

TXO

TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING
DENVER, COLORADO 80264
TELEPHONE (303) 861-4246

RECEIVED

OCT 31 1983

DIVISION OF
OIL, GAS & MINING

October 28, 1983

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

Attn: Norm Stout

Re: Cisco Springs Federal #2
Section 23-T20S-R23E
Grand County, Utah

Gentlemen:

Enclosed please find an APD/MSUOP for the referenced well prospect. Because this location (365' FNL, 1000' FWL, Sec. 23) will require an exception to the Spacing Order issued in Cause No. 102-16B, TXO is scheduled to appear before the Board in a hearing November 17, 1983.

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

Very truly yours,

TXO PRODUCTION CORP.

Karen P. Bow

Karen P. Bow
Environmental Scientist

KPB/gm

Enclosure/as stated

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
 TXO Production Corp. Attn: K.P. Bow

3. ADDRESS OF OPERATOR
 1800 Lincoln Center Bldg., Denver, CO 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
 Section 23-T20S-R23E 365' FNL, 1000' FWL
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 6 1/4 miles northeast of Cisco Springs

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 485'
 16. NO. OF ACRES IN LEASE 520

17. NO. OF ACRES ASSIGNED TO THIS WELL 40
 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 832'
 19. PROPOSED DEPTH 2400'

20. ROTARY OR CABLE TOOLS Rotary
 21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4698' GR
 22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	200'	100 sacks
7 7/8"	4 1/2"	10.5#	2400'	150 sacks

5. LEASE DESIGNATION AND SERIAL NO.
 U-44440
 6. IF INDIAN ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Cisco Springs Federal
 9. WELL NO.
 10. FIELD AND POOL, OR WELDCAT
 Cisco Springs
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 23-T20S-R23E
 12. COUNTY OR PARISH
 Grand
 13. STATE
 Utah

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 Ronald E. Dashner TITLE District Drilling Manager DATE October 21, 1983
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY DISTRICT MANAGER TITLE DISTRICT MANAGER 11-16-83
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Company TXO Production Corp. Well No. Sid. 2
Location Sec. 23 T20S, R23E Lease No. U-44440

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a week-end or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact with the District Office is: Lynn Jackson

Office Phone: 801-259-6111 Home Phone: _____

City: Moab State: Utah

Resource Area Manager's Address and contacts are:

Address: Moab

Your contact is: Wayne Svajnska

Office Phone: 801-259-8193 Home Phone: _____

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

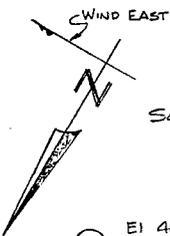
8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - a. Operator name, address and telephone number.
 - b. Well name and number.
 - c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
 - d. Date was placed in a producing status.
 - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e. State or private.
- g. If appropriate, the unit agreement name, number and participating area name.
- h. If appropriate, the communitization agreement number.

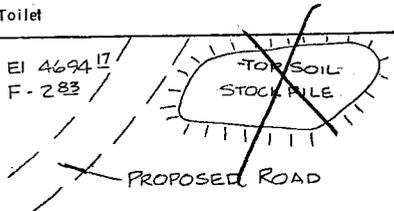
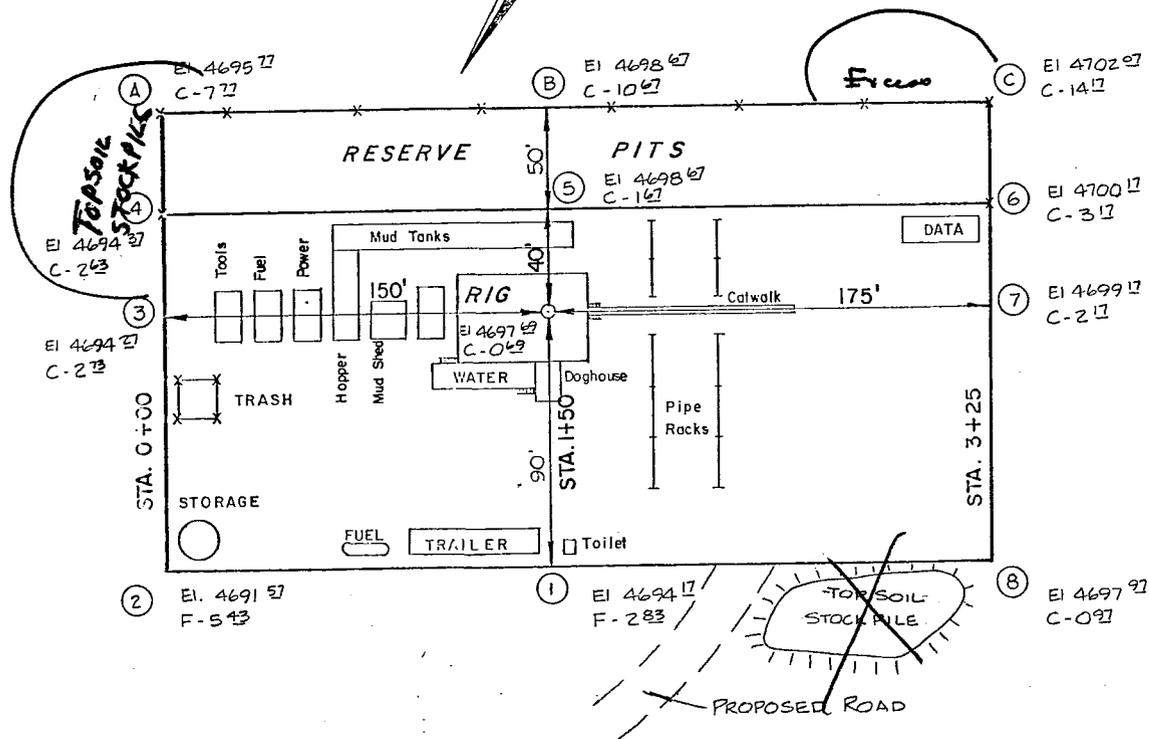
13.

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

TXO PRODUCTION CORP.
CISCO SPRINGS FED. # 2

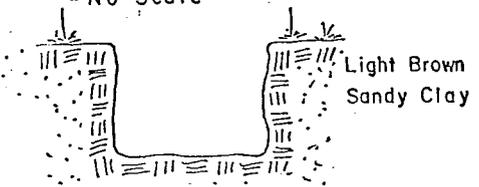


SCALE 1" = 50'



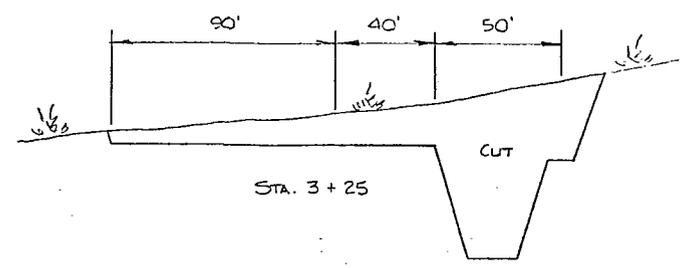
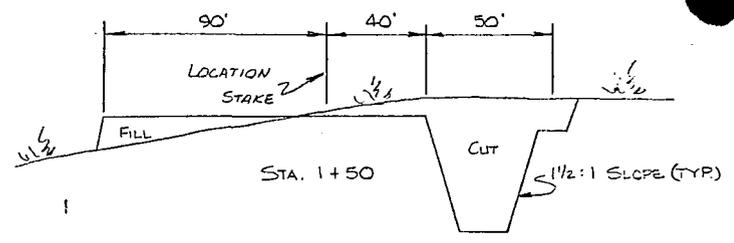
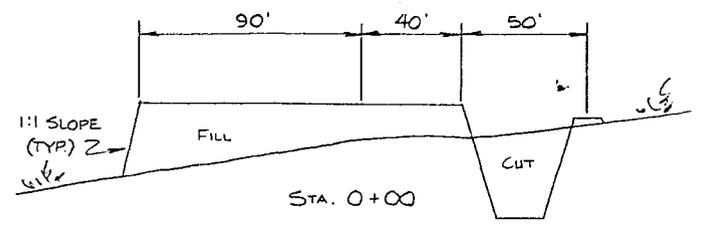
SOILS LITHOLOGY

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1" = 10'

Scales

1" = 50'

APPROXIMATE YARDAGES

Cu. Yds. Cut - 5950
Cu. Yds. Fill - 2024

Exhibit 8
Pad Lay-out
Cut-and-Fill

Supplemental Stipulations

TXO

Well: Cisco Springs Federal #2

Sec. 23, T. 20 S., R. 23 E.

