N. M. O. C. C. COPY

Copy 6 S F

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-015-21115

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 15291

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Irami Federal "Com"

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Undesignated

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 34-19S-25E

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

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

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

RECEIVED
MAR - 6 1974
O. C. C.
ARTESIA, OFFICE

2. NAME OF OPERATOR: J.M. Huber Corporation

3. ADDRESS OF OPERATOR: 1900 Wilco Building, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 660' FSL & 1980' FWL Section 34-T19S-R25E, Eddy County, New Mexico
At proposed prod. zone: Morrow

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 16 miles south of Artesia, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 660'

16. NO. OF ACRES IN LEASE: 320

17. NO. OF ACRES ASSIGNED TO THIS WELL: 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 2640'

19. PROPOSED DEPTH: 9,500'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3527.1 GR

22. APPROX. DATE WORK WILL START*: March 8, 1974

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	475	375 sx circ.
12-1/4"	9-5/8"	36#	3,000	525 sx circ.
8-3/4"	4-1/2"	10.5#&11.6#	9,500	590 sx

Drill 17-1/2" hole to 475', set 13-3/8" H-40, 48#, ST&C casing, cement and circulate cement to surface. W.O.C. 18 hours. Drill out, test casing to 500 psi. Drill 12-1/4" hole to 3,000' ±, set 9-5/8" 36#, K-55, ST&C casing, cement with approximately 525 sx Lite Wate cement. Run temperature survey 8 hours after plug is down. Nipple up, install 5000 psi BOP, Hydril, and Rotating head, WOC 18 hours. Drill out cement and test casing to 1500 psi. Drill 8-3/4" hole to PTD of 9,500'. Log and evaluate for production casing.

RECEIVED
FEB 22 1974
U. S. GEOLOGICAL SURVEY
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 James R. Sutherland TITLE District Prod. Manager DATE February 20, 1974

(This space for Federal or State office use)

PERMIT NO. ____ APPROVAL DATE: Subject to Approval of Communitization Agreement prior to producing the well.

APPROVED BY ____ TITLE ____ DATE ____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
MAR 5 - 1974
R. L. BEEKMAN
ACTING DISTRICT ENGINEER

SUBJECT TO ATTACHED DEEP WELL CONTROL REQUIREMENTS DATED JUN 22 1973

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES JUN 5 - 1974

DECLARED WATER BASIN

CEMENT BEHIND THE 13 3/8 CASING MUST BE CIRCULATED

NOTIFY USGS IN SUFFICIENT TIME TO WITNESS CEMENTING THE 13 3/8 CASING

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

☆ U.S. GOVERNMENT PRINTING OFFICE : 1963--O-711-396

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
J.M. HUBER CORP.	IRAMI FEDERAL COM	1

Unit Letter	Section	Township	Range	County
N	34	19 SOUTH	25 EAST	EDDY

Actual Footage Location of Well:
660 feet from the SOUTH line and 1980 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3527.1	Morrow	Undesignated	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

