

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SF 078439	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Union Texas Petroleum, A Division of Allied Chemical Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR Suite 1122, 1860 Lincoln Street, Denver, Colorado 80295		8. FARM OR LEASE NAME Johnston-Federal	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface NE SE Section 7-T31N-R9W (790' FSL, 1450' FEL) At proposed prod. zone Same		9. WELL NO. <del>8A</del> 8A	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12 miles northeast of Aztec, New Mexico		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde Pool	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 790		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 7-T31N-R9W	
16. NO. OF ACRES IN LEASE 2446		12. COUNTY OR PARISH San Juan	
17. NO. OF ACRES ASSIGNED TO THIS WELL 322.26 S/265.13		13. STATE New Mexico	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2600		14. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6696 GR		22. APPROX. DATE WORK WILL START* 3/1/77	

## 23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	9-5/8	36	275	275 sx (circulate)
8-3/4	7	20	3600	600 sx (tie into surface)
6-1/8	4-1/2 (liner)	10.5	3400-5900	200 sx (tie into 7")

Plan to drill well as follows:

1. MIRURT, drill 12-1/4" hole to approximately 275'.
2. Set and cement 9-5/8" OD 36# H-40 used casing at TD and cement with sufficient cement to circulate to surface.
3. Drill out with 8-3/4" bit to 3600'.
4. Set and cement 7" 20#/ft. K-55 used casing at TD and cement with sufficient cement to at least tie into surface casing.
5. Drill out of 7" using gas as drilling fluid.
6. Drill to TD of approximately 5900' and log hole.
7. Run 4-1/2" OD 10.5#/ft. K-55 used casing as liner. Cement back into 7".
8. Complete well through casing perforations and stimulate Cliffhouse and Point Lookout zones separately.
9. Clean up well site.

(Continued on reverse side.)

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 [Signature] TITLE Assistant Dist. Prod. Manager DATE 2-23-77  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY [Signature] TITLE \_\_\_\_\_ DATE FEB 23 1977  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

## Instructions

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

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

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

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

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

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

GPO 782-931

Item 23 - continued:

10. Approximately 11 days will be required to drill this well.

11. Gas is dedicated to El Paso Natural Gas Company.

12. Surface formation is Ojo Alamo.

13. Formation tops (estimated):

Pictured Cliffs	3420
Cliff House	5090
Menefee	5370
Point Lookout	5700

14. Mud program: 0 - 275 Spud mud  
 275 - 3600 Gel water - low solids to maintain good hole  
 3600 - TD Compressed gas

15. No coring or drill stem tests are anticipated.

16. Logs to be run:

Compensated Density
Sidewall Neutron
Temperature
Induction
Gamma Ray
Deviation (single shot)

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-128  
Effective 1-1-55

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

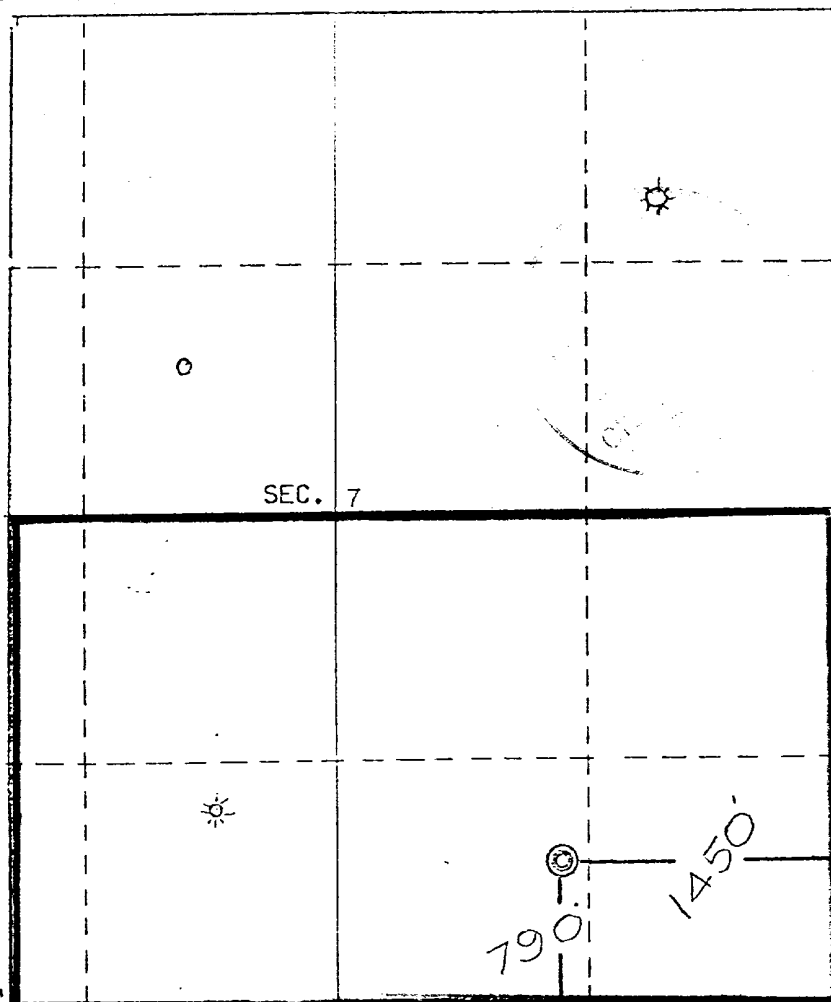
Operator <b>Union Texas Petroleum Corporation</b>			Lease <b>Johnson Federal</b>		Well No. <b>8-A</b>
East Letter <b>1</b>	Section <b>7</b>	Township <b>31 North</b>	Range <b>9 West</b>	County <b>San Juan</b>	
Actual Point of Location of Well: <b>790</b> feet from the <b>South</b> line and <b>1450</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6696</b>	Producing Formation		Pool	Dedicated Acreage: <b>S/265.13</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

