

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Oryx Energy Company

3. ADDRESS OF OPERATOR
 P. O. Box 1861, Midland, Texas 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface I, 1980' FSL & 990' FEL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 18 miles SW from Hobbs

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 990'

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.

19. PROPOSED DEPTH
 13,800'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3548.3'

22. APPROX. DATE WORK WILL START*
 Upon Approval

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"	54.5#	500'	525 sxs C
12-1/4"	8-5/8"	32#	5200'	2500 sxs C
7-7/8"	5-1/2"	17 & 20#	13800'	1200 sxs H, est. TOC 8000'

Unorthodox location, administrative approval requested.

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 Maria F. Perez TITLE Accountant DATE 6-23-89
 (This space for Federal or State office use) 915-688-0375

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

OIL CONSERVATION DIVISION

Form O-201
District Office
State Lease - 4 Copies
Free Lease - 3 Copies

DISTRICT I
P.O. Box 1884, Hobbs, NM 88240

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II
P.O. Drawer 00, Artesia, NM 88210

DISTRICT III
100 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

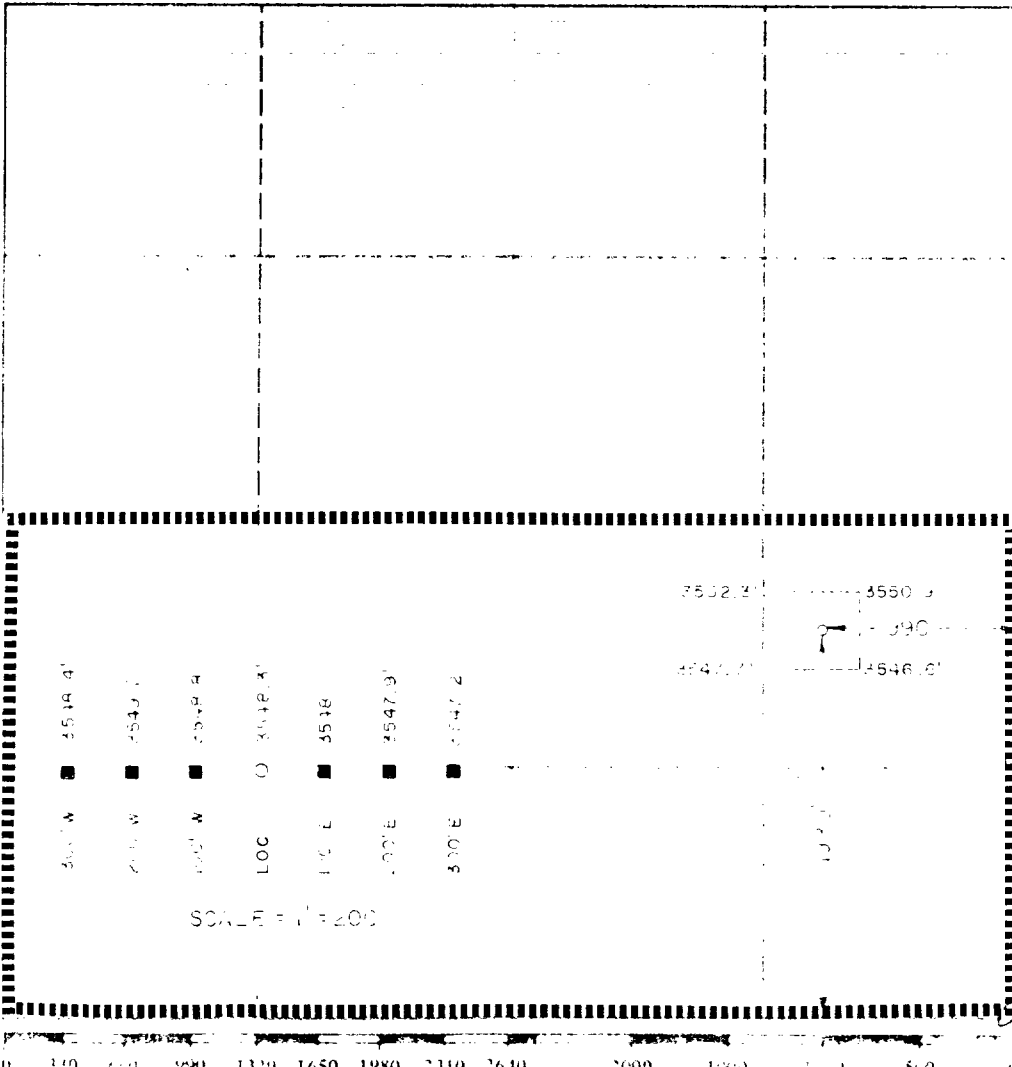
All Distances must be from the outer boundanes of the section

Operator Oryx Energy Company Lease Brookwood Well No. 1

Unit Letter 1 Section 1 Township 20 South Range 13 West County SMPM

Actual Footage Location of Well:
Ground level Elev. 3500 feet from the South line and 990 feet from the East line
Producing Formation Morrow Pool Wildcat Dedicated Acreage 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 Yes No If answer is "yes" type of consolidation Communitization
 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, force-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



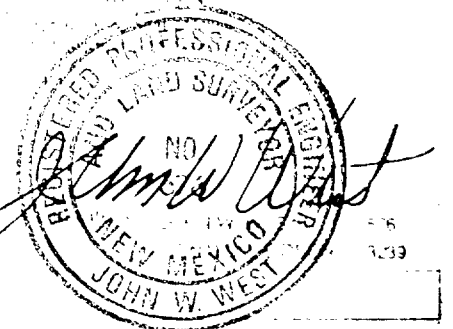
OPERATOR CERTIFICATION

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

Signature Maria L. Perez
 Printed Name Maria L. Perez
 Position Accountant
Oryx Energy Company
 Date 6-23-89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat is true and complete to the best of my knowledge and belief.



ILLEGIBLE



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
Unorthodox Location
Oryx Energy Company
Bronto Federal Com. No. 1
Wildcat - Morrow
I, 1980' FSL & 990' FEL
Sec. 9, T-20-S, R-33-E,
Lea County, New Mexico

Gentlemen:

Oryx Energy Company has applied for an application to drill an unorthodox location on the captioned lease.

A copy of the application and plat is attached for your information. This well is 990' from the end boundary. Field Rule requirements are no closer than 1980' from the end boundary.

If your, as an offset operator of this lease, have no objections to the drilling of this location, please sign the waiver below returning one copy to the Oil Conservation Division in Santa Fe and one copy to Oryx Energy Company. Self-addressed stamped envelopes are enclosed for your convenience.

Yours truly,

Maria L. Perez
Accountant

WAIVER:

DATE: _____

SIGNATURE: _____ TITLE: _____

COMPANY NAME: _____

Oryx Energy Company

Bronto Federal Comm. #1

Proration Unit - S/2 Section 9, T205-R33E
Location - 990' FEL & 1980' FSL, Lea County

OFFSET OPERATORS

- (●) American Exploration Company
2100 Republic Bank Centre
700 Louisiana, Suite 2100
Houston, Texas 77002
- (●) Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762
- (●) Grace Petroleum Corporation
6501 North Broadway
Oklahoma City, Oklahoma 73116
- (●) Barber Oil, Inc.
P. O. Box 1658
Carlsbad, New Mexico 88220
- (●) Bass Enterprises Production Co.
First City Bank Tower
201 Main Street
Ft. Worth, Texas 76102
- (●) Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201
- (●) A. W. Dugan
1212 Main Street, Suite 1400
Houston, Texas 77022
- (●) Fina Oil & Chemical Company
6 Desta Drive, Suite 4400
Midland, Texas 79705

*Mike Currence
protesting to location*

15-17 (H.E. Yates) 4000+1/2 U4 12,812 5/2
18-20 N. Madura - Fed. Ut. 20 53992
21 Union 6-1-79 27570
22 PanAm 70373 70373 KGS
23 Sapphires Fed. LAGUNA

24 Union (Chevron) 14794
25 Union 6-1-79 27570
26 Union 5-1-87 30071
27 Union 5-1-87 11618
28 Union 7-1-82 15918
29 Union Oil 13-1-82 29102
30 Union 10-1-86 46274
31 Union 11-1-85 7592
32 Union 10-1-86 46274
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UNION OPER.
MADURO-FED.
UNIT

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SALT LAKE

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TEN POINT DRILLING PLAN FOR BRONTO FEDERAL # 1
IN COMPLIANCE WITH ORDER NUMBER 1

ORYX ENERGY COMPANY
BRONTO FEDERAL COMM. # 1
SEC. 9, T20S, R33E
1980' FSL & 990' FEL
LEA COUNTY, NEW MEXICO

1) GEOLOGIC SURFACE FORMATION: QUATERNARY

2) ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

RUSTLER	1255	3RD. SAND	10615*
TOP SALT	1305	WOLFCAMP	11185*
BTM SALT	2855	STRAWN	12205*
YATES	3030	ATOKA SHALE	12475
DELAWARE SD.	4975	ATOKA "C" SAND	12750*
BONE SPRINGS LS.	8205	MIDDLE MORROW	13155*
1ST. SAND	8265*	LOWER MORROW	13475*
2ND. SAND	9805*	TD	13800

3) ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS, OR MINERALS:
FORMATIONS POSSIBLY PRODUCTIVE WITH OIL OR GAS ARE INDICATED
WITH AN ASTERISK (*) IN ABOVE SECTION 2.

4) PROPOSED CASING PROGRAM:

SIZE	CASING SEAT	FOOTAGE	GRADE	WEIGHT & THREAD
13 3/8	500	500	K-55	54.5# ST&C
8 5/8	5200	5200	K-55	32 0# ST&C
5 1/2		1900	N-80	17.0# BT&C
5 1/2		6800	N-80	17.0# LT&C
5 1/2	13800	5100	N-80	20.0# LT&C
2 7/8		13500	N-80	6.5# 8RD MOD.

5) PROPOSED CEMENTING PROGRAM:

13 3/8" CEMENT TO SURFACE WITH 525 SX. CLASS "C" + 2% CaCl₂ +
1/4 #/sx FLAKE.

HOLE VOLUME: 347 cu. ft.
CMT YIELD: 1.32 cu. ft./sx.
PERCENT EXCESS: 100%

8 5/8" ATTEMPT TO CEMENT TO SURFACE IN ONE STAGE USING
2300 SX. 65:35:6 LITE CLASS "C" + 10% SALT +
1/4 #/sx FLAKE; TAILED WITH 200SX. CLASS "C" NEAT.

TOC LEAD: SURFACE
TOC TAIL: 4700
HOLE VOLUME: LEAD 1195 cu. ft. (11" HOLE)
HOLE VOLUME: TAIL 127 cu. ft. (11" HOLE)
CMT YIELD: LEAD 1.89 cu. ft./sx.
CMT YIELD: TAIL 1.32 cu. ft./sx.
PERCENT EXCESS: LEAD 275%
PERCENT EXCESS: TAIL 100%

5) PROPOSED CEMENTING PROGRAM: CONTINUED

5 1/2" CEMENT IN ONE STAGE WITH 1200 SX. CLASS "H" PLUS DISPERSANTS, RETARDERS, FLUID LOSS CONTROL ADDITIVES, AND PREVENTIVE GAS MIGRATION ADDITIVES AS DEEMED NECESSARY FROM LOGS.

ESTIMATED TOC: 8000'
 HOLE VOLUME: 918 cu. ft.
 CMT YIELD: 1.18 cu. ft/sx.
 PERCENT EXCESS: 50%

NOTE: CEMENT VOLUMES WILL BE ADJUSTED BY CALIPER ON THE 8 5/8 AND 5 1/2 INCH STRINGS. IF LOSS CIRCULATION IS ENCOUNTERED ON EITHER SECTION OF HOLE, A TWO STAGE JOB MAY BE REQUIRED.

