

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE 1992 Form approved.
(Other instructions on reverse side) Budget Bureau No. 1004-0136
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER

2. NAME OF OPERATOR

Kaiser-Francis Oil Company

3. ADDRESS AND TELEPHONE NO.

P.O. Box 21468, Tulsa, Oklahoma 74121-1468

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

At surface

660' FSL & 1650' FEL

At proposed prod. zone

Same

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

17 miles East from Loving

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660'
(Also to nearest drlg. unit line, if any) 330'

16. NO. OF ACRES IN LEASE

640

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.

990'

19. PROPOSED DEPTH

8100'

20. ROTARY OR CABLE TOOLS

Rotary

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

3343' FL

22. APPROX. DATE WORK WILL START*

23.

PROPOSED CASING AND CEMENTING PROGRAM

Secretary's Potash / R-111-P Potash

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2	13-3/8	48#	700	700 sacks Circulated
11	8-5/8	32#	4070	1000 sacks Circulated
7-7/8	5-1/2	17#	8100	1370 sacks top at 4000 (tieback 200')

Stage tool @ 6200'

1. MIRU Rotary.
2. Drill 17-1/2" hole to 700', run & set 13-3/8" surface casing & cmt w/700 sx.
3. Install 3000# BOP & test to 600#.
4. Drill 11" hole to 4070', run & set 8-5/8" intermediate csg & cmt w/1000 sx.
5. Test csg to 1000#.
6. Drill 7-7/8" hole to 8100' & run electric logs.
7. If hydrocarbons are indicated, run & set 5-1/2" csg @ 8100' w/stage collar at 6200' and cmt 1st stage w/580 sx & 2nd stage w/790 sx.
8. RDMO rotary, install wellhead, run cement bond log, perforate and stimulate for production.

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS

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

Milton R. Dwyer

TITLE

Operations Engineer

DATE

10/15/92

(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

TITLE

DATE

12-2-92

*See Instructions On Reverse Side

DISTRICT I

P. O. Box 1980
Hobbs, NM 88240

DISTRICT II

P. O. Drawer DD
Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd
Aztec, NM 87410

OIL CONSERVATION DIVISION

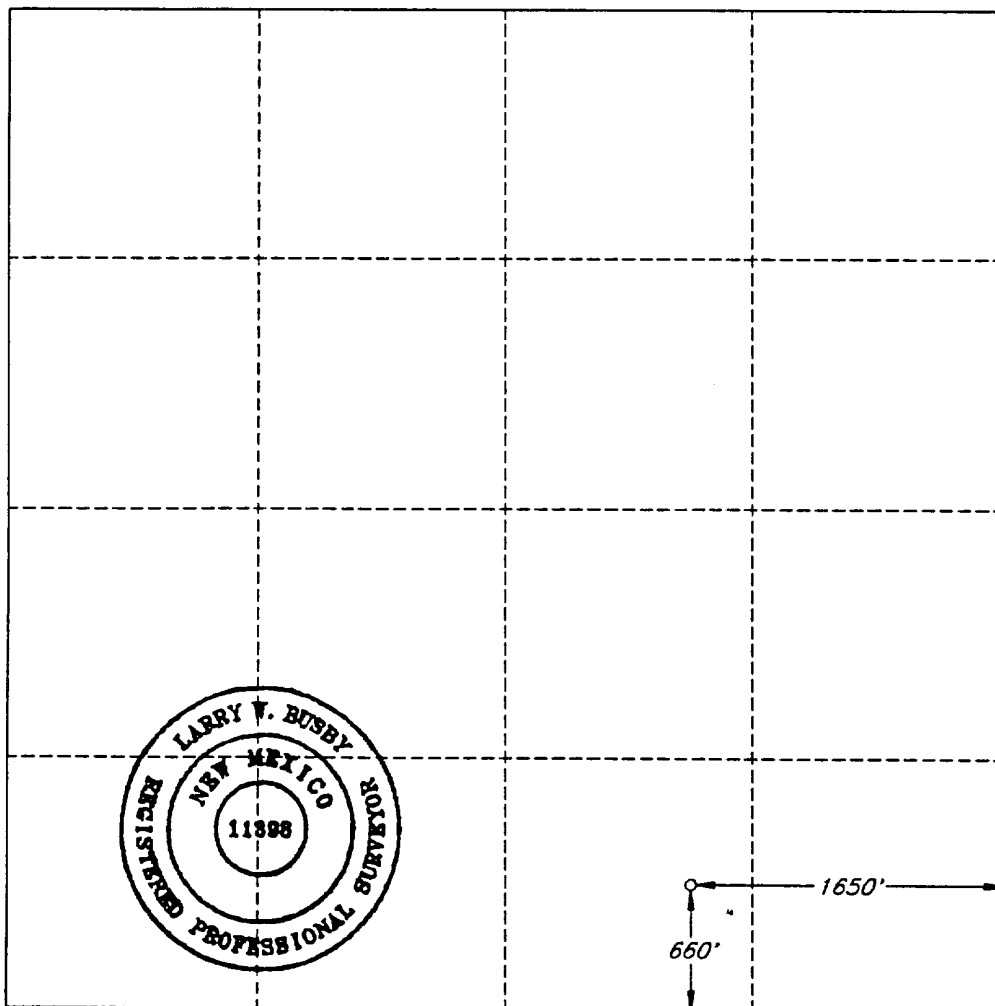
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the section.

Operator Kaiser-Francis Oil Company			Lease PURE GOLD 'B' FEDERAL		Well No. 3
Unit Letter 0	Section 20	Township 23 SOUTH	Range 31 EAST, N.M.P.M.	County EDDY	
Actual Footage Location of Well 660' feet from the SOUTH line and 1650' feet from the EAST line					
Ground Level Elev. 3343'	Producing Formation Delaware		Pool Wildcat-Delaware	40 Acres	

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 interest of all the owners been consolidated by communitization, unitization, forced-pooling, etc.?
☐ Yes ☐ No If answer is "yes", type of consolidation _____
If the answer is "no", list the owners and tract descriptions which have actually been consolidated. (Use the 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 interest, has been approved by the division.



OPERATOR CERTIFICATION

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

Signature
Milton R. Griffin

Printed Name
Milton Griffin

Position
Operations Engineer

Company
Kaiser-Francis Oil Co.

Date
10/15/92

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 knowledge and belief.