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

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name  
*Robert Pro. Mgc*  
Position  
*Union Texas Petr.*  
Company  
*2-23-77*  
Date

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  
**February 11, 1977**  
Registered Professional Engineer  
and/or Land Surveyor:

*E. V. Echhawk*

Certificate No. **3602**  
**E.V. Echhawk LS**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SF 078439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Johnston-Federal

9. WELL NO.

8 A

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde Pool

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 7-T31N-R9W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL ☐ GAS ☒ OTHER ☐  
WELL

2. NAME OF OPERATOR

Union Texas Petroleum, A Division of Allied Chemical Corporation

3. ADDRESS OF OPERATOR

Suite 1122, 1860 Lincoln Street, Denver, Colorado 80295

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

NE SE Section 7-T31N-R9W (790' FSL, 1450' FEL)

14. PERMIT NO.

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

6696 GL

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other) Change well number &amp; dedication x

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

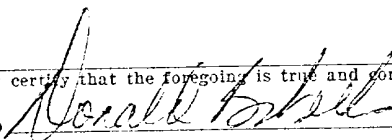
WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Change well number from "7 A" to "8 A", and alter dedicated acreage to South 265.13  
acres as per attached plat.

18. I hereby certify that the foregoing is true and correct

SIGNED



TITLE Assistant Dist. Production Manager DATE March 1, 1977

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

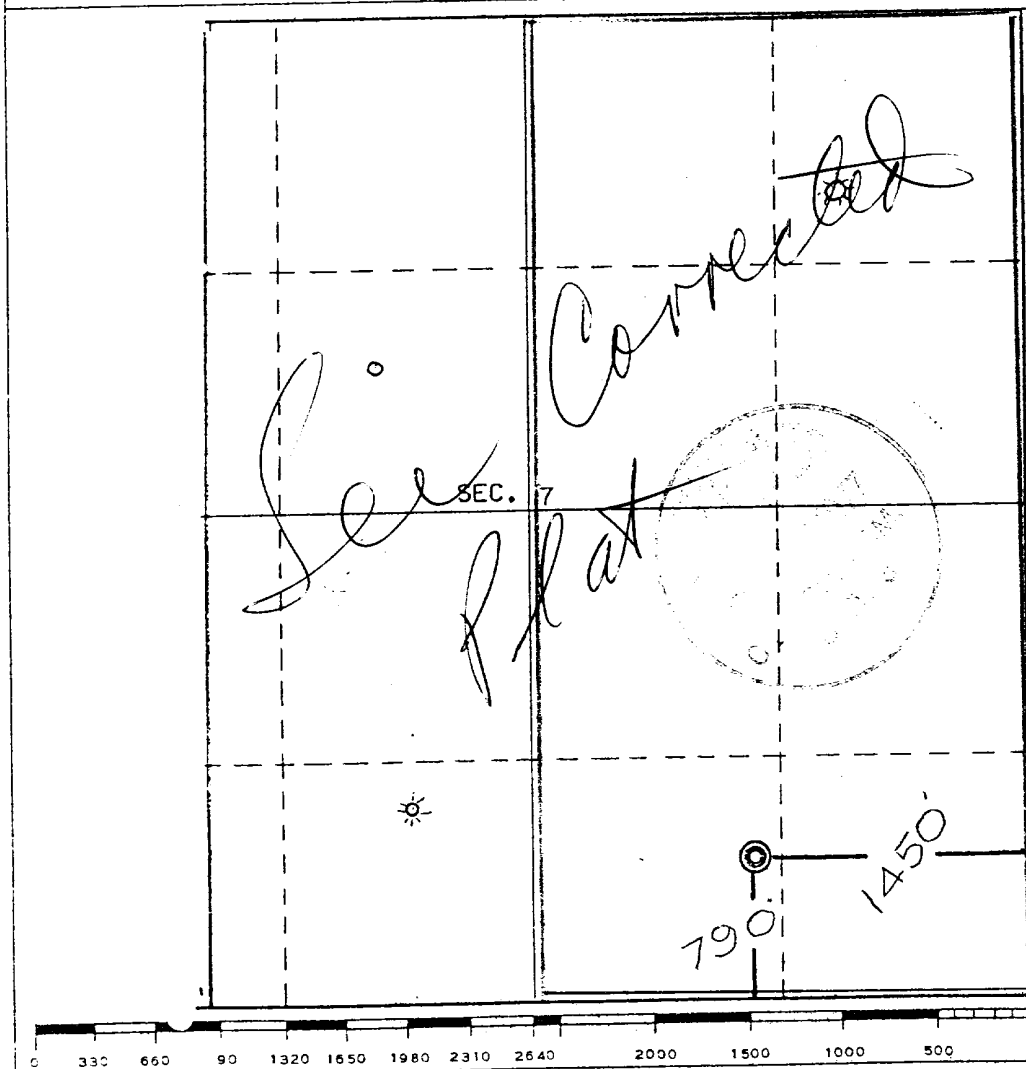
Operator <b>Union Texas Petroleum Corporation</b>			Lease <b>Johnson Federal</b>		Well No. <b>7-A</b>
Unit Letter <b>1</b>	Section <b>7</b>	Township <b>31 North</b>	Range <b>9 West</b>	County <b>San Juan</b>	
Actual Footage Location of Well: <b>790</b> feet from the <b>South</b> line and <b>1450</b> feet from the <b>East</b> line					
Ground Level Elev. <b>6695</b>	Producing Formation		Pool	Dedicated Acreage: <b>322.26</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

