

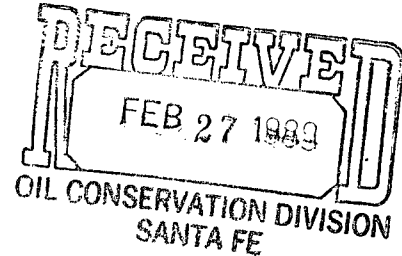


Union Texas Petroleum

*Mike Rice*

1330 Post Oak Blvd.  
P.O. Box 2120  
Houston, Texas 77252-2120  
(713) 623-6544

February 21, 1989



William J. LeMay - Director  
New Mexico Oil Conservation Commission  
P.O. Box 2088  
Santa Fe, New Mexico 87504

Re: Johnston Federal 15 - Sec. 35-31N-9W  
Johnston Federal 16 - Sec. 33-31N-9W  
San Juan County, New Mexico

Dear Mr. LeMay:

The two wells listed above are currently completed in the Blanco Pictured Cliffs Field. We are planning recompletions to the Fruitland Coal formation but spacing rules place the existing well bores in unorthodox locations.

We request approval for exception to unorthodox location for both wells.

Attached for your information are two C-102's reflecting the location of each well.

Please contact me at 713/ 968-4004 at your earliest convenience concerning this request.

Best regards,

*Ken White*

Ken White  
Regulatory Permit Coordinator

KEW/pp  
Attachments

*3/28/89  
Talked w/  
Paula Priest  
about production units!  
Will call back tomorrow  
M.S.*



*Union Texas Petroleum*

1330 Post Oak Blvd.  
P.O. Box 2120  
Houston, Texas 77252-2120  
(713) 623-6544

OFFSET OPERATORS

JOHNSTON FEDERAL 15 & 16

El Paso Natural Gas Company  
P.O. Box 4990  
Farmington, New Mexico 87401

Tenneco Oil Co.  
P.O. Box 3249  
Englewood, Colorado 80155

Mesa Ltd., Partnership  
P.O. Box 2009  
Amarillo, Texas 79189

Unicon Producing Co. (Supron)  
P.O. Box 2120  
Houston, Texas 77252-2120  
Union Texas Petroleum Subsidiary

Delhi Gas Pipeline Corporation  
1700 Pacific Avenue  
Dallas, Texas 75201

**MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-1  
Effective 1-1-6

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

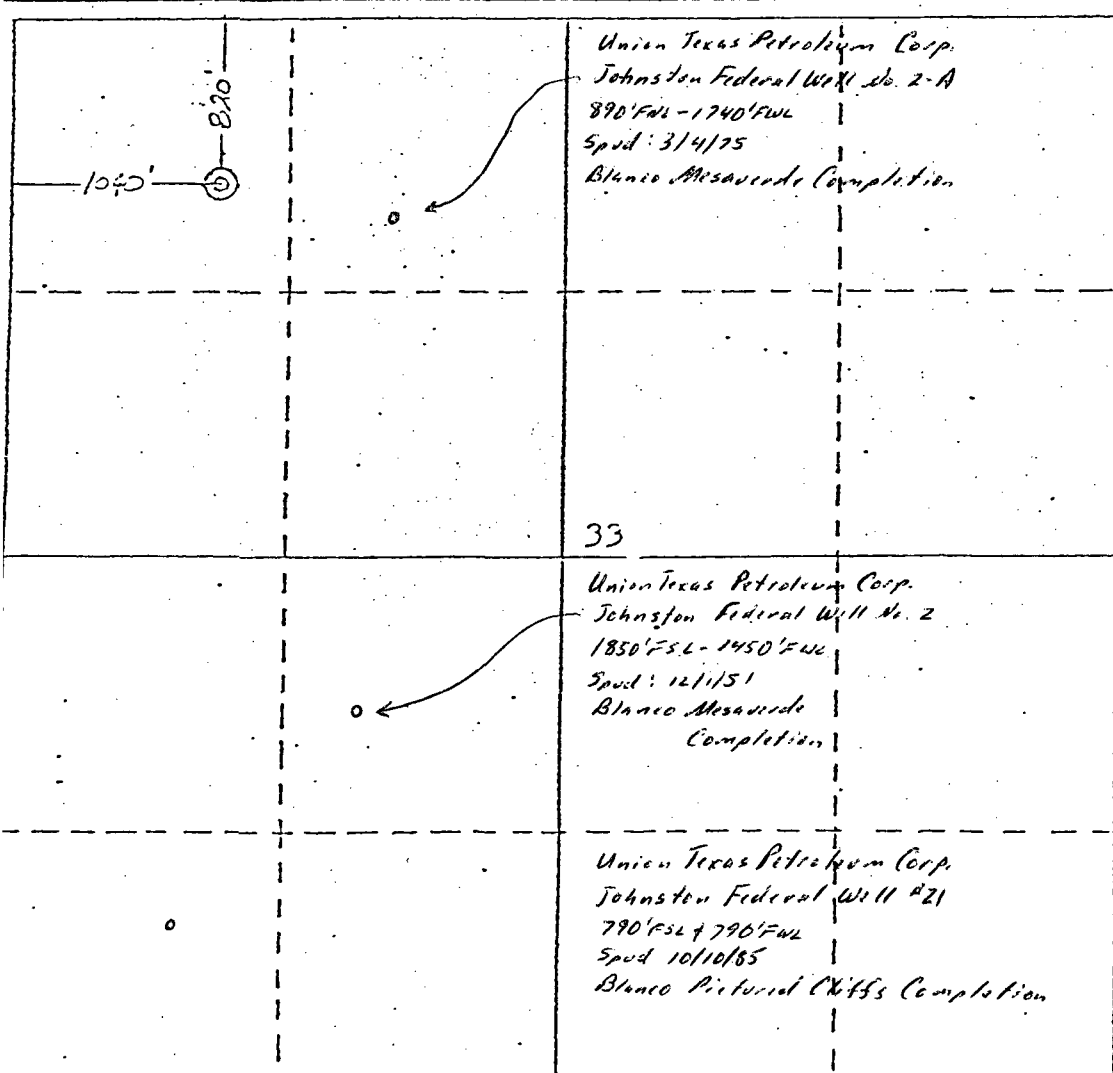
Operator <b>UNION TEXAS PETROLEUM</b>			Lease <b>JOHNSTON FEDERAL</b>		Well No. <b>16</b>
Unit Letter <b>D</b>	Section <b>33</b>	Township <b>31 NORTH</b>	Range <b>9 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well:					
<b>820</b>	feet from the <b>NORTH</b>	line and	<b>1040</b>	feet from the <b>WEST</b>	line
Ground Level Elev. <b>6229</b>	Producing Formation <b>PICTURED CLIFFS</b>	Pool <b>BLANCO PICTURED CLIFFS</b>		Dedicated Acreage: <b>157.80</b>	Acre