Date Surveyed
AUGUST 8, 1992

Signature and Seal of
Professional Surveyor

Larry V. Busby

Certificate No.
LARRY W. BUSBY R.P.S. #11398

JOB NO. 92154

V.H.R.

APPLICATION FOR PERMIT TO DRILL
KAISER-FRANCIS OIL COMPANY
Pure Gold "B" Federal No. 3
660' FSL & 1650' FEL
Sec. 20, T23S, R31E
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill, Kaiser-Francis Oil Company submits the following items of pertinent information in accordance with Onshore Oil & Gas Order Nos. 1&2, and with all other applicable federal and state regulations.

1. The geologic surface formation is Quaternary alluvium and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Delaware	4150'
Bone Springs	8000'
TD	8100'
3. We do not anticipate encountering water, and oil and gas formations are as follows:

Delaware

4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
5. Pressure Control Equipment: See Exhibit B.
6. Mud Program: See Exhibit C.
7. Auxiliary equipment: Blowout preventer.
8. Testing, Logging, and Coring Programs: No coring or DST's are anticipated. Electric logs will consist of a Compensated Neutron/Litho Density w/ Gamma Ray and Caliper and a Dual Laterolog. A Mudlogging unit will be used from 4150' to TD.
9. No abnormal pressures, no abnormal temperatures and no H₂S are expected.
10. Anticipated starting date: As soon as possible.

EXHIBIT A
KAISER-FRANCIS OIL CO.
Pure Gold "B" Federal #3
Eddy County, NM

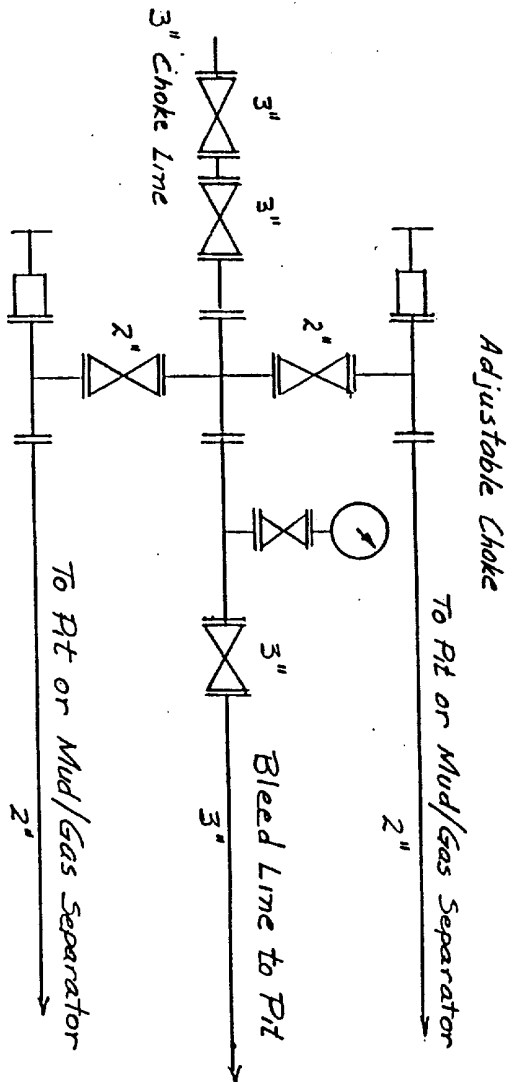
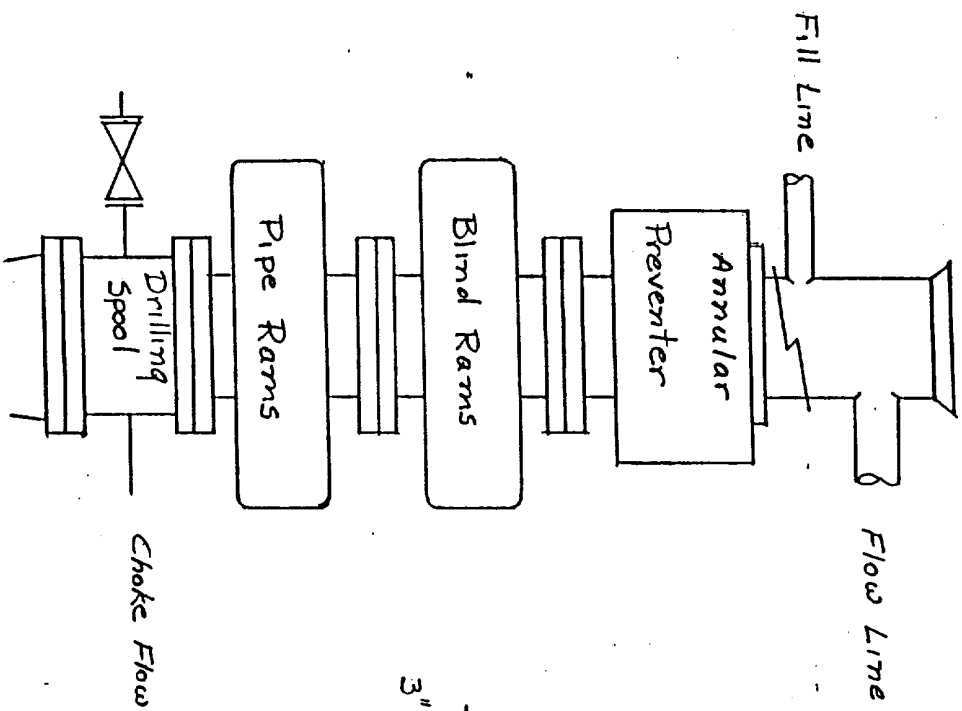
SUMMARY