Grand County, Utah

Lease: U-44440

1. The operator or his contractor will contact Wayne Svejnoha at the Grand Resource Area Office in Moab, Utah phone (801) 259-8193 48 hours prior to beginning any work on public land.
2. The dirt contractor will be furnished with an approved copy of the surface use plan including any supplemental stipulations prior to any work.
3. The top 6 inches of soil material will be removed and stockpiled along the east side of the drill pad.
4. Excess material will be stockpiled along the south southwest end of the drill pad. It will serve as a knockdown for the blooie line. This material will be used to fill the reserve pit before respreading the topsoil.
5. Seed will be broadcast during the fall of the year (Oct.-Dec.) with the following seed prescription.

<u>Species</u>		<u>Rate</u> <u>lbs/acre</u>
<u>Grasses</u>		
Oryzopsis hymenoides	Indian ricegrass	1
Hilaria jamesii	Curlygrass	1
<u>Forbs</u>		
Sphaeralcea coccinea	Globemallow	0.5
<u>Browse</u>		
Atriplex nuttallii	Nuttal Saltbush	1
Atriplex confertifolia	Shadscale	<u>1</u>
	Total	4.5

If seed is broadcast, it will be applied at twice the above rate and harrowed into the soil. When broadcast seeding a harrow or some such implement will be dragged over the seeded area to assure seed cover.

6. All above ground facilities including tanks, separator, dehydrator, meter house, pump jack etc. will be painted using the attached suggested colors.

7. Call the Moab District Office (801) 259-6111 24 hours prior to spudding the location.
8. Post temporary well sign at the time of spudding that identifies the operator, well number, lease number, legal description including $\frac{1}{4}$ or footages. If production is established, this temporary well sign will be replaced with a permanent metal sign.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

Recommended
Color

<input checked="" type="checkbox"/>	Sand Beige	(5Y 6/3)
<input checked="" type="checkbox"/>	Desert Brown	(10YR 6/3)
<input type="checkbox"/>	Carlsbad Canyon	(2.5Y 6/2)
<input type="checkbox"/>	Slate Gray	(5Y 6/1)
<input type="checkbox"/>	Sudan Brown	(2.5Y 4/2)
<input type="checkbox"/>	Brush Brown	(10YR 5/3)
<input type="checkbox"/>	Juniper Green	
<input type="checkbox"/>	Shale Green	(5Y 4/2)
<input type="checkbox"/>	Yuma Green	(5Y 3/1)
<input type="checkbox"/>	Largo Red	(2.5Y 5/6)
<input type="checkbox"/>		

These colors were selected by the Rocky Mtn. Five State Interagency Oil and Gas committee) to be used as standard environmental colors. The states involved with this committee are Colorado, Montana, New Mexico, Utah and Wyoming.

The paint names referred to above are manufactured by Kansas Paint and Color Company, Wichita, Kansas. Numbers in parenthesis () refer to Munsell Soil Color Charts. Since manufacturer's names vary for paint colors any paint with an equal Munsell color notation can be substituted.

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
- (3) All disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

9-331 C ADDENDUM
Cisco Springs Federal #2
Section 23-T20S-R23E
Grand County, Utah

1. SURFACE FORMATION: Mancos Shale

2. ESTIMATED FORMATION TOPS:

Dakota Silt	1498'
First Dakota Sand	1598'
Morrison	1820'
Total Depth	2400'

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

Expected Oil Zone:	First Dakota Sand	1598'
	First Morrison Sand	1870'-2400'

Expected Water Zones: Water can be expected in any sand zones from 1500' to T.D.

4. CASING PROGRAM AS PER FORM 9-331 C.

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 1000 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'-200' Air or air mist. If necessary, use spud mud at 8.8- 9.2#/gal., vis. 35-45 sec. API.

200'-TD Air or air mist. If necessary, will use 3% KCI mud at 8.6- 8.8#/gal., vis. 28-32 sec. API.

7. AUXILIARY EQUIPMENT:

- A. A kelly cock will be kept in the string at all times.
- 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. Logging program will consist of the following: DIL-GR from TD to surface pipe, FDC-SNP-GR-CAL from TD to 2000' above TD. If logged wet: FDC-CNL-GR-CAL from TD to 2000' above TD, DISFL-GR from TD to surface pipe.
- C. No DST's are planned.

9. ABNORMAL CONDITIONS:

- A. No abnormal pressures or temperatures are expected.
- B. No hazardous gases such as H₂S 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	November 18, 1983
Spud date	November 22, 1983
Complete drilling	November 26, 1983
Completed, ready for production	December 4, 1983

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, if required.