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

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

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name **W. B. Wells**  
Position **Asst. Prod. Mgr.**  
Company **Union Texas Petr.**  
Date **2-23-77**

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 **February 11, 1977**  
Registered Professional Engineer and/or Land Surveyor  
**E. V. Echowhawk**  
Certificate No. **3602**  
**E. V. Echowhawk LS**

## SURFACE USE PLAN

UNION TEXAS PETROLEUM'S  
Johnston-Federal #7 A, 790' FSL & 1450' FEL  
of Section 7, T31N, R9W, Lease SF 078439,  
San Juan County, New Mexico

This plan is to accompany "Application for Permit to Drill" for the above mentioned well.

The following is a discussion of pertinent information concerning possible effect which the proposed drilling of the well may have on the environment of the well and road sites and surrounding acreage. A copy will be posted on the derrick floor so that all contractors and subcontractors will be aware of all items of this plan.

1. AREAL ROAD MAP - Exhibit "A" is a portion of a USGS topographic map, San Juan County, New Mexico, showing existing black top roads. Approximately 12 miles northeast from Aztec, New Mexico. Turn east (right) on Hart Canyon Road. Take first left hand fork 2-1/2 miles to site.
2. LOCATION OF EXISTING WELLS - Several wells have been drilled in a two mile radius and are shown on Exhibit "B".
3. PROPOSED WELL MAT AND IMMEDIATE AREA - Refer to Exhibit "C" for direction orientation and road access.
  - a. Mat size - 130' x 300'.
  - b. Surface - Will be native soil, bladed, watered and capped with clay only when necessary.
  - c. Reserve pit - 150' x 150' unlined pit, joining mat to the south.
  - d. Cut & Fill - 8' cut on northeast side. Drainage ditch on north side will carry water away from location to west (natural drainage).
  - e. Drill Site Layout - Exhibit "C" shows position of mat, reserve pits, burn pits, trash pits, and mud pits in relation to the well bore. Rig will be erected with the V-Door to the north.
  - f. Setting & Environment -
    - (1) Terrain - See Exhibit "A", topographic map of area. Gently sloping to the southwest.
    - (2) Soil - Extremely sandy soil.
    - (3) Vegetation - Sagebrush. (Area has been chained).
    - (4) Surface Use - Unknown, possibly used for grazing.

-2-

- (5) Other - Drill site, which is sloping to the southwest in semi-arid desert country, is in a low environmental risk area. The total effect of drilling and producing this and other wells in this area would be minimal.

g. Distances to:

- (1) Ponds and Streams - No ponds or streams in area.
- (2) Water Wells - No water well or windmill could be seen within 1/2 mile.
- (3) Residences and Buildings - There are no houses or buildings within 1/2 mile.
- (4) Aroyos, Canyons, etc. - See Exhibit "A". Miller Canyon is 1-1/2 miles northwest.

- h. Well Sign - Sign identifying and locating well will be maintained at drill site with the spudding of the well.

- i. Open Pits - All pits containing mud or other liquids will be fenced.

4. ROADS

- a. Existing Roads - All existing roads within one mile of the location are shown on Exhibit "A".

- b. Planned roads - Plan to construct 30' of new 14 foot wide road

- c. Fences, Gates and Cattleguards - None.

5. TANK BATTERY - One 300-barrel storage tank and production unit will be set as close to the well as practicable.

6. LEASE PIPELINES

- a. Existing - Not furnished by the Operator, to be connected by El Paso Natural Gas Company.

