

COUNTY Eddy POOL Foster Draw- Delaware Gas

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TOWNSHIP 21 South RANGE 26 East

TOWNSHIP 21 South RANGE 26 East

TOWNSHIP 21 South RANGE 26 East NMPM

Ex't. Lots 25, 26, 31, 32, 33, 34, 39 and 40 Sec. 1 (R-11300, 1-4-00)

[illegible]

CMD :  
OG5SECT

ONGARD  
INQUIRE LAND BY SECTION

05/25/00 15:46:57  
OGOMES -TPRF  
PAGE NO: 2

Sec : 02 Twp : 21S Rng : 26E Section Type : NORMAL

36 40.44  Federal owned	35 40.29  Federal owned	34 41.12  Federal owned A A	33 40.96  Federal owned
37 40.86  Federal owned	38 40.71  Federal owned	39 40.89  Federal owned	40 40.73  Federal owned

PF01 HELP  
PF07 BKWD

PF02  
PF08 FWD

PF03 EXIT  
PF09 PRINT

PF04 GoTo  
PF10 SDIV

PF05  
PF11

PF06  
PF12

CMD :  
OG5SECTONGARD  
INQUIRE LAND BY SECTION05/25/00 15:46:46  
OGOMES -TPRF  
PAGE NO: 1

Sec : 02 Twp : 21S Rng : 26E Section Type : NORMAL

20 28.75  Federal owned	21 38.74  Federal owned	28 38.50  Federal owned	19 28.98  Federal owned	22 38.74  Federal owned	27 38.49  Federal owned	18 29.29  Federal owned	23 39.16  Federal owned	26 39.26  Federal owned	17 29.45  Federal owned	24 39.19  Federal owned	25 39.29  Federal owned
29 38.26  Federal owned	30 38.25  Federal owned	31 39.35  Federal owned	32 39.38  Federal owned								

PF01 HELP  
PF07 BKWDPF02  
PF08 FWDPF03 EXIT  
PF09 PRINTPF04 GoTo  
PF10 SDIVPF05  
PF11PF06  
PF12

CMD : ONGARD 05/25/00 15:47:29  
OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TPRF

OGRID Idn : 151416 API Well No: 30 15 31147 APD Status(A/C/P): A  
Opr Name, Addr: FASKEN OIL & RANCH LTD Aprvl/Cncl Date : 05-09-2000  
303 W WALL  
STE 1900  
MIDLAND, TX 79701-5116

Prop Idn: 18202 EL PASO FEDERAL Well No: 10

	U/L	Sec	Township	Range	Lot	Idn	North/South	East/West
Surface Locn	: 34	2	21S	26E			FTG 2105 F S	FTG 1350 F E
OCD U/L	: J		API	County	: 15			

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): O Cable/Rotary (C/R) : F  
Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation : 3185

State Lease No: Multiple Comp (S/M/C) : S  
Prpsd Depth : 4150 Prpsd Frmtn : DELAWARE

E0009: Enter data to modify record

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06 CONFIRM
PF07	PF08	PF09 PRINT	PF10 C102	PF11 HISTORY	PF12

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ARTESIA, NM. CO. SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1. TYPE OF WORK

DRILL ☒

DEEPEN ☐

2. TYPE OF WELL

OIL WELL ☒

GAS WELL ☐

OTHER ☐

SINGLE ZONE ☒

MULTIPLE ZONE ☐

3. NAME OF OPERATOR

Fasken Oil and Ranch, Ltd.

4. ADDRESS AND TELEPHONE NO.

303 W. Wall, Suite 1800, Midland, TX 79701 (915) 687-1777

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

At surface 1350'  
4900' FSL and 1253' FEL  
At proposed prod. zone

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

5 miles North of Carlsbad

7. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.

(Also to deepest drig. unit line, if any) 1253'

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

100'

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

3185' GR

10.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	H-40, 13-3/8"	48.00	4000' TO 700'	440 sx, circulated to surface
12-1/2"	J-55, 8-5/8"	24.00	2275'	1000 sx circulated to surface
7 7/8"	K-55, 5-1/2"	15.50	4150'	400 sx TOC @ 2000'

CARLSBAD CONTROLLED WATER BASIN

The operator proposes to drill to a depth sufficient to test the Delaware group. If productive, 5-1/2" casing will be set at TD and cemented back to approximately 2000'. If non-commercial, the well will be plugged and abandoned in accordance with the Federal regulations.

Drilling Program

Surface Use and Operating Plan

Exhibit #1 - Area Map

Exhibit #2 - One-mile Radius Map

Exhibit #3 - Hydrogen Sulfide Drilling Operations Plan

Exhibit #4 - Well Site Layout

Exhibit #5 - Blowout Preventor Equipment

Notify OCD at SPUD & TIME  
to witness cementing the  
8 5/8" casing.

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

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.

34.

