

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS A WELL LOG ELECTRIC LOGS FILE X WATER SANDS LOCATION INSPECTED SUB REPORT abd

*Application resubmitted 11-10-85*

DATE FILED 7-23-84  
 LAND FEE & PATENTED STATE LEASE NO ML-41289 PUBLIC LEASE NO INDIAN

DRILLING APPROVED 8-9-84 - GAS (Exception Location)

SPUDED IN:  
 COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION  
 GRAVITY API  
 GOR

PRODUCING ZONES  
 TOTAL DEPTH  
 WELL ELEVATION

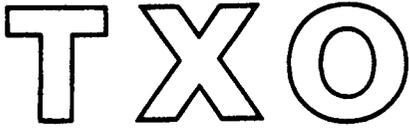
DATE ABANDONED: LA 11-10-85  
 FIELD: WILDCAT 3/86

UNIT:  
 COUNTY: GRAND

WELL NO. COTTONWOOD CANYON STATE #1 API #43-019-31173

LOCATION 2490' FSL FT. FROM (N) (S) LINE. 2082' FWL FT. FROM (E) (W) LINE NESW 1/4 - 1/4 SEC 2

TWP	RGE	SEC.	OPERATOR	TWP	RGE	SEC	OPERATOR
19S	22E	2	TXO PRODUCTION STATE #1				



**TXO PRODUCTION CORP.**

1800 LINCOLN CENTER BUILDING  
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

**RECEIVED**

**JUL 23 1984**

**DIVISION OF OIL  
GAS & MINING**

July 20, 1984

Utah Division of Oil, Gas and Mining  
Department of Natural Resources & Energy  
4241 State Office Building  
Salt Lake City, Utah 84114

Attn: Norm Stout

Re: Cottonwood Canyon State #1  
Section 2-T19S-R22E  
Grand County, Utah

Gentlemen:

Enclosed please find the original and two copies of an Application for Permit to Drill for the above referenced well.

If you have any questions please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Terry L. Blankenship  
Environmental Scientist

TLB/gbp

Enclosures/as stated



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

(Other instructions on reverse side)

11

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  
 TXO Production Corp.

3. Address of Operator  
 1800 Lincoln Center Building, Denver, Colorado 80264

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface  
 2082' FWL, 2490' FSL Section 2-T19S-R22E  
 At proposed prod. zone

5. Lease Designation and Serial No.  
 ML-41289 ✓

6. If Indian, Allottee or Tribe Name  
 - - -

7. Unit Agreement Name  
 - - -

8. Farm or Lease Name  
 Cottonwood Canyon State

9. Well No.  
 #1

10. Field and Pool, or Wildcat  
 ✓ Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area  
 Sec. 2-T19S-R22E

14. Distance in miles and direction from nearest town or post office\*  
 Approximately 16 miles NW of Cisco, Utah

12. County or Parrish 13. State  
 Grand Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 2082'

16. No. of acres in lease 640

17. No. of acres assigned to this well 320

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. - -

19. Proposed depth 5200'

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 5449' GR

22. Approx. date work will start\* September 15, 1984

NB 4 SW 4

MORRISON

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"	36.0#	300'	175 sacks
8 3/4"	7"	20.0#	2000'	150 sacks
6 1/4"	4 1/2"	10.5#	5200'	150 sacks