Drilling, Casing and Cementing Program

1. Drill 17 1/2" hole to 700' and run 13 3/8", 48#, H40 casing. Use guide shoe on bottom joint with a float insert 1 joint above the guide shoe. Run 1 centralizer per joint on bottom 3 joints. Cement with 500 sx Class "C" + 2% CaCl + 1/4 pps Cello Flake lead cement followed by 200 sx Class "C" + 2% CaCl. Drop top plug and displace cement with mud.
2. Nipple up and install BOP's. Cement shall be allowed to stand 12 hours under pressure. After 24 hours test casing to 600 psi for 30 minutes and drill out cement. After drilling the plug and below the casing seat, test again to 600 psi for 30 minutes.
3. Drill 11" hole to 4070" and run 8 5/8", 32#, J55 casing. Use guide shoe on bottom and a float collar 1 joint above the shoe. Use 1 centralizer per joint on bottom 5 joints and 5 other centralizers. Cement with 800 sx Class C Lite (35:65:6) + 9.5 pps salt + 1/4 pps Celloflake lead cement followed by 200 sx Class C + 1% KCl + 5 pps salt. A Fluid Caliper will be run to determine the exact volume of cement required to circulate cement to the surface.
4. Nipple up and install BOP's. Cement shall be allowed to stand 12 hours under pressure. After 24 hours test casing to 1000 psi for 30 minutes and drill out cement. After drilling the plug and below the casing seat, test again to 1000 psi for 30 minutes.
5. Drill 7 7/8" hole to 8100' and run 5 1/2", 17#, K55 casing with a stage tool at approximately 6200'. Use a float shoe on bottom and a float collar 2 joints above the shoe. Use 1 centralizer per joint on bottom 5 joints and as required across potential productive intervals. Cement the first stage with 580 sx Class H + additives, and cement the second stage with 690 sx Class C Lite (35:65:6) lead cement followed with 100 sx Class C neat. The exact volume to bring the cement top to 4000' will be determined after logging the well.
6. Perforations and stimulation treatments will be determined after running electric logs and setting the 5 1/2" casing.

PRESSURE CONTROL
EQUIPMENT

Exhibit B
KFOC
Pure Gold "B" Fed. #3



3M Choke Manifold

EXHIBIT C
KAISER-FRANCIS OIL CO.
Pure Gold "B" Federal #3
Eddy County, NM

Drilling Fluid Program

	Depth Ft.	Weight lb/gal	Viscosity Sec	Filtrate ml
	-----	-----	-----	-----
Surface:	0'	8.5	35	No
	to	to	to	Control
	700'	9.2	45	

Spud with fresh water gel. Add lime for sufficient viscosity to clean the hole. Paper may be used to control seepage, and mixed coarse LCM for severe to total loss.

Intermediate:	700'	10.0	30	No
	to	to	to	Control
	4070'	10.3	34	

Drill out from under surface casing with brine. Circulate a controlled section of the reserve pit with brine water + additives for solids control. May use paper to control seepage and additives to help with hole cleaning.

Production:	4070'	8.4	28	No
	to	to		Control
	7800'	9.0		

Drill out from under intermediate casing with fresh water/cut brine. Circulate a separate controlled section of the reserve pit with fresh water/cut brine + additives for solids control. Use lime or caustic soda for a 9.0-10.0 pH and paper to control seepage. Use additives for hole cleaning sweeps, if needed.

	7800'	8.6	30	15
	to	to	to	to
	TD	9.6	32	20

Start cut brine polymer. Return to the steel working pits with clean cut brine and prepare a light mud-up before reaching TD and logging. Use additives for filtrate control. Density may be adjusted to control pressures that may be encountered by addition of brine or fresh water as needed. Use caustic soda to maintain at 9.0.

SURFACE USE PLAN

KAISER-FRANCIS OIL COMPANY
Pure Gold "B" Federal No. 3
Sec. 20, T23S, R31E
Eddy County, New Mexico

1. EXISTING ROADS:

Exhibit D is a portion of a USGS Topographic map showing the existing roads into the proposed location. Exhibit E shows the existing access roads onto the drilling pad.

Exhibit F is a road map showing directions into the lease. From the Junction of State Highway 128 and the Lea/Eddy county line, go northwest 5.2 miles on State Highway 128, thence south 0.3 mile on lease road, thence west 0.3 mile on lease road to a point approximately 130' south of the location.

2. PLANNED ACCESS ROADS:

No new access road construction will be required.

3. LOCATION OF EXISTING WELLS:

Exhibit G is a plat showing existing wells and their locations

4. LOCATIONS OF TANK BATTERY, ELECTRICAL LINES, ETC:

In the event the well is completed as a producing well, temporary production facilities will be installed on the well site until the feasibility of further development drilling is evaluated. If additional development wells are drilled, a central production facility will be constructed on one of the well pads that will minimize flow line lengths and transport truck travel on the lease. Exhibit H is a diagram of a permanent tank battery facility. Flow lines and electric lines will be constructed down existing access road right of ways.

5. LOCATION AND TYPE OF WATER SUPPLY:

Water will be from commercial sources, either hauled or pipelined.

6. SOURCE OF CONSTRUCTION MATERIALS:

If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit A.

7. METHODS OF HANDLING WASTE DISPOSAL:

A. 1. Drill cuttings will be disposed of in the reserve pit.

2. Trash, waste paper, and garbage will be contained in covered trash containers and disposed of in an authorized land fill.
 3. If needed, sewage from the trailer house will drain into holes with minimum depth of 10' 00". These holes will be covered during drilling and backfilled upon completion. Portable sanitation facilities will be provided and properly maintained during drilling and completion operations for the rig crews.
 4. All extraneous material such as surplus casing, tubing, thread protectors, unused chemicals and containers, will be removed from the location.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

8. ANCILLARY FACILITIES:

None are planned or required.

9. WELLSITE LAYOUT:

-
- A. Exhibit I shows the relative location and dimensions of the well pad, reserve pits and major rig components.
 - B. The land is relatively flat with sandy soil.
 - C. The pad and pit area have been staked.

10. PLANS FOR RESTORATION OF THE SURFACE:

Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

After finishing drilling and/or other completion operations, all equipment and other materials not needed for further operations will be removed. Pits will be filled, and the location cleaned of all trash and junk to leave the wellsite as pleasant in appearance as possible.

If the proposed well is nonproductive, all restoration and/or vegetation requirements of the Bureau of Land Management will be complied with and will be accomplished as quickly as possible. All pits will be filled and levelled within 90 days after abandonment.

11. OTHER INFORMATION:

-
- A. The minerals are Federal Government.
 - B. The topography is undulating to slightly inclined terrain with vegetation of grassland formation, scrub-grass scrub disclimax community. The soil is Berino complex soil.
 - C. The surface is owned by J. C. Mills, P.O. Box 190, Abernathy, Texas 79311 and is used to mainly access producing wells in the area and grazing for livestock.
 - D. An Archaeological Survey has been made of the proposed location by Archaeological Survey Consultants, Roswell, New Mexico, and a copy of the report is attached. BLM records for Section 20, T23S, R31E indicate the recording of ASC Site 91-49-S1 (Ruebelman, 8/25/92). The site will not be endangered by construction activity. The survey did not reveal any cultural resources at this drilling pad. Also, there are no occupied dwellings or windmills.