EMITTED Tommy C. Taylor TITLE Drilling & Production Engineer DATE 1/20/00

(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 Tommy C. Taylor TITLE Drilling & Production Engineer DATE MAY 09 2000

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

NSA-

APPROVAL FOR 1 YEAR

DISTRICT I  
P.O. Box 1990, Hobbs, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102  
Revised February 10, 1984  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 2 Copies

DISTRICT II  
P.O. Drawer 88, Artesia, NM 88210

DISTRICT III  
1000 N. Brown Rd., Alamo, NM 87410

OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Undesignated	Pool Name
Property Code	Property Name EL PASO FEDERAL		Well Number 10
OGUID No. 151416	Operator Name FASKEN OIL & RANCH LTD.		Elevation 3184'

Surface Location

UL or lot No. LOT 34	Section 2	Township 21 S	Range 26 E	Lot Mn	Feet from the 2105	North/South line SOUTH	Feet from the 1350	East/West line EAST	County EDDY
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Bottom Hole Location if Different From Surface

UL or lot No.	Section	Township	Range	Lot Mn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 28 - 38.50 AC.	LOT 27 - 38.49 AC.	LOT 26 - 39.25 AC.	LOT 25 - 39.29 AC.
LOT 29 - 38.26 AC.	LOT 30 - 38.25 AC.	LOT 31 - 39.35 AC.	LOT 32 - 39.38 AC.
LOT 36 - 40.44 AC.	LOT 35 - 40.29 AC.	LOT 34 - 41.12 AC.	LOT 33 - 40.95 AC.
LOT 37 - 40.85 AC.	LOT 38 - 40.71 AC.	LOT 39 - 40.89 AC.	LOT 40 - 40.73 AC.

3184.1'  
3176.6'  
1350'  
3181.4'  
3186.0'

1/4 COR.

1/4 COR.

2105'

3184'

3177'

7977

March 14, 2000

Data Surveyed  
Signature & Seal of  
Professional Surveyor  
GARY L. JONES  
P.O. No. 01350  
7977  
BASIN SURVEYS

OPERATOR CERTIFICATION  
I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.  
Tommy E. Taylor  
Signature  
Tommy E. Taylor  
Printed Name  
Drilling & Production Engineer  
Title  
3/20/00  
Date

SURVEYOR CERTIFICATION  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  
March 14, 2000  
Data Surveyed  
Signature & Seal of  
Professional Surveyor  
GARY L. JONES  
P.O. No. 01350  
7977  
BASIN SURVEYS

**SURFACE USE PLAN**  
Fasken Oil and Ranch, Ltd.  
El Paso Federal No.10  
1980' FSL & 1253' FEL  
Sec. 2, T21S, R26E  
Eddy County, New Mexico

1. EXISTING ROADS - Area map, Exhibit #1, is a reproduction of the U.S.G.S., Lake McMillian, South, N.M. Quadrangle 7.5 minute series. Existing and proposed roads are shown on the exhibit. All roads shall be maintained in a condition equal to that which existed prior to start of construction.

- A. Exhibit #1 shows the proposed development well site as staked.
- B. From Carlsbad, New Mexico, travel North on U.S. Highway 239 for 4.6 miles. Turn West on Black top and go 1 mile. Turn South on calchie road and go 0.6 mile. Cross railroad tracks, turn right and go 0.5 mile. Turn left and stay on main caliche road for 0.5 mile. Turn South and go 0.5 mile to location.

2. PLANNED ACCESS ROADS - No new access road will be required.

3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS.

- A. Water wells - None known.
- B. Disposal wells - None Known.
- C. Drilling wells - None known.
- D. Producing wells - As shown on Exhibit #2

Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 5
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 6
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 2
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 7
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 9
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 11
Fasken Oil and Ranch, Ltd.:	El Paso Federal No. 12
Yates Petroleum Corp.:	Lakeshore Federal No. 1-XH

- E. Abandoned wells - As shown on Exhibit #2.

Yates:	Avalon Federal No. 1
N.H. Willis:	Yates Federal No. 1

4. If, upon completion, the well is a producer Fasken Oil and Ranch, Ltd. will furnish maps or plats showing "On Well Pad Facilities" and "Off Well Pad Facilities" (if needed) on a Sundry Notice before construction of these facilities starts.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be purchased locally from a private source and trucked over the access roads.

6. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill sites excavations or from a local source. These materials will be transported over the access roads as shown on Exhibit #1.

7. METHOD FOR 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 a trash trailer and disposed of in an approved public landfill.
  3. All mud materials including salts will be picked up by the mud supplier and transported back to their warehouse facilities.
  4. Sewage from trailer houses will drain into hole with a minimum depth of 10'. A "Porta John" will be provided for the rig crews. This will be properly maintained and removed after drilling operations are completed.
  5. Chemicals remaining after completion of the well will be stored in the manufacturer containers and picked up by the supplier.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling. In the event drilling fluids will not evaporate in a reasonable period of time, they will be transported by tank truck to a state approved disposal site.

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

8. ANCILLARY FACILITIES

No camps or airstrips will be constructed.



## 9. WELL SITE LAYOUT

- A. Exhibit #3 is the H<sub>2</sub>S Drilling Operations Plan.
- B. Exhibit #4 (Scale 1" = 50') shows the proposed well site layout.
- C. This exhibit indicates the proposed location of reserve pit, trash trailer and living facilities.
- D. Mud pits in the active circulation system will be steel pits.
- E. The reserve pit will be lined with a polyethylene liner. The pit liner will be a minimum of 2' over the reserve pit walls where the liner will be anchored down.
- F. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion operations. The fourth side will be fenced after drilling has been completed. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

## 10. PLANS FOR RESTORATION OF 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.

However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location pad and surface facilities. After the area has been shaped and contoured, top soil from the spoil pile (if any) will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recontoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

## 11. OTHER INFORMATION

- A. The topography is of hilly terrain with vegetation of sagebrush and native grasses. The soils are silty and very shallow.