6) TYPE AND MUD SYSTEM CHARACTERISTICS:

FROM	TO	TYPE	WT.	VISC.	WL.
0	500	FW. W/ GEL, LIME & PAPER	8.4-9.0	28 - 40	NC
500	5400	BRINE WTR/ SALT GEL, LIME & PAPER SWEEPS/ OIL & STARCH AS NECESSARY.	10.0-10.2	28 - 32	NC
5400	9000	FW W/ GEL, LIME & PAPER SWEEPS.	8.4-9.0	28 - 32	NC
9000	12100	CUT BRINE TO BRINE W/ PREHYDRATED GEL, POLYMER, AND LCM SWEEPS. USE CAUSTIC pH CONTROL.	9.5-10.2	28 - 30	NC
12100	13800	BRINE MUD W/ PREHYDRATED GEL, XC POLYMER, & CAUSTIC. ADD KCL FOR WEIGHT AND INHIBITION. * LOWER WTR LOSS CONTROL TO BELOW 10cc THROUGH THE MORROW.	10.2-12.0	38 - 45	10-15 8-10*

7) BOP AND AUXILLARY EQUIPMENT:

BOP & CHOKE MANIFOLD WILL BE SETUP AS INDICATED ON EXHIBIT #D1 THROUGH #D4.

ACCUMULATOR VOLUME WILL BE SUFFICIENT TO PROVIDE REPEATED OPEN AND CLOSING OF PREVENTERS.

A DRILL PIPE AND DRILL COLLAR FULL OPENING SAFETY VALVE WILL BE KEPT ON THE RIG FLOOR IN THE OPEN POSITION AT ALL TIMES DURING DRILLING OPERATIONS.

AN UPPER AND LOWER KELLY COCK WILL BE USED.

THE HOLE WILL BE KEPT FULL AND FILL VOLUMES WILL BE MONITORED ON ALL TRIPS.

PVT, HYDRAULIC CHOKE, BULK BARITE, GAS SEPERATOR AND ROTATING HEAD WILL BE INSTALLED AND IN SERVICE BY 11100' (ABOVE THE WOLFCAMP). FLOW SENSORS WILL BE INSTALLED BY 8200' (ABOVE THE THE FIRST BONE SPRINGS SAND).

8) TEST PROCEDURE AND DRILLS:

RAM TYPE PREVENTERS WILL BE TESTED TO RATED W.P. OR 70% OF CASING BURST, WHICHEVER IS LESS.

ANNULAR TYPE BOP WILL BE TESTED TO 50% OF W.P.

PIPE RAMS WILL BE OPERATED ONCE EACH 24 HRS., AND BLIND RAMS WILL BE OPERATED ON EACH TRIP OUT OF THE HOLE.

APPROVED CLOSE-IN PROCEDURE TO BE POSTED ON THE RIG FLOOR.

EACH RIG CREW WILL HOLD A WEEKLY BOP DRILL.

9) TESTING PROGRAM:

POSSIBLE DST'S FROM 8200' TO TOTAL DEPTH AS DICTATED BY SHOWS. SUCH TESTS, IF NECESSARY, WILL BE CONDUCTED UNDER PRUDENT INDUSTRY PRACTICE.

OPEN HOLE LOGGING PROGRAM:

DLL-MSFL-GR-CAL	5200' TO TD
CNL-LDT-GR-CAL	5200' TO TD
	WILL PULL CNL-GR TO SURFACE.
LONGSPACED SONIC-GR-CAL	5200' TO TD

MUD LOGGING UNIT TO BE IN SERVICE FROM 2500' TO TOTAL DEPTH.

10) POTENTIAL HAZARDS:

NO H2S OR ABNORMAL TEMPERATURES ARE ANTICIPATED.

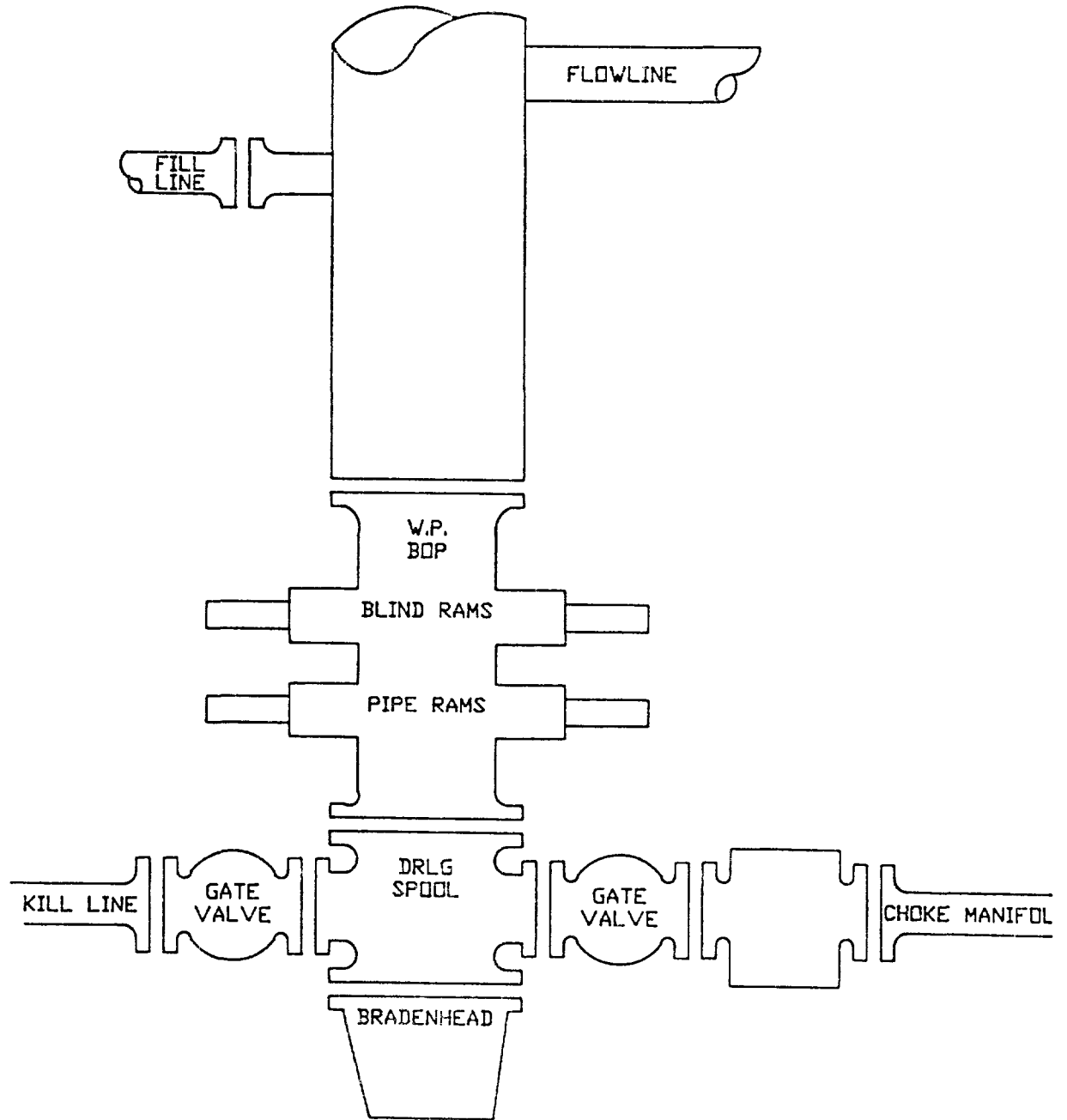
ABNORMAL PRESSURES ARE POSSIBLE FROM 12200' TO TD, BUT HAVE BEEN CONSIDERED AND DESIGNED FOR IN THE PROPOSED PROGRAM.

MAXIMUM MUD WEIGHT IS ANTICIPATED TO BE 12.0 PPG.

11) ESTIMATED STARTING DATE:

ANTICIPATE STARTING OPERATIONS ON OR BEFORE AUGUST 1, 1989 DUE TO A CRITICAL SPUD DATE.

EXHIBIT D1
3000 psi WP
500-5200'