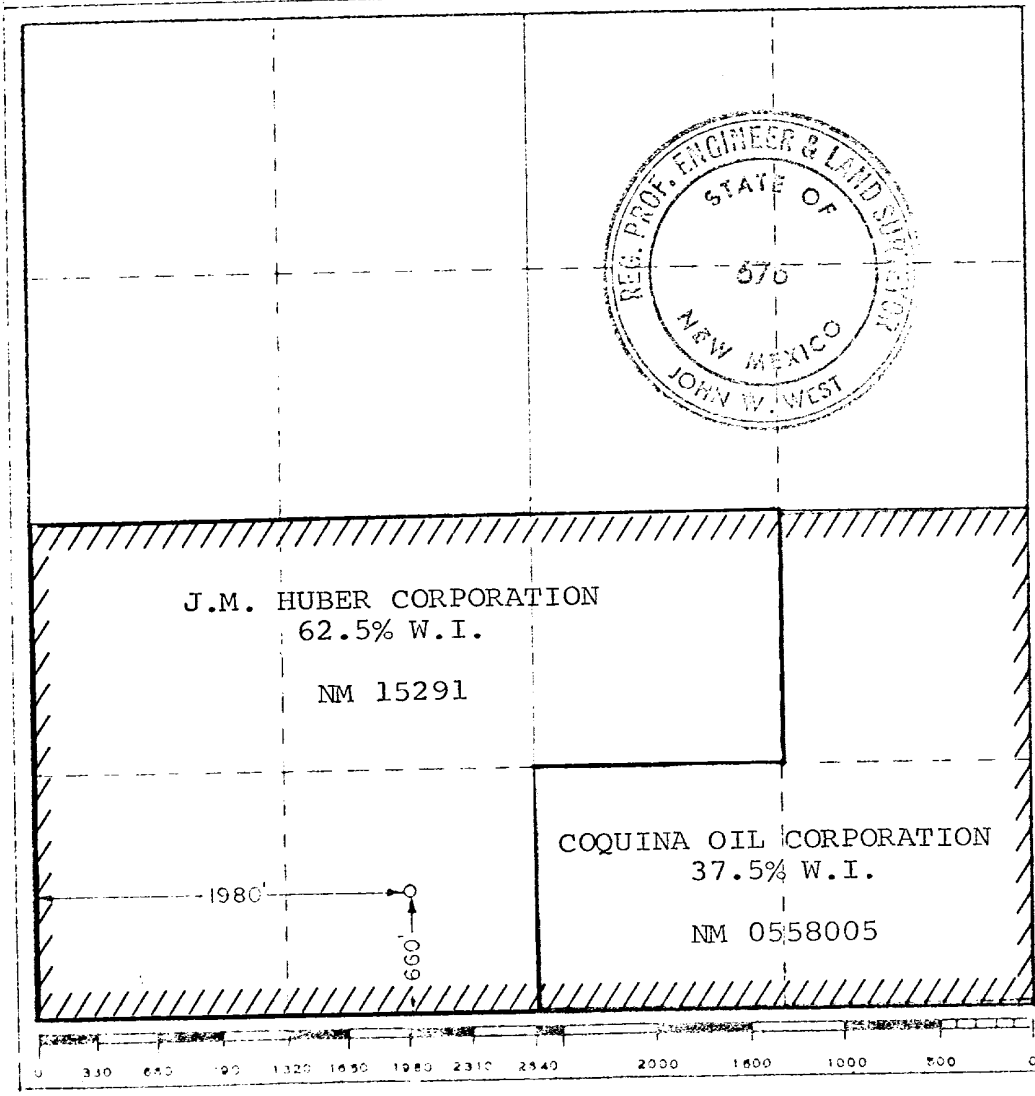
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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?

[X] Yes [ ] No If answer is "yes," type of consolidation Communitization pending

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 R. Sutherland

Name: James R. Sutherland

Position: District Prod. Manager

Company: J.M. Huber Corporation

Date: February 21, 1974

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.

RECEIVED
FEB 25
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Date Surveyed: FEBRUARY 16, 1974

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. 676

J. M. Huber Corporation
1900 Wilco Building
Midland, Texas 79701

February 21, 1974

OIL AND GAS
DIVISION

TELEPHONE
MUTUAL 8-3784

Mr. Jim Knauf
District Engineer
U.S.G.S.
Drawer U
Artesia, New Mexico 88210

Re: Application to Drill
Irami Federal "Com" No. 1
660' FSL & 1980' FWL
Section 34-T19S-R25E
Eddy County, New Mexico

Dear Mr. Knauf:

Enclosed are 5 copies of Form 9-331-C Application for Permit to drill the above referenced well. Also enclosed are 5 copies of the surveyor's plat, and 5 copies of our outlined recommended drilling mud program and B.O.P. program.

Attached are 5 copies each of our plat showing rig, reserve pit, pipe rack, steel mud tank layout and use of existing access road to location. Fresh water and brine water will be trucked by Rowland Trucking Company.

If we are successful in developing production from this well, 5 copies of our plat showing production facilities layout are also attached. All reserve pits will be backfilled, and location will be cleaned up and restored. The pad will remain as is to allow ample room for possible future access to work over this well. Water disposal, if any, will be handled by truck to approved disposal facilities.

If there are any questions or if clarification is needed for these enclosures, please contact this office.

We respectfully ask for your prompt approval of this application so that we may commence drilling operations.

Very truly yours,

J.M. HUBER CORPORATION

James L. Sutherland

James R. Sutherland
District Production Manager

JRS:mt

Enclosures:
3 Copies Form 9-331-C
5 Copies Surveyor's Plat
5 Copies Drilling Mud & B.O.P. Programs
5 Copies Rig Layout, etc.
5 Copies Proposed Production Layout

J. M. Huber Corporation
1900 Wilco Building
Midland, Texas 79701

OIL AND GAS
DIVISION

TELEPHONE
MUTUAL 2-3794

February 21, 1974

Mr. Jim Knauf
District Engineer
U.S.G.S.
Drawer U
Artesia, New Mexico 88210

Re: J.M. Huber Corporation
Irami Federal "Com" No. 1
660' FSL & 1980' FWL
Section 34-T19S-R25E
Eddy County, New Mexico

Dear Mr. Knauf:

The following recommended mud program and B.O.P. program are presented for approval for the above captioned well. We respectfully submit the following outlined program as an attachment to our application to drill, Form 9-331-C.