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 *M. J. Kelly*

Position District Prod. Manager

Company Union Texas Petroleum

Date 5-3-79

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 24 January 1979

Registered Professional Engineer and/or Land Surveyor

*Michael Daly*

**MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Form C-102  
Supersedes C-1  
Effective 1-1-6

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

Operator <b>UNION TEXAS PETROLEUM</b>			Lease <b>JOHNSTON FEDERAL</b>		Well No. <b>16</b>
Unit Letter <b>D</b>	Section <b>33</b>	Township <b>31 NORTH</b>	Range <b>9 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well:					
<b>820</b>	feet from the <b>NORTH</b>	Line and	<b>1040</b>	feet from the <b>WEST</b>	Line
Ground Level Elev. <b>6229</b>	Producing Formation <b>PICTURED CLIFFS</b>	Pool <b>BLANCO PICTURED CLIFFS</b>		Dedicated Acreage: <b>157.80</b>	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the 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**

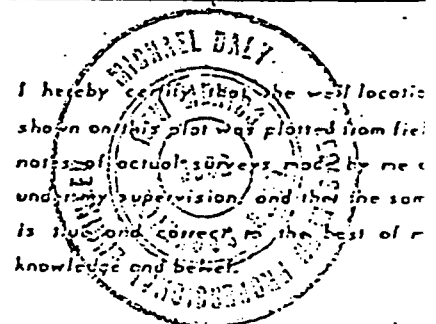
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name *M. J. Bell*

Position District Prod. Manager

Company Union Texas Petroleum

Date 5-3-79



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

24 January 1979

Registered Professional Engineer and/or Land Surveyor

Michael Daly



STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178

OIL CONSERVATION DIVISION  
BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE 2-24-89

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL X \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX \_\_\_\_\_

Gentlemen:

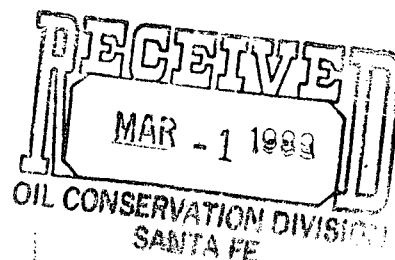
I have examined the application dated 2-24-89  
for the Union Texas Petroleum Johnston Fed #16 D-33-31N-9W  
Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

Approved  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Yours truly,

E. B. Brund



EL PASO NATURAL GAS COMPANY  
POST OFFICE BOX 990  
FARMINGTON, NEW MEXICO

NOTICE OF GAS CONNECTION

(H) DATE January 2, 1980

THIS IS TO NOTIFY THE OIL CONSERVATION COMMISSION THAT CONNECTION FOR PURCHASE OF

GAS FROM Union Texas Petroleum Johnston Federal #16  
Operator Well Name90-828-01 26294-01 D 33-31-9  
Meter Code Site Code Well Unit S-T-RBlanco Pictured Cliff El Paso Natural Gas Company  
Pool Name of PurchaserWAS MADE ON December 19, 1979 FIRST DELIVERY December 28, 1979  
Date DateAOF 6,196CHOKE 4,156El Paso Natural Gas Company  
PurchaserSt. M. J. Ford  
RepresentativeChief Dispatcher  
Titlecc: Operator **Denver**  
Oil Conservation Commission - 2  
Proration - El Paso

File



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LAND OFFICE		
TRANSPORTER	OIL	1
	GAS	
OPERATOR		
PRODUCTION OFFICE		

**NEW MEXICO OIL CONSERVATION COMMISSION  
REQUEST FOR ALLOWABLE  
AND  
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS**

Form C-104  
Supersedes Old C-104 and C-110  
Effective 1-1-65

API 30-045-23521

**I. OPERATOR**

**UNION TEXAS PETROLEUM**

Address  
**1860 Lincoln Street, Suite 1010, Denver, Colorado 80295**

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of:

Recompletion ☐ Oil ☐ Dry Gas ☐

Change in Ownership ☐ Casinghead Gas ☐ Condensate ☐

If change of ownership give name and address of previous owner \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <b>JOHNSTON FEDERAL</b>	Well No. <b>16</b>	Pool Name, Including Formation <b>Blanco Pictured Cliffs</b>	Kind of Lease State, Federal or Fee <b>Federal</b>
Location			
Unit Letter <b>D</b>	<b>820</b> Feet From The <b>N</b> Line and <b>1040</b> Feet From The <b>W</b>		
Line of Section <b>33</b>	Township <b>31N</b>	Range <b>9W</b>	NMPM, <b>San Juan</b> County

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>Plateau, Inc.</b>	<b>Union Texas Petroleum</b>
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
<b>El Paso Natural Gas Co.</b>	<b>1860 Lincoln #1010 Denver Co. 80295</b>
Unit Sec. Twp. Rge.	Is gas actually connected? When
<b>D 33 31N 9W</b>	<b>Same as above</b>
If well produces oil or liquids, give location of tanks.	
<b>D 33 31N 9W</b>	<b>No</b>

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well <input type="checkbox"/>	Gas Well <input checked="" type="checkbox"/>	New Well <input checked="" type="checkbox"/>	Workover <input type="checkbox"/>	Deepen <input type="checkbox"/>	Plug Back <input type="checkbox"/>	Same Res'v. <input type="checkbox"/>	Diff. Res'v. <input type="checkbox"/>
Date Spudded <b>8/6/79</b>	Date Compl. Ready to Prod. <b>10/15/79</b>	Total Depth <b>3424</b>	P.B.T.D. <b>3400</b>					
Pool <b>Blanco Pic. Cliffs</b>	Name of Producing Formation <b>Pictured Cliffs</b>	Top Oil/Gas Pay <b>3062</b>	Tubing Depth <b>3121</b>					
Perforations <b>3062-3108 (59 holes)</b>		Depth Casing Shoe <b>3424</b>						
<b>TUBING, CASING, AND CEMENTING RECORD</b>								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT					
<b>13-3/4</b>	<b>9-5/8"</b>	<b>318</b>	<b>275</b>					
<b>8-3/4</b>	<b>5-1/2"</b>	<b>3424</b>	<b>1200</b>					
<b>--</b>	<b>2-3/8" tubing</b>	<b>3121</b>	<b>--</b>					

**V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL**

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-Bbls.

**GAS WELL**

Actual Prod. Test-MCF/D <b>4156</b>	Length of Test <b>3 hours</b>	Bbls. Condensate/MMCF <b>0</b>	Gravity of Condensate <b>0</b>
Testing Method (pitot, back pr.) <b>Positive choke</b>	Tubing Pressure <b>326</b>	Casing Pressure <b>671</b>	Choke Size <b>3/4</b>

**VI. CERTIFICATE OF COMPLIANCE**

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION COMMISSION

**DISTRICT PRODUCTION MANAGER**

**NOVEMBER 8, 1979**

**OIL CONSERVATION COMMISSION**

APPROVED **NOV 28 1979**

BY **AR. K. K. K.**  
TITLE **SUPERVISOR DISTRICT #3**

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

SF 078439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

Union Texas Petroleum, A Division of Allied Chemical Corp

3. ADDRESS OF OPERATOR

1860 Lincoln St., #1010, Denver, Colorado 80295

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

At surface NW NW (820'FNL - 1040'FWL) Sec.33-T31N-R9W

At top prod. Interval reported below

Same

At total depth

Same

14. PERMIT NO.

DATE ISSUED

6/22/79

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Johnston Federal

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

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

Sec. 33-T31N-R9W

12. COUNTY OR PARISH

San Juan

13. STATE

N.Mex.