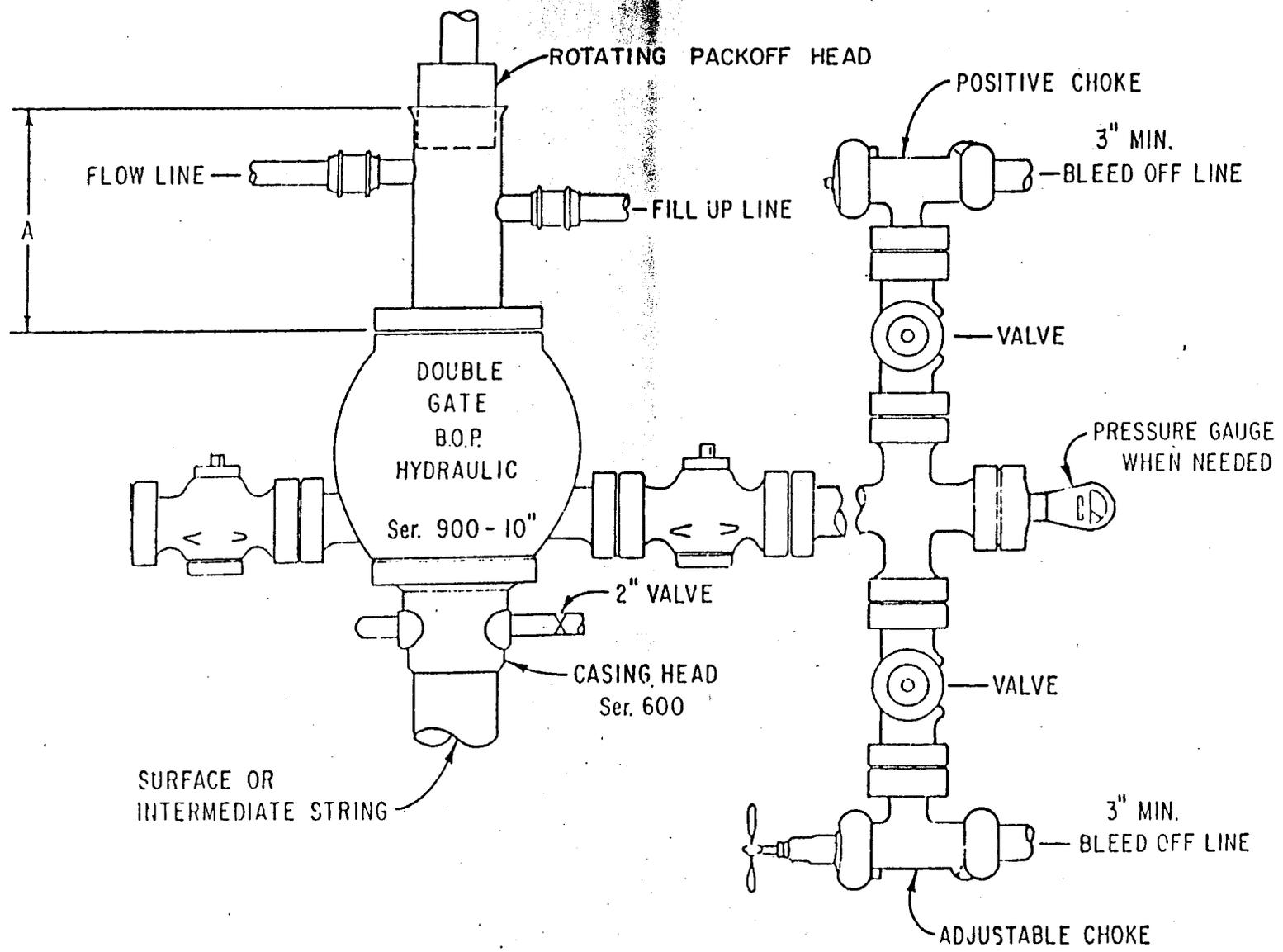


EXHIBIT I
 BLOWOUT PREVENTER DIAGRAM

TXO PRODUCTION CORP.
MULTIPOINT SURFACE USE AND OPERATIONS PLAN

DATE: October 20, 1983

WELL NAME: Cisco Springs Federal #2

LOCATION: 365' FNL, 1000' FWL, Section 23-T20S-R23E, Grand County, Utah.

LEASE NO.: U-44440

1. EXISTING ROADS

- A. Proposed well site as staked. Refer to Exhibit 2. The well has been staked 365' FNL and 1000' FWL in Section 23-T20S-R23E.
- B. Route and distance from nearest town or locatable reference point to where proposed access route leaves main road: From the east Cisco Exit on I-70 about 45 miles west of Grand Junction, take the dirt road to the left and travel west-northwest for 4.2 miles. Turn left, drive south for 0.6 mile. Take the left fork, drive 0.1 mile to the access road on the right.
- C. Access route to location color coded in red and labeled. Refer to Exhibit 3.
- D. For development well, all existing roads within one mile color coded in yellow. Refer to Exhibit 4.
- E. Plans for improvement and maintenance of existing roads: The existing roads need no improvement; however, they will be maintained as necessary to allow passage of rig and well servicing vehicles. During very dry periods the roads may be misted with water to control dust.

2. PLANNED ACCESS ROAD

Show all necessary roads to be constructed or reconstructed: An access road, approximately 700 feet long, will be constructed in a southerly direction. The road will cross relatively level ground and a drainage will be crossed at the entrance to the pad. A low water crossing will be constructed. The road will be constructed as a Class III road, crowned and ditched, with an 18 foot wide running surface. The road grade will be less than 5%. TXO holds a federal road right-of-way (No. U-52439) for all affected off-lease, non-county roads. See Exhibit 5.

3. LOCATION OF EXISTING WELLS

Exhibit 6 is a one-mile radius locating and identifying the following:

- A. Water Wells-None
- B. Abandoned Wells- Provo 1 Barnes, Sec. 14-20S-23E
Pease 8 C. Springs-Fed, Sec. 14-20S-23E

- Ambra 6 Ambra-IF, Sec. 23-20S-23E
- Pease 16 C. Springs-Fed., Sec. 14-20S-23E
- Provo 1 Gov't., Sec. 14-20S-23E
- Tres Oil 1 Fed., Sec. 15-20S-23E
- Delhi-Taylor 2 Cullen-Gov't, Sec. 15-20S-23E
- Pease 15 C. Spgs-Fed., Sec. 23-20S-23E
- Ambra 7 Ambra, Sec. 23-20S-23E
- Ambra 5 Ambra-IF, Sec. 23-20S-23E
- Inland 1 Fed., Sec. 22-20S-23E
- Ambra 2 TXO-Mesa, Sec. 23-20S-23E
- C. Temporarily Abandoned Wells-None
- D. Disposal Wells-None
- E. Drilling Wells-Ambra 2 TXO, Sec. 14-20S-23E
- F. Producing Wells - Pease 9 C. Springs-Fed., Sec. 14-20S-23E
 - Br'wlc 1 Brown Drt., Sec. 14-20S-23E
 - Brwlc 2 Brown Drt., Sec. 14-20S-23E
 - Pease 4 C. Springs-Fed., Sec. 14-20S-23E
 - Ambra 4 TXO, Sec. 15-20S-23E
 - Pease 12 C. Springs-Fed. Sec. 14-20S-23E
 - Ambra 1 TXO-Mesa, Sec. 23-20S-23E
 - Ambra TXO 23-1, Sec. 23-20S-23E
 - Inland 1 Fed., Sec. 23-20S-23E
 - Petrovest 1 Crest-Fed., Sec. 13-20S-23E
 - Jacobs 1 Jacobs, Sec. 13-20S-23E
 - Ambra 3 Ambra-IF, Sec. 23-20S-23E
 - Ambra 8 Ambra-IF, Sec. 23-20S-23E
- G. Shut-in Wells - TXO 1 C. Springs "B", Sec. 15-20S-23E
- H. Injection Wells-None
- I. Monitoring or Observation Wells for Other Reasons-None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. Exhibit 6 is a one-mile radius locating the following existing facilities owned by the lessee/operator:
 - 1. Tank Batteries-TXO 1 Cisco Springs "B", Sec. 15-20S-23E
 - 2. Production Facilities-TXO 1 Cisco Springs "B" , Sec. 15-20S-23E
 - 3. Oil Gathering Lines-None
 - 4. Gas Gathering Lines-None
 - 5. Injection Lines-None
 - 6. Disposal Lines-None
- B. If new facilities are contemplated, in the event of production show:
 - 1. Proposed facilities and attendant lines in relation to the well pad. Refer to Exhibit 7.
 - 2. Dimensions of facilities: Refer to Exhibit 7.
 - 3. The production facilities will include a produced water pit, a pumping unit, a heater-treater and two 400 bbl. storage tanks. The pit will be located in cut, will contain all water production and be built in accordance with NTL-2B specifications. All connection work will be done by an oil field service company using standard oil field materials.

4. Protective devices and measures to protect livestock and wildlife: The water production pits will be fenced with woven wire to protect livestock and wildlife.
 - C. All plans for surface restoration are outlined under Item 10 of this plan.
5. LOCATION AND TYPE OF WATER SUPPLY
 - A. Location and type of water supply: Water will be obtained from the Colorado River in Section 15-T21S-R24E, Grand County, Utah. TXO Production Corp. has a surface water appropriation permit, #58600 from the Utah State Engineer.
 - B. Method of transporting water: The water will be hauled in trucks by a certified water hauler along the route shown in green on Exhibit 3.
 - C. If water well is to be drilled, so state: No water well is contemplated.
6. SOURCES OF CONSTRUCTION MATERIALS
 - A. Show information either on map or by written description: It is anticipated that cuts on location will furnish sufficient quantities of materials to construct a level location. Topsoil will be stockpiled off the northwest corner of the pad for later use during rehabilitation on the disturbed areas.
 - B. Identify if from Federal or Indian Land: The affected land is Federal and under the management of the Bureau of Land Management.
 - C. Describe where materials such as sand, gravel, stone and soil material are to be obtained and used: Material other than that supplied by cuts on location should not be required to construct the pad and road. Approximately 5950 cubic yards of material will be derived from cuts on location and approximately 2024 cubic yards of fill are needed. Refer to Exhibit 7.
 - D. Show any needed access roads crossing Federal or Indian Lands: The proposed new access road will cross BLM administered land in Sections 14 and 23-T20S-R23E. Refer to Exhibit 5.
7. METHODS OF HANDLING WASTE DISPOSAL
 - A. Cuttings will be contained and disposed of in the reserve pit.
 - B. Drilling fluids will be contained and disposed of in the reserve pit. While drilling with air or gas, a dust arresting system will be installed on the blow line.
 - C. Produced fracturing fluids will be directed to the reserve pit for evaporation.