- B. The surface is used for livestock grazing. The surface is leased by Hart Greenwood, P.O. Box 104, Carlsbad, NM 88221
- C. An archeological study has been conducted for the location. The report was previously submitted to the BLM with the El Paso Federal No. 9 APD.
- D. There are no buildings of any kind in the area.

12. OPERATOR'S REPRESENTATIVE - Field representative for contact regarding compliance with the Surface Use Plan is:

Before, during & after Construction:

Tommy E. Taylor  
303 W. Wall Ave., Suite 1900  
Midland, Texas 79701-5116  
(915) 687-1777

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 exists; 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 Fasken Oil and Ranch, Ltd. 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.

NAME: Tommy E. Taylor  
DATE: 1/25/00  
TITLE: Drilling and Production Engineer

TET  
(elpaso10.apd)

APPLICATION FOR PERMIT TO DRILL  
FASKEN OIL AND RANCH, LTD.  
El Paso Federal No.10  
1980' FSL & 1253' FEL  
SEC.2, T21S, R26E  
EDDY COUNTY, NM

In conjunction with Form 3160-3, Application for Permit to Drill, Fasken Oil and Ranch, Ltd. 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 of Permian age.
2. Estimate tops of geologic markers are as follows:

Bell Canyon Sand	2330'
Cherry Canyon	3008'
Brushy Canyon	3560'
Bone Springs	4380'

3. The estimated depths at which water, oil or gas formation are expected to be encountered:

Delaware group	2330'	Oil/Gas
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\* Groundwater to be protected by 13-3/8" surface casing with cement circulated to the surface.

\*\* Potentially productive horizons to be protected by 5-1/2" production casing with cement tied back to intermediate shoe at 2275'.

4. Proposed Casing Program:

<u>String</u>	<u>Footage</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>
Surface	400'	13-3/8"	48.00#	H-40	ST&C
Intermediate	2,275'	8-5/8"	24.00#	J-55	ST&C
Production	4,150'	5-1/2"	15.50#	K-55	ST&C
Tubing	4,000'	2-7/8"	6.50#	J-55	EUE 8rd

**Proposed Cementing Program:**

Cement 13-3/8" casing with 440 sx Class "C" cement with 2% CaCl<sub>2</sub> (s.w. 14.8 ppg, yield 1.32 cuft/sx).

Cement 8-5/8" casing with 800 sx Class "C" with 4% gel and 2% CaCl<sub>2</sub>, s.w. 13.51 ppg, yield 1.74 ft<sup>3</sup>/sx, plus 200 sx Class "C" with 2% CaCl<sub>2</sub>; s.w. 14.8 ppg, yield 1.32 ft<sup>3</sup>/sx.

Cement 5-1/2" production casing (resin coated and centralized through pay zones) with Estimate 400 sx Super "C" Modified (15 #/sx Poz A and 11 #/sx CSE), 1% Salt, 1.1% FL-25 (s.w. 14.2 ppg, yield 1.35 ft<sup>3</sup>/sx).

5. **Pressure Control Equipment:** BOP's to be pressure test with the rig pump prior to drilling out the intermediate. See Exhibit #5 for BOP diagram. Use 13-5/8" 3000# annular preventor only to drill intermediate hole.

6. **Mud Program:**

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Waterloss</u>
0-400'	Fresh Water	8.5	40	N.C.
400'-2275'	Fresh Water	8.5	26	N.C.
2275'-4150'	Cut Brine	9.5	26	N.C.

7. **Auxiliary Equipment:** Upper Kelly Cock, Full Opening Stabbing Valve.