15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKR, RT, GR, ETC.)\* 19. ELEV. CASINGHEAD

8/6/79

8/14/79

10/15/79

6229 GL & 6239 KB

20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY 24. ROTARY TOOLS 25. CABLE TOOLS

3424

3400

→

X

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* 25. WAS DIRECTIONAL SURVEY MADE

Pictured Cliffs (Top 3062 - Bottom 3108)

No

26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED

Dual Ind.; CNL Density; Cased Hole Neutron

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	40	318	13-3/4	275 sx.	None
5-1/2	14, 15.5, 17	3424	8-3/4	1200 sx.	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8	3121	None

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

Pictured Cliffs (KB Datum)  
3062-3087 (44 - .43" holes)  
3091-3097 ( 7 - .43" holes)  
3101-3108 ( 8 - .43" holes)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
3062-3108	1500 gal. 15% HCL
3062-3108	Foam frac - 75% quality
	Foam 96000# Sand

33.\* PRODUCTION

DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut in)

Flowing

S. J. R. Pipeline

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL—GAL. (CORR.)
10/24/79	3	3/4"	→	0	500	0	0

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL—GAL. (CORR.)
326	671	→	4156	0	0	0

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) 35. TEST WITNESSED BY

Vented

Joe Elledge

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Dist. Production Manager DATE November 8, 1979

\*(See Instructions and Spaces for Additional Data on Reverse Side)



# INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency 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. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

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 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks General": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CONED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			NO CORES OR DST'S

## 38.

### GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Pictured Cliffs	3047		

RECEIVED

DEC 01 1973

CONSERVATION DIVISION  
SANTA FE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(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.

16

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

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

Sec. 33-T31N-R9W

12. COUNTY OR PARISH 13. STATE

San Juan N. Mex.

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 WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

Union Texas Petroleum, A Division of Allied Chemical

3. ADDRESS OF OPERATOR

1860 Lincoln Street, Suite 1010, Denver, Co. 80295 Corp

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

NW NW (820'FNL, 1040'FWL) Sec. 33-T31N-R9W

14. PERMIT NO.

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

6229 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)

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\* ☐Completion ☒(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 perti-  
nent to this work.)\*October 5 thru October 15

1. MIRU Flint pulling unit. Clean out to PBTD 3400' (KB). Pressure test casing to 3300#. Held okay.
2. Perforated Pictured Cliffs from 3062 - 3108 with total 59 - .43" holes.
3. Acidized well with 1500 gallons 15% HCL.
4. Frac well at 30 BPM with 75% quality foam and 96,000# 10-20 sand.
5. Flowed well to clean up after frac.
6. Shut well in waiting on pipeline connection.

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

SIGNED

TITLE District Prod. Manager DATE November 8, 1979

(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  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special					Test Date 10-24-79	
Company Union Texas Petroleum				Connection El Paso Natural Gas		
Pool Blanco				Formation Picture Cliff		Unit
Completion Date 10-15-79		Total Depth 3425		Plug Back TD 3400		Elevation NA
Farm or Lease Name Johnston Federal						Well No. #16
Csg. Size 5.500	Wt. 14#	d 5.012	Set At 3424	Perforations: From 3062 To 3108		
Thg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 3121	Perforations: From Open To Ended		Unit Sec. Twp. Rge. D 33 31 9
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None		County San Juan
Producing Thru Tubing		Reservoir Temp. °F @		Mean Annual Temp. °F		State New Mexico
L	H	Gg .650 est.	% CO <sub>2</sub>	% N <sub>2</sub>	% H <sub>2</sub> S	Prover Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	9 days						1102		1102		
2.	2 inch	.750		326			326	60°	671	60°	3 hrs.
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12,3650		338	1.000	.9608	1.035	4156
2.							
3.							
4.							
5.							

NO.	P <sub>r</sub>	Temp. °R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

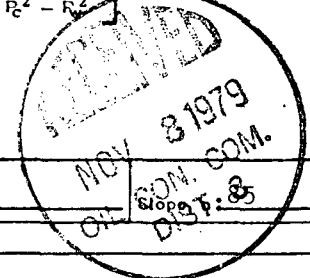
P <sub>c</sub> 1114	P <sub>c</sub> <sup>2</sup> 1,240,996	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.6000$	(2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.49107$
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>
1		683	466,489
2			
3			
4			
5			

Absolute Open Flow 6196 Mcfd @ 15.025		Angle of Slope @
Remarks: Dry gas throughout test- show of condensate		

Approved By Commission:	Conducted By: Joe F. Elledge	Calculated By: Joe F. Elledge	Checked By: Mr. Don Wells
-------------------------	---------------------------------	----------------------------------	------------------------------



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.

SF078439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Johnston Federal

9. WELL NO.

#16

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

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

Section 33-T31N-R9W

12. COUNTY OR PARISH

San Juan

13. STATE

N.Mex.

## 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

2. NAME OF OPERATOR

UNION TEXAS PETROLEUM, DIVISION OF ALLIED CHEMICAL CORP.

3. ADDRESS OF OPERATOR

1860 Lincoln St., #1010, Denver, Colorado 80295

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

NW NW (820' FNL, &amp; 1040' FWL) of Section 33

14. PERMIT NO.

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

6229'GR

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)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

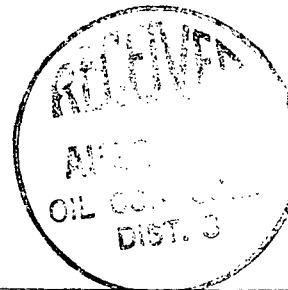
ALTERING CASING

ABANDONMENT\*

WELL STATUS-

(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 perti-  
nent to this work.)\*

1. Well was spud on August 6, 1979. Drilled 13-3/4" hole to 320'.
2. 9-5/8", 40#, K-55 casing was set & cemented at 318'(KB) with 275 sx. Class "B" containing 3% salt and 1/4# celoflake. Cement circulated.
3. Drilled 8-3/4" hole to 3420' (TD).
4. 5-1/2", 14#, 15.5#, and 17# K-55 casing was set and cemented at 3424'(KB) with 1000 sx. 65-35 pozmix containing 6-1/4# gilsonite and .4% halad-9 and 200 sx. 50-50 poz containing 2% gel, 10% salt and .75% CFR 2. Circulated 72 Bbl. good cement to pits.
5. Presently waiting on completion tools.