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JUL 23 1984

DIVISION OF OIL GAS & MINING

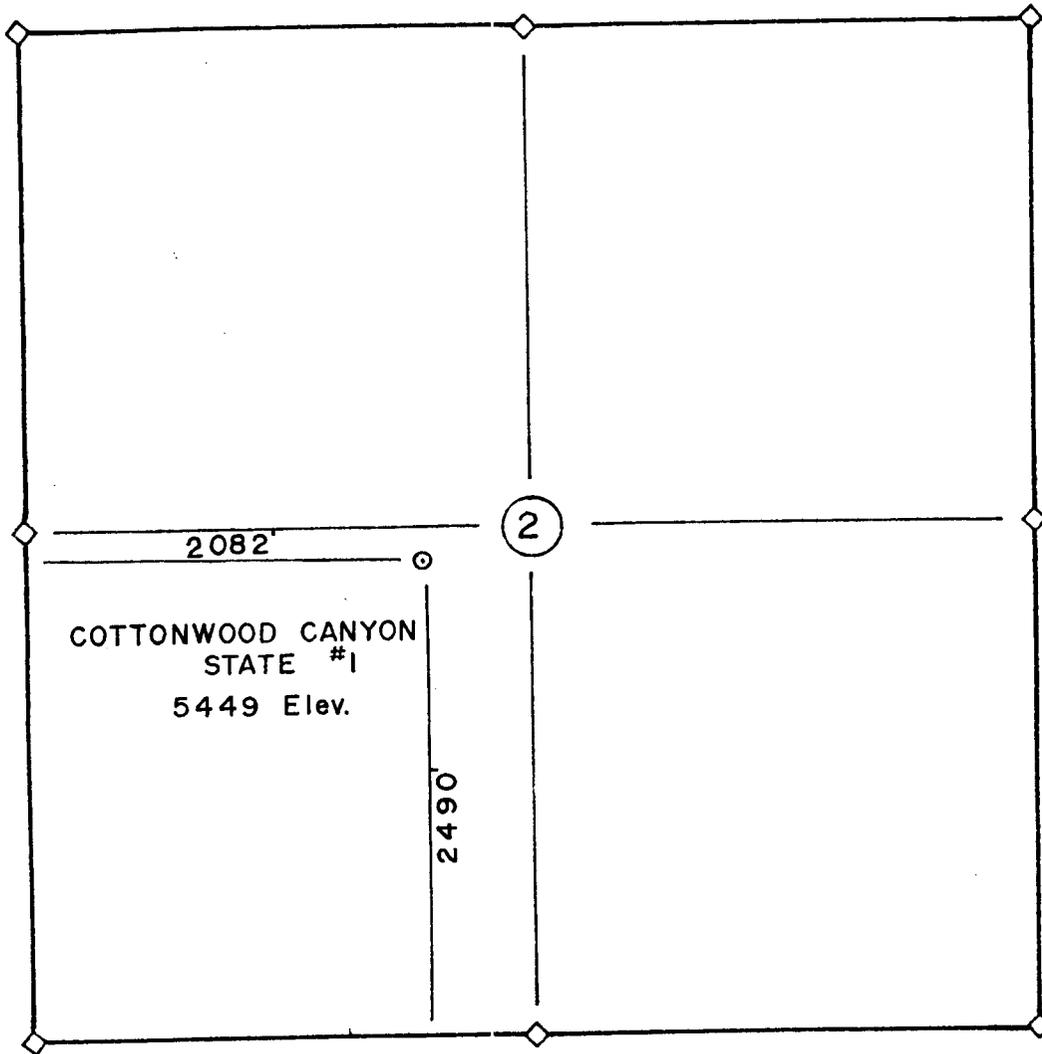
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
 DATE:                       
 BY:                     

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 R. E. Dashner Title Dist. Drlg. & Production Mgr. Date July 20, 1984  
R. E. Dashner  
 (This space for Federal or State office use)

Permit No. .... Approval Date .....

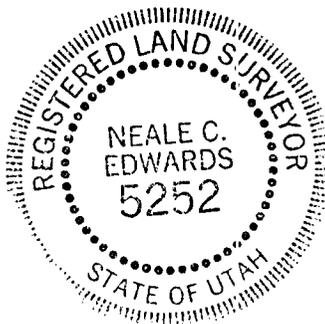
Approved by ..... Title ..... Date .....  
Conditions of approval, if any:



REFERENCE DOCUMENTS

1909 GLO PLAT

FLUME CANYON- UT  
QUADRANGLE, USGS



SURVEYOR'S CERTIFICATE

I, NEALE C. EDWARDS A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

*Neale C. Edwards*

L.S. NO 5252

DATE: 4-26-84

THIS WELL LOCATION PLAT WAS PREPARED FOR TXO PRODUCTION CORP AS REQUESTED BY TERRY BLANKENSHIP

2490' F.S.L. & 2082' F.W.L.

IN THE NE 1/4 SW 1/4, OF SECTION 2, T. 19 S. R. 22 E. OF THE SLB PM,

GRAND COUNTY, UTAH

NCE SURVEYS

364 C.R. 216  
DURANGO, COLO. 81301  
(303) 247-2342



OGC-1a ADDENDUM  
Cottonwood Canyon State #1  
Section 2 -T19S-R22E  
Grand County, Utah

1. SURFACE FORMATION: Mesa Verde

2. ESTIMATED FORMATION TOPS:

Dakota	4395'
Morrison	4600'
Total Depth	5200'

3. ESTIMATED DEPTH AT WHICH OIL, GAS, WATER OR OTHER MINERAL BEARING ZONES ARE EXPECTED TO BE ENCOUNTERED:

Expected Gas Zones:	Dakota	4395'
	Morrison	4600'

Water may be encountered in the Mesa Verde Formation.

4. CASING PROGRAM AS PER FORM OGC-1a.

5. PRESSURE CONTROL EQUIPMENT:

- A. After surface casing is set, a double ram-type blowout preventer with blind rams and pipe rams, with minimum working pressure of 2000 psi (greater than the anticipated bottomhole pressure of 1100 psi), will be installed. See Exhibit 1.
- B. A choke control, fill and kill lines with minimum working pressure of 2000 psi will be installed.
- C. A rotating pack-off head will be installed above the blowout preventer to control flow while drilling with air.
- D. The equipment in A and B will be pressure-tested to 2000 psi before drilling surface pipe cement, and the blowout preventer will be tested for operations daily and during trips.