8. **Testing Logging and Coring Programs:**

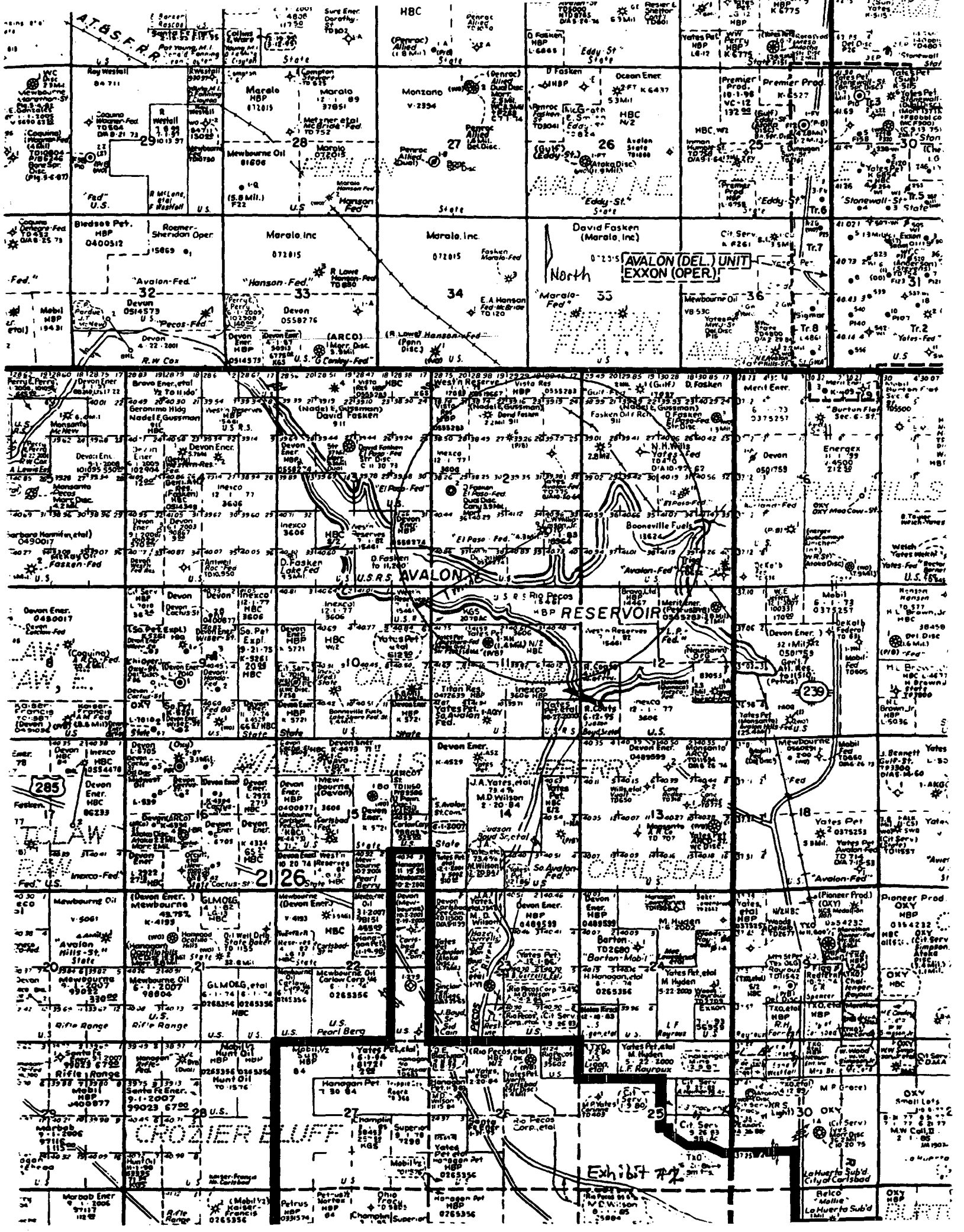
- Logging: 2-man Mudlogging unit from 2275' to T.D.

- Electric Logs: Platform Express with CNL-LDT, DLL-MSFL, GR and Caliper.

- Coring: Rotary Sidewall between 2275' and 4150'.

9. **Abnormal Pressure, Temperatures or Other Hazards:** Lost circulation is anticipated in the surface. Maximum bottomhole pressure is estimated to be 1900 psig.

10. **Anticipated Starting Date:** March 1, 2000.



# **HYDROGEN SULFIDE DRILLING OPERATIONS PLAN**

**EXHIBIT #3  
FASKEN OIL AND RANCH, LTD.  
El Paso Federal No.10  
1980' FSL & 1253' FEL  
SEC.2, T21S, R26E  
EDDY COUNTY, NM**

## **I. Hydrogen sulfide Training.**

All personnel, whether regularly assigned, contracted or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques of first aid and rescue procedures.

In addition the supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

## **II. H<sub>2</sub>S Safety Equipment and Systems.**

**NOTE:** All H2S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above or three days prior to penetration the first zone containing or reasonable expected to contain H2S.

**1. Well Control Equipment:**

- A. Flare line.
- B. Choke manifold.
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
- D. Auxiliary equipment to include: annular preventer

**2. Protective equipment for essential personnel:**

- A. 5-minute escape units located in the dog house and 30-minute air units at briefing areas, as indicated on well site diagram.

**3. H2S detection and monitoring equipment:**

- A. 3 - portable H2S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 PPM are reached.
- B. 1 - portable SO2 monitor positioned near flare line during H2S flaring operations.

**4. Visual warning systems:**

- A. Wind direction indicators as shown on well site diagram.
- B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be a readable distance from the immediate location.

**5. Mud program:**

The mud program has been designed to minimize the volume of H2S circulated to the surface. Proper mud weight safe drilling practices and the use of H2S scavengers when necessary will minimize hazards when penetrating H2S bearing zones.

**6. Metallurgy:**

**A. All drill strings, casings, tubing, wellhead, blowout preventors, drilling spools kill lines, choke manifold and lines valves shall be suitable for H<sub>2</sub>S service.**