12. OPERATOR'S REPRESENTATIVES:

The field representative for contact regarding compliance with the Surface Use Plan is:

David Rodawalt
Kaiser-Francis Oil Company
2440 Market St.
Rt. 5, Box 208
Odessa, Texas 79766
Phone (915) 337-2992

13. 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 the operations proposed herein will be performed by Kaiser-Francis Oil Company and its contractors/subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

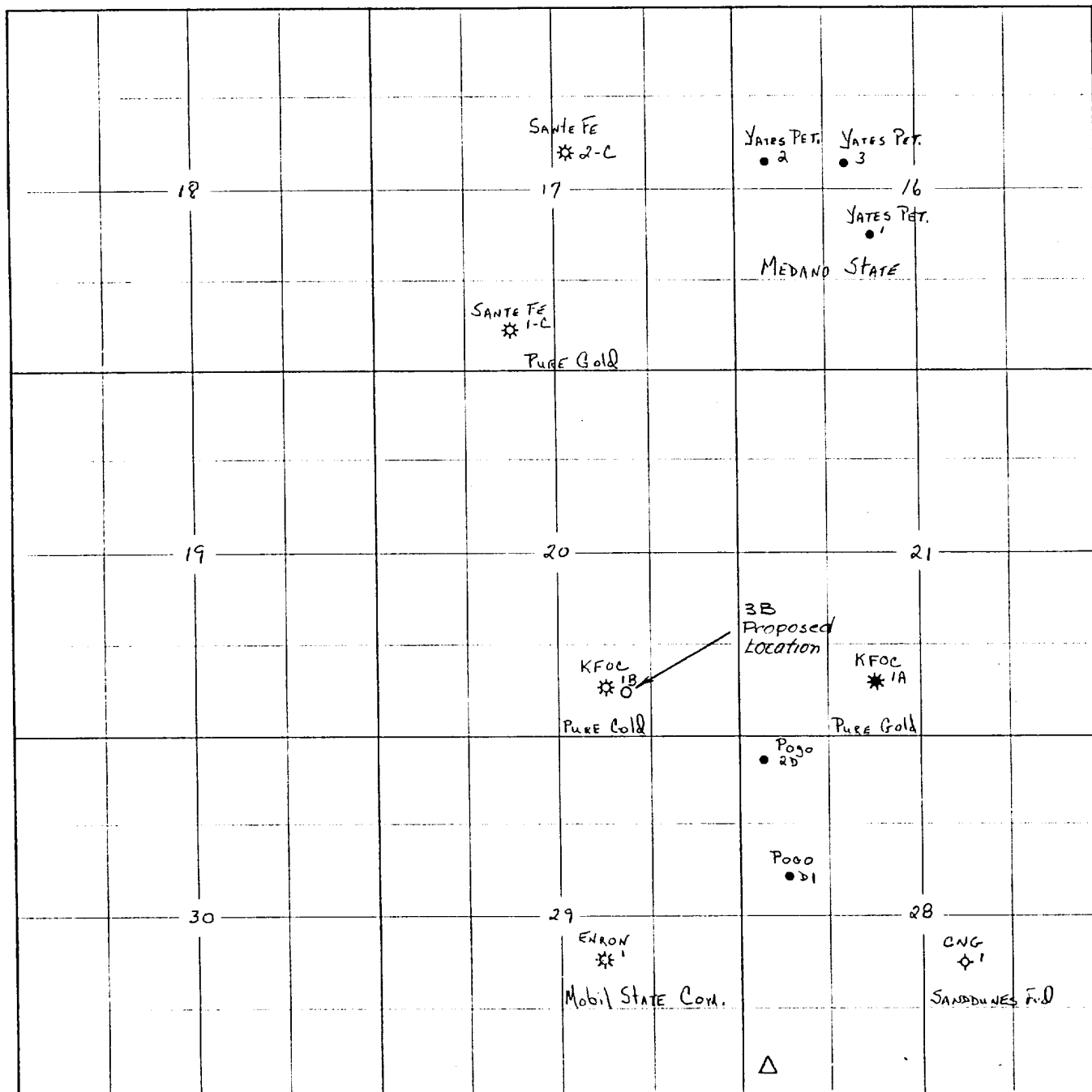
10/15/92

