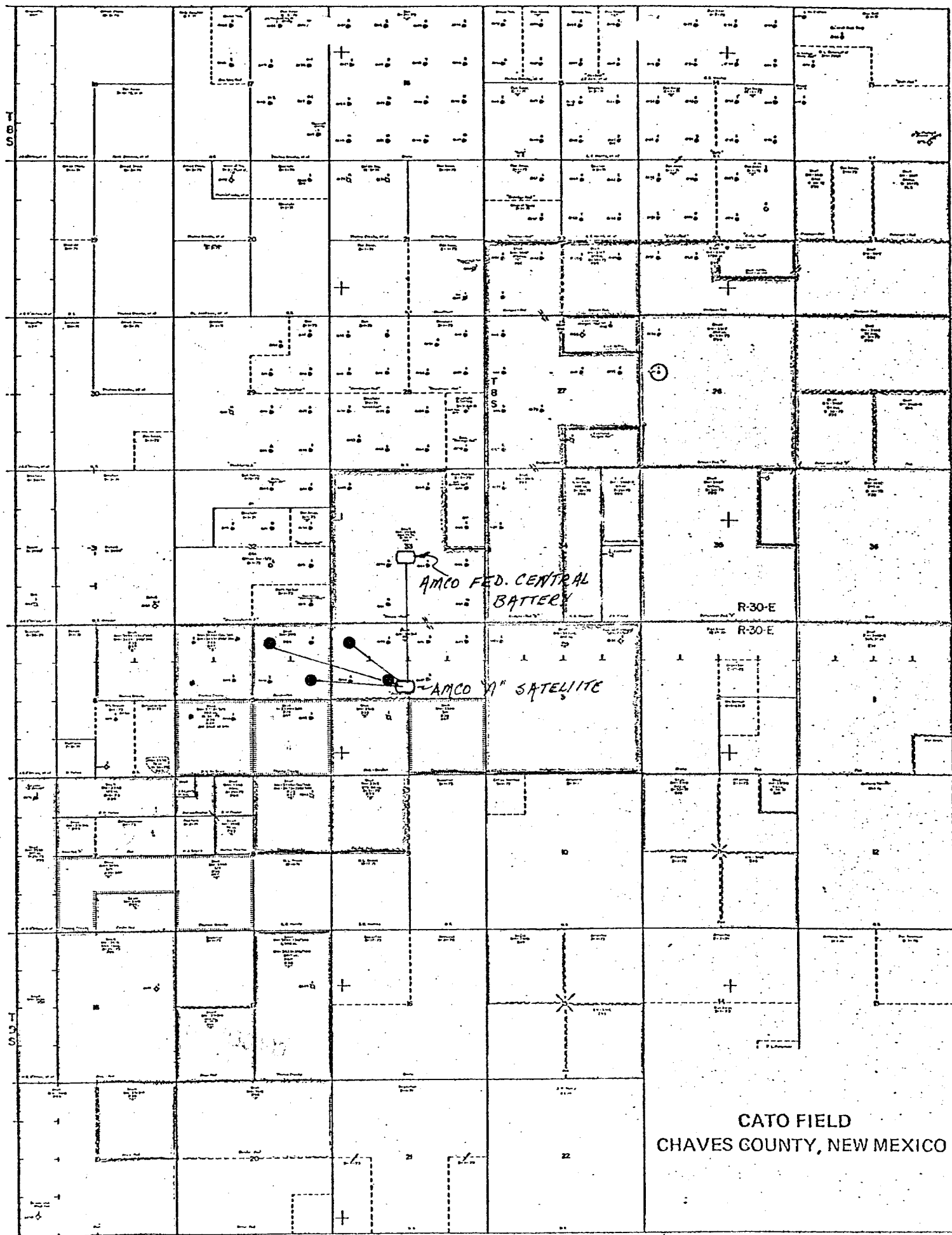
**O. C. C.
ARTESIA, OFFICE**

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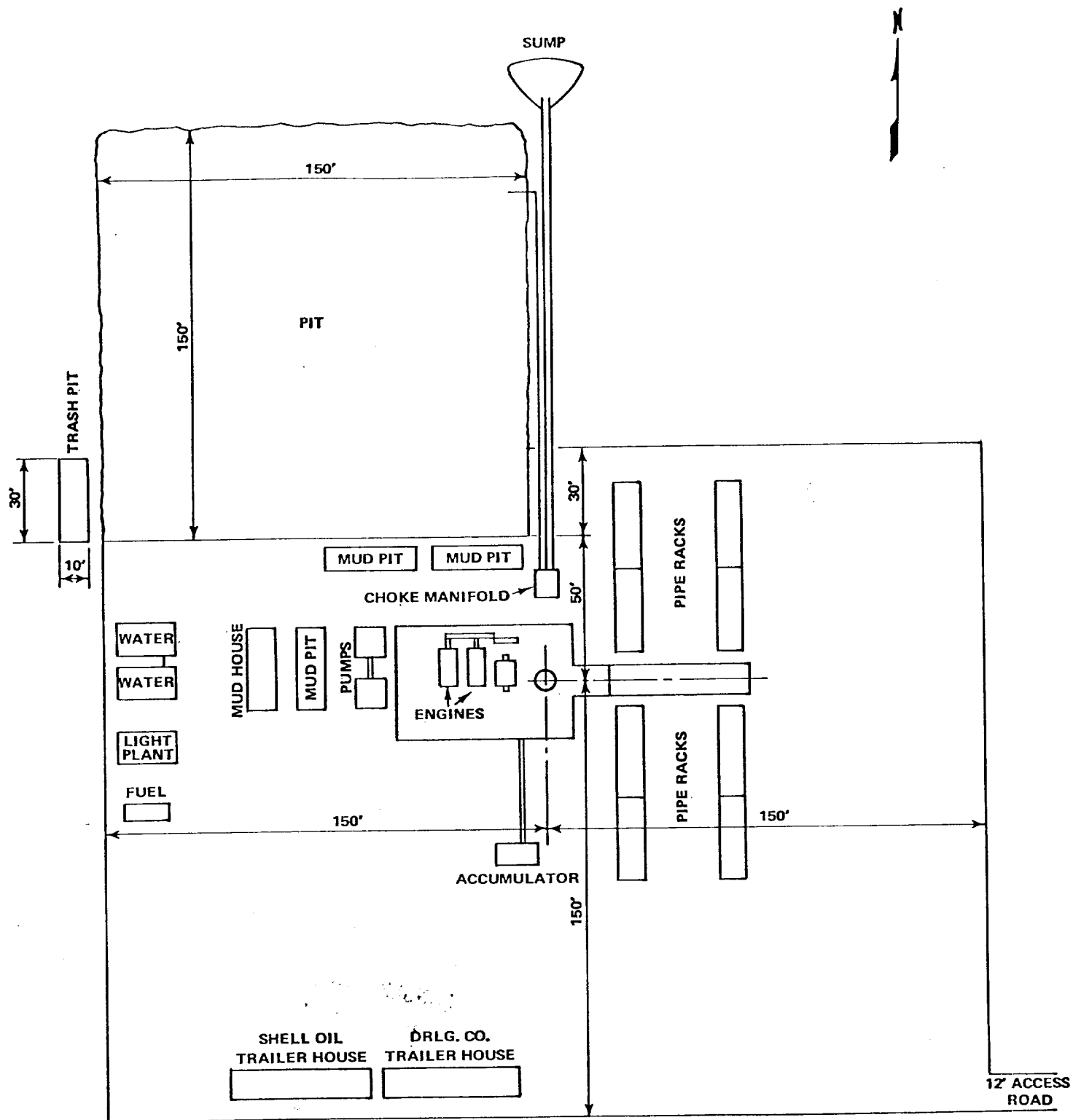


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LOCATION PLAT FOR CATO FIELD



SCALE: 1" = 50'

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DRILLING PROGNOSIS

WELL: Corder Federal No. 3.