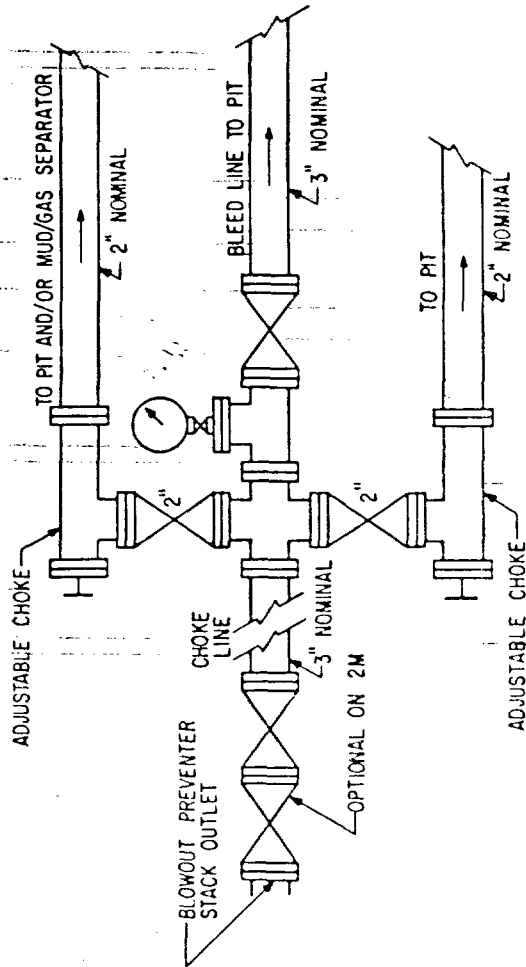


FIG. 3.A.1

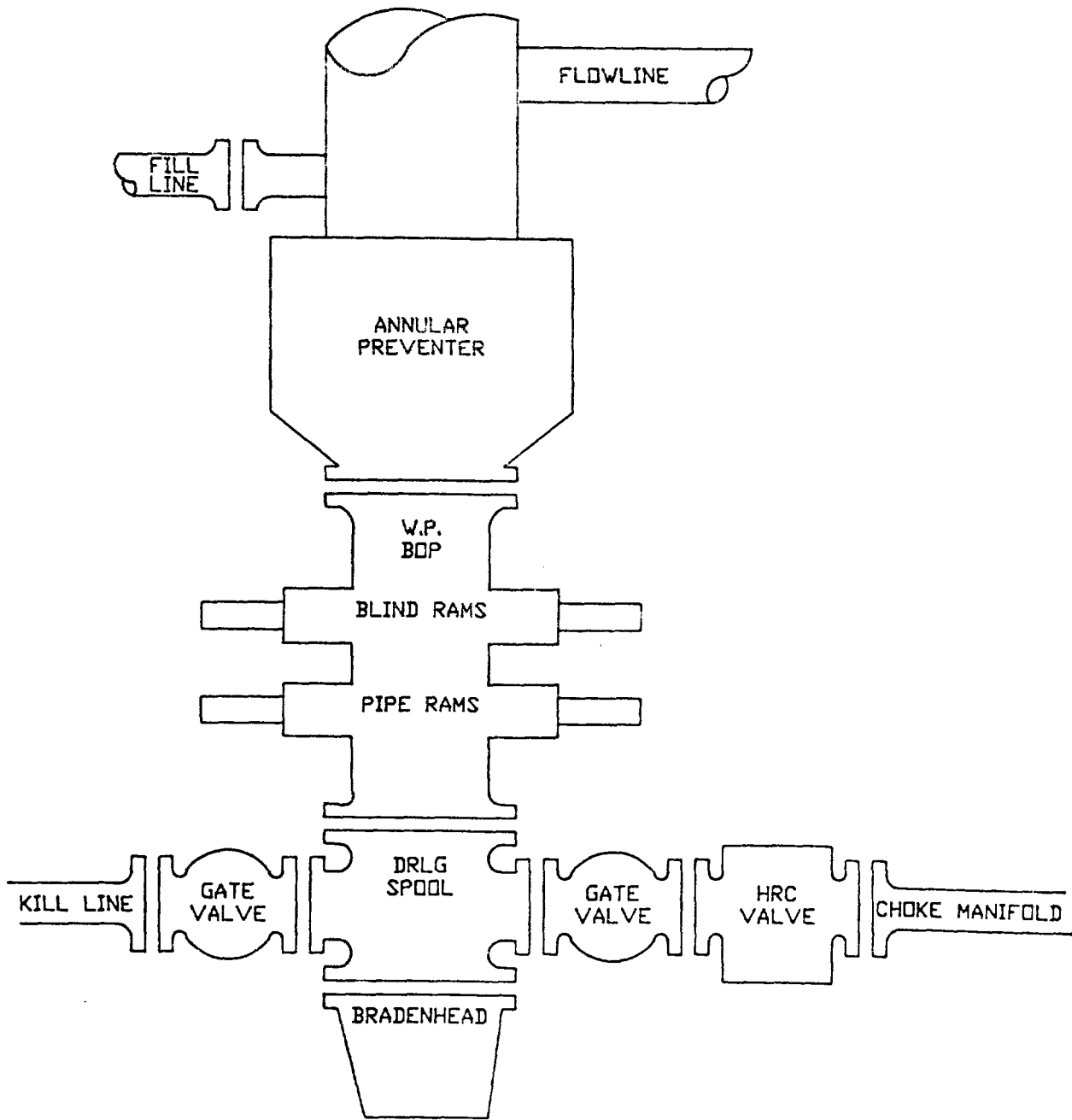
TYPICAL CHOKE MANIFOLD ASSEMBLY
FOR 2M AND 3M RATED WORKING
PRESSURE SERVICE — SURFACE INSTALLATION

EXHIBIT DZ
3000 P.S.I.
500-5200

EXHIBIT D-3

5200-13,800'

5000 psi



TYPICAL CHOKE MANIFOLD ASSEMBLY FOR 5M
 RATED WORKING PRESSURE SERVICE —
 SURFACE INSTALLATION

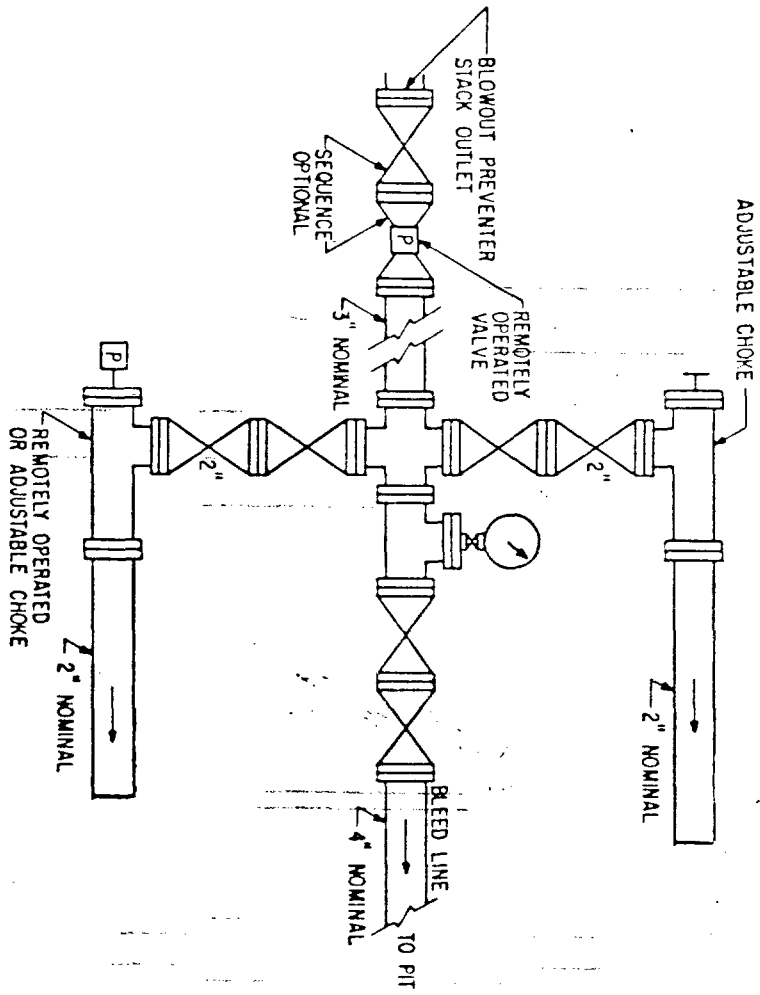
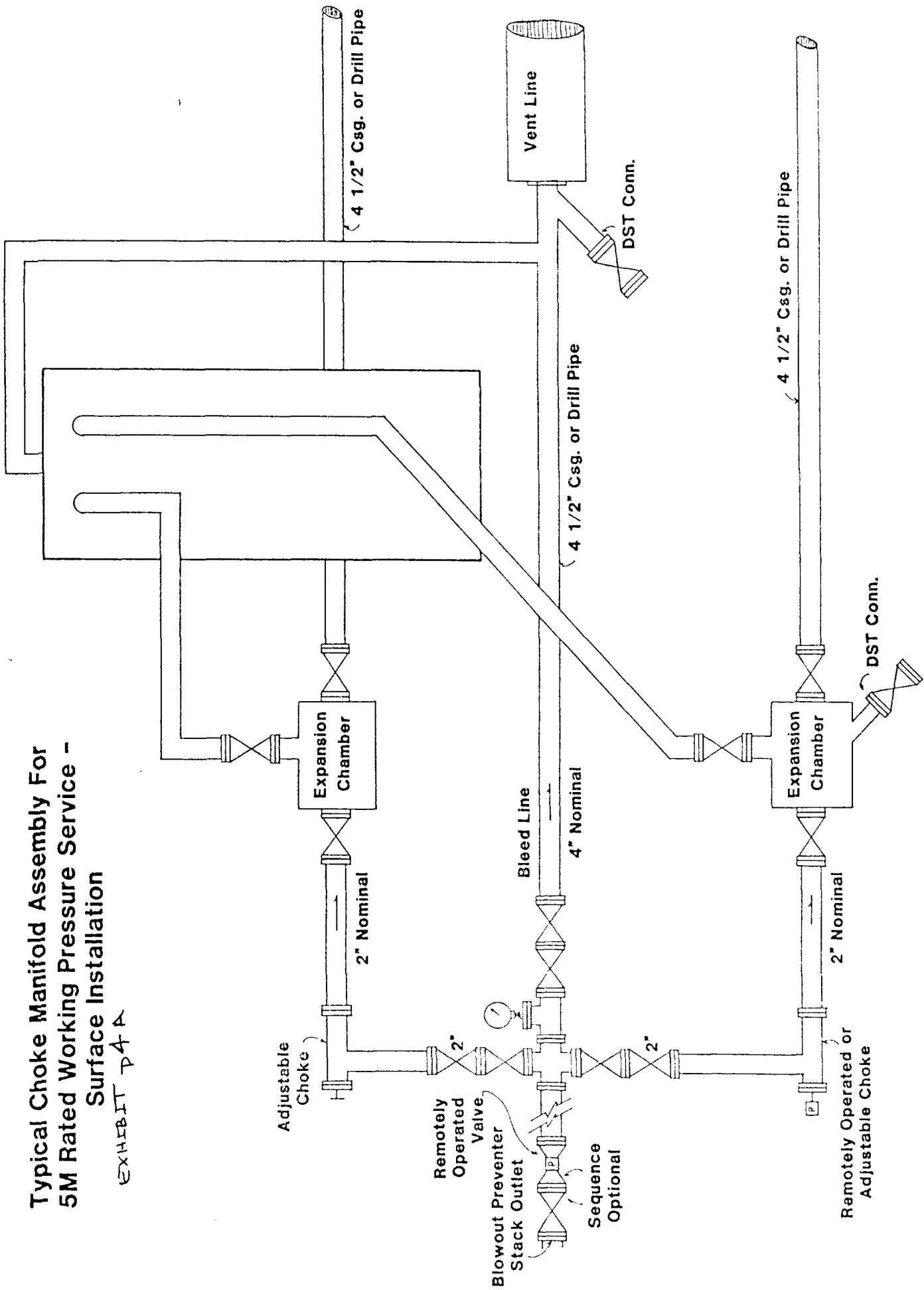


EXHIBIT D4
 S200-13,800
 5000 psi.

Typical Choke Manifold Assembly For 5M Rated Working Pressure Service - Surface Installation

EXHIBIT P4A



MULTI-POINT SURFACE USE AND OPERATION

DRYX ENERGY COMPANY
BRONTO FEDERAL COMM. # 1
SEC. 9, T20S, R33E
1980' FSL & 990' FEL
LEA COUNTY, NEW MEXICO

1) EXISTING ROADS:

- A. THE PROPOSED WELLSITE AND EXISTING ROADS TO PROPOSED LOCATION ARE SHOWN IN EXHIBIT #1. THE DIRECTIONS TO THIS WELL ARE AS FOLLOWS:

FROM HOBBS N.M., TRAVEL WEST ON HWY. 62/180 TOWARDS CARLSBAD 32 MILES TO MILE MARKER 72. TURN NORTH ON 1ST. LEASE ROAD PAST MILE MARKER 72. FOLLOW LEASE THAT ANGLES WEST THEN NORTH FOR 1 MILE. TURN EAST AND TRAVEL .5 MILE TO LOCATION.

- B. EXHIBIT #2 IS A TOPOGRAPHIC MAP INDICATING THE PROPOSED WELL LOCATION.

2) PLANNED ACCESS ROADS:

AN ACCESS ROAD APPROXIMATELY .5 MILES LONG WILL BE CONSTRUCTED ACROSS SECTION 9 OF T20S, R33E, LEA COUNTY, NEW MEXICO. THE ROAD WILL BE CONSTRUCTED WITH CALICHE. NO ARCHAEOLOGICAL FINDS WERE OBSERVED IN THE PROPOSED RIGHT-OF-WAY.

3) LOCATION OF EXISTING WELLS:

EXISTING WELLS WITHIN A ONE-MILE RADIUS ARE SHOWN ON EXHIBIT #3.

4) LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

- A. EXISTING FACILITIES WITHIN A ONE-MILE RADIUS OF THE PROPOSED LOCATION CAN BE SEEN ON EXHIBIT # 3. THESE EXISTING FACILITIES INCLUDE OIL OR GAS WELLS AND THEIR RESPECTIVE BATTERIES.

- B. IF THE PROPOSED WELL IS COMPLETED AND PRODUCTIVE, PLANS ARE TO CONSTRUCT A TANK BATTERY AT THE WELL PAD AND NO ADDITIONAL SURFACE DISTURBANCE WILL OCCUR.

5) LOCATION AND TYPE OF WATER SUPPLY:

WATER WILL BE PURCHASED FROM A COMMERCIAL WATER HAULER AND TRUCKED TO THE PROPOSED WELLSITE.