**B. All elastomers used for packing and seals shall be H<sub>2</sub>S trimmed.**

**7. Communications:**

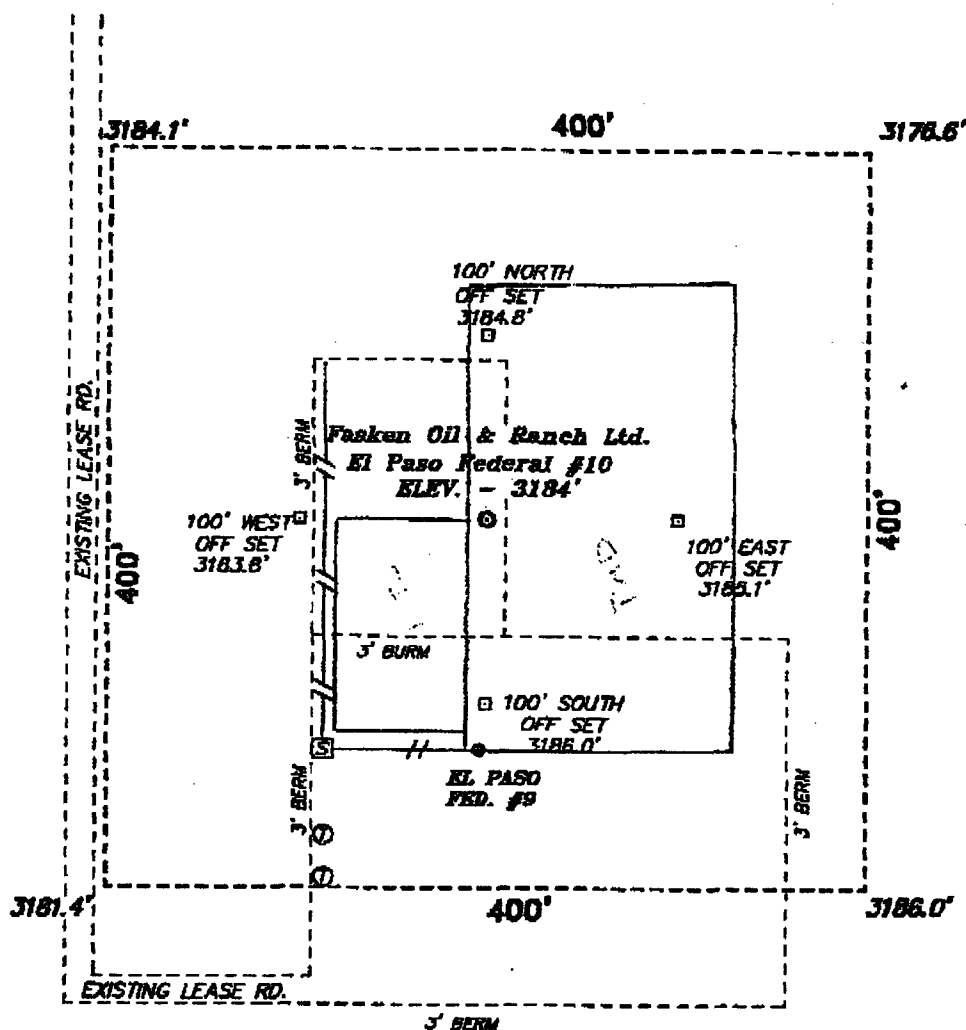
**A. Radio communications will be available in company vehicles and rig dog house.**

**8. Well testing:**

**A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. The drill stem testing of any known formation that contains H<sub>2</sub>S will be conducted during daylight hours.**

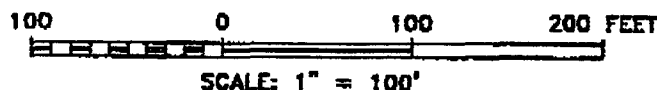


**SECTION 2, TOWNSHIP 21 SOUTH, RANGE 26 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.**



**DIRECTIONS TO LOCATION:**

FROM JUNCTION US 62/180 AND CO. RD. 604, GO NORTH AND WEST ON CO. RD. 604 APPROX. 5 MILES OT CO. RD. 206; THENCE NORTH ON 206 APPROX. 2 MILES TO CO. RD. 34; THENCE NORTHWEST ON CO. RD. 206 APPROX. 1/2 MILE TO CO. RD. 801; THENCE WEST ON CO. RD. 801 APPROX. 1.5 MILE TO A LEASE ROAD; THENCE WEST ON LEASE ROAD APPROX. 3000 FEET TO A LEASE ROAD; THENCE SOUTH ON LEASE ROAD APPROX. 2000 FEET TO THE PROPOSED WELL LOCATION.



**Fasken Oil & Ranch Ltd.**

REF: El Paso Federal #10 / Well Pad Topo

THE EL PASO FEDERAL No. 10 LOCATED 2105' FROM THE  
SOUTH LINE AND 1350' FROM THE EAST LINE OF  
SECTION 2, TOWNSHIP 21 SOUTH, RANGE 26 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**BASIN SURVEYS** P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 0135