W.O. NO. 932401

LOCATION: 660' FNL & 1980' FEL Section 5, T-9-S, R-30-E,
Chaves County, New Mexico

FIELD: Cato San Andres

EST. ELEVATION: 4100'

OBJECTIVE: San Andres

EVALUATION			GEOLOGY	WELL DEPTH	HOLE SIZE	CASING & CEMENT	MUD PROGRAM
REG. TIME SAMPLES	ELEC. SURVEYS	MUD LOGGER	SIGNIFICANT FORMATIONS				
10' Samples	2' Drlg. Time	SDLL, SNP, GR TD to 1450'			11"	8 5/8" 24# K-55 ST&C	Fresh water native mud
		BHC/GR TD to Sfc.	8 5/8" @ 250' or 25' into Red Beds (whichever is deeper)				
			Rustler 934' (+3166')			2MR-10-SRd	
		1450'	Yates 1469' (+2631')				
			San Andres 2638' (+1462')		7 7/8"		Fresh water native mud w/dissolved salt
			S. A. Marker 3190' (+910')				3150'
			S. A. Slaughter 3340' (+760')				Salt gel & starch mud, Wt. 9.8-10.3 ppg; vis. 32-36; by 15 sec or 10 sec.
3000'			TD 3450'			5 1/2" 14# K-55 ST&C	

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DRILLING DATA
CORDER FEDERAL NO. 3
CHAVES COUNTY, NEW MEXICO

CASING AND CEMENT:

8 5/8" 2 1/4" K-55 ST&C surface casing set at 250' or 25' into Red Beds (whichever is deeper). Circulate cement with 100± sacks.

5 1/2" 1 1/4" K-55 ST&C production casing at 3450'±. Circulate cement with 1500±sacks.

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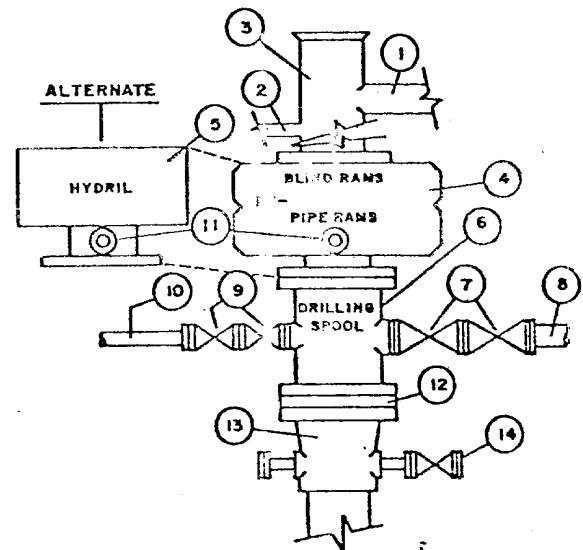
DRAWING AND CHECK LIST NO. EP-1004-2
(ATTACHMENT 2 TO BID SHEET AND DRILLING ORDER)
MINIMUM BLOWOUT PREVENTER EQUIPMENT REQUIREMENTS
FOR SHALLOW AND INTERMEDIATE NORMAL PRESSURE WELLS

2000 psi WP-API Class 2M

SPECIFICATIONS FOR WELL NO. Cato Field CASING SIZE 8 5/8

Contractor and Operator to furnish items checked (x)

No.		Min. Size	Type	Press. Rating	Furnished by	
					Contr.	Oper.
1	Flowline	8 5/8			X	
2	Fill up line	2"			X	
3	Drilling Nipple	11"			X	
4	Two single or one dual hydraulically operated CIW or Shaffer rams	10"	Shaffer	2000	X	
5	Hydril* (Alternate to #4)					
6	Drilling spool with " and " outlets			2000	X	
7	Gate valves	2"	CIW "F" or equal	2000	X	
8	Line to choke manifold	2"		2000	X	
9	Gate valves	2"	CIW "F" or equal	2000	X	
10	Line to rig mud pump manifold	2"		2000	X	
11	" and " outlets in ram or Hydril. Run kill line & choke line from these outlets (Alternate to #6 above)	NA				
12	Wear flange or bushing	---	---	---		
13	Casing Spool	10"		2000		X
14	Gate Valve	2"		2000		X



*or equivalent

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