6) SOURCE OF CONSTRUCTION MATERIALS:

CALICHE FOR CONSTRUCTING THE ACCESS ROAD AND FOR CONSTRUCTING THE PROPOSED WELL LOCATION WILL BE OBTAINED FROM A CALICHE PIT LOCATED IN THE W/2 OF SECTION 14, T20S, R33E. LOCATION OF THE CALICHE PIT CAN BE SEEN IN EXHIBIT #1.

7) METHODS OF HANDLING WASTE DISPOSAL:

- A. DRILL CUTTINGS WILL BE DISPOSED OF IN THE RESERVE PIT.
- B. DRILLING FLUID WILL BE ALLOWED TO EVAPORATE IN THE RESERVE PIT UNTIL PITS ARE DRY.
- C. WATER PRODUCED DURING TESTS WILL BE DISPOSED OF IN THE RESERVE PITS. OIL PRODUCED DURING TESTS WILL BE STORED IN A TEST TANK UNTIL SOLD. GAS WILL BE FLARED.
- D. SALTS AND CHEMICALS WILL BE DEPOSITED IN THE RESERVE PIT.
- E. A SEPTIC BOREHOLE WILL BE CONSTRUCTED AT THE LOCATION FOR THE DISPOSAL OF HUMAN WASTE.
- F. TRASH, WASTE PAPER, GARBAGE AND JUNK WILL BE BURIED IN A SEPARATE TRASH PIT (SEE BURN PIT ON EXHIBIT #4) AND COVERED WITH A MINIMUM OF 24 INCHES OF DIRT.
- G. ALL TRASH AND DEBRIS WILL BE BURIED OR REMOVED FROM THE WELLSITE AFTER FINISHING DRILLING AND/OR COMPLETION OPERATIONS.

8) ANCILLARY FACILITIES:

NONE REQUIRED

9) WELLSITE LAYOUT:

- A. EXHIBIT #4 SHOWS THE GENERAL LOCATION AND DIMENSIONS OF THE WELL LOCATION, MUD PITS, RESERVE PIT, BURN PIT, AND THE AREA OF LOCATION FOR MAJOR RIG COMPONENTS.
- B. LEVELLING OF THE WELLSITE WILL BE REQUIRED. NO SIGNIFICANT CUT OR FILLS WILL BE NECESSARY.
- C. THE RESERVE PIT WILL BE PLASTIC LINED.

10) PLANS FOR RECLAMATION OF THE SURFACE:

- A. AFTER COMPLETION OF DRILLING AND TESTING PROGRAM, ALL EQUIPMENT AND OTHER MATERIAL NOT NEEDED FOR OPERATIONS WILL BE REMOVED. PITS WILL BE FILLED AND THE LOCATION CLEANED OF ALL TRASH AND JUNK.
- B. ANY UNGUARDED PITS CONTAINING FLUIDS WILL BE FENCED UNTIL THEY ARE FILLED.
- C. AGREEMENT BETWEEN DRILLING CONTRACTOR AND BLM TO STACK THE DRILLING RIG ON LOCATION WILL BE THE RESPONSIBILITY OF THE DRILLING CONTRACTOR.
- D. AFTER ABANDONMENT OF THE WELL, SURFACE RESTORATION WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SURFACE MANAGEMENT AGENCY. PITS WILL BE FILLED AND LOCATION WILL BE CLEANED. THE PIT AREA, WELL PAD AND SURFACE LOCATION WILL BE RIPPED TO PROMOTE RE-VEGETATION.

11) SURFACE OWNERSHIP:

SNYDER RANCHES, INC.
P.O. BOX 726
LOVINGTON, NM 88260
SURFACE/GRASS LESSOR
ATTN. LARRY SQUIRES

OWNERSHIP:
BUREAU OF LAND MANAGEMENT
P.O. BOX 1778
CARLSBAD, NM 88220

12) OTHER INFORMATION:

A. TOPOGRAPHY: LAND SURFACE IS MOSTLY FLAT WITH SMALL SAND DUNES, COVERED WITH MESQUITE, SHINNERY OAK, AND SAND SAGE.

THE GROUND LEVEL ELEVATION OF THE WELLSITE IS 3548'.

B. SOIL: SAND UNDERLAIN BY CALICHE.

C. PONDS AND STREAMS: THERE ARE NO RIVERS, STREAMS, LAKES, OR MAJOR PONDS IN THE AREA.

D. ARCHAEOLOGICAL SURVEY: AN ARCHAEOLOGICAL CLEARANCE SURVEY WAS CONDUCTED ON JUNE 16, 1989 BY AN INVESTIGATOR FROM NEW MEXICO ARCHAEOLOGICAL SERVICES, INC. THE ARCHAEOLOGICAL CLEARANCE REPORT CAN BE REVIEWED IN EXHIBIT #5. ANY STIPULATIONS FOR ARCHAEOLOGICAL PROTECTION WILL BE INCORPORATED IN OUR SURFACE USE PLAN.

E. LAND USE: GRAZING AND HUNTING SEASON.

13) THE COMPANY REPRESENTATIVES RESPONSIBLE FOR ASSURING COMPLIANCE WITH THE APPROVED SURFACE USE AND OPERATIONS PLAN ARE AS FOLLOWS:

STEVE LIMKE
(915) 688-0494 (OFFICE)
(915) 684-9791 (HOME)
MIDLAND, TEXAS

BOB BAKER
(915) 688-0495 (OFFICE)
(915) 689-7711 (HOME)
MIDLAND, TEXAS

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 OPERATIONS PROPOSED HEREIN WILL BE PERFORMED BY ORYX ENERGY COMPANY AND IT'S CONTRACTORS AND SUBCONTRACTORS IN CONFORMITY WITH THIS PLAN AND THE TERMS AND CONDITIONS UNDER WHICH IT IS APPROVED.

6-19-89

DATE

Bob Baker FOR STEVE LIMKE
STEVE LIMKE
DRILLING SUPERVISOR

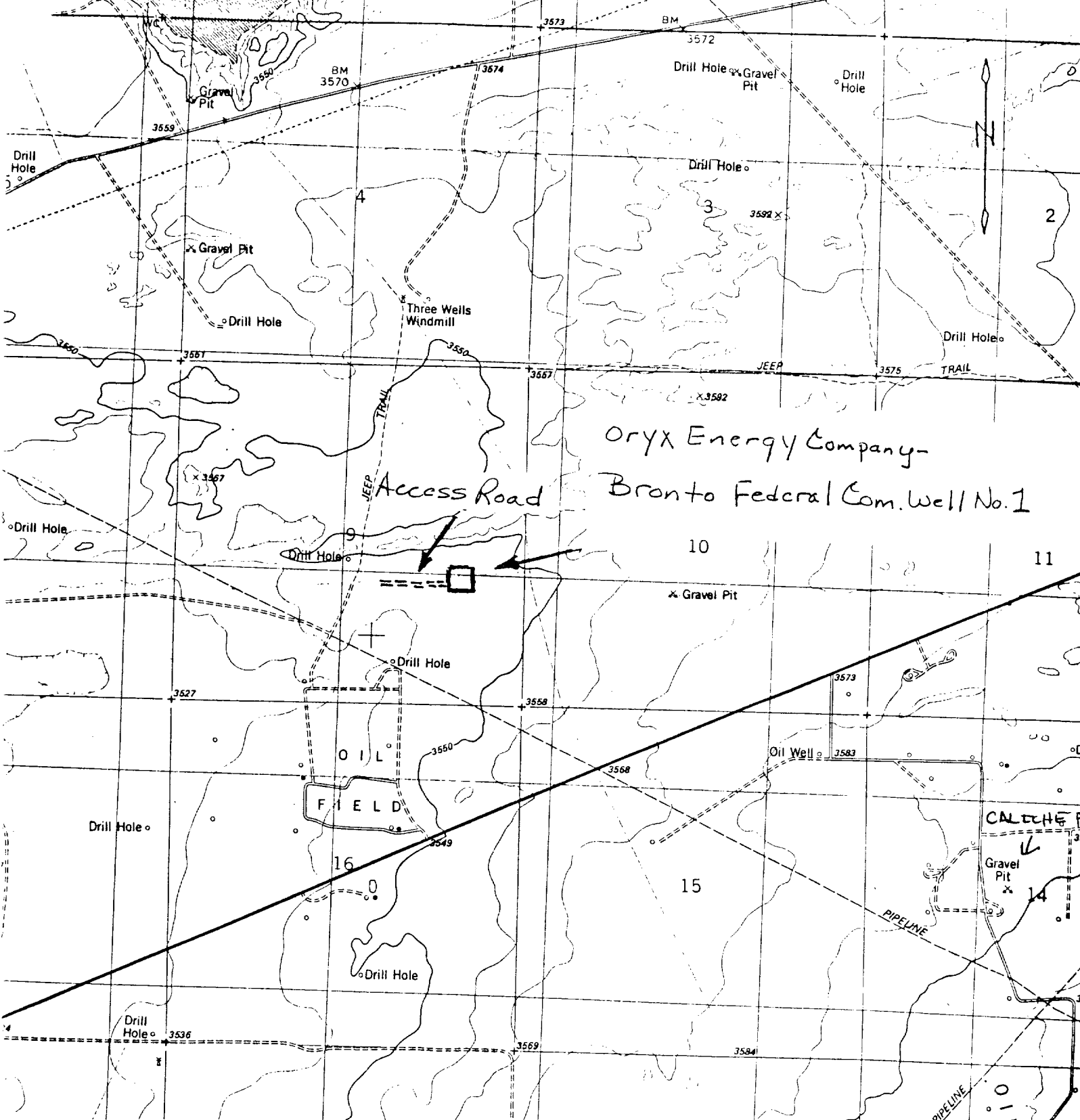
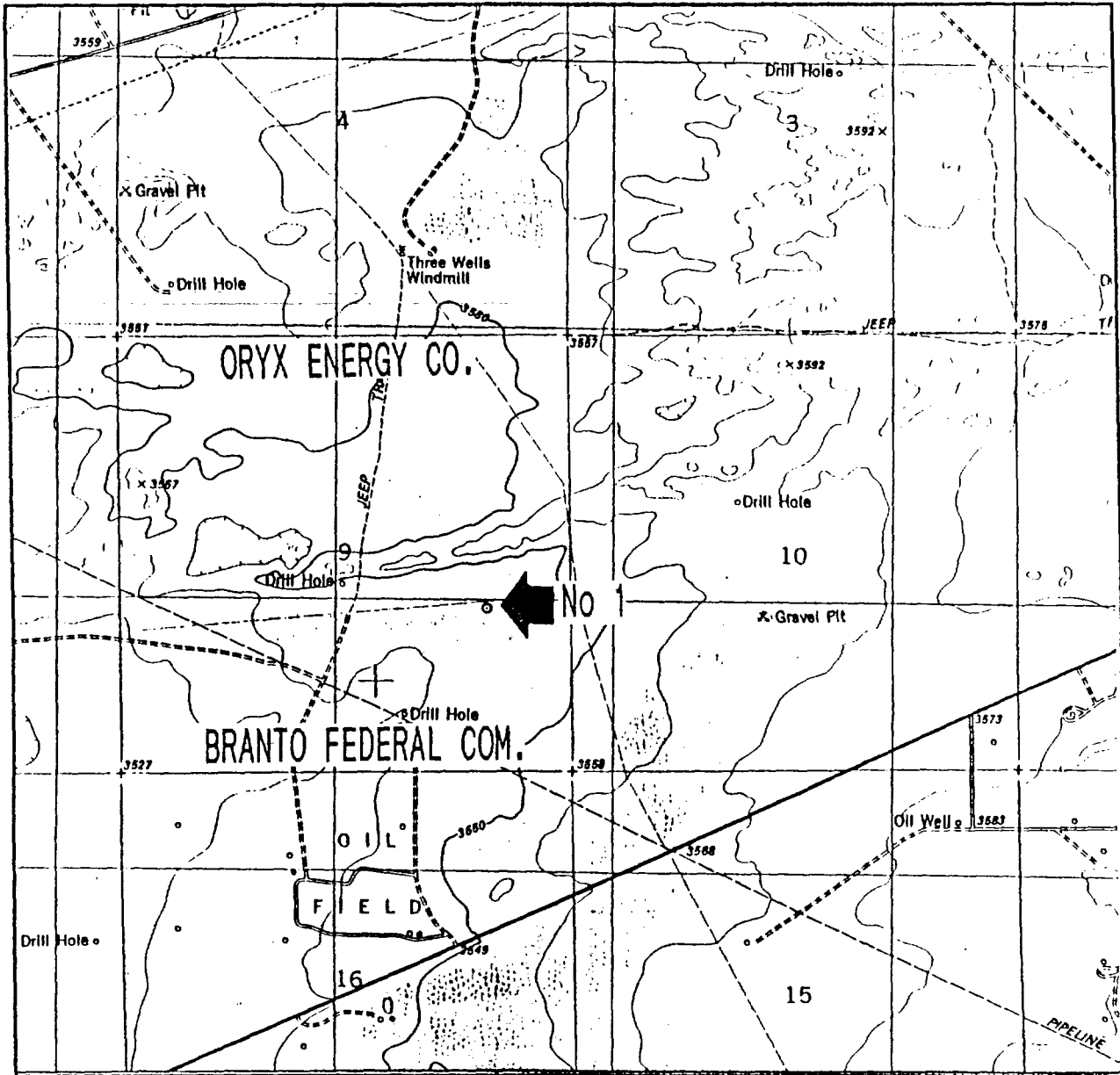