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

SIGNED

C. W. Claxton  
C. W. CLAXTON

TITLE

DISTRICT PETRO. ENGINEER

DATE

AUGUST 17, 1979

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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.

SF078439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Johnston Federal

9. WELL NO.

#16

10. FIELD AND POOL, OR WILDCAT

Blanco Pictured Cliffs

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

Section 33-T31N-R9W

12. COUNTY OR PARISH

San Juan

13. STATE

N.Mex.

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

UNION TEXAS PETROLEUM, DIVISION OF ALLIED CHEMICAL CORP.

3. ADDRESS OF OPERATOR

1860 Lincoln St., #1010, Denver, Colorado 80295

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

NW NW (820' FNL, &amp; 1040' FWL) of Section 33

14. PERMIT NO.

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

6229' GR

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)

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\*

WELL STATUS

(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.)\*

1. Well was spud on August 6, 1979. Drilled 13-3/4" hole to 320'.
2. 9-5/8", 40#, K-55 casing was set & cemented at 318'(KB) with 275 sx. Class "B" containing 3% salt and 1/4# celoflake. Cement circulated.
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5. Presently waiting on completion tools.

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

SIGNED

C. W. Claxton  
C. W. CLAXTON

TITLE

DISTRICT PETRO. ENGINEER

DATE

AUGUST 17, 1979

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

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

Union Texas Petroleum, A Division of Allied Chemical

## 3. ADDRESS OF OPERATOR

Corporation

1860 Lincoln, Suite 1010, Denver, Colorado 80295

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

At surface

NW NW (820' FNL &amp; 1040' FWL) of SEC.33

At proposed prod. zone

S A M E

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

Approx. 12 miles east of Aztec, N. M.

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drig. unit line, if any)

## 16. NO. OF ACRES IN LEASE

2446.6

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

157.80

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

## 19. PROPOSED DEPTH

3450'

## 20. ROTARY OR CABLE TOOLS

Rotary tools

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

6229' GR

## 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
12-1/4"	8-3/8"	24#	300'	200 sx.
7-7/8"	5-1/2"	14#	3450'	475 sx.

Plan to drill well as follows:

1. MIRU rotary tools, drill 12-1/4" hole to 300'.
2. Set 8-5/8" OD 24#/ft. K-55 new casing at 300' and cement with sufficient cement to circulate to surface (approximately 200 sx.).
3. Drill 7-7/8" hole to approximately 3450' and log Pictured Cliffs.
4. Set 5-1/2" OD 14#/ft. K-55 new casing at TD and cement with sufficient volume to circulate to surface (approximately 475 sx.).
5. Based on logs, perforate and complete in Pictured Cliffs.
6. Stimulate if necessary.
7. Clean up well site.
8. Approximately 8 days will be required to drill this well.
9. Gas is dedicated to El Paso Natural Gas Company.

(Continued on other 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

(This space for Federal or State official use)

PERMIT NO.

RECEIVED

MAY 15 1979

DISTRICT PRODUCTION  
MANAGER

DATE

MAY 2, 1979

APPROVAL DATE

OIL CONSERVATION DIVISION

APPROVED BY

SANTA FE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank  
write NW

\*See Instructions On Reverse Side

NMOCE

30-075-23521

5. LEASE DESIGNATION AND SERIAL NO.

SE072439

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

JOHNSTON FEDERAL

9. WELL NO.

16

10. FIELD AND POOL, OR WILDCAT

BLANCO PICTURED CLIFFS

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

SEC.33-T31N-R 9W

12. COUNTY OR PARISH

13. STATE

San Juan

N. Mexico

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102  
Supersedes C-12  
Effective 1-1-65

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

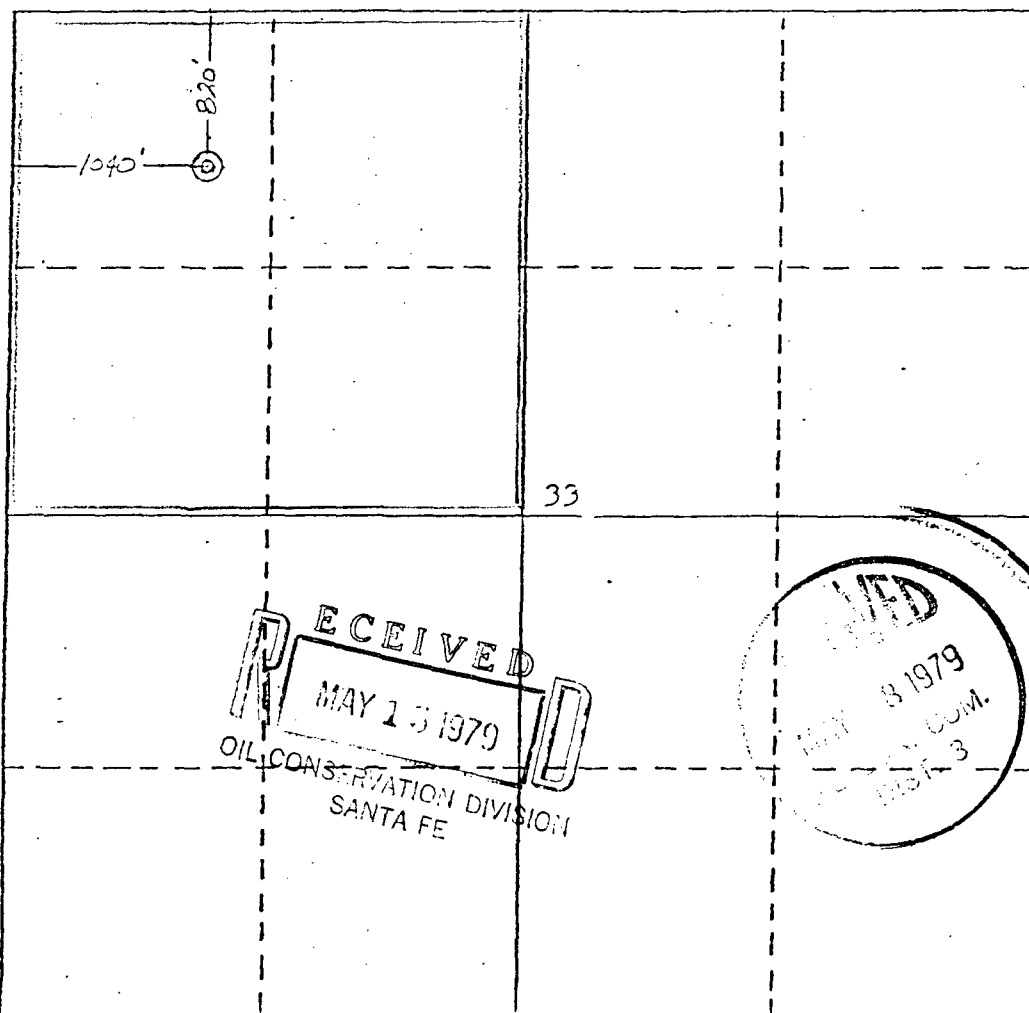
Operator <b>UNION TEXAS PETROLEUM</b>			Lease <b>JOHNSTON FEDERAL</b>		Well No. <b>16</b>
Unit Letter <b>D</b>	Section <b>33</b>	Township <b>31 NORTH</b>	Range <b>9 WEST</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <b>820</b> feet from the <b>NORTH</b> line and <b>1040</b> feet from the <b>WEST</b> line					
Ground Level Elev. <b>6229</b>	Producing Formation <b>PICTURED CLIFFS</b>		Pool <b>BLANCO PICTURED CLIFFS</b>		Dedicated Acreage: <b>157.80</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 *M. J. Kelly*  
Position District Prod. Manager  
Company Union Texas Petroleum  
Date 5-3-79