Date

Milton Griffin

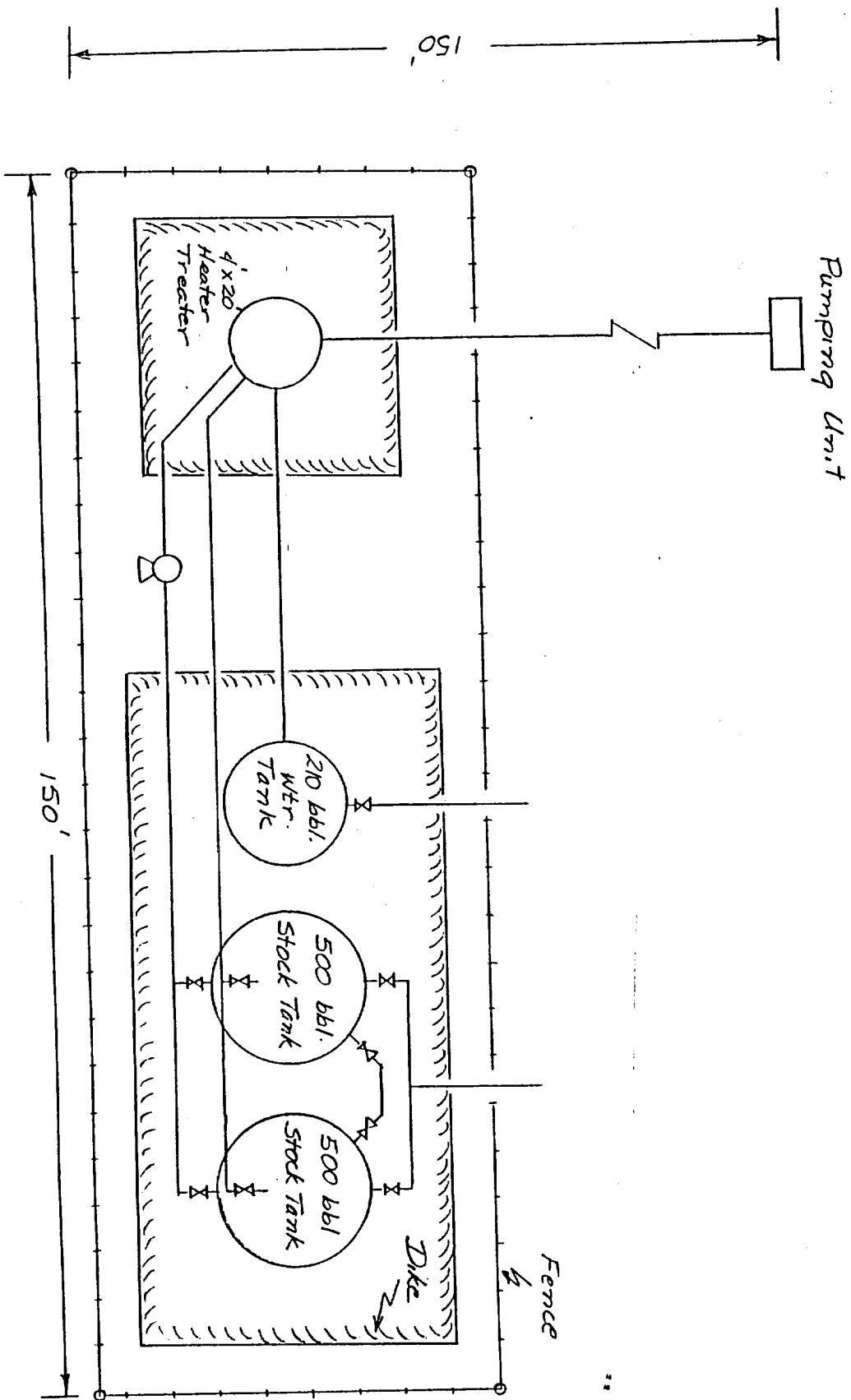
Milton Griffin
Operations Engineer

TOWNSHIP 23S RANGE 31E COUNTY Eddy STATE N.M.



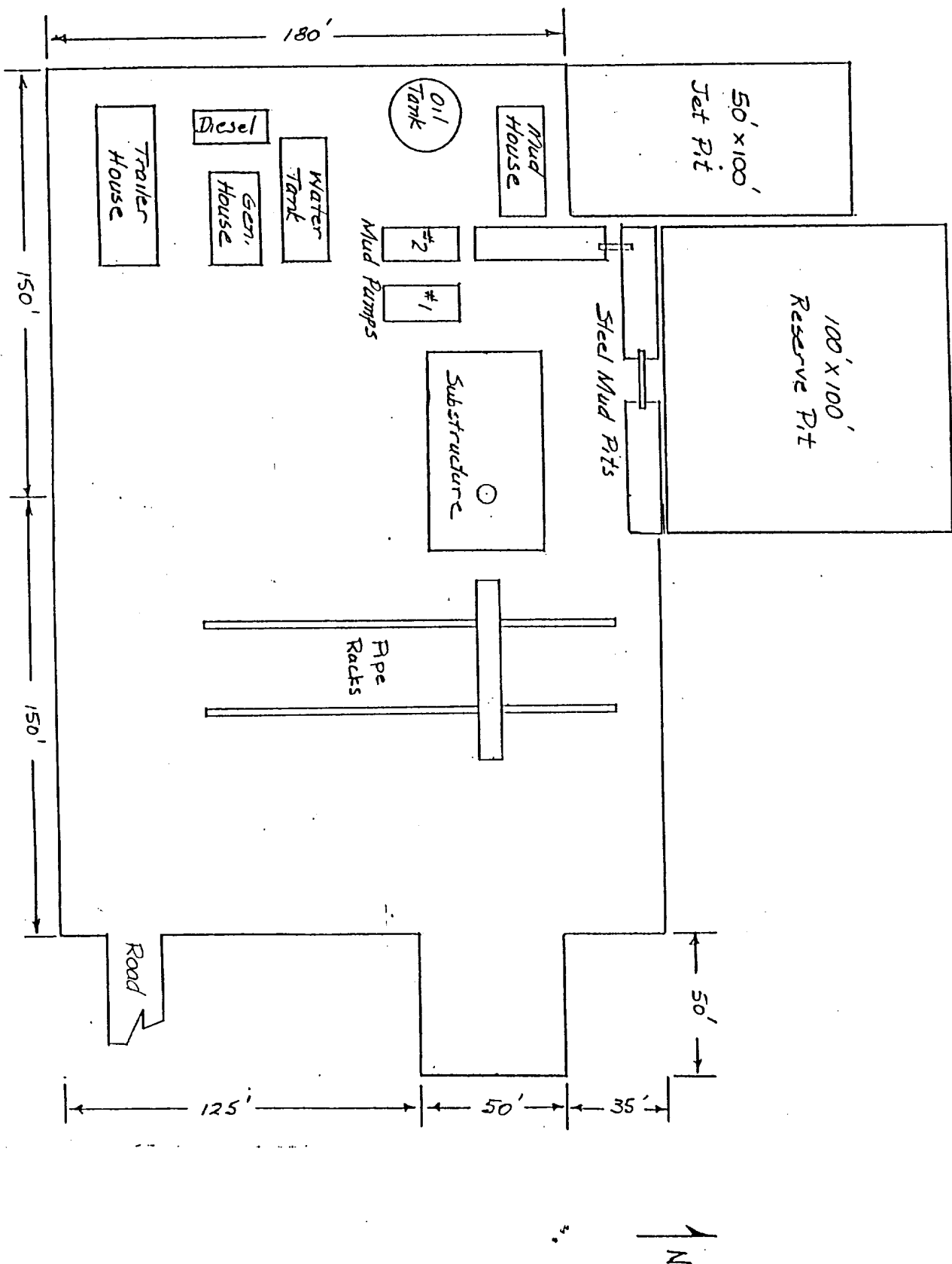
PRODUCTION FACILITIES

Exhibit H
KFOC
Pure Gold "B" Fed. #3



WELLSITE LAYOUT

Exhibit I
KFOC
Pure Gold "B" Fed. #3



ARCHAEOLOGICAL SURVEY of the ENRON OIL & GAS COMPANY
PURE GOLD "B" FEDERAL WELL NO. 3
T23S, R31E, SECTION 20 (SW $\frac{1}{4}$ SE $\frac{1}{4}$)
[660 FSL, 1650 FEL]. EDDY COUNTY, NEW MEXICO