Fig. 1. USGS LAGUNA GATUNA QUADRANGLE, 7.5 Minute Series, 1:24,000, 1984, showing ORYX ENERGY COMPANY's proposed Bronto Federal Com. Well No. 1, 990 FEL, 1980 FSL, and access road, Section 9, T20S, R33E, NMPM, Lea County, New Mexico.

EXHIBIT #1

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL 10'

SEC. 9 TWP. 20S RGE. 33E

SURVEY N.M.P.M.

COUNTY Lea STATE NM

DESCRIPTION 1980' ESL & 990' FEL

ELEVATION 3548.3

OPERATOR Oryx Energy Co.

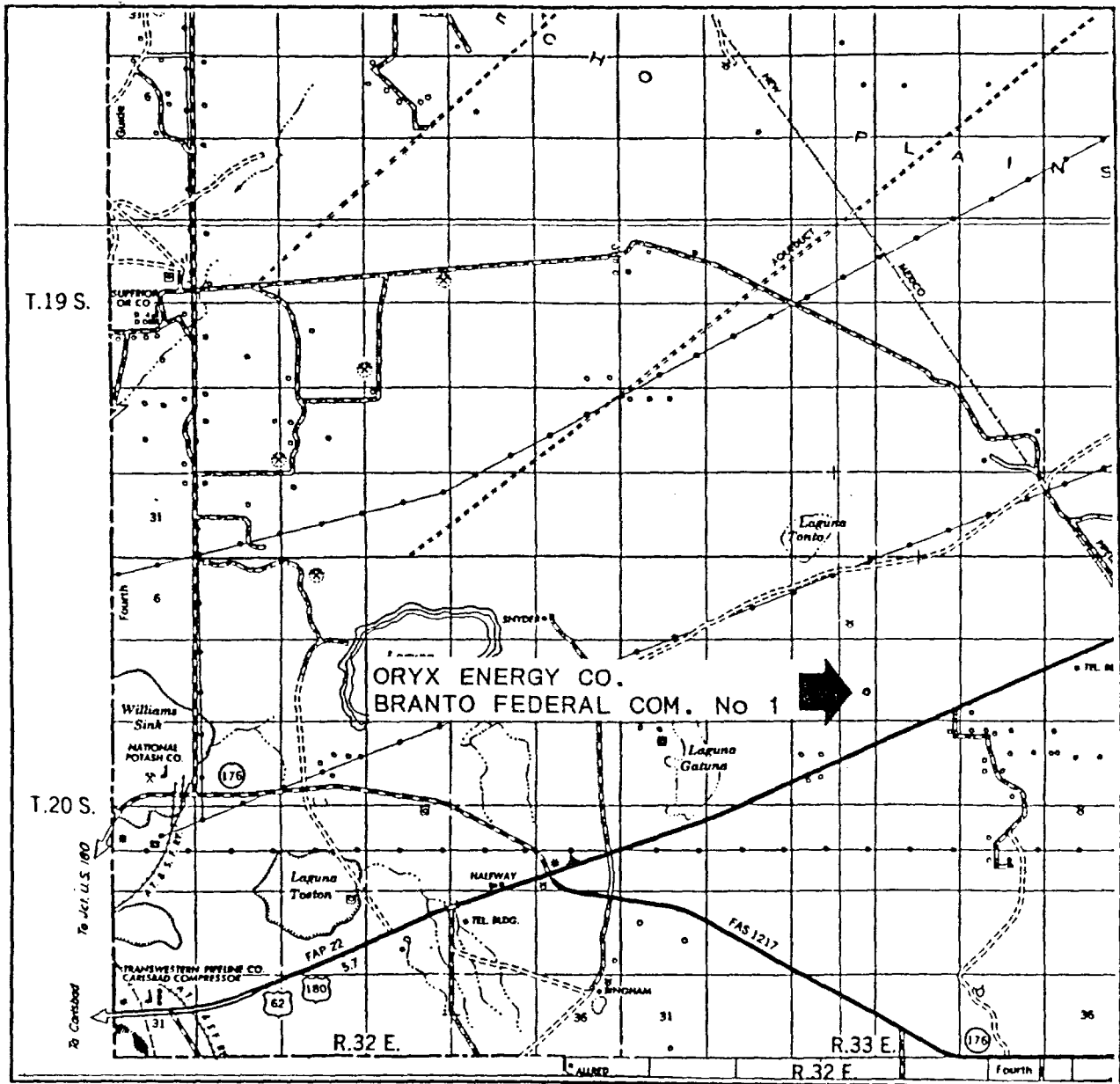
LEASE Branto Federal Com. #1

U.S.G.S. TOPOGRAPHIC MAP

Laguna Gatuna, NM

EXHIBIT #2

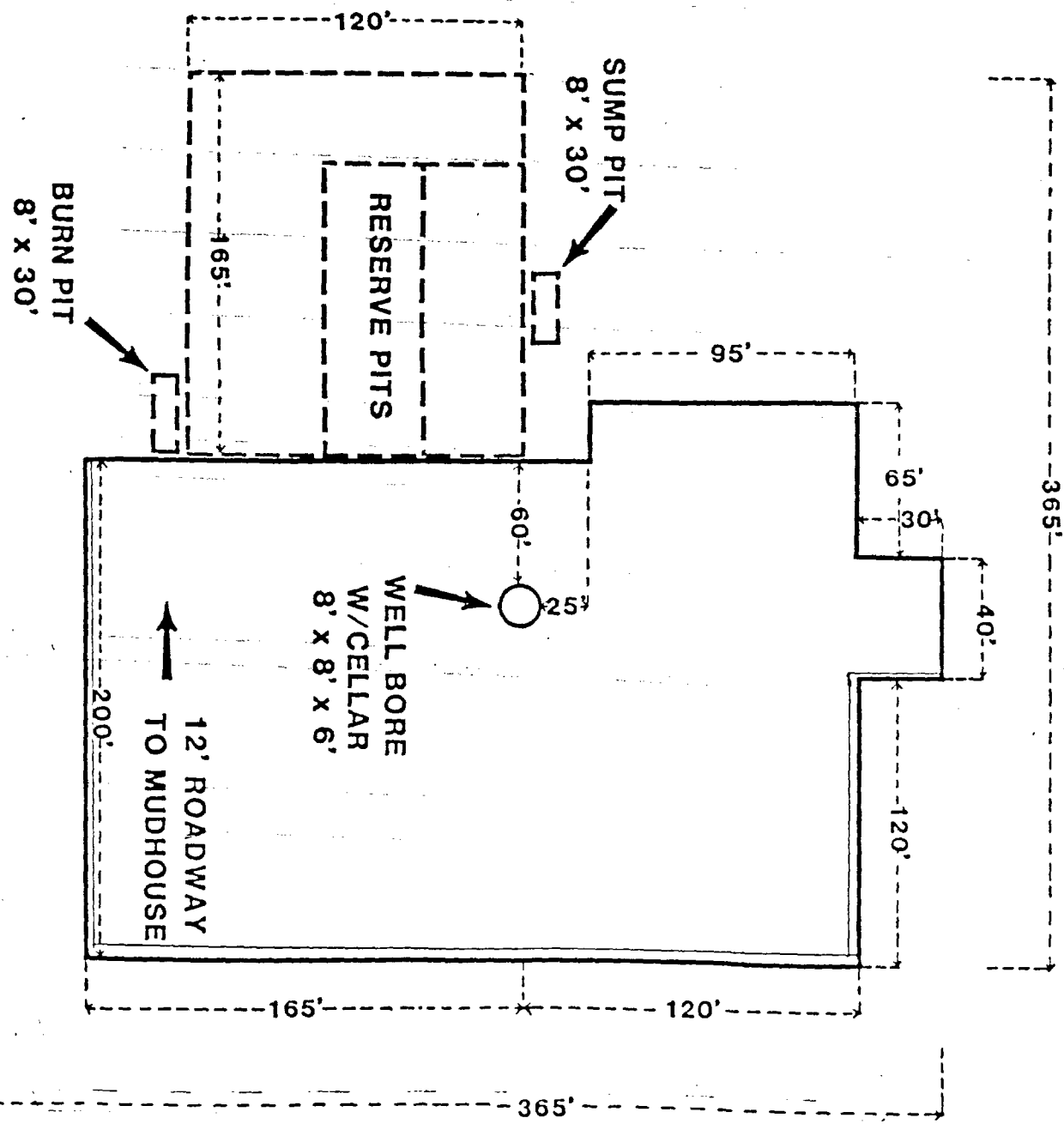
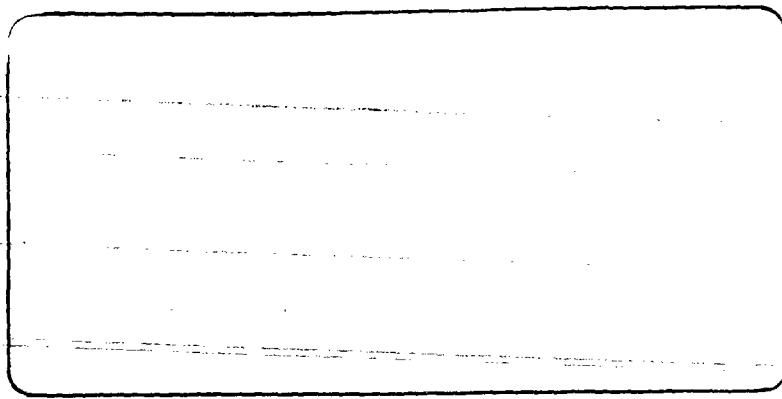
VICINITY MAP

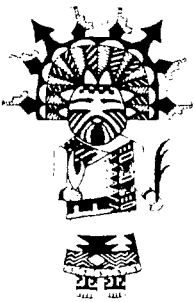


SCALE: 1" = 2 MILES

SEC. 9 TWP. 20S RGE. 33E
 SURVEY N.M.P.M.
 COUNTY Lea STATE NM
 DESCRIPTION 1980' FSL & 990' FEL
 ELEVATION 3548.3
 OPERATOR Oryx Energy Co.
 LEASE Branto Federal Com. #1

EXHIBIT #3





EXH CB ET #5

NMAS
New Mexico Archaeological Services, Inc.