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 24 January 1979  
Registered Professional Engineer and/or Land Surveyor  
*Michael Daly*  
Certificate No. 5992

0 330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

## Instructions

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

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

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

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

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

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

### ITEM 23 - (Continued):

10. Surface formation is Ojo Alamo.
11. Top of Pictured Cliffs formation anticipated at 3350'.
12. Mud Program: 0-300' - Spud mud.  
300-3000' - Clear water (8.4 to 8.8#/gal.)  
3000-T.D. - Gelled water (8.6 to 9.3#/gal., viscosity 27-29)
13. No cores or drill stem tests are anticipated.
14. Logs to be run: Compensated Formation Density  
Sidewall Neutron  
Induction  
Gamma Ray  
Caliper  
Deviation (single shot)



## SURFACE USE PLAN

UNION TEXAS PETROLEUM'S  
Johnston-Federal #16 (820'FNL, 1040'FWL)  
Section 33-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. Location is approximately 12 miles northeast from Aztec, New Mexico. Turn east (right) on Hart Canyon Road and continue approximately 9 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 - 230' x 150' (approximately).
  - b. Surface - Will be native soil, bladed, watered and capped with clay only when necessary.
  - c. Reserve pit - 75' x 75' unlined pit, joining mat to the northeast.
  - d. Cut & fill - 6' cut on southwest. Natural drainage will remain unaltered.
  - 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 southeast.
  - f. Setting & Environment -
    - (1) Terrain - See Exhibit "A", topographic map of area. Gently sloping to northeast.
    - (2) Soil - Extremely sandy soil.

f. Setting & Environment (continued)

- (3) Vegetation - Sagebrush, pinon, & juniper.
- (4) Surface Use - Unknown, possibly used for grazing.
- (5) Other - Drill site, which is sloping to the northeast 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 the 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) Arroyos, Canyons, etc. - See Exhibit "A". Little Pump Canyon is 1/2 mile to the north.

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 - No new roads will be constructed. Plan to follow El Paso's Right-of-way.
- c. Fences, Gates and Cattleguards - None.

5. TANK BATTERY - Well is anticipated to produce dry gas, but in the event the well produces liquids, a tank battery will be erected on the pad.

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 a 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.

8. WATER SUPPLY - Supply water will be hauled from the San Juan River or nearest wash.

9. ARCHAEOLOGICAL RESOURCES - A copy of the report prepared by the Division of Conservation of Archaeology in Farmington, New Mexico is attached.

10. RESTORATION OF SURFACE - 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  
1860 Lincoln St., Suite 1010  
Denver, Colorado 80295

Office Phone: (303) 839-5528  
Home Phone: (303) 979-4872

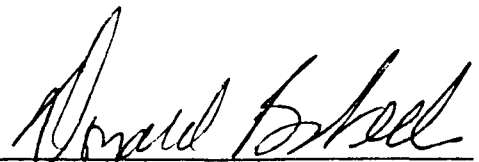
C. W. Claxton  
1860 Lincoln St., Suite 1010  
Denver, Colorado 80295

Office Phone: (303) 839-5528  
Home Phone: (303) 770-7433

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 and the terms and conditions under which it is approved.

5-3-29  
DATE

  
DONALD B. WELLS  
DISTRICT PRODUCTION MANAGER

JOHNSTON FEDERAL #16

7 POINT WELL CONTROL PLAN

1. Surface casing: 8-5/8", 24#/ft., approximately 300, grade K-55, new condition.
2. Casinghead will be 10", 900 series, 3,000 psi rating.
3. Intermediate casing - Will not be required.  
Production casing - 5-1/2" OD, 14#/ft., K-55, will be set at +3450' and cemented to surface casing.
4. Blowout preventers: 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.
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:
  - 0-300' - Spud mud.
  - 300-3000' - Gel water - low solids as needed to maintain good conditions.
  - 3000-TD - Gel water - increase weight to 9.3#/gal. as required.

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 SALT BUSH (dewinged) (*Atriplex conescens*) - 1/2 lb.

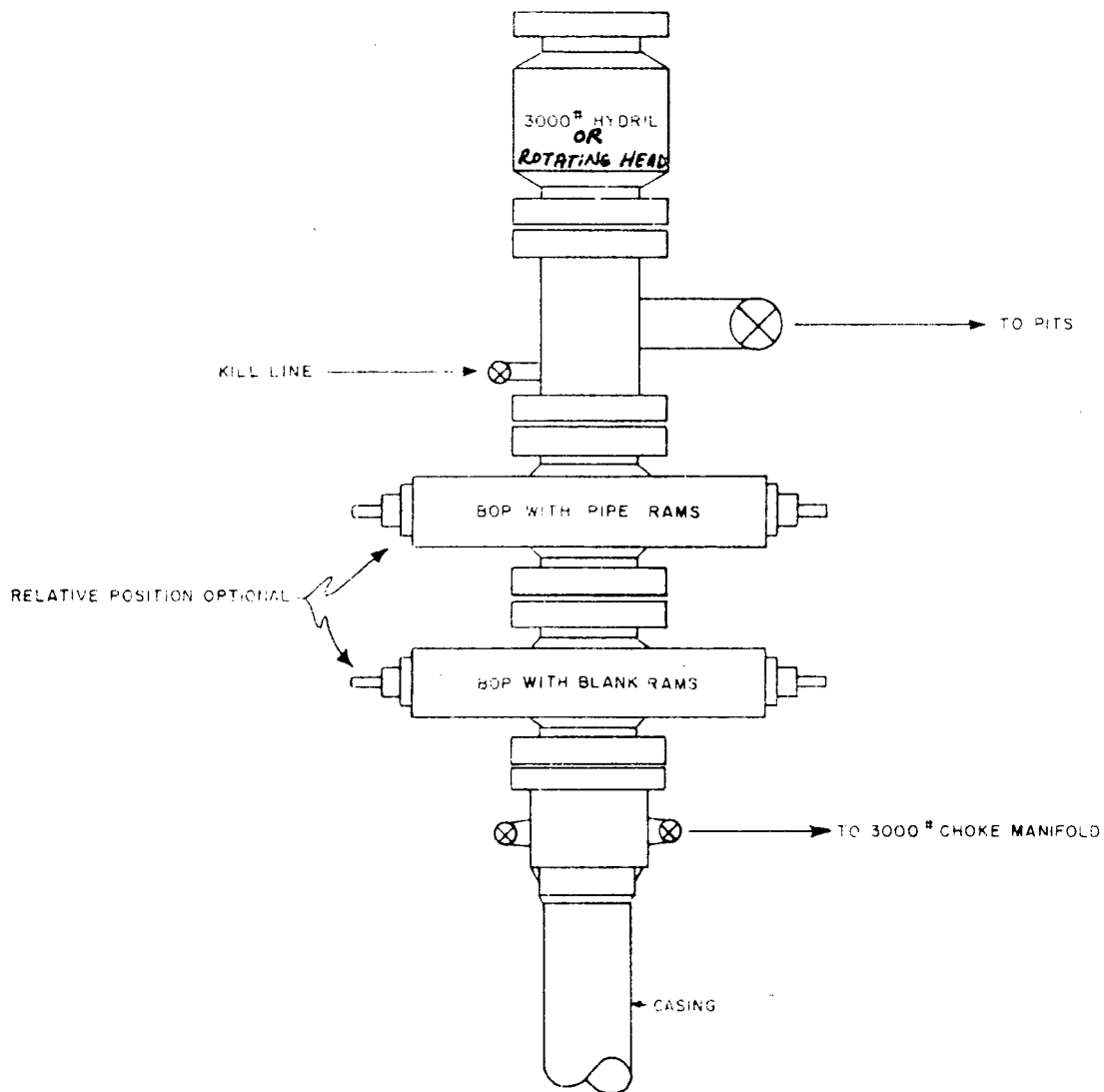
SAND DROPSEED (*Sporobolus cryptandrus*) - 3/4 lb.