Recommended Drilling Mud Program:

0 - 475' Fresh water spud mud, aquagel flocculated with lime. Use cottonseed hulls and fibertex for loss of circulation, if it occurs. Set 13-3/8" H-40, 48#, ST&C casing at 475'.

475' - 3000' Drill out surface casing with clear fresh water, and circulate a controlled section of the reserve pit. Use paper for seepage loss of fluid. Treat water with amine corrosion inhibitor. Reserve pit will be plastic lined to prevent loss of water. Use flosal to clean the hole to set 9-5/8" casing. Set 9-5/8" K-55, 36#, ST&C intermediate casing at 3000'.

3000' - 6400' Drill out intermediate casing with fresh water, and circulate a controlled section of the reserve pit. Treat fluid with amine corrosion inhibitor. Use paper for seepage loss control, and flosal to clean the hole before trips or when needed.

6400' - 8200' Prior to drilling in the Wolfcamp shale at approximately 6400', add 10 p.p.g. brine water to increase the fluid density to 9.0 - 9.2 p.p.g. for shale inhibition. Use brine water to build and maintain volume, and continue to circulate through controlled section of the reserve pit. Use caustic soda for PH control of approximately 10.5, and amine corrosion inhibitor for drill pipe and casing protection. Use paper for seepage loss control.

8200' - 8600' Increase weight of fluid to 10 p.p.g. before reaching top of Atoka at approximately 8600'. Reduce water loss control to 10 - 15 cc with dextrid drespac additives. Use flosal to increase viscosity, if needed, and continue to use paper for seepage loss control.

8600' - 8900' Maintain water loss control at 10 - 15 cc. The viscosity should be kept low, in the 30 - 32 sec/1000 cc range. The Atoka interval may dictate a mud weight up to 10.6 p.p.g. for pressure control. Should 10.6 p.p.g. or greater mud weights be required to control pressure, barite should be used. Additions of flosal for barite suspension, and dextrid drespac for reduction of fluid loss to 10 cc or less will be necessary.

8900' - 9500' Maintain the existing mud properties as hole conditions dictate. The fluid loss should be kept below 10 cc to minimize damage, and help prevent damage to the Morrow formation.

Recommended Blow-Out Prevention Program:

It is recommended that a Cameron double stack 10" 5000 psi BOP and 5000 psi Hydril be installed after setting the 9-5/8" intermediate casing. Also a rotating-drilling head will be installed at this time. A remote Payne accumulator unit of 80 gallon minimum capacity will be utilized. Accompanying the installation of BOP, Hydril, and rotating-drilling head, a flow manifold and 2-3/8" kill line will be laid to the end of the catwalk. Prior to drilling out the 9-5/8" intermediate casing shoe, the BOP, casing, Hydril, kill line and manifold will be pressure tested to 3000 psi.

Operational tests of BOP's will be made before all DST's; blind rams will be tested each trip, and pipe rams are to be tested each tour.

If pressure control is critical with afore outlined mud program, pit level alarm system, de-gasser, and super choke control equipment will be installed.

If any additional information can be furnished or if any clarification is needed on the outlined programs, please contact this office.