P.O. Box 1341
Carlsbad, New Mexico 88221-1341
(505) 887-7646

Reconnaissance
Excavation
Analysis
Explanation
Curation

20 June 1989

Mr. Steve Limke
ORYX ENERGY COMPANY
P.O. Box 1861
Midland, Texas 79701

Dear Mr. Limke:

Enclosed please find NMAS' Archaeological Clearance Report for ORYX ENERGY COMPANY's proposed Bronto Federal Com. Well No. 1 and its associated access road in Lea County, New Mexico. No cultural resources were recorded during this survey; therefore, NMAS is suggesting clearance for this project.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this survey.

Yours sincerely,

J. Loring Haskell
Dr. J. Loring Haskell
Principal Investigator

Enclosure

cc: Mr. Mark Calamia, BLM, Carlsbad

as

Archaeological Clearance Report

for

ORYX ENERGY COMPANY

Bronto Federal Com. Well No. 1
and access road

Prepared

By

Dr. J. Loring Haskell

Submitted

By

Dr. J. Loring Haskell
Principal Investigator
New Mexico Archaeological Services, Inc.
Carlsbad, New Mexico

20 June 1989

Permit Number: 14-2920-89-I

Report Number: NMAS-1989-19-JE

ABSTRACT

New Mexico Archaeological Services, Inc., representing ORYX ENERGY COMPANY, undertook a Class III survey of Bureau of Land Management land scheduled to be impacted by the construction of a drill location and access road. Field work was conducted under clear, sunny conditions during the morning. The proposed location will measure 400 X 400 ft (actual area surveyed 4.44 acres). The access road will measure 100 X 1050 ft (actual area surveyed 2.41 acres). Total surveyed acreage 6.85 acres. They will be situated in Section 9, T20S, R33E, NMPM, Lea County, New Mexico. No cultural properties were recorded during this survey; therefore, NMAS is suggesting clearance for this project.

Introduction

On 15 June 1989, New Mexico Archaeological Services, Inc., representing ORYX ENERGY COMPANY, an archaeological survey of federal land administered by the Bureau of Land Management in Lea County, New Mexico. The reconnoitered area will be impacted by the construction of a drill location and its associated access road. These surveys were undertaken by Dr. Haskell.

Survey Technique

For these investigations, ORYX ENERGY COMPANY's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 8.0 m wide, close intervals (15° or less), zigzag transects. In addition, an added zone extending 20 ft on each side of the staked 400 X 400 ft location, and lying outside the bounds of the proposed work area was reconnoitered by a similar means. The access road was walked in two, 15 m wide transects. Lath is considered to be the center of the proposed road. Methodologically, these procedures served to promote optimal conditions for the visual examination of the area to be impacted by construction-related activities. Field work was conducted under clear, sunny conditions during the morning. Ground visibility ranges between 70 and 85%. Field time 1½ hours.

Bronto Federal Com. Well No. 1

Location

The proposed location will measure 400 X 400 ft (actual area surveyed 4.44 acres) on federal land and will be situated 1980 ft from the south line and 990 ft from the east line.

Section 9, T20S, R33E, NMPM, Lea County, NM

Thus it will be situated in the:

NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 9, T20S, R33E, NMPM, Lea County, NM

The associated access road will measure approximately 100 X 1050 ft (actual area surveyed 2.41 acres) and will be situated in the:

NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 9, T20S, R33E, NMPM, Lea County, NM

NW $\frac{1}{4}$ SE $\frac{1}{4}$, Section 9, T20S, R33E, NMPM, Lea County, NM

Map Reference: USGS LAGUNA GATUNA QUADRANGLE, 7.5 Minute Series, 1984.

Level of Previous Impact

The proposed location is crossed on the north by a fence line.

Environmental Setting

ORYX ENERGY COMPANY's proposed location will be situated near the northeastern edge of an extensive collapse structure. A field of stabilized, coppice-type dunes is situated to the north. Surficial deposits are derived from alluvial deposits, south, and aeolian material to the north. Coppice dunes range up to 1.0 m in height. Associated deflation basins are closed and hemispheric in shape. Areal soils within the collapse structure are composed of compacted clay loams and lack lithic inclusions. Duned areas are made up of loose, non-calcareous, coarse-grained, sandy loams and loamy sands. Occasional chert gravels occur on deflated surfaces. Taxonomically, pedons fall within the Typic Haplargid and Typic Torripsament subgroups. Overall, the contemporary surface is subject to colluvial processes on the south and aeolian action on the north. Drainage, overall, is of an interior nature and is tributary to the subsidence structure. Nearest permanent water, occurring in the form of seeps and springs, is at Laguna Gatuna. Elevation

is 3548 ft. Slope is 0.45°. Aspect is south, east and west (200°). The mixed grassland - scrub, floral community is composed of mesquite, plains yucca, shinnery oak, sand sage, leather-leaf croton, Torrey joint fir, spiny-leaf zinnia, plains prickly pear, hairy grama, poverty threeawn, mesa dropseed, sandbur and sand muhly.

Cultural Resources

Prefield: 14 June 1989, Section 9, two archaeological sites, J. Loring Haskell.

NM-06-4438, consisting of fire-cracked caliche, Jornada Brown potsherds and chipped- and ground-stone. It is situated within 4500 ft of the proposed location.

LE-035, consisting of fire-cracked caliche, ground stone fragments and chipped stone, is situated within 3300 ft of the proposed location.

No cultural properities were recorded during this survey. Their absence is attributable to the lack of locally available siliceous lithic sources, the openness of the landform to the south, and a scanty water supply. Site frequency should increase toward the north with areal archaeological sites being of the task locus and special activities zone types. Prehistoric land usage focused on hunting- and gathering- concerns with most utilization occurring during the Late Archaic and Eastern Jornada Mogollon.

Recommendations

NMAS recommends clearance for ORYX ENERGY COMPANY's proposed Bronto Federal Com. Well No. 1 and its access road and suggests that work-related activities proceed in accordance with company plans (Fig. 1). Clearance, of course, is granted by the Bureau of Land Management. If cultural resources are encountered during construction, the BLM and NMAS should be notified immediately. Duned settings are notorious for covering and uncovering cultural properties.

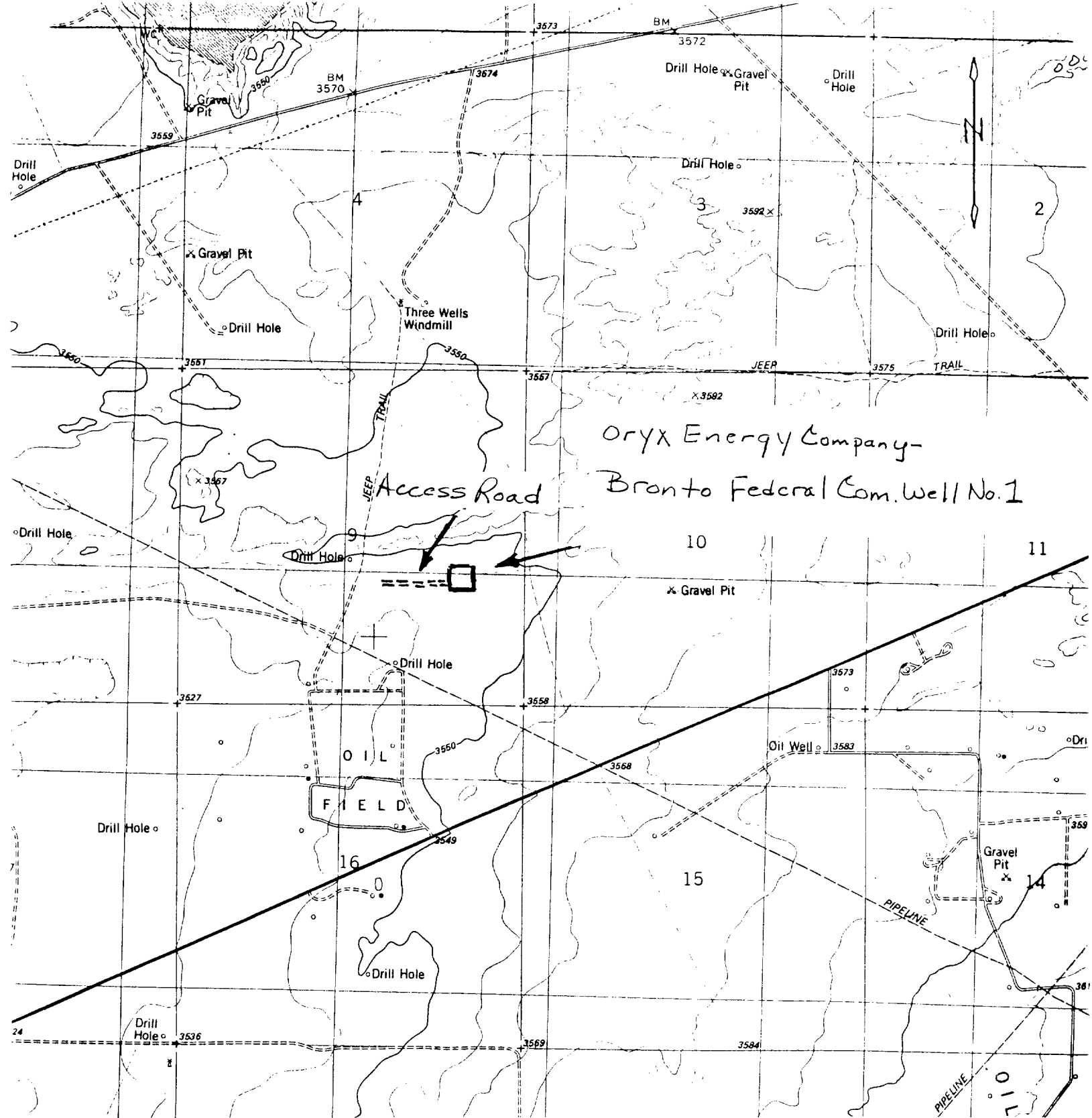


Fig. 1. USGS LAGUNA GATUNA QUADRANGLE, 7.5 Minute Series, 1:24,000, 1984, showing ORYX ENERGY COMPANY'S proposed Bronto Federal Com. Well No. 1, 990 FEL, 1980 FSL, and access road, Section 9, T20S, R33E, NMPM, Lea County, New Mexico.



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 13, 1989

Bureau of Land Management
P.O. Box 1778
Carlsbad, NM 88220

RE: Land Usage Agreement

TO WHOM IT MAY CONCERN:

I, As representative of Oryx Energy Company, P.O. Box 1861, Midland, TX 79702-1861, as operator, and Mr. Larry Squires of Snyder Ranches, P.O. Box 726, Lovington, NM 88260, as surface owner and surface/grass lessor in Sections 9 and other sections, T20S, R33E, Lea County, NM, are in agreement as to surface damages and use of surface in drilling the Bronto Fed. Comm. #1, 1980 FSL & 990' FEL, Section 9, T20S, R33E, Lea County, New Mexico.