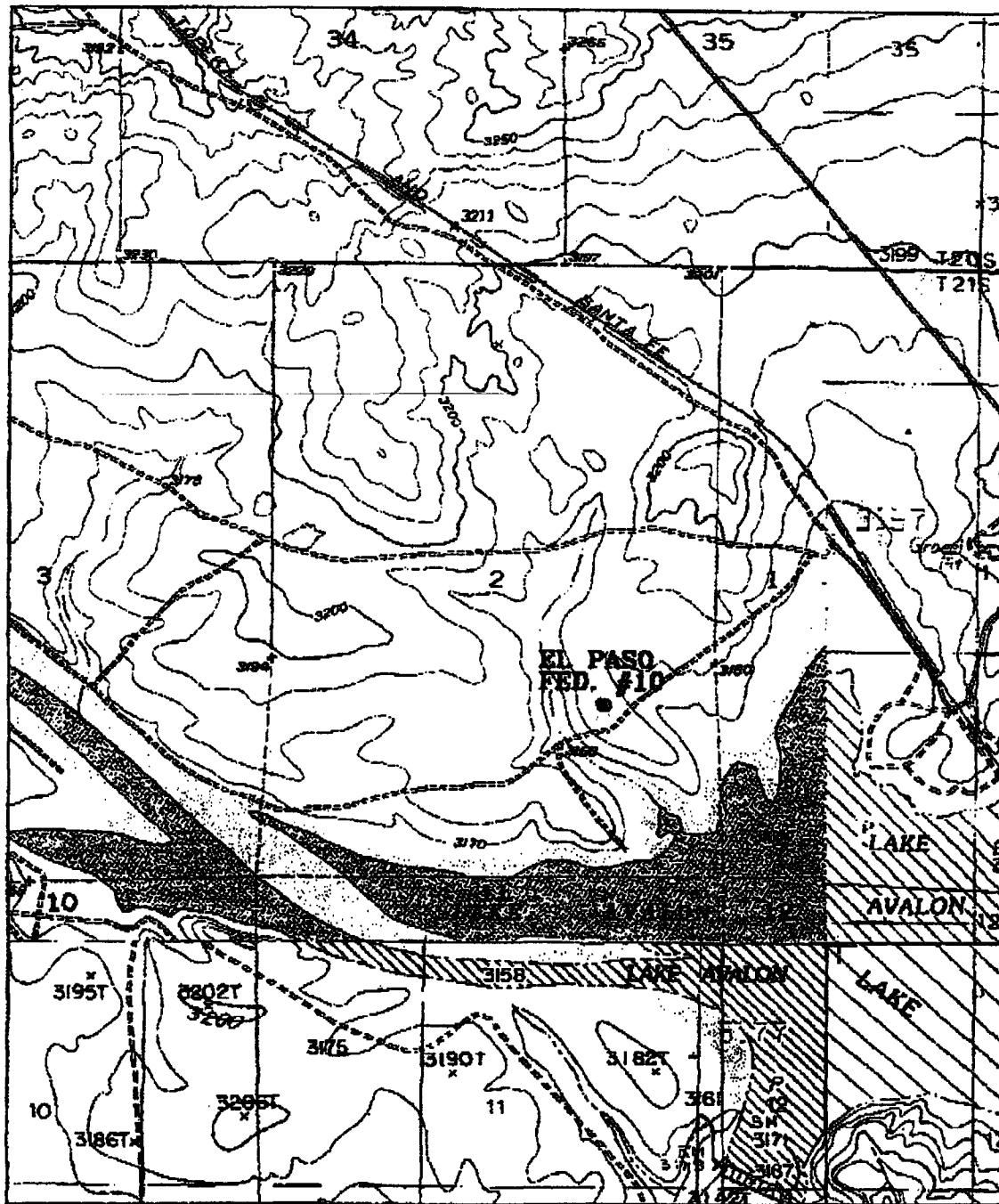
Drawn By: K. GOAD

**Date: 03-15-2000**

Disk: KJG #11B - 0135A.DWG

**Survey Date:** 03-14-2000

Sheet 1 of 1 Sheets



**EL PASO FEDERAL #10**  
 2105' FNL & 1350' FEL  
 Section 2, Township 21 South, Range 26 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (505) 393-7316 - Office  
 (505) 392-3074 - Fax  
 basin-surveys.com