FEDERAL LAND SURFACE
(U.S.G.S. 7.5 minute series, LOS MEDAÑOS, NEW MEXICO, 1985)

ASC Report 92-131

by James V. Sciscenti, Project Archaeologist

ARCHAEOLOGICAL SURVEY CONSULTANTS
P.O. Drawer D, Roswell, New Mexico 88202
[505] 623-5012

PERMIT NO.: 18-2920-92-F

September 3, 1992

Prepared for:

Enron Oil & Gas Company
P.O. Box 2267
Midland, Texas 79702

Attention: Betty Gildon

Distribution:

— Enron Oil & Gas Company (1)
BLM - Carlsbad Resource Area (2)
New Mexico SHPO (1)
Sciscenti (1)

ARCHAEOLOGICAL SURVEY CONSULTANTS

CULTURAL RESOURCES EXAMINATION

on lands administered by the
Department of the Interior
Bureau of Land Management
Roswell District, New Mexico

ASC PERMIT NO.: 18-2920-92-F
ASC JOB NO.: 92-131; Enron Oil
& Gas Company Pure Gold "B"
Federal Well No. 3

1. **ABSTRACT:** intensive archaeological survey of the Enron Oil & Gas Company Pure Gold "B" Federal Well No. 3 (400 ft. square), with a total federal land surface of 3.67 acres, was inspected for cultural remains. The location has been disturbed by construction of an oversized well pad on the west side of the proposed well pad, and a potash test pad in the SE quadrant. No new access road is required, since the pad straddles an extant, caliche, oilfield road.

Archaeological survey of the Enron Oil & Gas Company Pure Gold "B" Federal Well No. 3 did not reveal any cultural resources. Therefore, archaeological **CLEARANCE** for the Enron Oil & Gas Company Pure Gold "B" Federal Well No. 3 is **RECOMMENDED**.

2. **WELL PAD LOCATION:** T23S, R31E, Section 20: SW $\frac{1}{4}$ SE $\frac{1}{4}$ [660 FSL, 1650 FEL]. Eddy County, New Mexico.

Map Reference: U.S.G.S. 7.5 minute series, LOS MEDAÑOS, NEW MEXICO, 1985. **Land Status:** BLM, Roswell District, Carlsbad Resource Area, New Mexico.

3. **PROJECT DESCRIPTION:** well pad (400 ft. square), with a total federal land surface of 3.67 acres, was inspected for cultural remains.

TOPOGRAPHY: situated ca. 11.5 miles E of Salt Lake, & 7.0 miles east of Nash Draw, to the SE of Los Medaños. The well pad is situated to the W of a small enclosed sunken basin in an area of relatively deep aeolian topography, and undulating to slightly inclined terrain. A low dune rise occurs in the SW quadrant and adjacent to the NW corner. Swales occur to the north and east of the pad. Deflation processes consist of small deflation basins in the dune rises, with shallow blowouts elsewhere. **Soils:** Berino complex sands. **Permanent Water:** Pecos River, ca. 12.25 miles W/SW. **Potential Water:** Indian Well, ca. 5.0 miles W. **Elevation:** 3337 ft. to 3342 ft. **Slope:** 0.34° to 0.96°. **Aspect:** W/NW. **Lithic Resources:** not available in the immediate vicinity. **Vegetation:** Grassland Formation, Scrub-grass scrub disclimax community.

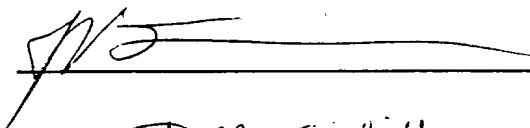
4. **EXAMINATION PROCEDURE:** straight and zig-zag transects, spaced no greater than 15 metres apart. **Work Hrs. on Ground:** 1.0. **Area Delineation:** staked by client. **Visibility:** ground, ca. 65% to 100% in deflation basins; weather, sunny.

5. **FINDINGS:** BLM records for Section 20 (T23S, R31E) indicate the recording of ASC Site 91-49-S1 (Ruebelmann, 8/25/92). The site will not be endangered by construction activity.

Archaeological survey of the Enron Oil & Gas Company Pure Gold "B" Federal Well No. 3 did not reveal any cultural resources.

6. **RECOMMENDATIONS:** archaeological **CLEARANCE** for the Enron Oil & Gas Company Pure Gold "B" Federal Well No. 3 is **RECOMMENDED**.