Respectfully,

ORYX ENERGY COMPANY

Cecil Gutierrez
Right-of-Way &
Claims Representative

df



ORYX

Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
Unorthodox Location
Oryx Energy Company
Bronto Federal Com. No. 1
Wildcat - Morrow
I, 1980' FSL & 990' FEL
Sec. 9, T-20-S, R-33-E,
Lea County, New Mexico

RECEIVED

JUL 13 1989

OIL CONSERVATION DIV.
SANTA FE

Gentlemen:

Oryx Energy Company has applied for an application to drill an unorthodox location on the captioned lease.

A copy of the application and plat is attached for your information. This well is 990' from the end boundary. Field Rule requirements are no closer than 1980' from the end boundary.

If you, as an offset operator of this lease, have no objections to the drilling of this location, please sign the waiver below returning one copy to the Oil Conservation Division in Santa Fe and one copy to Oryx Energy Company. Self-addressed stamped envelopes are enclosed for your convenience.

Yours truly,

Maria L. Perez
Accountant

WAIVER:

DATE:

7/11/89

SIGNATURE:

TITLE:

Geot Ngr

COMPANY NAME:

Amer. Expl. Co



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
Unorthodox Location
Oryx Energy Company
Bronto Federal Com. No. 1
Wildcat - Morrow
I, 1980' FSL & 990' FEL
Sec. 9, T-20-S, R-33-E,
Lea County, New Mexico

Case 9716

Gentlemen:

Oryx Energy Company has applied for an application to drill an unorthodox location on the captioned lease.

A copy of the application and plat is attached for your information. This well is 990' from the end boundary. Field Rule requirements are no closer than 1980' from the end boundary.

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Yours truly,

Maria L. Perez
Maria L. Perez
Accountant

WAIVER:

DATE: 6/28/89

SIGNATURE: *J. B. Deary* TITLE: Chief Geologist

COMPANY NAME: Honey E Yates Co

[Faint stamp]

JUN 30 1989

OIL CONSERVATION DIVISION
SANTA FE

WELL 5 T. R. YR. OIL MP YR WATER YR GAS C-C CUM OIL CUM WATER CUM GAS ST POOL NAME OPERATOR LEASE NAME LAND

MONTHLY TOTALS ARE THRU MONTH OF DECEMBER
MONTHLY TOTALS ARE ADDED TO CUMULATIVE TOTALS

LEA COUNTY * * * * *

WELL	YR	OIL	MP	YR	WATER	YR	GAS	C-C	CUM	OIL	CUM	WATER	CUM	GAS	ST	POOL	NAME	OPERATOR	LEASE	NAME	LAND
1K 9	20533E								17295 P	1036			30964					TEAS YATES SEV**GROVER-MCKIN**FEDERAL			* F
2L 9	20533E								14593 P	646			14593					TEAS YATES SEV**GROVER-MCKIN**FEDERAL			* F
2N 9	20533E												119698					TEAS YATES SEV**ATLANTIC RIC**LEA 6015 ARC FED** F			* F
1H10	20533E												413					TEAS BONE SPR**STATE OIL AN**TODU FEDERAL			* F
1E11	20533E								6646 F				6646					TEAS BONE SPR**GRACE PETROL**SMITH RANCH FEDER** P			* F
1L11	20533E												2709					TEAS PENN. (G**GRADARO PET**SMITH RANCH FEDER** P			* F
1M11	20533E												24762					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1D12	20533E												1901					TEAS PENN. (G**GRADARO PET**SMITH RANCH FEDER** P			* F
4D13	20533E												581					TEAS PENN. (G**GRADARO PET**SMITH RANCH FEDER** P			* F
3D13	20533E								888 P	19225			15650					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2D13	20533E												23716					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
3E13	20533E								1362 P	11590			114958					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2E13	20533E								2603 P	14721			12942					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
4E13	20533E								5501 P	14721			688					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1F13	20533E												12942					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1G13	20533E												190846					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
3H13	20533E								3931 P	72244			589026					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2J13	20533E												5198					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
4L13	20533E												6990					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2A14	20533E								4170 P	1542			11335					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1B14	20533E												14501					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1C14	20533E								1839 P	857			395755					TEAS BONE SPR**HONDO OIL AN**MARFEEV ARC FEDER** F			* F
2C14	20533E												1772080					TEAS BONE SPR**HONDO OIL AN**MARFEEV ARC FEDER** F			* F
1D14	20533E								1393 P	3442			79079					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
5D14	20533E												375196					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
3E14	20533E												19103					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2G14	20533E												514356					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2G14	20533E												17670					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2G14	20533E												526					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2G14	20533E												9370					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1H14	20533E								2541 P	884			19382					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1I14	20533E												31580					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2J14	20533E								1671 P	4369			9781					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2K14	20533E												9370					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2L14	20533E								1320 P	4849			4774					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1M14	20533E												15612					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1N14	20533E								4161 P	25074			360156					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1A15	20533E												902					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2B16	20533E												14208					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
1C16	20533E												7313					TEAS YATES SEV**ANDARRO PET**SMITH RANCH FEDER** P			* F
2D16	20533E												101796					TEAS YATES SEV**ARCO OIL & GAS**LEA 886 STATE			* S
1E16	20533E												251633					TEAS YATES SEV**HANSON OPER**ATLANTIC STATE			* S
1F16	20533E												11861					TEAS YATES SEV**SINCLAIR OIL**LEA STATE			* S
1G16	20533E												526947					TEAS YATES SEV**WILLIAM E. **ARCO STATE			* S
1H16	20533E												179529					TEAS YATES SEV**ARCO OIL & GAS**LEA 886 STATE			* S
1I16	20533E												164539					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
2K16	20533E												331641					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1J16	20533E												127876					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
2K16	20533E												65730					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1B18	20533E												2617801					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1D18	20533E												49791					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1E18	20533E												1025					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1F18	20533E												1462 P					TEAS YATES SEV**SYNDER RAN**STATE BF			* S
1G18	20533E												4327					TEAS YATES SEV**SYNDER RAN**STATE BF			* S

10 0 1900 750 P 4583 2688 P 16005 47489 G 17224 G
 1A 6 1953AE 123492 32589 17684 599
 1P31 1953AE 380916
 1N32 1953AE 223632

TCNWSHIP 20

1B 5 20532E										FOLLOWING WELL PLUGGED AND ABANDONED 1965									
1E 6 20532E										HALFWAY YATES, THE ATLANTIC LUSK FEDERAL									
4N 9 20532E										LUSK DELAWARE, SIETE OIL AN KACHINA FEDERAL									
30 9 20532E										HALFWAY YATES MRS. BERTIE BURNER									
30 9 20532E										HALFWAY YATES MRS. BERTIE BURNER									
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1B16 20532E										S SALT LAKE BONE C. W. TRAINER HANSON STATE									
1B16 20532E										HALFWAY YATES HUSKY OIL CO TEXAS STATE A									
3C16 20532E										HALFWAY YATES JFG ENTERPRISE STOUT STATE									
2E16 20532E										HALFWAY YATES MRS. BERTIE BURNER									
1E16 20532E										HALFWAY YATES MRS. BERTIE BURNER									
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1G16 20532E										HALFWAY YATES MRS. BERTIE BURNER									
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1G25 20532E										HALFWAY YATES MRS. BERTIE BURNER									
2L25 20532E										HALFWAY YATES MRS. BERTIE BURNER									
2L25 20532E										HALFWAY YATES MRS. BERTIE BURNER									
1P25 20532E										HALFWAY YATES MRS. BERTIE BURNER									
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1H36 20532E										HALFWAY YATES MRS. BERTIE BURNER									
1J36 20532E										HALFWAY YATES MRS. BERTIE BURNER									
10 2 20533E										HALFWAY YATES MRS. BERTIE BURNER									
18 2 20533E										HALFWAY YATES MRS. BERTIE BURNER									
5F 7 20533E										HALFWAY YATES MRS. BERTIE BURNER									
4K 7 20533E										HALFWAY YATES MRS. BERTIE BURNER									
1M 7 20533E										HALFWAY YATES MRS. BERTIE BURNER									
2N 7 20533E										HALFWAY YATES MRS. BERTIE BURNER									
6N 7 20533E										HALFWAY YATES MRS. BERTIE BURNER									
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1F 9 20533E										HALFWAY YATES MRS. BERTIE BURNER									
3J 9 20533E										HALFWAY YATES MRS. BERTIE BURNER									

123492 32589 17684 599
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 31498 51926
 108399 1822
 77907
 44980
 71336
 15 545
 49614 1016
 60479 28996
 1820 765
 1820 1820
 2112 30999
 4904 30999
 14795 2405557
 50106 1357029
 17159 3379170
 17159 465613
 1747 26188
 12295 8416
 3125 4280
 113325 3430
 39337 583506
 39016
 115179 683708
 83184 267527
 6313 241
 27589 460
 6660 644



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
Unorthodox Location
Oryx Energy Company
Bronto Federal Com. No. 1
Wildcat - Morrow
I, 1980' FSL & 990' FEL
Sec. 9, T-20-S, R-33-E,
Lea County, New Mexico

Case 9716

Gentlemen:

Oryx Energy Company has applied for an application to drill an unorthodox location on the captioned lease.

A copy of the application and plat is attached for your information. This well is 990' from the end boundary. Field Rule requirements are no closer than 1980' from the end boundary.

If your, as an offset operator of this lease, have no objections to the drilling of this location, please sign the waiver below returning one copy to the Oil Conservation Division in Santa Fe and one copy to Oryx Energy Company. Self-addressed stamped envelopes are enclosed for your convenience.

Yours truly,

Maria L. Perez
Accountant

RECEIVED

JUL 17 1989

OIL CONSERVATION DIV.
SANTA FE

WAIVER:

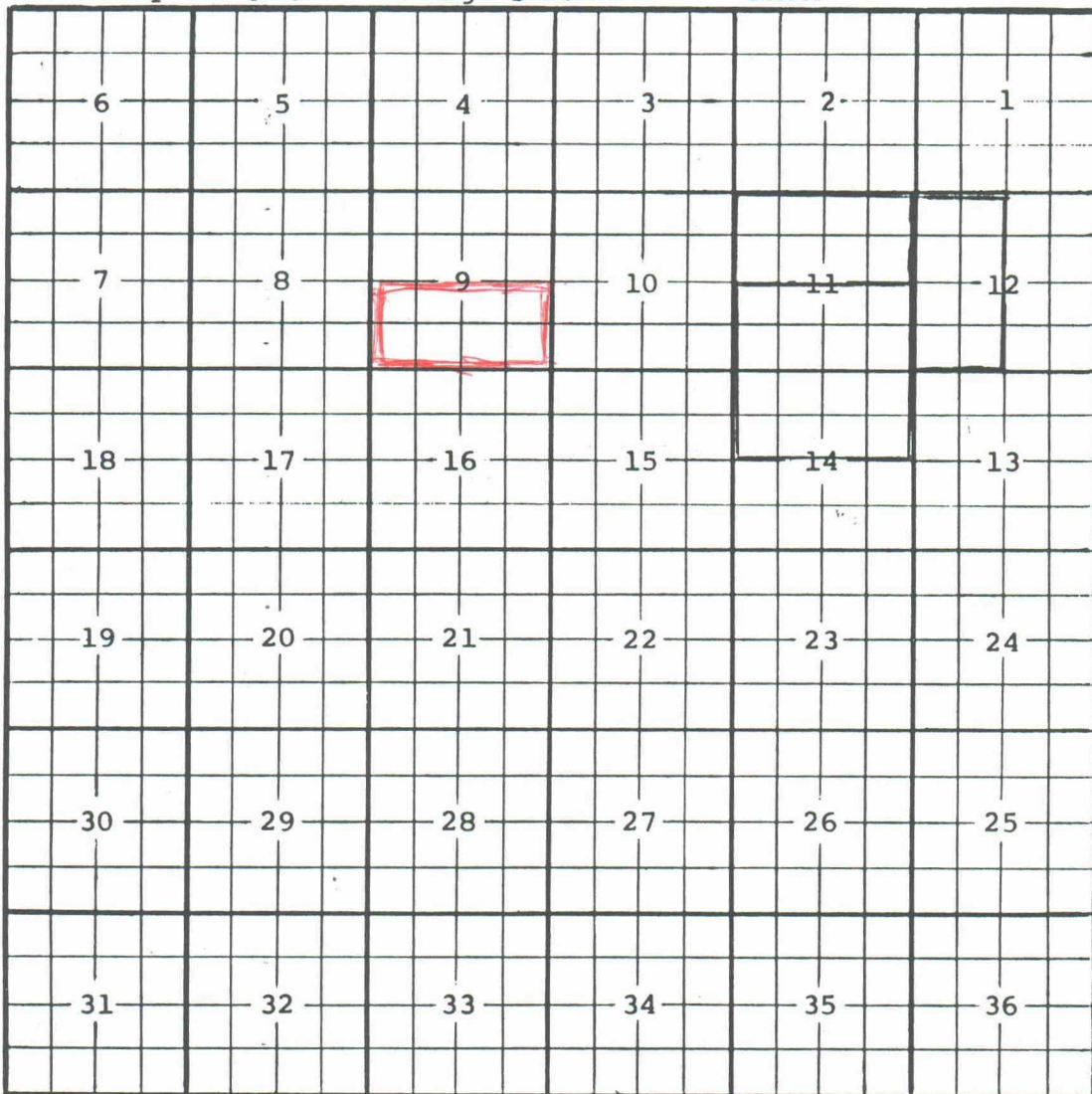
DATE: 7-12-89

SIGNATURE: *Holly Hightower* TITLE: *Land Technician*

COMPANY NAME: *Shore Petroleum Corporation*

County Lea Pool Teas - Pennsylvanian Gas

Township 20 South Range 33 East NMPM



Description: $\frac{3}{4}$ Sec. 11; $\frac{1}{4}$ Sec. 14 (R-2627, 12-27-63)

Ext: $\frac{1}{2}$ Sec. 11 (A-6576, 2-10-81) Ext: $\frac{1}{2}$ Sec. 12 (A-7131, 11-30-82)



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

Case No. 9716

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RECEIVED

JUL 24 1989

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SANTA FE**

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Yours truly,

Maria L. Perez

Maria L. Perez
Accountant

WAIVER:

DATE: 7/12/89

SIGNATURE: 253 Thomas M. Wadsworth Jr TITLE: GENERAL MANAGER

COMPANY NAME: FINA OIL AND CHEMICAL COMPANY

Oryx Energy Company

Bronto Federal Comm. #1

Proration Unit - S/2 Section 9, T205-R33E
Location - 990' FEL & 1980' FSL, Lea County

OFFSET OPERATORS

- () American Exploration Company
2100 Republic Bank Centre
700 Louisiana, Suite 2100
Houston, Texas 77002
- () Phillips Petroleum Company
4001 Penbrook
Odessa, Texas 79762
- () Grace Petroleum Corporation
6501 North Broadway
Oklahoma City, Oklahoma 73116
- () Barber Oil, Inc.
P. O. Box 1658
Carlsbad, New Mexico 88220
- () Bass Enterprises Production Co.
First City Bank Tower
201 Main Street
Ft. Worth, Texas 76102
- () Harvey E. Yates Company
P. O. Box 1933
Roswell, New Mexico 88201
- () A. W. Dugan
1212 Main Street, Suite 1400
Houston, Texas 77022
- () Fina Oil & Chemical Company
6 Desta Drive, Suite 4400
Midland, Texas 79705

19 (H.E. Yates) Corp. 4000 to U4 12,812 S/2
N. Madura Fed. Ut. 20
53992
21 Union 6-1-79 27570
22 PanAm 58942 783 75 KGS
23 Sapphire Fed. LAGUNA
C.W. Trainer, Conchoe TO 3500 D.A. 3 73
1. Mark Donohue TO 4870 DIA 3 13

24 Union (Chevron) 14794
25 Union 6-1-79 27570
26 Union 5-1-87 30071
27 Union 5-1-87 11618
28 Union 6-1-79 27570
29 Union 10-1-86 46274 KGS
30 Union 11-1-85 7593
31 Union 10-1-86 46274 KGS
32 Union 11-1-85 7593
33 Union 11-1-85 7593
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UNION OPER.
MADURO-FED.
UNIT

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Oryx Energy Company

3. ADDRESS OF OPERATOR
 P. O. Box 1861, Midland, Texas 79705

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 I, 1980' FSL & 990' FEL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 18 miles SW from Hobbs

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 990'

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.

19. PROPOSED DEPTH
 13,800'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 3548.3'

22. APPROX. DATE WORK WILL START*
 Upon Approval

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"	54.5#	500'	525 sxs C
12-1/4"	8-5/8"	32#	5200'	2500 sxs C
7-7/8"	5-1/2"	17 & 20#	13800'	1200 sxs H, est.TOC 8000'

Unorthodox location, administrative approval requested.

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 Maria L. Perez TITLE Accountant DATE 6-23-89
915-688-0375

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OIL CONSERVATION DIVISION
P.O. Box 2098
Santa Fe, New Mexico 87504-2098

District Office
District Office
State Lease - 3 copies
Well Lease - 3 copies

DISTRICT III
P.O. Box 181, H. 888, NM 88210

DISTRICT III
P.O. Drawer 100, Artesia, NM 88210

DISTRICT III
100 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

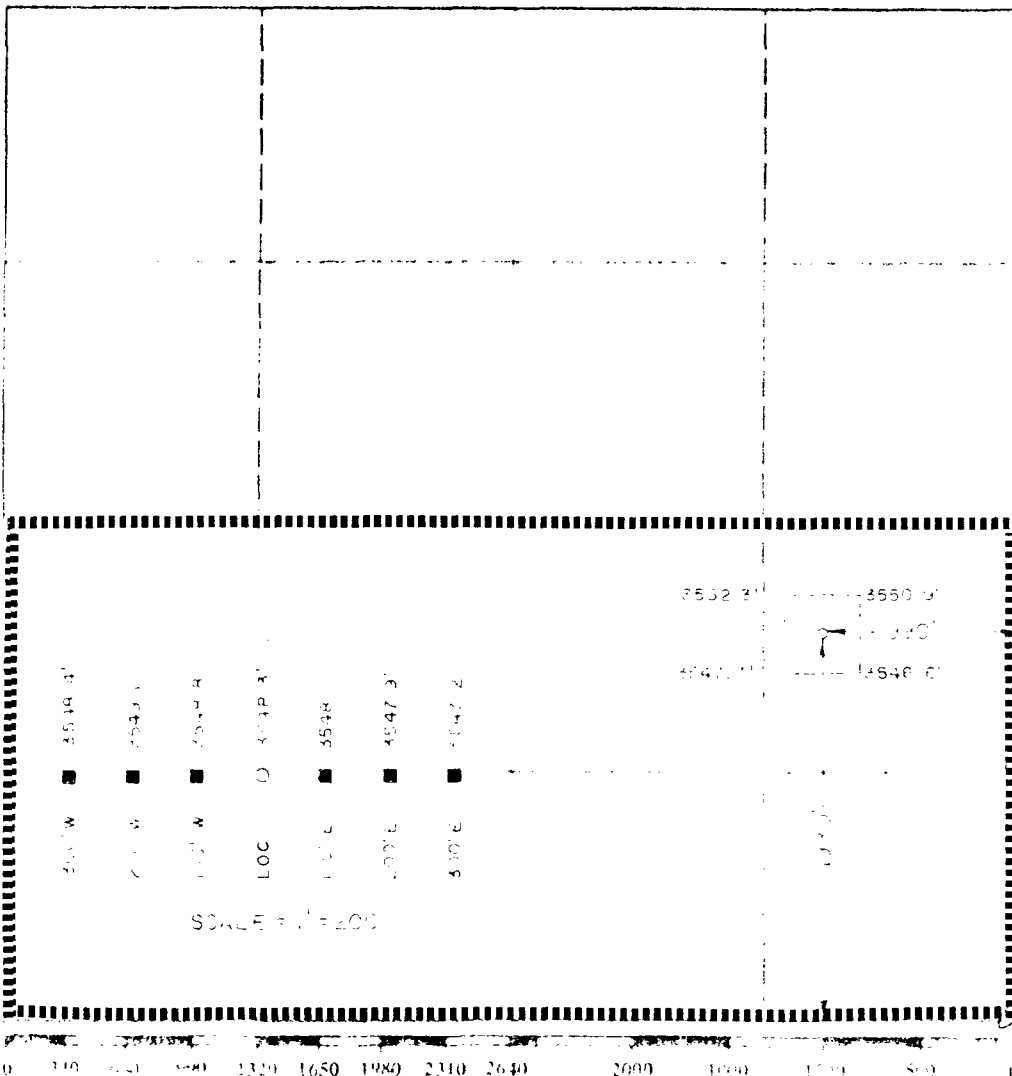
Operator Oryx Energy Company Lease Brookwood General Corp. Well No. _____

Unit Letter 1 Section 9 Township 20 South Range 1 EAST County NMPM

Actual Footage Location of Well:
_____ feet from the South line and _____ feet from the East line
Ground level Elev. _____ Producing Formation Pool Indicated Acreage: _____

30.2 Morrow Wildcat 320 Acres

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
 - Yes No If answer is "yes" type of consolidation Communitization
 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 interest, has been approved by the Division



OPERATOR CERTIFICATION

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

Signature Maria L. Perez
Printed Name Maria L. Perez
Position _____
Accountant _____
Company Oryx Energy Company
Date 6-23-89

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat is in accordance with the survey records on file in the office of the Surveyor General and the survey records on file in the office of the Surveyor General.

Surveyor General
Professional Engineer
No. _____
New Mexico
John W. West
575
3239



Oryx Energy Company
24 Smith Road Suite 500
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
Unorthodox Location
Oryx Energy Company
Bronto Federal Com. No. 1
Wildcat - Morrow
I, 1980' FSL & 990' FEL
Sec. 9, T-20-S, R-33-E,
Lea County, New Mexico

Gentlemen:

Oryx Energy Company has applied for an application to drill an unorthodox location on the captioned lease.

A copy of the application and plat is attached for your information. This well is 990' from the end boundary. Field Rule requirements are no closer than 1980' from the end boundary.

If your, as an offset operator of this lease, have no objections to the drilling of this location, please sign the waiver below returning one copy to the Oil Conservation Division in Santa Fe and one copy to Oryx Energy Company. Self-addressed stamped envelopes are enclosed for your convenience.

Yours truly,

Maria L. Perez
Accountant

WAIVER:

DATE: 7/12/89

SIGNATURE: Thomas M. Wadsworth TITLE: GENERAL MANAGER

COMPANY NAME: FINA OIL AND CHEMICAL COMPANY



Oryx Energy Company
24 Smith Road Suite 600
PO Box 1861
Midland TX 79702-1861
915 688 0300

Southwestern
Production Region

June 23, 1989

To All Offset Operators
(List Attached)

RE: Offset Operators Notification
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Accountant

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DATE: 7/12/89

SIGNATURE: Thomas M. Wadsworth TITLE: GENERAL MANAGER

COMPANY NAME: FINA OIL AND CHEMICAL COMPANY