- b. Planned - If production is encountered, all lease lines are to be constructed on a well mat.

7. WASTE DISPOSAL - Well cuttings will be disposed in reserve pit. Barrel trash containers to be in accessible locations within drill site area during drilling and completion procedures. All detrimental waste will be hauled away, burned or buried with a minimum cover of 24" dirt. See Exhibit "C" for location of pits. If well is productive, maintenance waste will be placed in special trash cans and hauled away periodically. No produced water is anticipated.

-3-

8. WATER SUPPLY - Supply water will be hauled from the San Juan River or nearest wash.
9. ARCHAEOLOGICAL RESOURCES - Report will be furnished by Pat Zarnowski from Salamon Ruins, Bloomfield, New Mexico.
10. RESTORATION OF SURFACE - If well is productive, pits will be backfilled and leveled as soon as practical to original condition.
11. OPERATOR'S REPRESENTATIVE - Field personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Production & Drilling

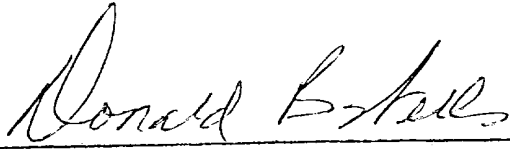
Donald B. Wells  
Suite 1122, 1860 Lincoln Street  
Denver, Colorado 80295

Office Phone: 303/534-8221  
Home Phone: 303/979-4872

12. 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 as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Union Texas Petroleum and its contractors and sub-contractors will conform to this plan.

2-23-77  
Date

  
Donald B. Wells  
Assistant District Production Manager



JOHNSTON-FEDERAL #7 A

7 POINT WELL CONTROL PLAN

1. Surface casing: 9-5/8", 36#, approximately 275', grade H-40, used condition.
2. Casinghead will be 10", 900 series, 3,000 psi rating.
3. Intermediate casing - 7", 20#, K-55, will be set at +3600' and cemented to surface casing.
4. Blowout preventors: Hydraulic, double ram, 10". One set of rams will be provided for each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2" with variable choke.
5. Auxiliary equipment:

- (1) Kelly cock will be in use at all times.
- (2) Stabbing valve to fit drill pipe will be present on floor at all times.
- (3) Mud monitoring will be visual, no abnormal pressures are anticipated in this area.
- (4) Rotating head will be used when drilling with gas.

6. Anticipated bottom-hole pressure:

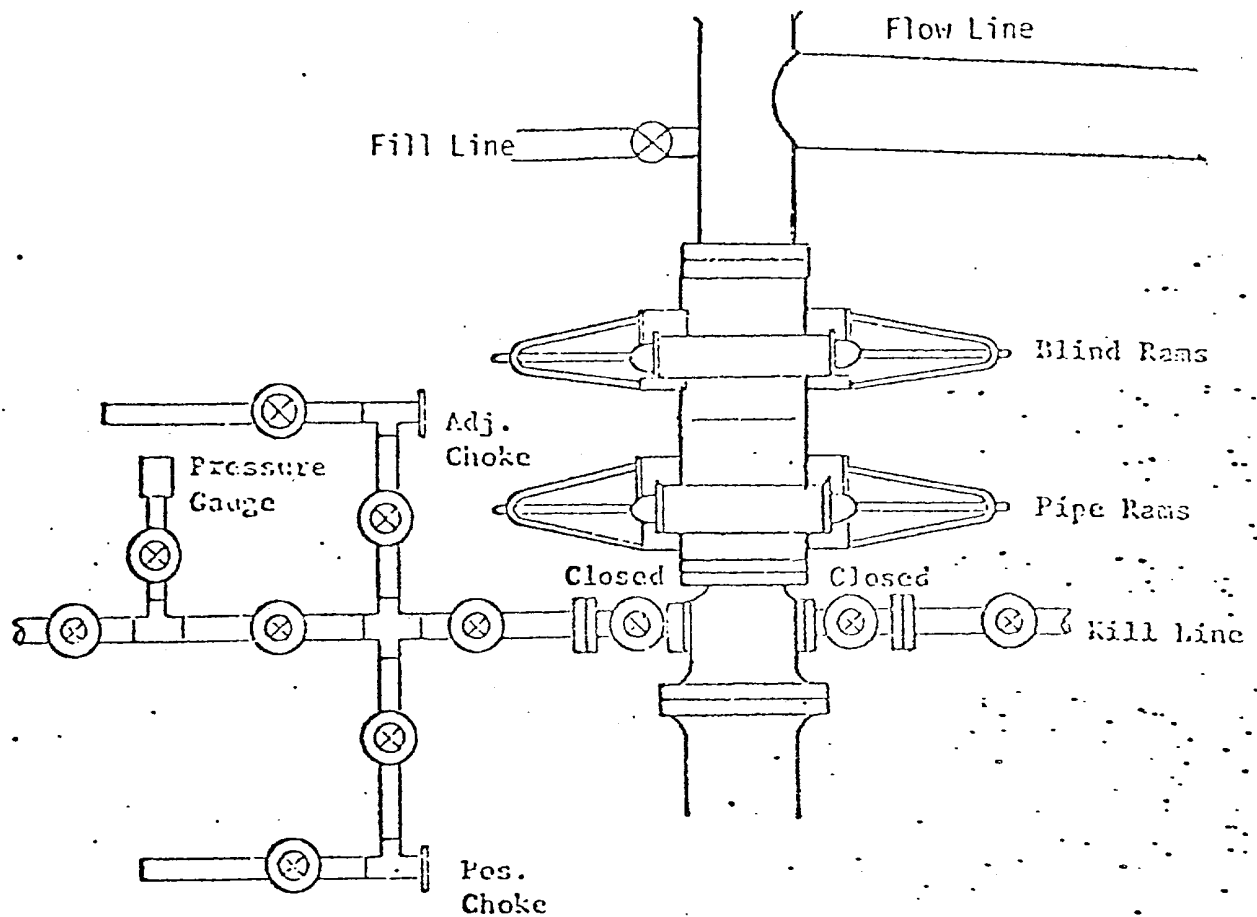
This is an area of known pressure. Maximum anticipated pressure at TD is 1200 psi. Anticipate no H<sub>2</sub>S Gas.