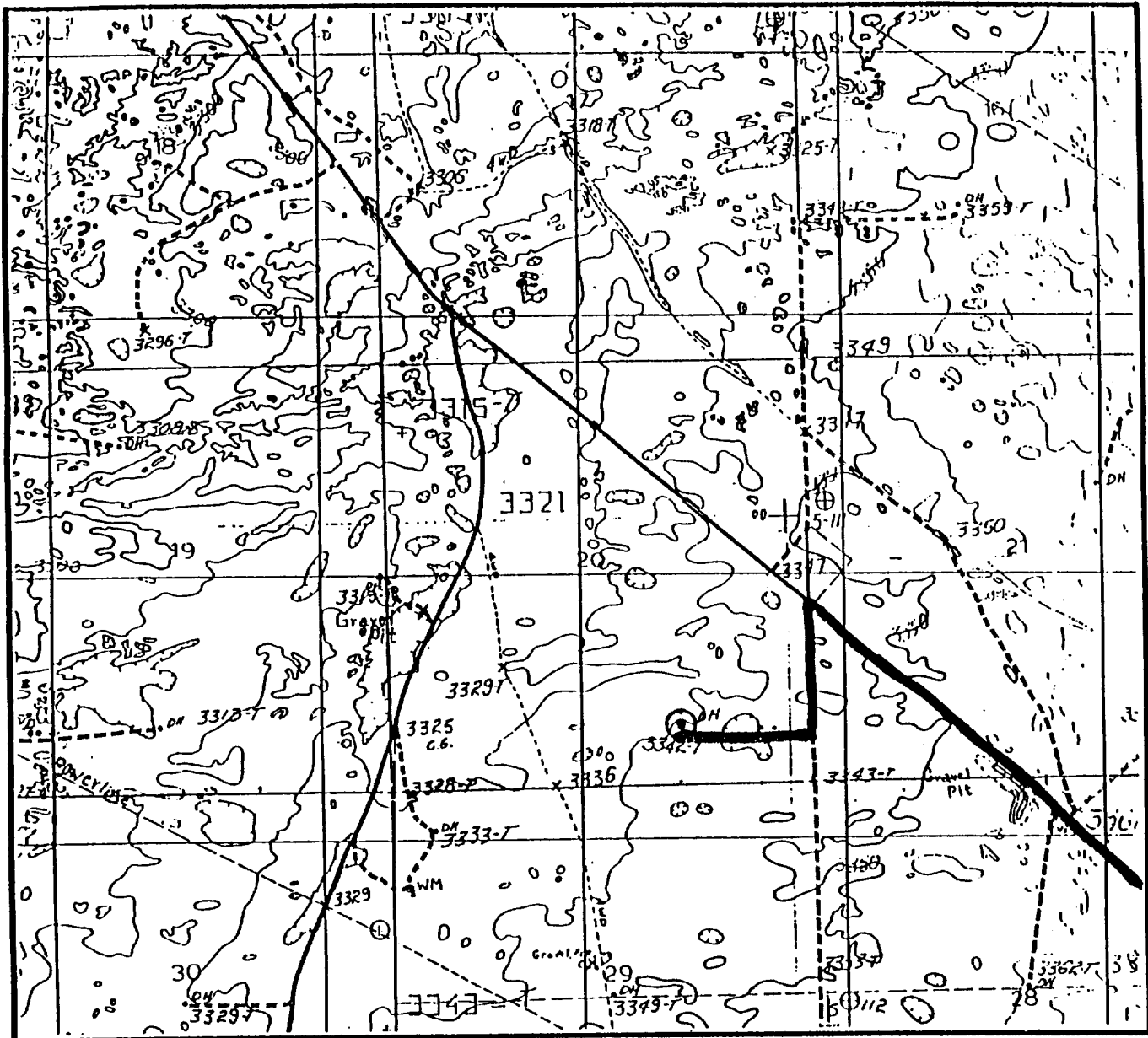
Date of Examination: August 27, 1992

Project Archaeologist: 

Principal Investigator: D.M. Griffiths

LOCATION & ELEVATION VERIFICATION MAP

EXHIBIT D
KFOC
Pure Gold "B" Fed #3



SCALE : 1" = 2000'

CONTOUR INTERVAL 10'

SECTION 20 TWP 23-S RGE 31-E
SURVEY NEW MEXICO PRINCIPAL MERIDIAN
COUNTY EDDY STATE NM
DESCRIPTION 660' FSL & 1650' FEL
ELEVATION 3343'

OPERATOR KAISER-FRANCIS OIL COMPANY
LEASE PURE GOLD "B" FEDERAL #3

U.S.G.S. TOPOGRAPHIC MAP
LOS MEDANOS, NEW MEXICO

SCALED LAT. N 32°17'04"
LONG. W 103°47'49"



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.
Review this plat and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

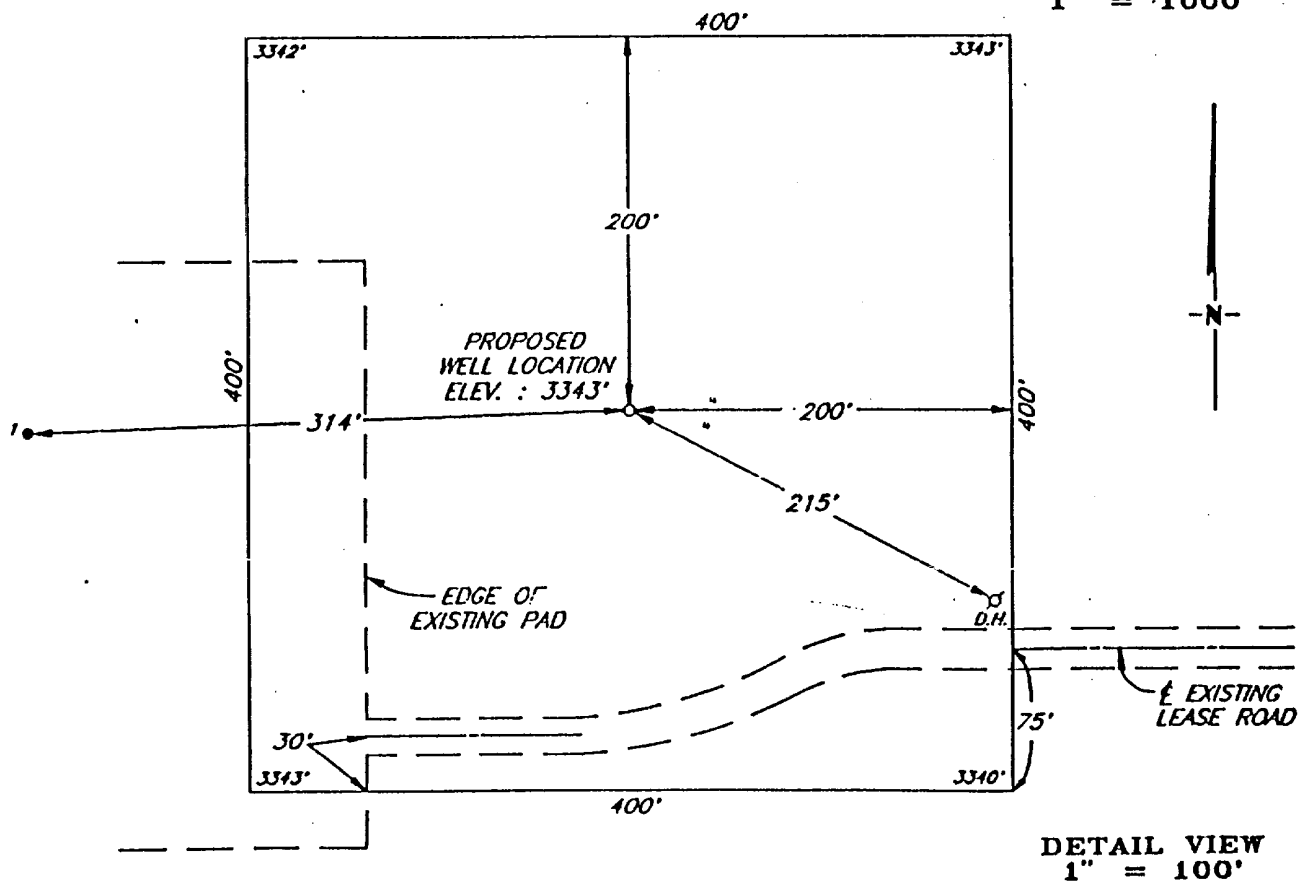
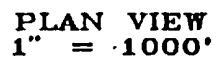
Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART
PAMPA, TX. 79065
(806) 665-7218