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.  
(or any other color designated by BLM).

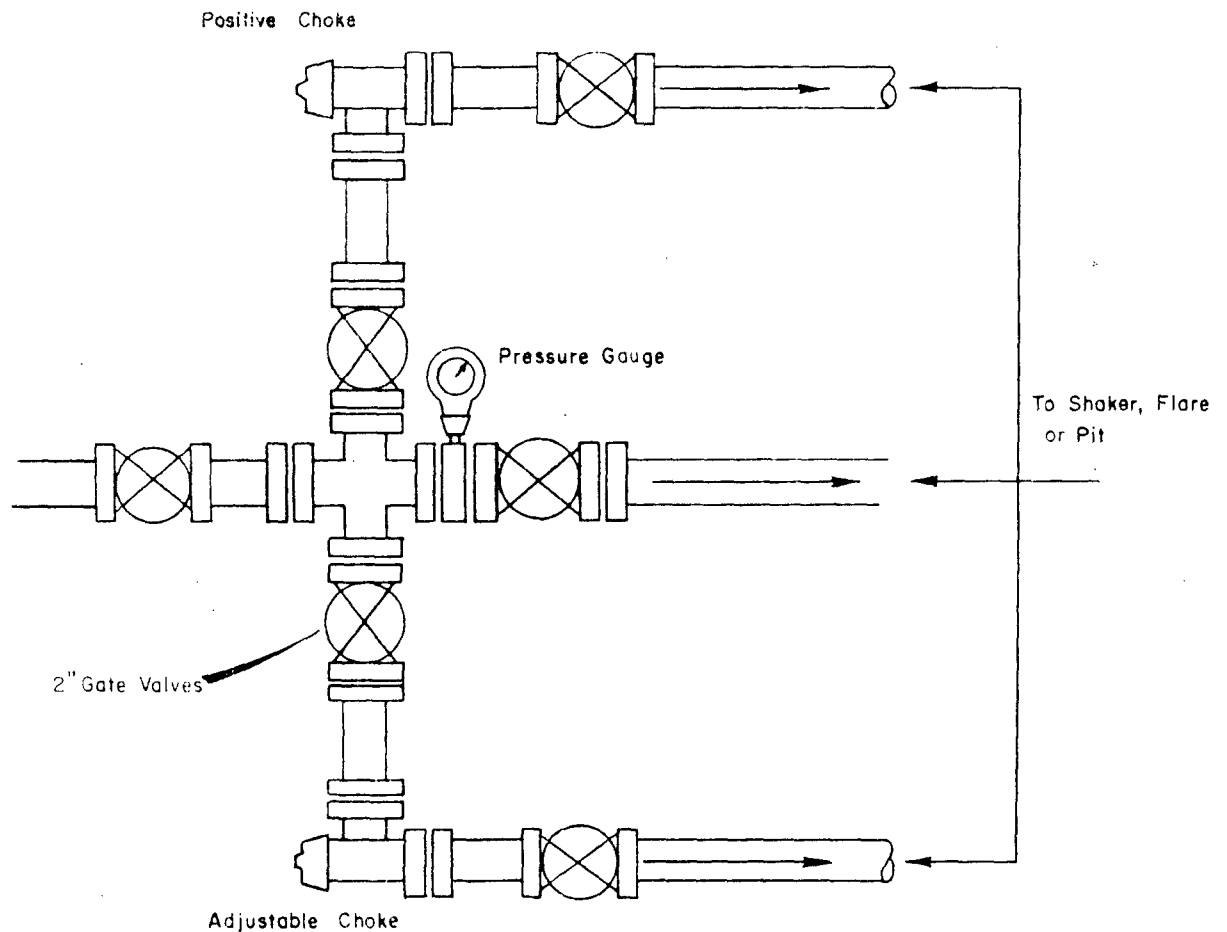
JOHNSTON FEDERAL #16  
NW-1/4-SEC 33-T31N-R9W