- D. Sewage: A portable chemical toilet will be on location during operations.
- E. Garbage and other trash will be placed in a trash bin and removed to a sanitary landfill upon completion.
- F. Protective Devices: The reserve pit will be fenced on three sides prior to drilling, and on the fourth side before the rig moves off location.
- G. Statement regarding proper cleanup when rig moves out: When the rig moves out, all trash and refuse will be removed from the location and hauled to a sanitary landfill. All pits will be filled after drying and the area restored as under Item 10 of this plan.

8. ANCILLARY FACILITIES

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods: None planned.

9. WELL SITE LAYOUT ATTACHMENT AND PROPOSED RIG LAYOUT

- A. Cross section of drill pad with cuts and fills: Refer to Exhibit 8.
- B. Location of mud tank, reserve pit, trash bin, pipe racks and other facilities: Refer to Exhibit 8.
- C. Rig orientation, parking area: Refer to Exhibit 8.
- D. Statement regarding pit lining: Reserve pit will be unlined. However, if the sub-surface structure is too porous or is highly fractured, a 2 to 4 inch layer of bentonite will be used as a lining for the pit.

10. PLANS FOR RESTORATION OF SURFACE

- A. Backfilling, levelling, contouring, and waste disposal: Upon completion of the well, the site will be cleared of all debris and the mouse and rat holes will be filled. The reserve pit will be allowed to dry and then will be backfilled. Disturbed areas of the pad not needed for production facilities will be graded to an appearance consistent with the natural contours. These areas will then be covered with topsoil, disked and reseeded with a seed mixture recommended by the BLM. If the well is not commercially productive, the entire pad will be reclaimed as described above.

In the event the well is not commercially productive, that portion of the access road requested by the BLM to be rehabilitated will be covered with topsoil, disked and reseeded with a BLM-recommended seed mixture. Shrubby plants removed during road construction will be scattered randomly along the road to provide a natural appearance, control erosion and enhance seed germination.

- B. Prior to rig release, pits will be fenced and so maintained until cleanup can be properly done.
- C. If any oil is in the pit, it will be removed or overhead flagging will be installed.

- D. Timetable for commencement and completion of rehabilitation operations: Rehabilitation will commence when drilling operations are completed, approximately December 4, 1983 and will be completed within approximately one year.

11. OTHER INFORMATION

General description of:

- A. Topography, soil characteristics, geologic features, flora, fauna: The well site is located on relatively level terrain. Soil in the area is fine textured, and ground cover is about 15-20 percent. Plant species in the area include saltbush, rabbitbrush, Indian rice grass, cheat grass, needle grass and various forbs such as milk vetch and globemallow. Fauna in the area include various birds and small mammals. No endangered species are known to occur in the area.
- B. Other surface-use activities and surface ownership of all involved lands: The primary use of the land is oil and gas production. Sheep ranching is seasonal in the area.
- C. Proximity of water, occupied dwellings, archeological, historical or cultural sites: There are no live streams in the immediate area. About 1000 feet to the east of the location is Danish Wash, an intermittent stream. There are no occupied dwellings in the area. A block archeological clearance has previously been done for the area.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVES

Include the name, address and phone number of the lessee's or operator's field representative who is responsible for assuring compliance with the approved surface use and operations plan.

R.E. Dashner
District Drilling Manager
TXO Production Corp.
1800 Lincoln Center Building
1660 Lincoln Street
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 690-5658 - Residence

Comments regarding the content of this plan or arrangements for an on-site inspection should be directed to:

K. P. Bow
Environmental Scientist
TXO Production Corp.
1800 Lincoln Center Building
1660 Lincoln Street
Denver, Colorado 80264
(303) 861-4246 - Business
(303) 477-2072 - Residence

13. CERTIFICATES

The following statement is to be included in the plan and must be signed by the lessee's or operator's field representative who is identified in Item No. 12 of the plan.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access roads; that I am familiar with the conditions which presently exist; and 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 TXO Production Corp. and its contractors, subcontractors in conformity with this plan and the terms and conditions under which it is approved.

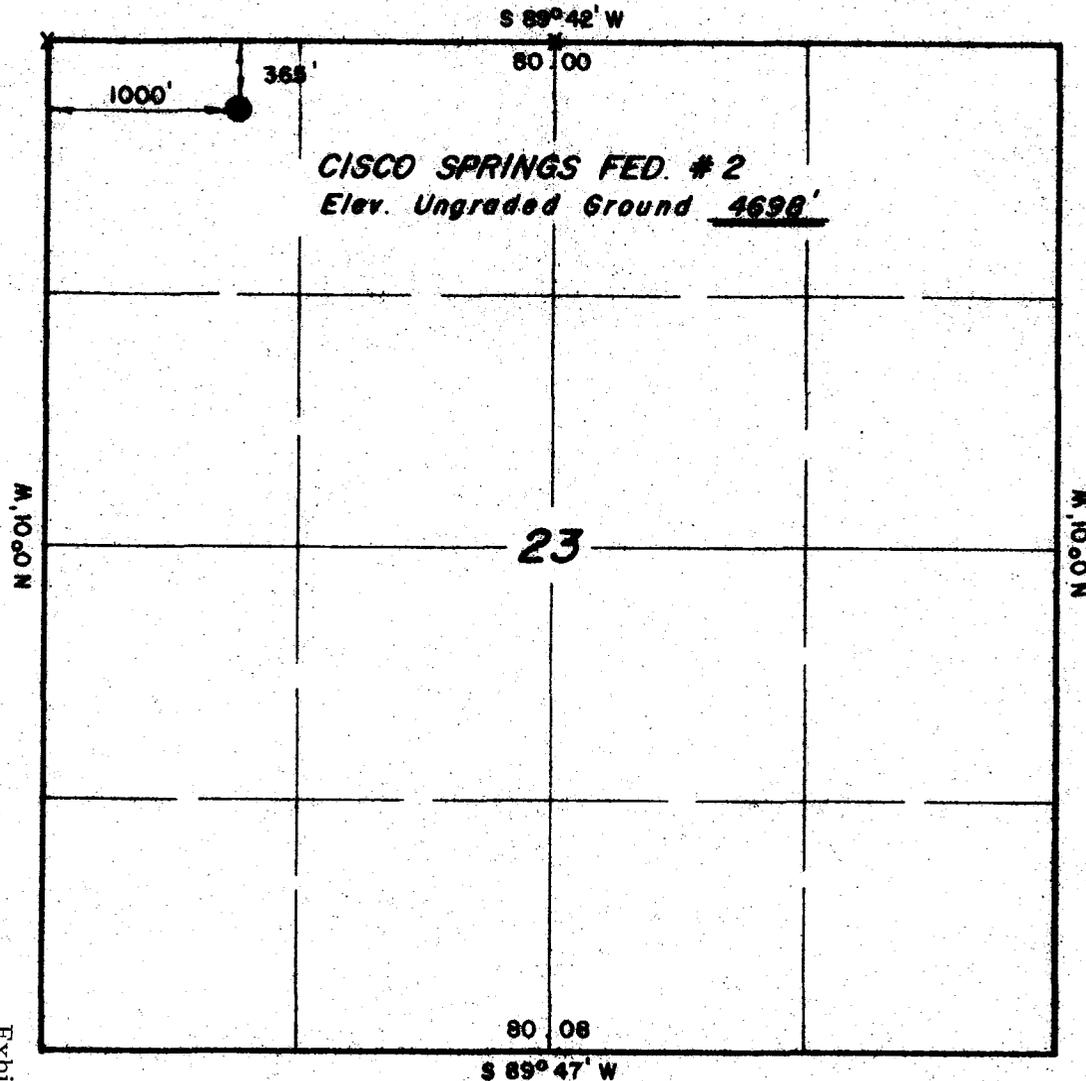
DATE: October 21, 1983

R.E. Dashner
R.E. Dashner
District Drilling Manager

T 20 S, R 23 E, S.L.B.&M.