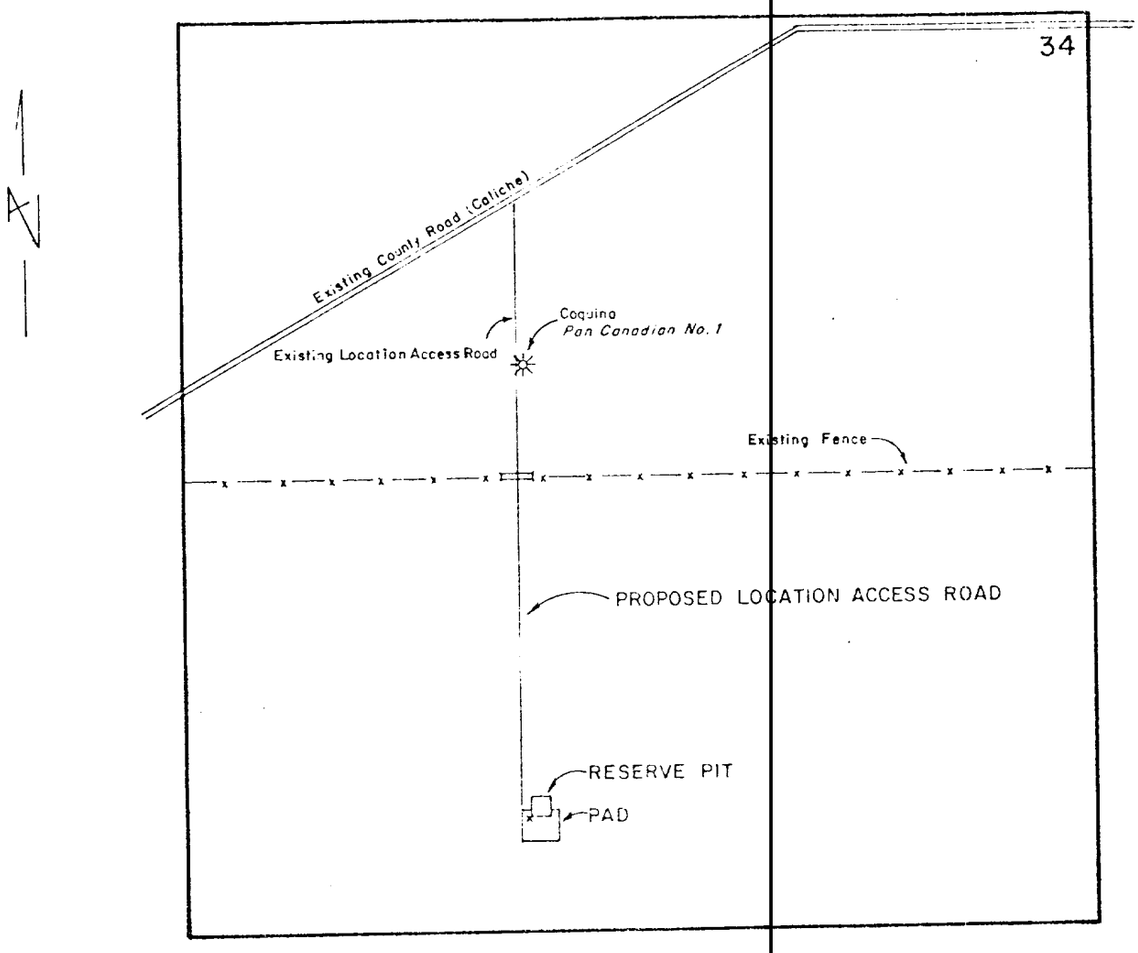
Very truly yours,

J.M. HUBER CORPORATION

James R. Sutherland

James R. Sutherland
District Production Manager

JRS:mt

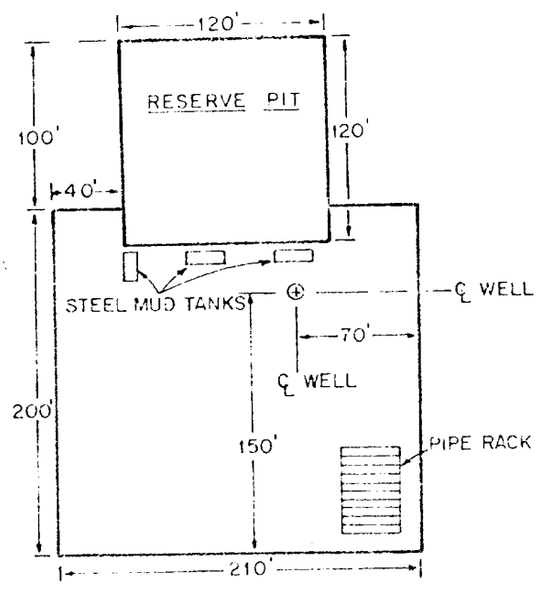


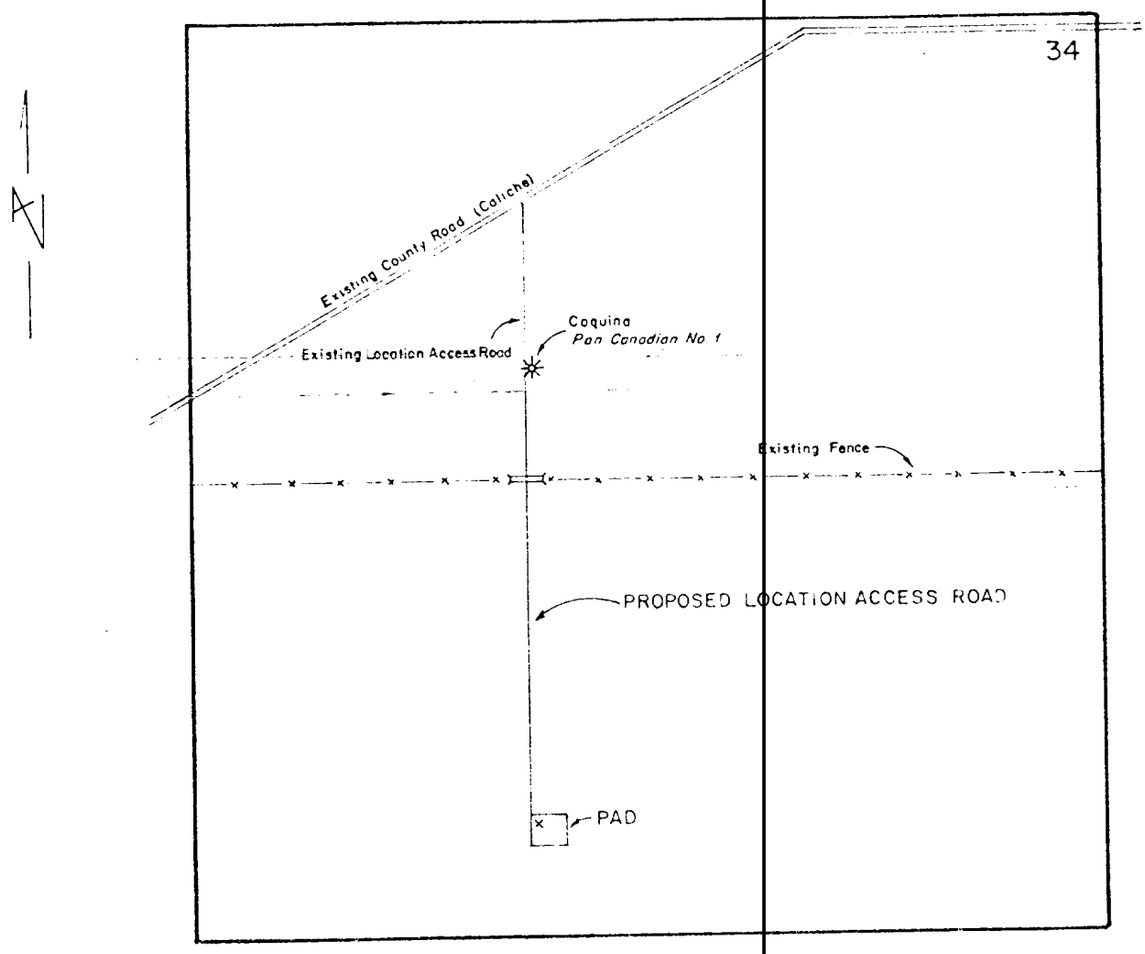
J.M. HUBER CORP. – *Irami-Federal "Com" No. 1*

660 FS & 1980' FW Sec. 34, T19S, R25E
Eddy County, New Mexico

Scale: 1" = 1000'

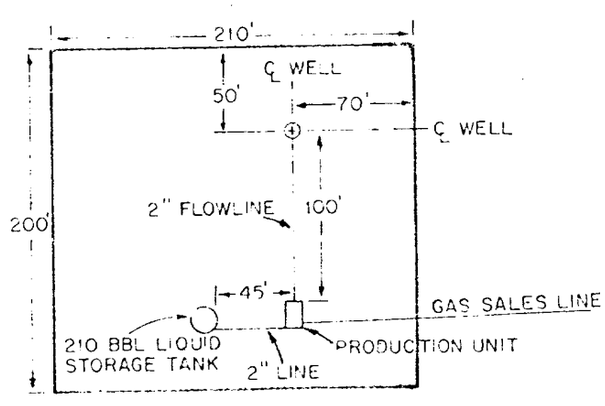
DETAIL of PAD & RIG LAYOUT
SCALE: 1" = 100'





J.M. HUBER CORP. – *Irami-Federal "Com" No. 1*
660' FS & 1980' FW Sec. 34, T19S, R25E
Eddy County, New Mexico
Scale: 1" = 1000'

DETAIL of PRODUCTION FACILITIES
SCALE: 1" = 100'



30-015-21115

3-27-74

Borehole Comp Sonic Log
Gamma Ray

50 - 3[illegible]

Dual Induction - Laterlog

4[illegible] 3[illegible]

4-25-74

Compensated Neutron
Form. Density

[illegible] - 3[illegible]

Dual Laterlog

3[illegible] 9[illegible]

5-3-82

GRN

1440-[illegible]