UNION TEXAS PETROLEUM

BLOWOUT PREVENTOR HOOK UP  
3000 PSI

JOHNSTON FEDERAL #16  
NW-NW-SEC 33-T31N-R9W



UNION TEXAS PETROLEUM  
CHOKE MANIFOLD

API CLASS  
3M

WORKING PRESSURE  
3000 PSI

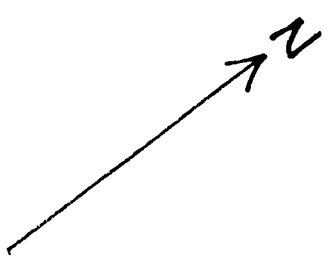
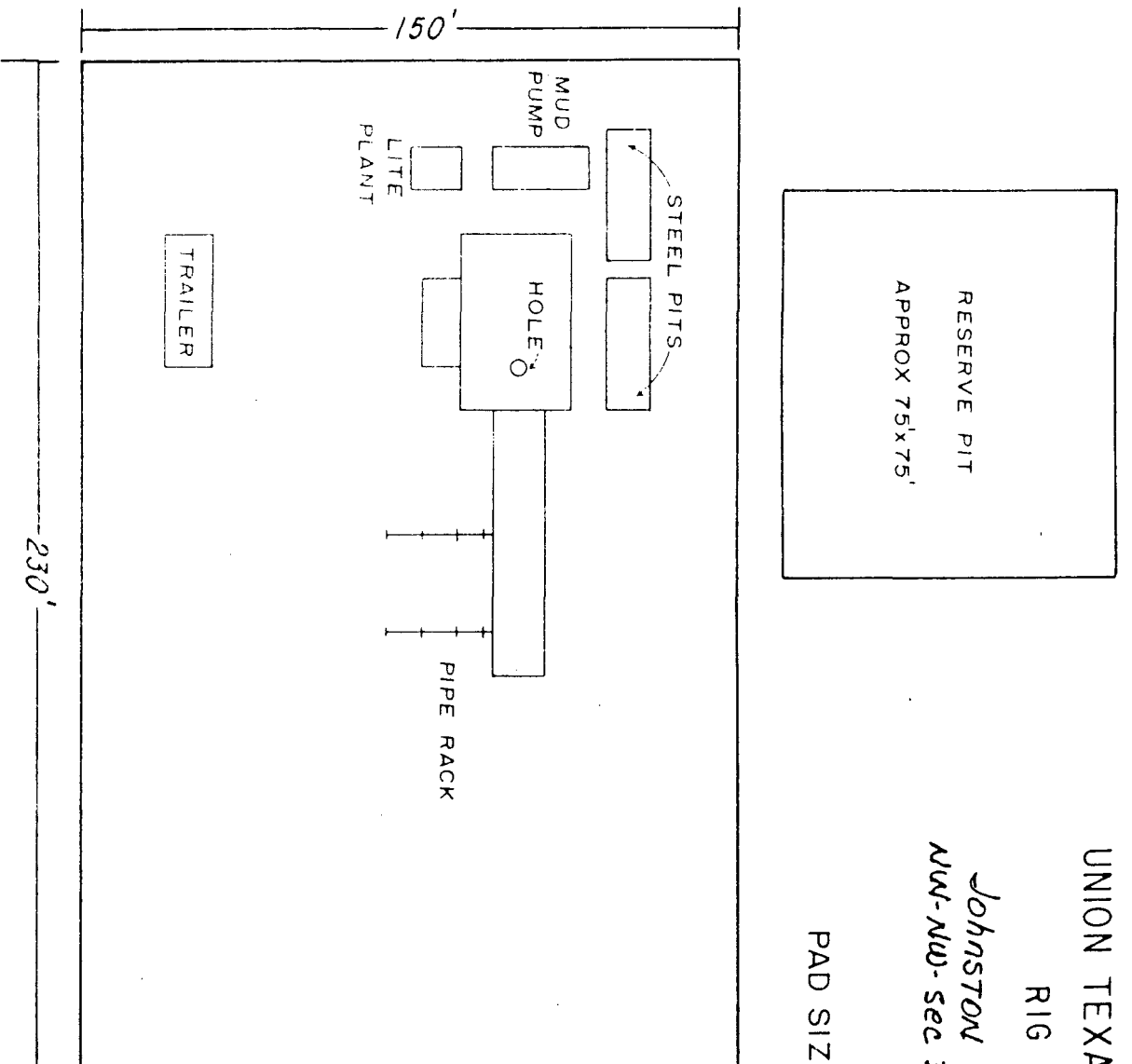
SERVICE CONDITION  
Low Pressure

UNION TEXAS PETROLEUM

RIG LAYOUT

*Johnston Federal #16*  
*NW-1/4-sec 33-T31N-R9W*

PAD SIZE 150' x 230'



NOTE: CONTRACTOR HAS NOT BEEN  
LEFT, SO FOOTAGES MAY VARY  
SLIGHTLY

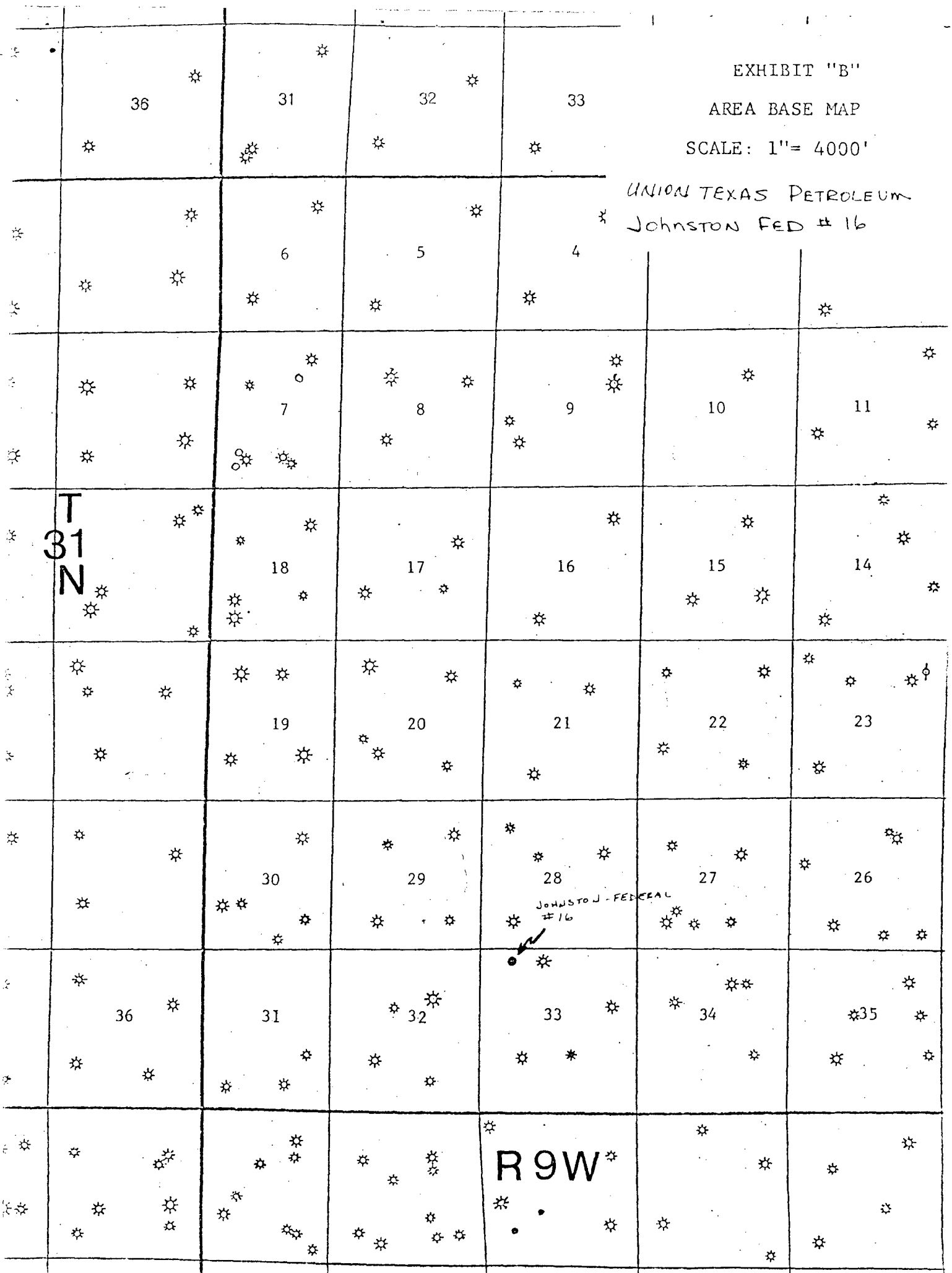


EXHIBIT "B"