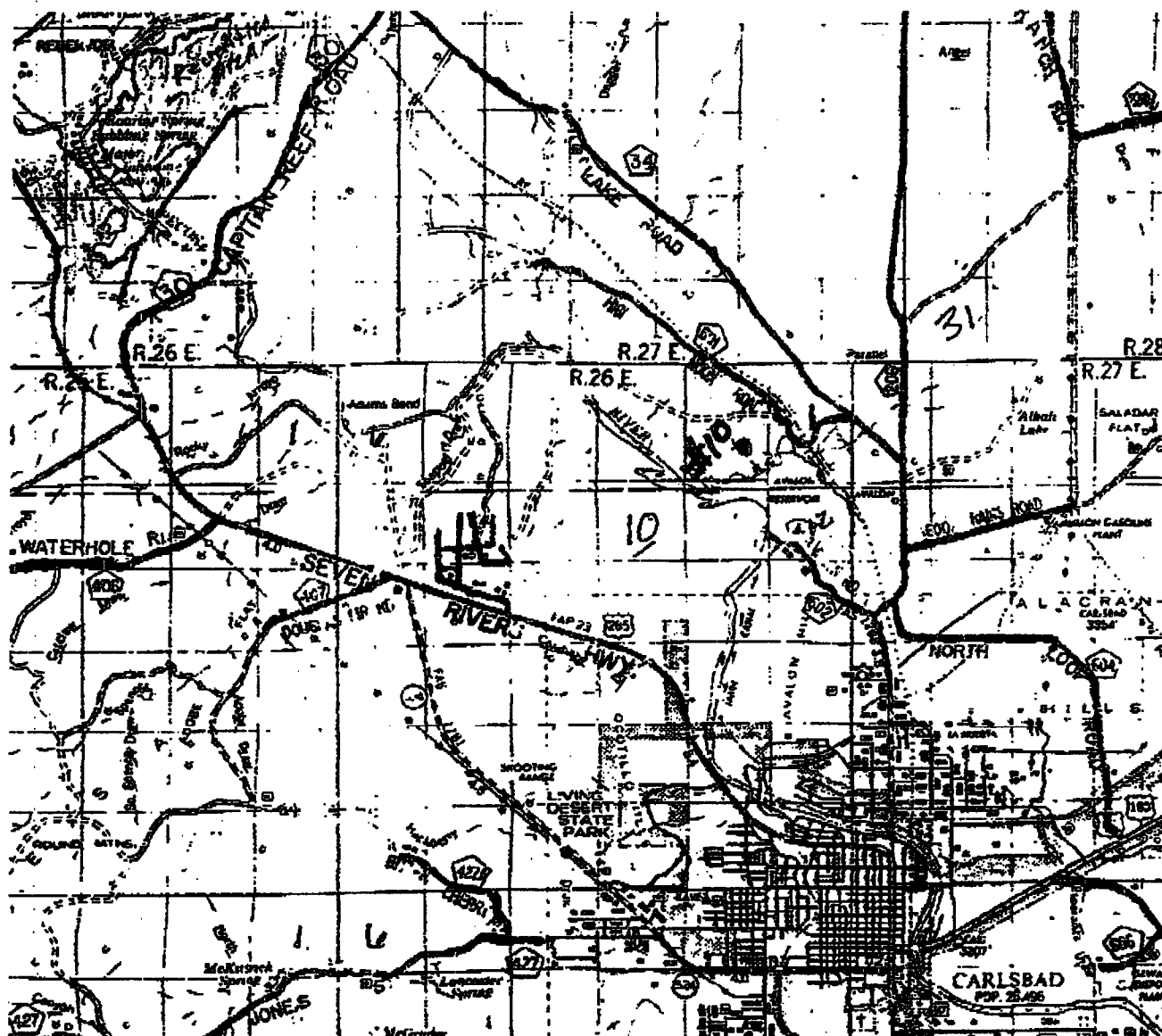
W.O. Number: 0135AA - KJG #122

Survey Date: 03-14-2000

Scale: 1" = 2000'

Date: 03-15-2000

**FASKEN OIL & RANCH, LTD.**



**EL PASO FEDERAL #10**  
**2105' FNL & 1350' FEL**  
**Section 2, Township 21 South, Range 26 East,**  
**N.M.P.M., Eddy County, New Mexico.**

**basin**  
**surveys**

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in the oilfield

P.O. Box 1788  
1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(505) 393-7316 - Office  
(505) 392-3074 - Fax  
basinsurveys.com