7. Drilling Fluids:

0 - 275' Spud mud.

275' - 3600' Gel water - low solids as needed to maintain good conditions.

3600' - TD Compressed gas.



All valves 2"

All BOPs, flanges, spools, valves & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

JOHNSTON FEDERAL 7A  
790' FSL and 1450' FEL  
Section 7 T31N-R9W  
San Juan County, N. M.

REQUIRED MINIMUM BLOWOFF PREVENTOR

HOOKEUP

Denver, Colorado

BLM SEEDING REQUIREMENTS  
IN THE FARMINGTON RESOURCE AREA

1. SEED MIXTURE 2

2. TIME:

All seeding will take place between July 1 and September 15.

3. EQUIPMENT:

Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted not less than one-half inch deep or more than one inch deep. The seeder will be followed with a drag, packer, or roller to insure uniform coverage of the seed, and adequate compaction. Drilling will be done on the contour where possible, not up and down the slope. Where slopes are too steep for contour drilling, a "cyclone" hand seeder or similar broadcast seeder will be used. Seed will then be covered to the depth described above by whatever means is practical.

4. SPECIES TO BE PLANTED IN POUNDS PURE-LIVE-SEED PER ACRE:

CRESTED WHEATGRASS (Agropyron desertorum) - 3-1/4 lbs.

FOURWING SALTBUSH (dewinged) (Atriplex conescens) - 1/2 lb.

SAND DROPSEED (Sporobolus cryptandrus) - 3/4 lb.

ALKALI SACATON (Sporobolus airoides) - 3/4 lb.

BLM COLOR REQUIREMENTS  
IN THE FARMINGTON RESOURCE AREA

1. All equipment shall be painted green to match the surrounding area.

Archaeological Clearance Survey Report  
for  
Union Texas Petroleum Corporation

Locations  
Johnson Federal No. 7-A  
Johnson Federal No. 8-A

Prepared by  
Pat Zarnowski

Submitted by  
Dr. J. Loring Haskell  
Operations Director and  
Principal Investigator  
Agency of Conservation Archaeology

February 18, 1977

### Introduction

The Agency of Conservation Archaeology of the San Juan County Museum Association and Eastern New Mexico University recently completed an archaeological clearance survey in the San Juan Basin Field on land that is to be impacted by the scheduled construction of two wells by Union Texas Petroleum of Denver, Colorado.

The survey project was initiated at the request of Mr. Donald Wells of Union Texas Petroleum on February 11, 1977. It was administered by Mr. Wells and by Dr. J. Loring Haskell, who serves as the principal investigator for the Agency of Conservation Archaeology in Portales, New Mexico.

The field work was conducted by Ms. Pat Zarnowski of the Agency of Conservation Archaeology in Farmington, New Mexico on February 14, 1977. This was done under provisions of permit No. 76-NM-023 which expires on March 7, 1977. Mr. Wells represented Union Texas Petroleum in the field.

### Survey

The requested archaeological clearance survey involved the two well locations described below, both located on land under the jurisdiction of the Bureau of Land Management. Please refer to the attached map and the Recommendations section of this report for specific details of locations.

The general survey method used was to walk the area of proposed construction in a zigzag manner. Visual inspection was made of the ground surface for evidence of any artifactual remains of historic or prehistoric origin. Floral, faunal and geological observations were made to briefly describe the environmental situation.