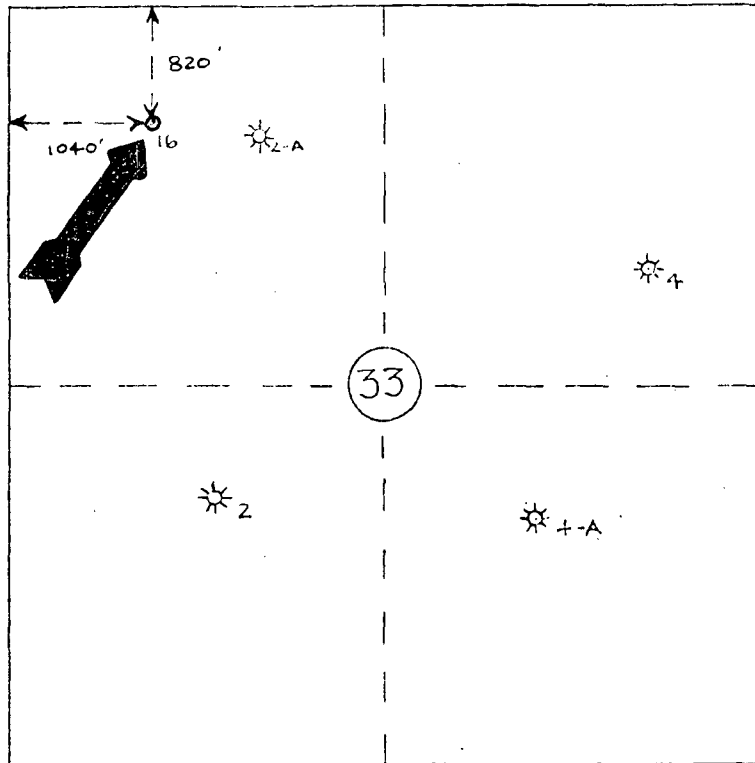
AREA BASE MAP

SCALE: 1" = 4000'

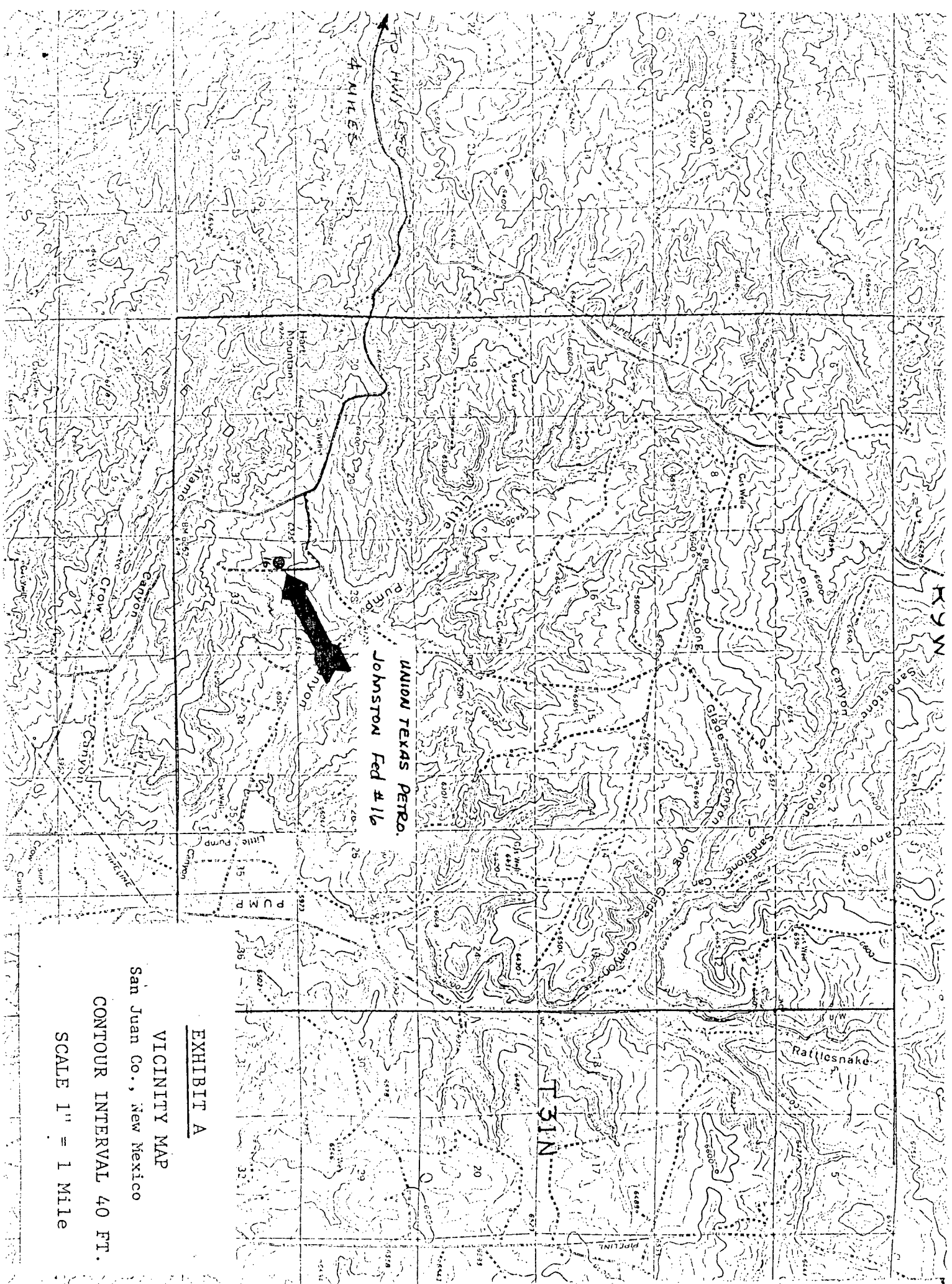
UNION TEXAS PETROLEUM  
JOHNSTON FED # 16



JOHNSTON FEDERAL



UNION TEXAS PETROLEUM A DIVISION OF ALLIED CHEMICAL CORPORATION
WELL LOCATION
Section 33, T-31-N, R-9-W, N.M.P.M. San Juan County, New Mexico Scale: 4" = 1 mile



JOHNSTON Fed #16

EXHIBIT A

VICINITY MAP

San Juan Co., New Mexico

CONTOUR INTERVAL 40 FT.

SCALE 1" = 1 Mile