PROJECT
TXO PRODUCTION CORP.

Well location, CISCO SPRINGS
FED. # 2, located as shown in the
NW 1/4 NW 1/4 Section 23, T 20 S,
R 23 E, S.L.B.&M. Grand County,
Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

Richard J. ...

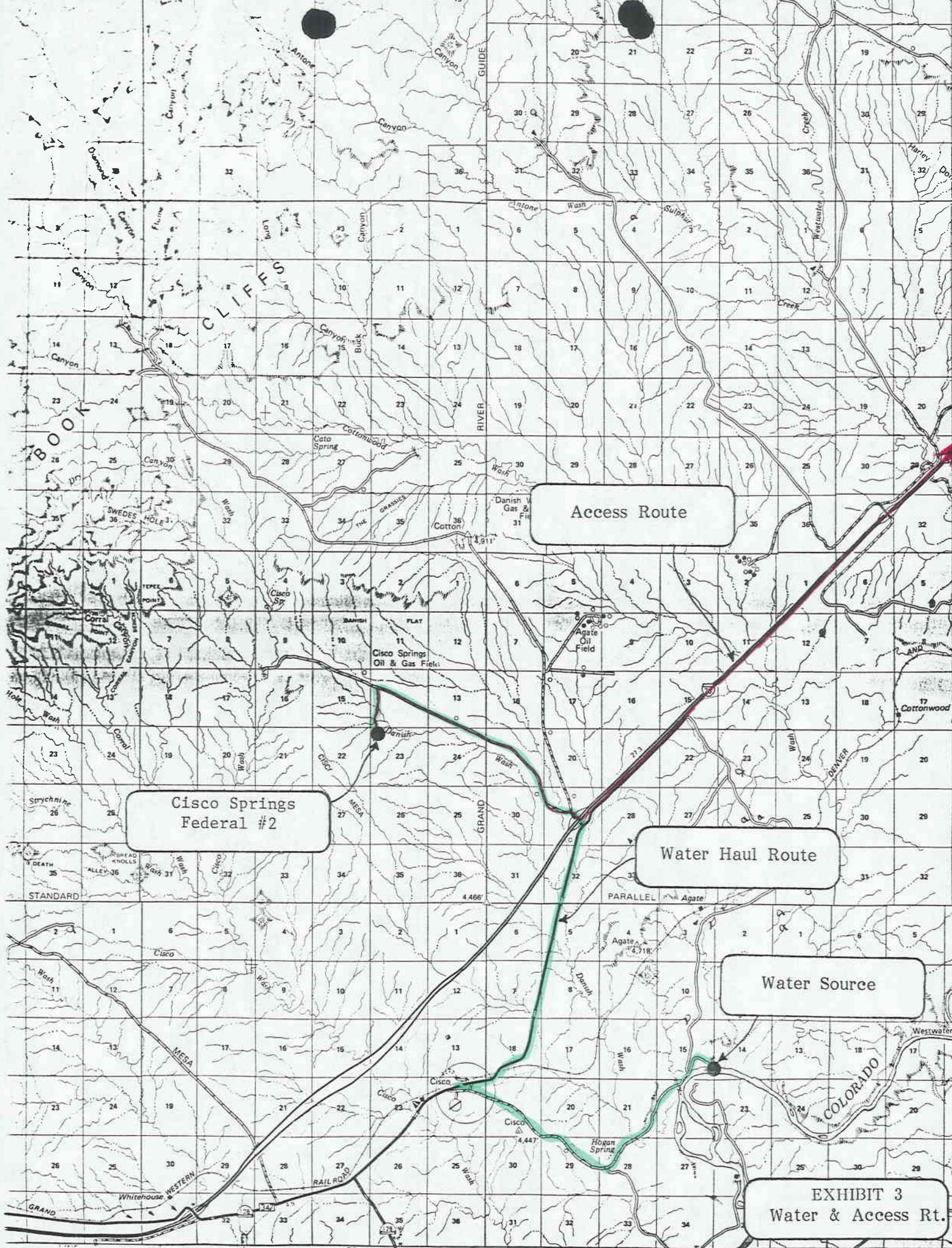
REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 65 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10 / 17 / 83
PARTY L.D.T. D.K. BFW	REFERENCES GLO Plat
WEATHER Fair	FILE TXO

X = Section Corners Located

Exhibit 2
Survey Plat



Access Route

Cisco Springs
Federal #2

Water Haul Route

Water Source

EXHIBIT 3
Water & Access Rt.