6. MUD PROGRAM:

0-300'            Air or air mist. If necessary will use spud mud at 8.8-9.2#/gal. vis. 28-32 sec. API.

300'-TD         Air or air mist. If necessary, will use 3% KCI mud at 8.6-8.8 wt., vis. 35-45 sec. API.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be used.
- B. A float valve will be run in the drill string above the bit.
- C. A sub with full opening valve will be kept on the derrick floor to stab into DP when kelly is not in use.

8. CORING, LOGGING, TESTING PROGRAM:

- A. No coring is anticipated.
- B. DISFL-GR from TD to Surface. FDC-SNP-GR-CAL from TD to 2000' uphole. If logged wet: FDC-CNL-GR-CAL from TD to 2000' above TD.
- C. No testing is anticipated.

9. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H<sub>2</sub>S are expected.
- C. While drilling with gas or air, return fluids will be directed through the blow line to the reserve pit. All open fires or ignition sources will be prohibited on location while gas or air drilling. A pilot flame will be maintained at the end of the blow line (located 125' from the wellhead) to insure burning of return gases that are combustible.

10. ANTICIPATED STARTING DATES:

Start location construction	September 15, 1984
Spud date	October 1, 1984
Complete drilling	October 15, 1984
Completed, ready for pipeline	November 1, 1984

11. Productive zones will be perforated, tested and treated as necessary. Gas will be flared during testing. Produced water will be contained in the unlined drilling reserve pit. The extent of treatment of a zone (acidizing and/or fracing) can only be determined after the zone has been tested. A completion program will be furnished after drilling and logging.