W.O. Number: 0135AA - KJG #122

Survey Date: 03-14-2000

Scale: 1" = 2 MILES

Date: 03-15-2000

**FASKEN OIL & RANCH, LTD.**

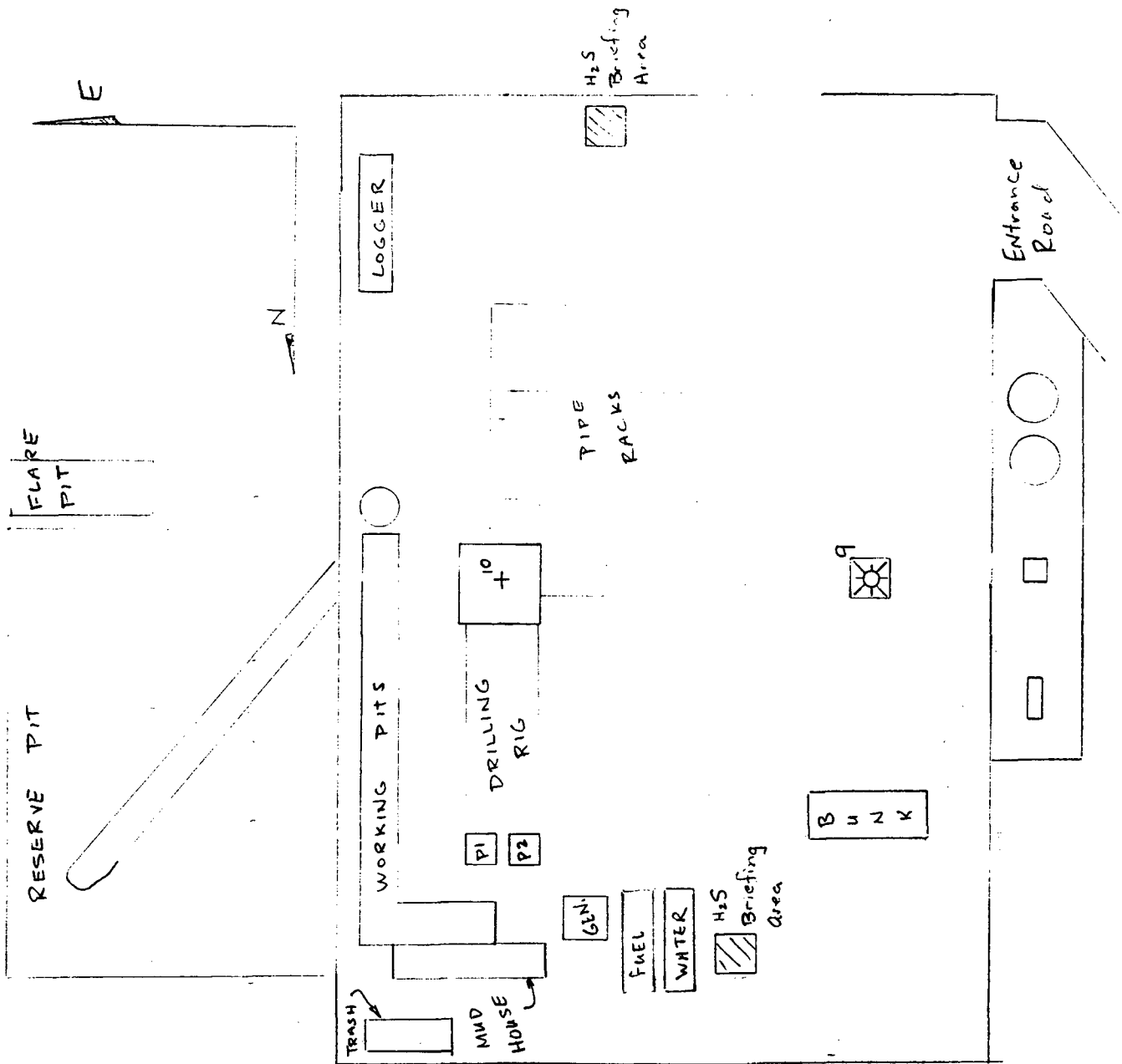
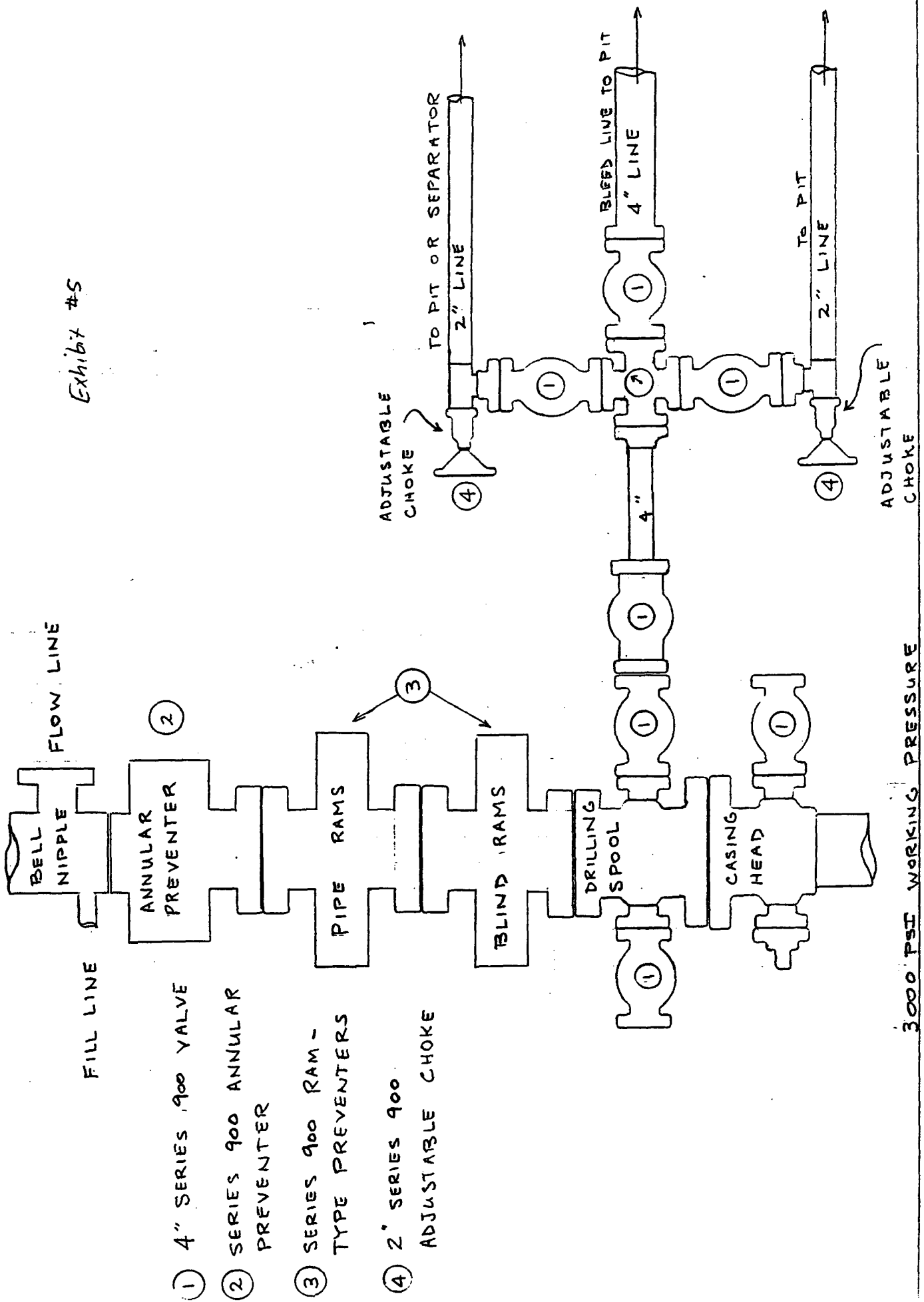


EXHIBIT #46  
SCALE 1" = 50'



STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Fasken Oil and Ranch, Ltd. accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

LEASE NO.: NM-911 and NM-18964

LEGAL DESCRIPTION: NM-911: T-21-S, R-26-E, Sec.1: Lots 21-28, 31, 32. Sec.2: Lots 22, 23, 25-27, 29-32, 34-36. Sec.3: Lots 19-27, 29, 30. Sec.4: Lots 17-21.


NM-18964: T-21-S and R-26-E, Sec. 2, NE/4 SE/4, S/2 SE/4.

FORMATION(S): Surface to the base of the Barnett Shale.

BOND COVERAGE: \$25,000

BLM BOND FILE: ~~NM0152~~ NM2729

Fasken Oil and Ranch, Ltd.  
by: Fasken Management, LLC  
Its General Partner

  
\_\_\_\_\_  
Benjamin L. Blake  
Vice-President

Date: 1-18-00