R23E

Gas Well

DANISH

CISCO SPRINGS

GAS AND OIL FIELD

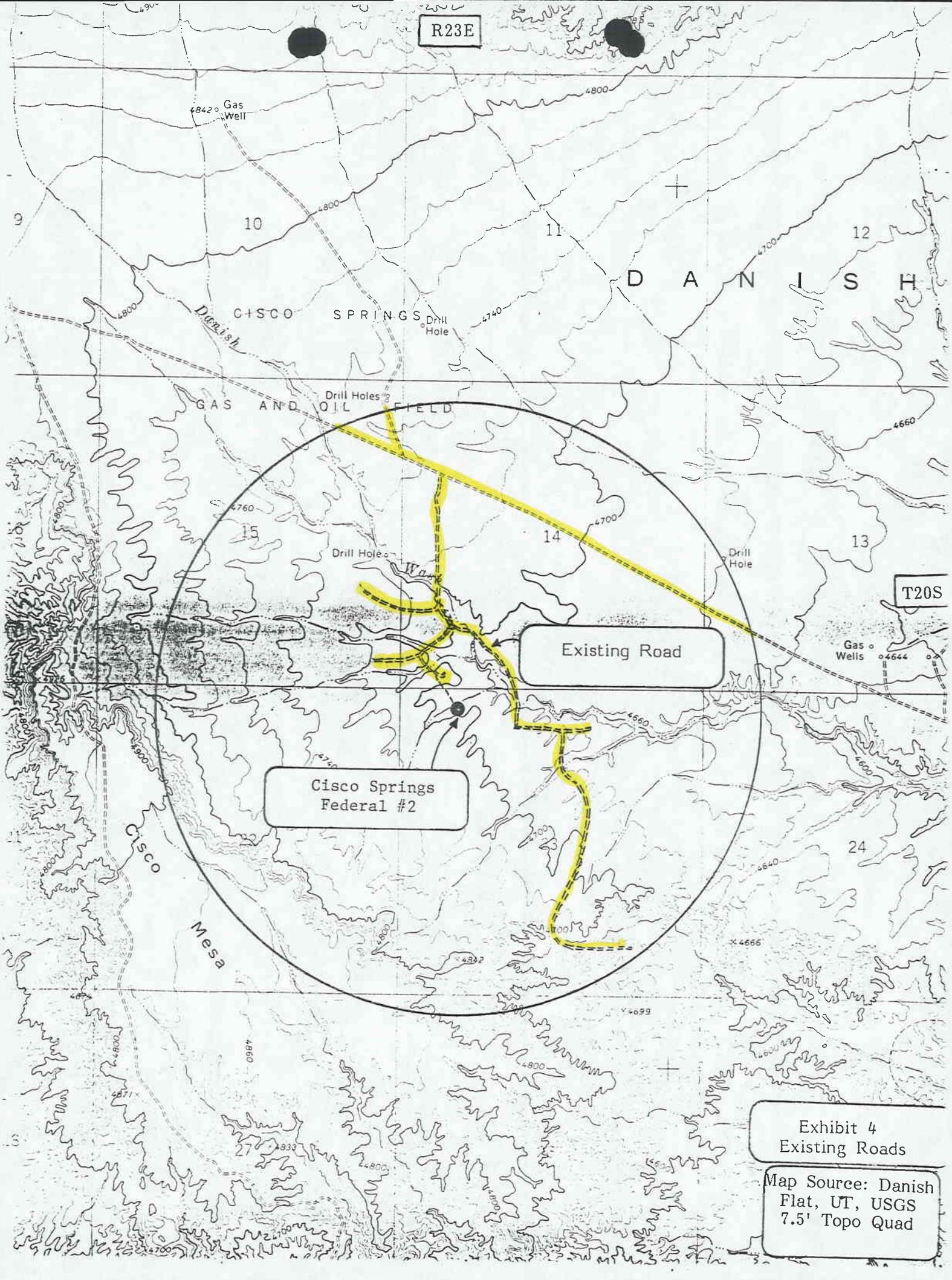
T20S

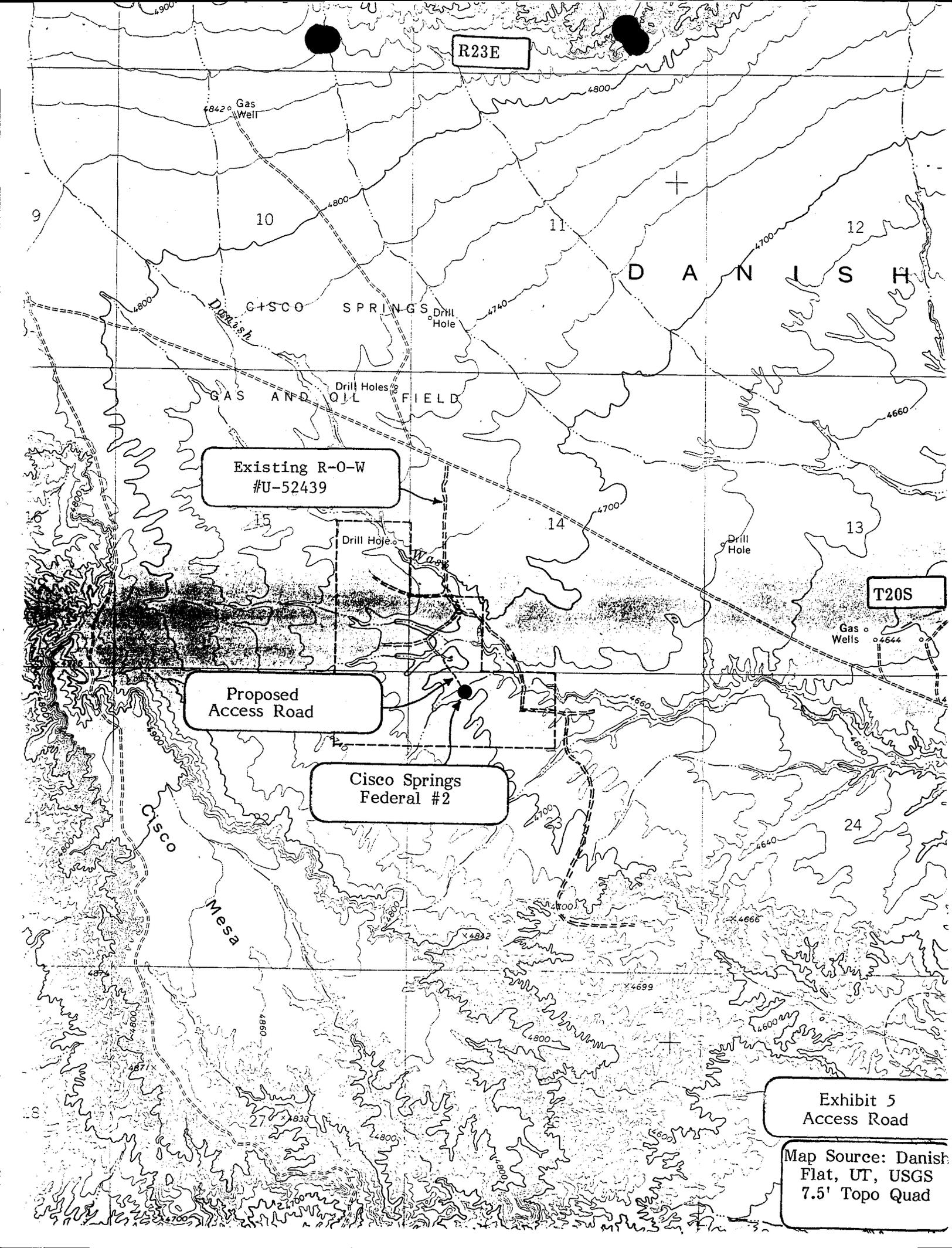
Existing Road

Cisco Springs Federal #2

Exhibit 4
Existing Roads

Map Source: Danish
Flat, UT, USGS
7.5' Topo Quad





R23E

Gas Well 4842

4800

4800

11

12

DANISH

CISCO SPRINGS

Drill Hole

4700

Danish

GAS AND OIL FIELD

4740

4660

Existing R-O-W #U-52439

15

14

13

Drill Hole

Drill Hole

T20S

Gas Wells 4644

Proposed Access Road

Cisco Springs Federal #2

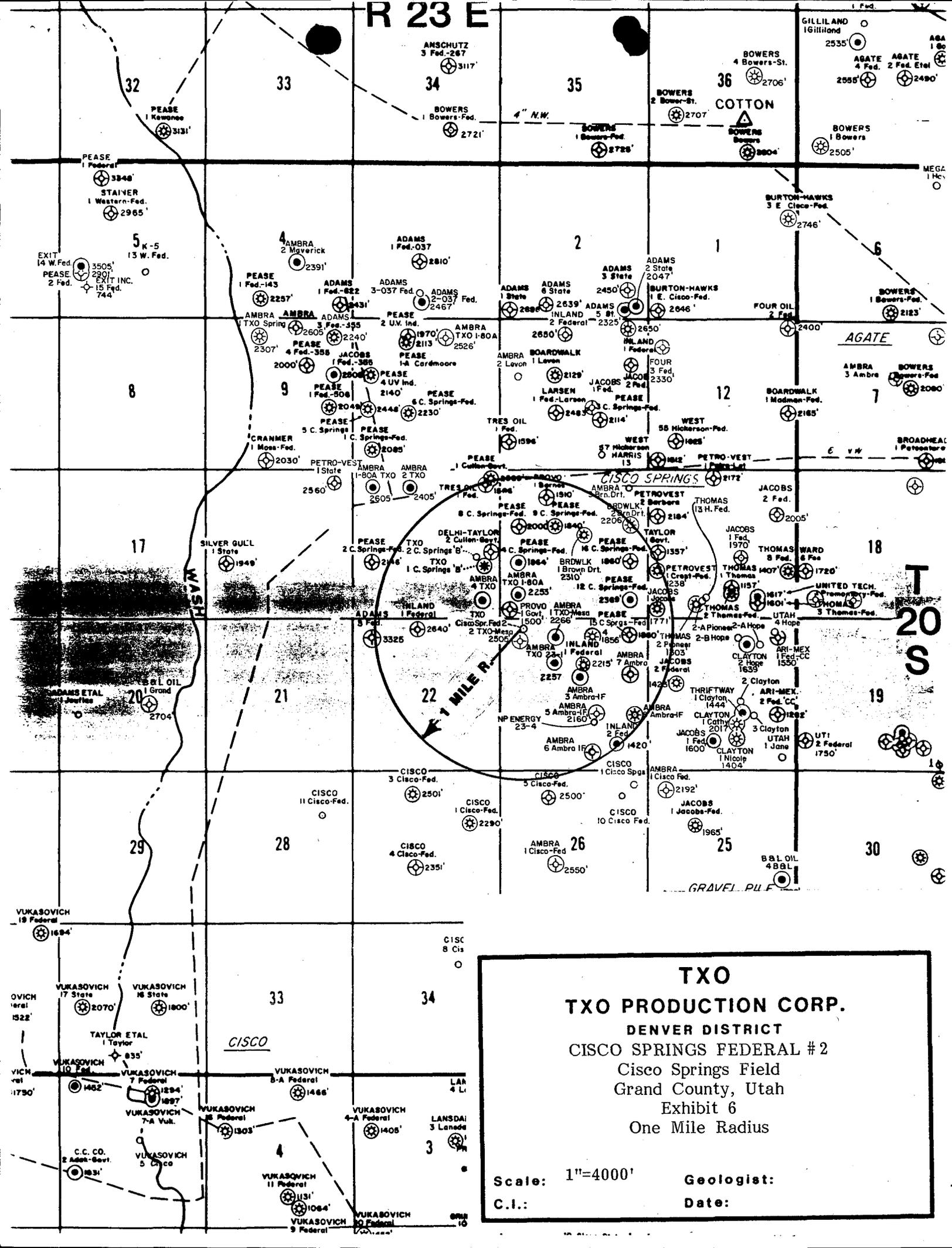
24

Cisco Mesa

Exhibit 5 Access Road

Map Source: Danish Flat, UT, USGS 7.5' Topo Quad

R 23 E



TXO
TXO PRODUCTION CORP.
 DENVER DISTRICT
 CISCO SPRINGS FEDERAL #2
 Cisco Springs Field
 Grand County, Utah
 Exhibit 6
 One Mile Radius