#### Johnson Federal No. 7-A

Environment: This well is to be located on a hill that separates Miller Canyon on the west and Long Glade Canyon on the east. The terrain is sloping to the west and the entire area where construction is to take place is disturbed as a result of chaining. There is a small sandstone ledge on the north and east sides of the pad area where pinyons (Pinus edulis) and junipers (Junipers sp.) are growing. The main vegetation in the open disturbed area is big sagebrush (Artemisia tridentata), snakeweed (Gutierrezia sarothrae), tumbleweed (Salsola kali), and various grasses.

Cultural resources: None.

Johnson Federal No. 8-A

Environment: This well will be located about three quarters of a mile northwest of the item above. It will be on a crest of a hill and the terrain is quite rugged. There is a heavy growth of trees here consisting of pinyon pines and junipers. Other vegetation in the area includes Mormon tea (Ephedra sp.) mountain mahogany (Cercocarpus montanus), prickly pear cactus (Opuntia sp.) and yucca (Yucca sp.). Sandstone bedrock is exposed in many areas.

Cultural resources: None.

Recommendations

<u>Well</u>	<u>Area</u>	<u>Location</u>	<u>Clearance Status</u>
Johnson Federal No. 8-A	Pad: 125' x 300' Road: 20' x 30'	1,450 feet from the East line, 790 feet from the South line, in the Southwest $\frac{1}{4}$ of the Southeast $\frac{1}{4}$ of Section 7, Township 31 North, Range 9 West, San Juan County, New Mexico. Map source: U. S. G. S. 15 minute Aztec Quadrangle.	Recommended
Johson Federal No. 8-A	Pad: 125' x 300' Road: Existing right-of- way.	1,840 feet from the North line, 900 feet from the West line in the Southeast $\frac{1}{4}$ of the Northwest $\frac{1}{4}$ of Section 7, Township 31 North, Range 9 West, San Juan County, New Mexico. Map source: U. S. G. S. 15 minute Aztec Quadrangle.	Recommended

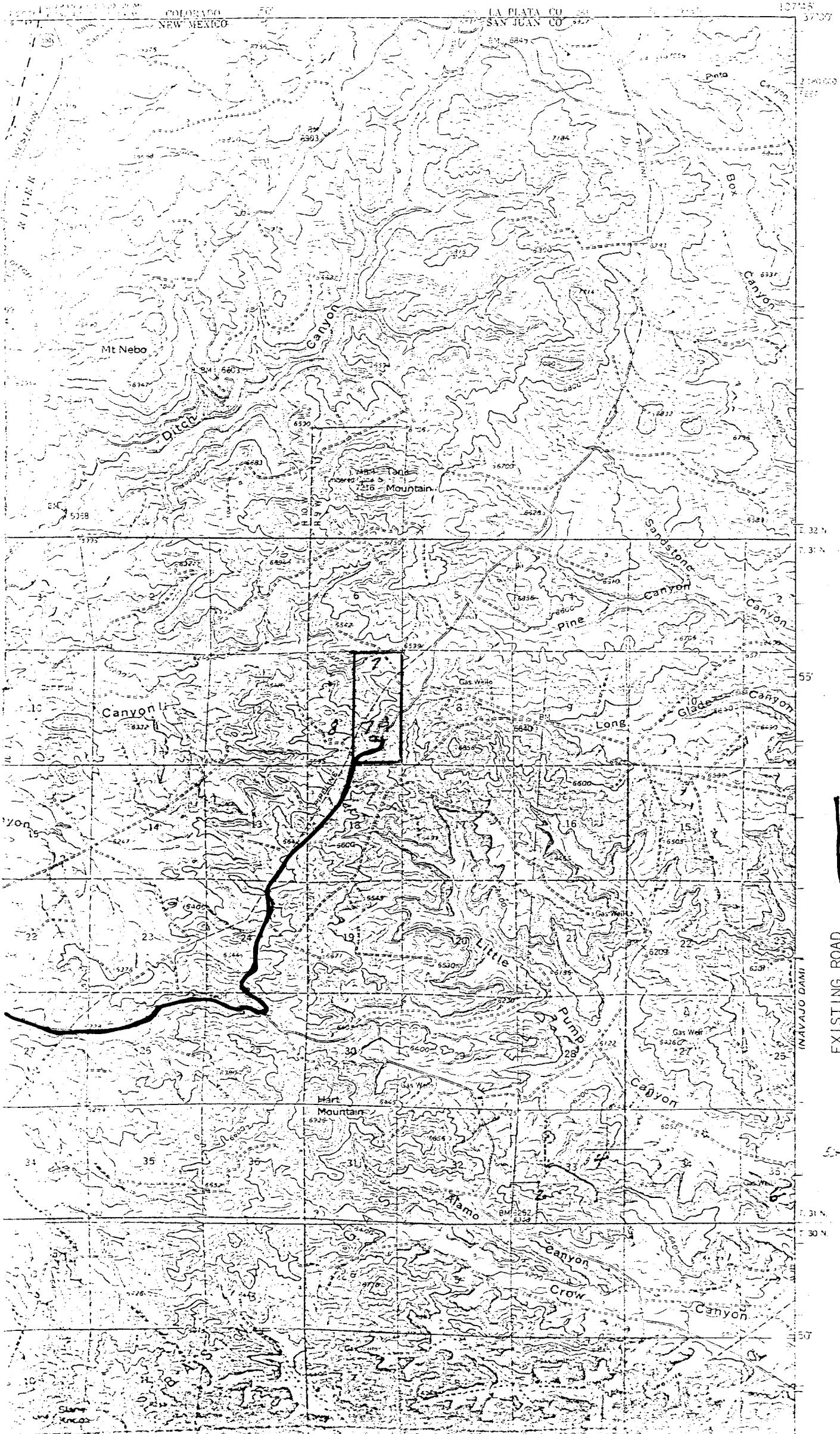
Because no archaeological material was located in the areas surveyed, it is recommended that archaeological clearance be granted for these two proposed well locations and access roads. It is felt that there will be no adverse impact on our cultural resources by this construction work.