2903 N. BIG SPRING
MIDLAND, TX. 79705
(915) 682-1653

621 SUNSET CIRCLE
HOBBS, NM. 88240
(505) 392-5173

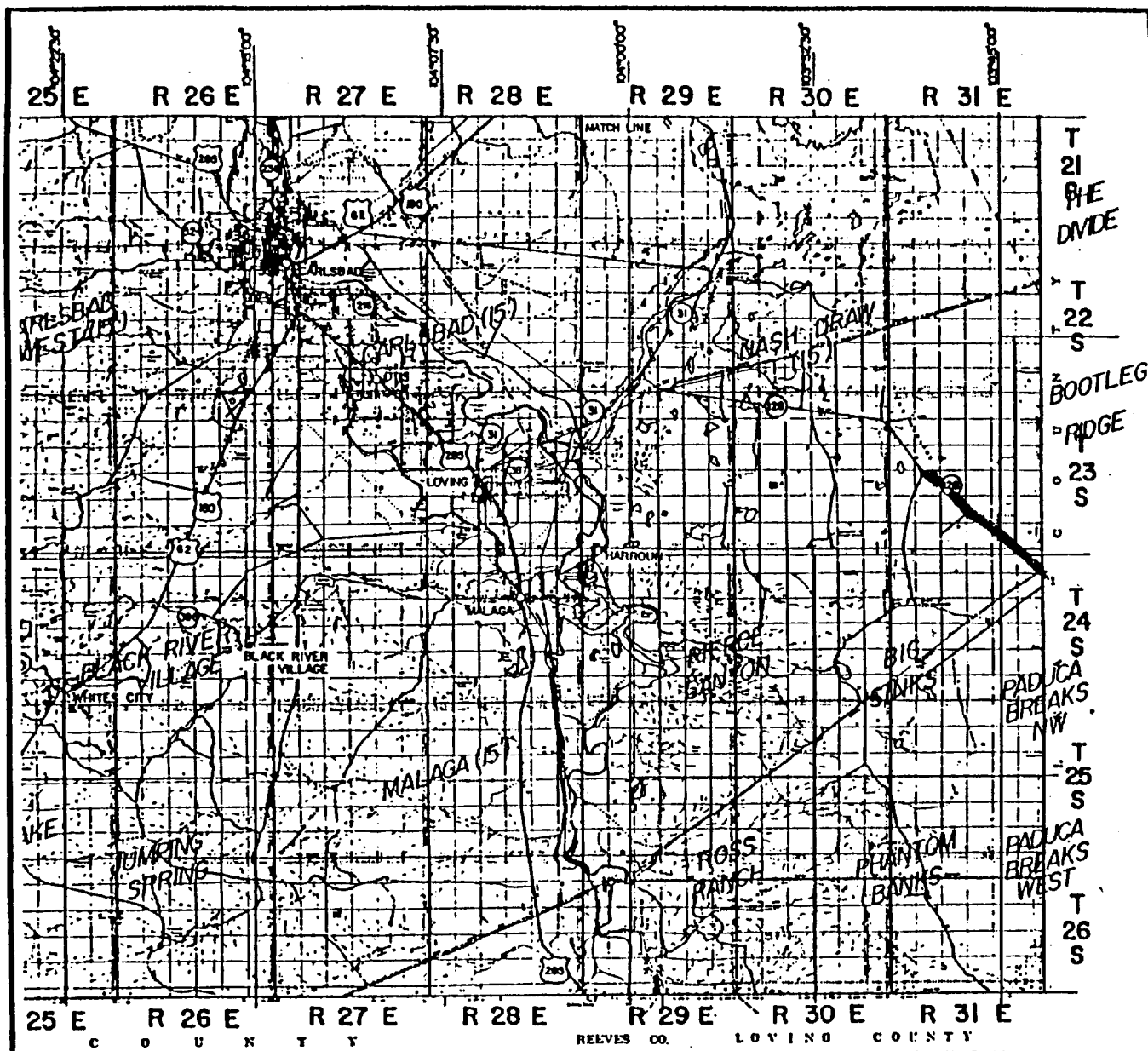
AT SHOWING PROPOSED
ILL LOCATION AND LEASE ROAD IN
SECTION 20, T-23-S; R-31-E, N.M.P.M.
DOY COUNTY, NEW MEXICO



			KAISER-FRANCIS OIL COMPANY TULSA, OKLAHOMA	SCALE: AS SHOWN
				DATE: AUGUST 8, 1992
REVISION	DATE	BY		JOB NO.: 92154
DRAWING BY: L.W.B. CHECKED BY: V.H.B.			SURVEYING AND MAPPING BY TOPOGRAPHIC LAND SURVEYORS	48 SE

VICINITY MAP

Exhibit F
KFOC
Pure Gold "B" Fed. #



SCALE: 1" = 5.5 MILES

SECTION 20 TWP 23-S RGE 31-E
 SURVEY NEW MEXICO PRINCIPAL MERIDIAN
 COUNTY EDDY STATE NM
 DESCRIPTION 660' FSL & 1650' FEL
 ELEVATION 3343'
 OPERATOR KAISER-FRANCIS OIL COMPANY
 LEASE PURE GOLD "B" FEDERAL #3

DISTANCE & DIRECTION FROM THE JCT. OF STATE
HWY. 128 & THE LEA / EDDY COUNTY LINE, GO
NORTHWEST 5.2 MILES ON STATE HWY. 128, THENCE
SOUTH 0.3 MILE ON LEASE ROAD, THENCE WEST 0.3
MILE ON LEASE ROAD TO A POINT ±130' SOUTH
OF THE LOCATION.

This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.
 Review this plot and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

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