Scale: 1"=4000'
 Geologist:
 C.I.:
 Date:

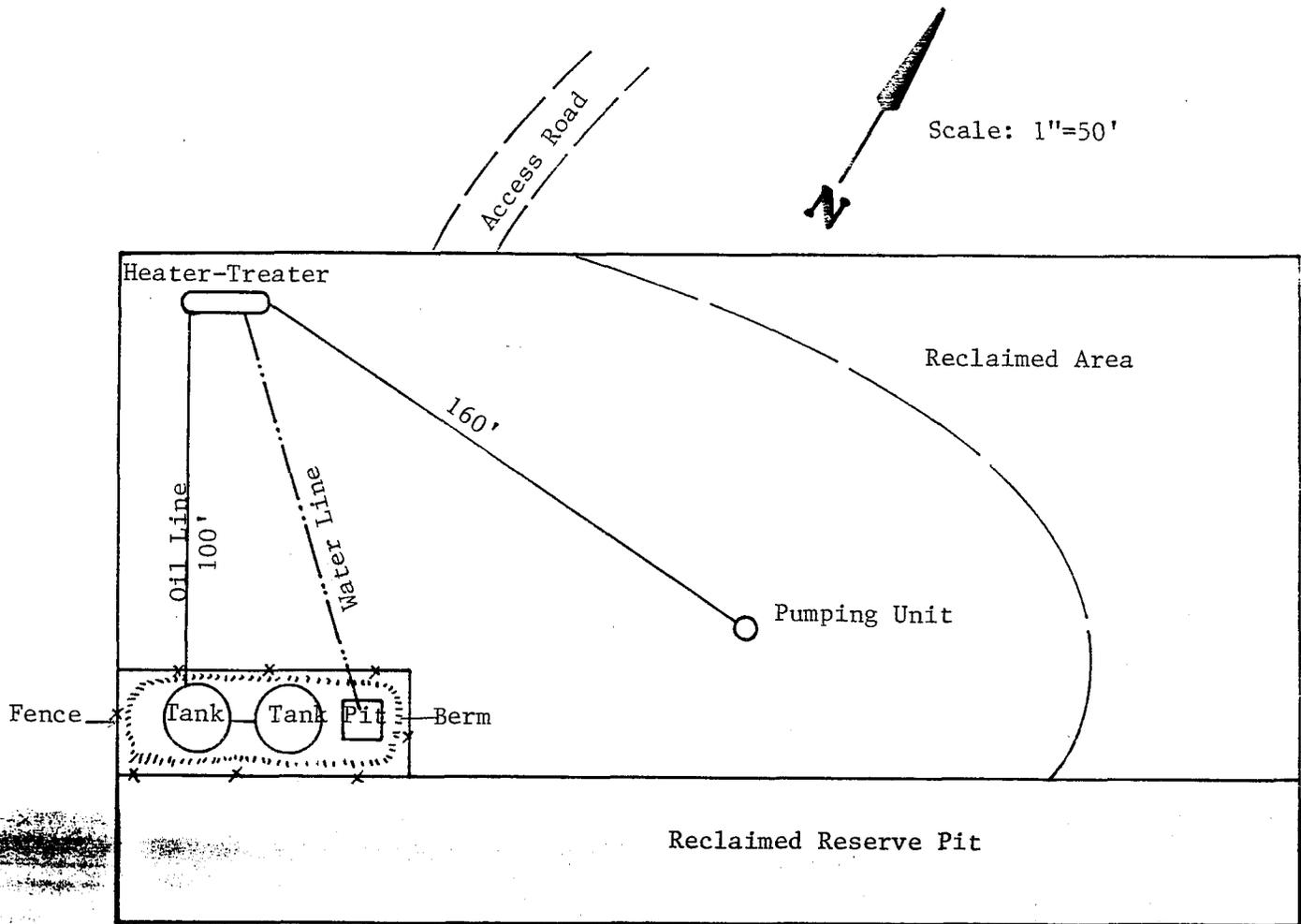
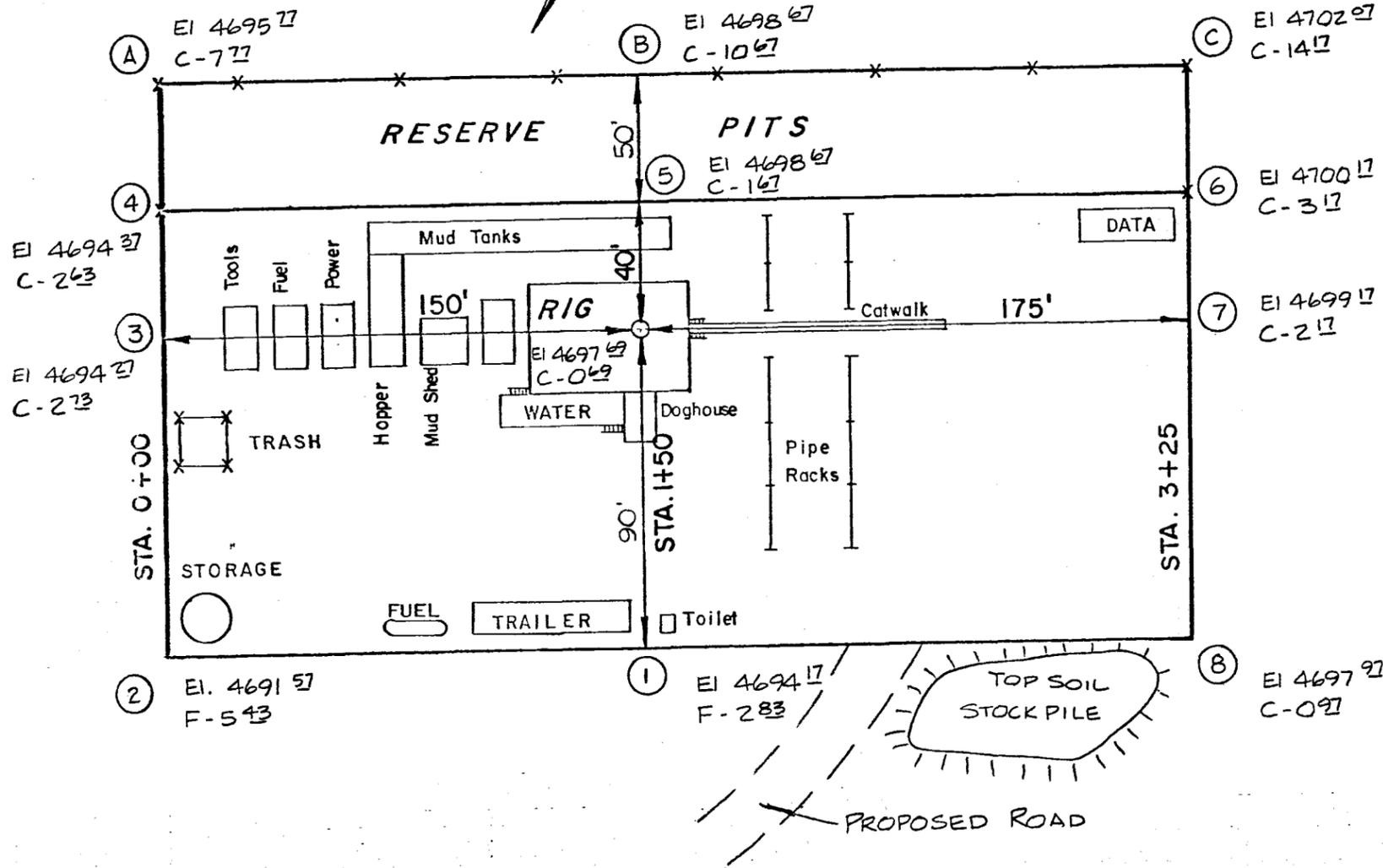
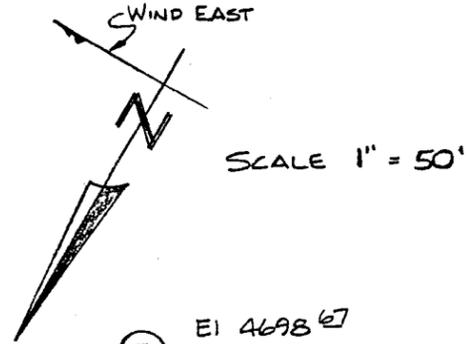