EXHIBIT "A"

AZTEC QUADRANGLE  
NEW MEXICO

15 MINUTE SERIES (TOPOGRAPHIC)

107°45' 112°10' 112°10' 112°10'



EXISTING ROAD  
ROAD TO BE CONSTRUCTED

5280  
5280

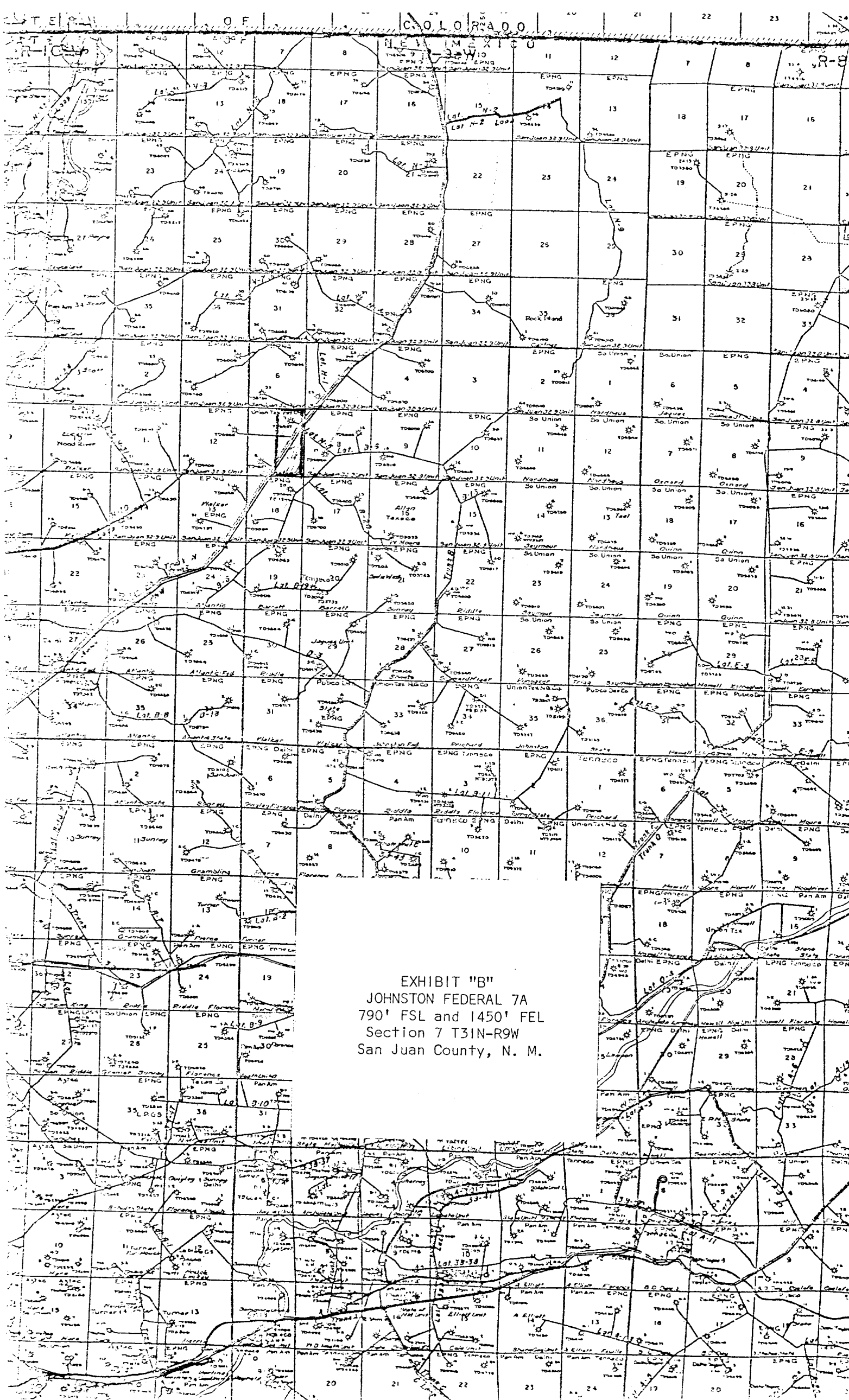
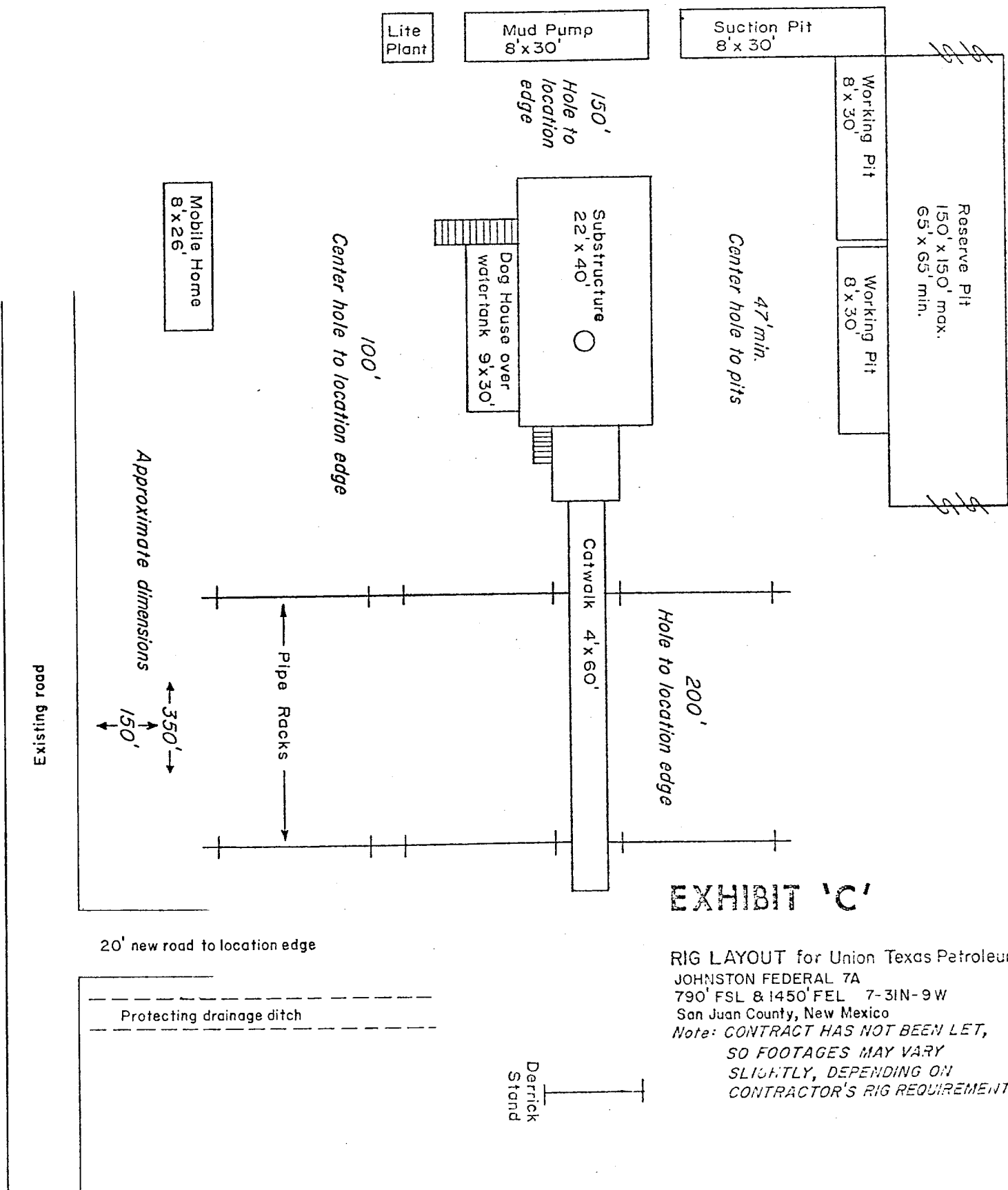
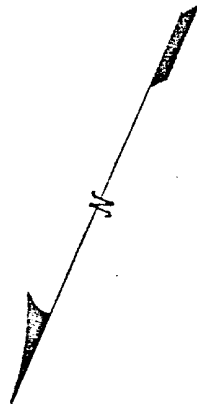


EXHIBIT "B"  
JOHNSTON FEDERAL 7A  
790' FSL and 1450' FEL  
Section 7 T31N-R9W  
San Juan County, N. M.





**EXHIBIT 'C'**

RIG LAYOUT for Union Texas Petroleum  
JOHNSTON FEDERAL 7A  
790' FSL & 1450' FEL 7-3IN-9W  
San Juan County, New Mexico  
Note: CONTRACT HAS NOT BEEN LET,  
SO FOOTAGES MAY VARY  
SLIGHTLY, DEPENDING ON  
CONTRACTOR'S RIG REQUIREMENT.