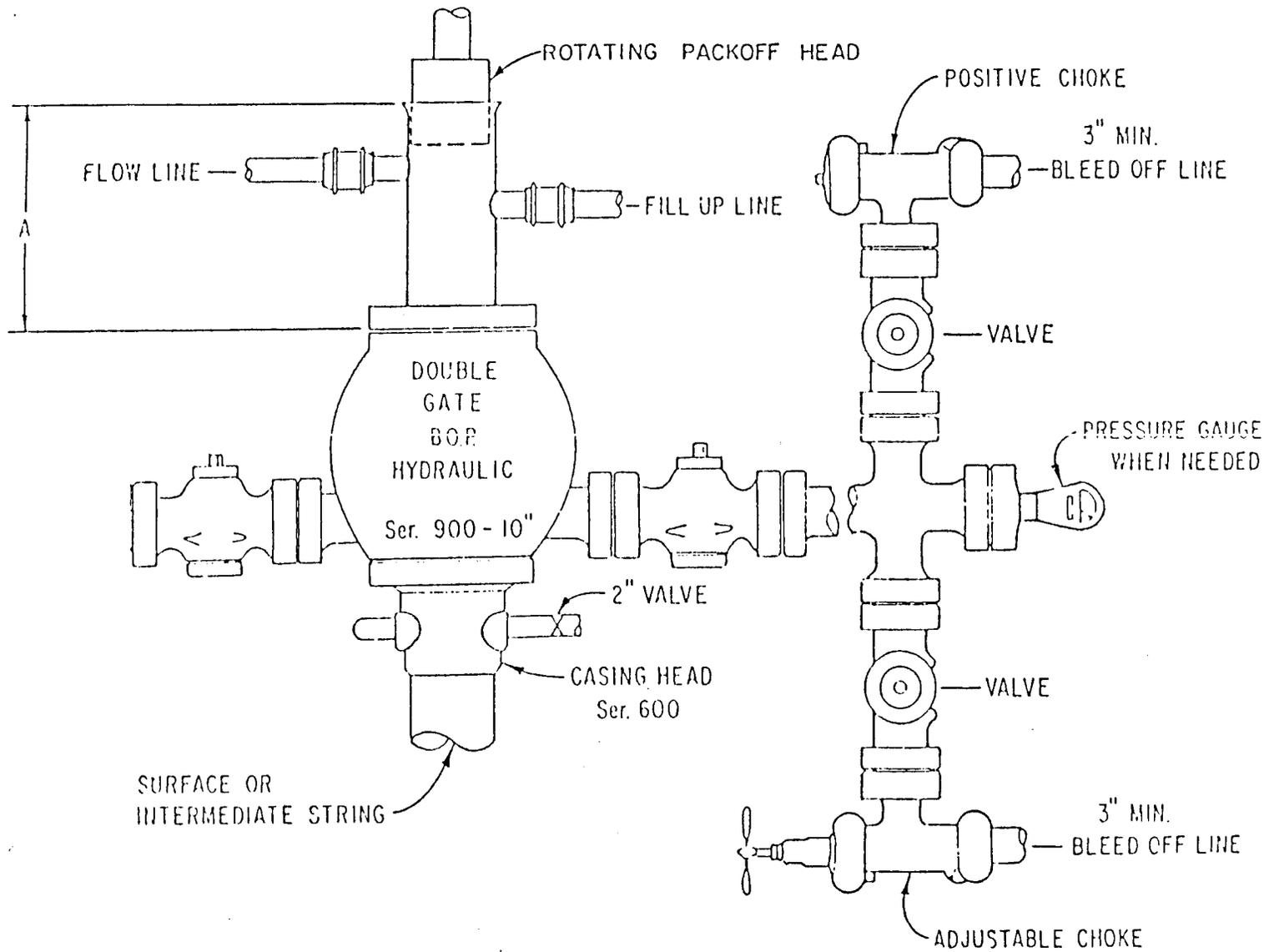


EXHIBIT I  
 BLOWOUT PREVENTER DIAGRAM

OPERATOR TXO Production Corp DATE 8/7/84

WELL NAME Cottonwood Canyon State #1

SEC NESW 2 T 19S R 22E COUNTY Grand

43-019-3113  
API NUMBER

State  
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

PROCESSING COMMENTS:

No other wells within 4960'

Need water permit

Exception location requested

D.O. from Ken Jones to TXO.

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT  c-3-a \_\_\_\_\_ CAUSE NO. & DATE

c-3-b  c-3-c

SPECIAL LANGUAGE:

1- water

2- D.O. from Ken Jones to TXO

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER \_\_\_\_\_

UNIT \_\_\_\_\_

c-3-b

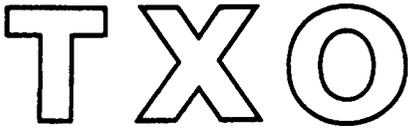
c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.



**TXO PRODUCTION CORP.**

1800 LINCOLN CENTER BUILDING  
DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

**RECEIVED**

**AUG 8 1984**

**DIVISION OF OIL  
GAS & MINING**

August 6, 1984

Utah Division of Oil, Gas & Mining  
Department of Natural Resources & Energy  
4241 State Office Building  
Salt Lake City, Utah 84114

Attn: Gaylynn Larsen

Re: Cottonwood Canyon State #1  
2490' FSL, 2082' FWL, Sec. 2-T19S-R22E  
Grand County, Utah  
Lease No. ML-41289

Dear Ms. Larsen:

TXO Production Corp. was notified that the staked location of the above referenced well was not in accordance with state spacing regulations. The present location is not 500 feet from the quarter section line. However, ✓ due to the presence of a stream and the flood plain in Cottonwood Canyon the location was staked away from the stream to reduce the potential environmental impacts. Steep ridges in the area also prevent locating the drill site within state spacing regulations.

Enclosed is a map showing the topography and the stream which were considered in the placement of the location. TXO Production Corp. requests an administrative exception for the above referenced well.

If you have any questions please contact me at this office.

Very truly yours,

TXO PRODUCTION CORP.

Terry L. Blankenship  
Environmental Scientist

TLB/gbp

Enclosure/as stated



August 9, 1984

TXO Production Corporation  
1800 Lincoln Center Building  
Denver, Colorado 80264

Gentlemen:

RE: Well No. Cottonwood Canyon State #1 - NESW Sec. 2, T. 19S, R. 22E,  
2490' FSL, 2082' FWL, Grand County, Utah

Approval to drill the above referenced gas well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. Designation of Operation from Vern Jones to TXO Production Corporation. In addition, the following actions are necessary to fully comply with this approval:
  1. Spudding notification to the Division within 24 hours after drilling operations commence.
  2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
  3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 533-5771, (Home) 298-7695 or R. J. Firth, Associate Director, (Home) 571-6068.
  4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-3117<sup>3</sup>/<sub>X</sub>.

Sincerely,

Original Signed by Ronald J. Firth

R. J. Firth  
Associate Director, Oil & Gas

RJF/as  
Enclosures  
cc: State Lands  
Branch of Fluid Minerals



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangertter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 10, 1985

TXO Production Corporation  
1800 Lincoln Center Building  
Denver, Colorado 80264

Gentlemen:

Re: Well No. Cottonwood Canyon State 1 - Sec. 2, T. 19S., R. 22E.,  
Grand County, Utah - API #43-019-31173

Due to excessive time delay in commencing drilling operations approval to drill the subject well is hereby rescinded, effective one calendar month from the date of this notice. If any operations have been performed on this well location it is imperative that you notify this division immediately.

A new "Application for Permit to Drill" must be filed with this office for approval, prior to future drilling of the subject location.

Sincerely,

  
John R. Baza  
Petroleum Engineer

cc: Dianne R. Nielson  
Ronald J. Firth  
File

0170S/83