EXHIBIT 7
 PRODUCTION FACILITIES
 CISCO SPRINGS FEDERAL #2

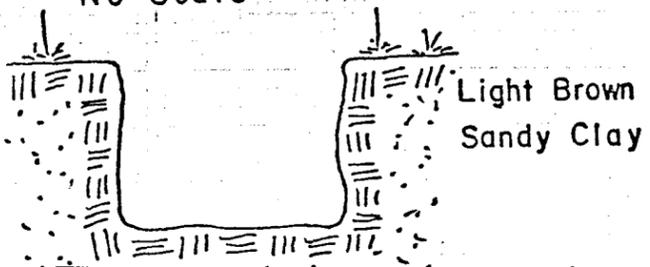
- 1) Tanks will be 12' in diameter and 20' high, will hold 400 bbls, and will be surrounded by a berm and fence.
- 2) If well produces water in quantities greater than 5 bbls per day, a lined pit or tank will be used for storage. If the quantity is less than 5 bbls per day, an unlined pit will be used. Water storage will be surrounded by a fence.
- 3) All pipelines will be coated, wrapped, and then buried.
- 4) The heater-treater will be ASME coded.

TXO PRODUCTION CORP.
CISCO SPRINGS FED. # 2

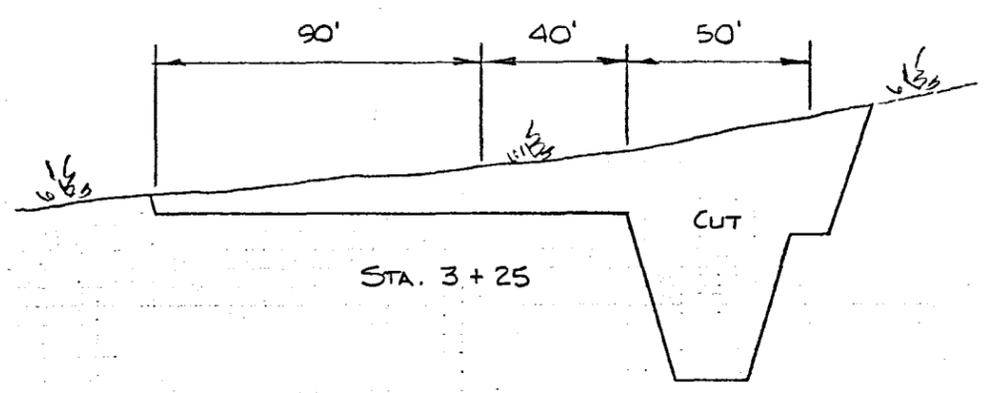
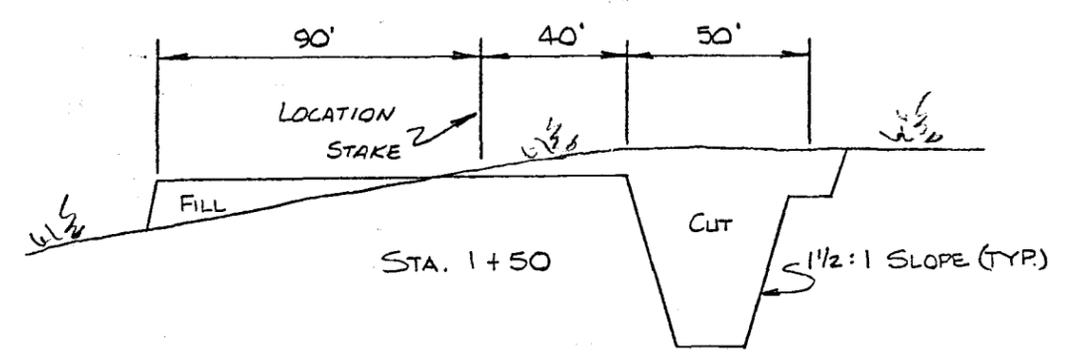
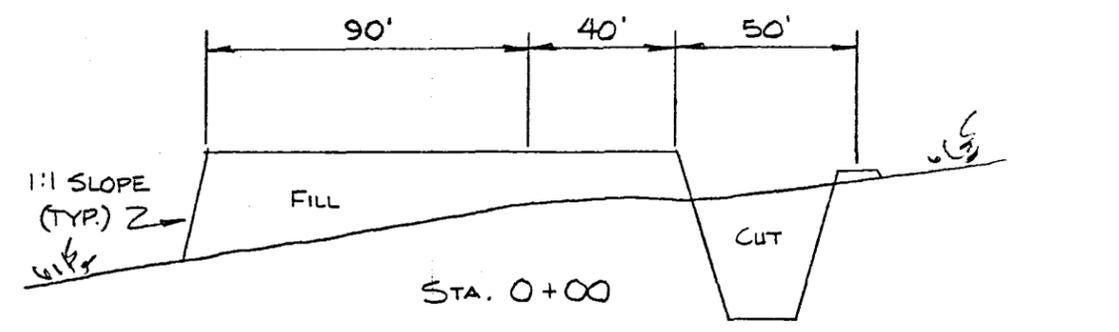


SOILS LITHOLOGY

- No Scale -



C
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N
S



1" = 10'

Scales

1" = 50'

APPROXIMATE YARDAGES

Cu. Yds. Cut - 5950
Cu. Yds. Fill - 2024

Exhibit 8
Pad Lay-out
Cut-and-Fill

OPERATOR TXO PRODUCTION CORP

DATE 11-21-83

WELL NAME CISCO SPRINGS FED # 2

SEC NW NW 23 T 20S R 23E COUNTY GRAND

43-019-3116
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

WATER OIL

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

DATE: 11-21-83

BY: [Signature]

CHIEF PETROLEUM ENGINEER REVIEW:

11/21/83

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

c-3-a 102-54 11-17-83
CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

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 102-54

UNIT _____

c-3-b

c-3-c

BA _____
DYLE: _____
OIL, GAS AND MINING
OF UTAH DIVISION OF
APPROVED BY THE STATE

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.

VERIFY LEGAL AND SUFFICIENT DRILLING WATER

November 21, 1983

TXO Production Corporation
Attn: K. P. Bow
1800 Lincoln Center Bldg.
Denver, Colorado 80264

RE: Well No. Cisco Springs Fed. #2
NWNW Sec. 23, T. 20S, R. 23E
865' FNL, 1000' FWL
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 102-54 dated November 17, 1983.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-31116.

Sincerely,


Norman C. Stout
Administrative Assistant

NCS/as
cc: Branch of Fluid Minerals
Encl.

59041
Water OK

410 019 3116

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: TXO Production Corp.

WELL NAME: CISCO SPRINGS FEDERAL #2

SECTION NWNW 23 TOWNSHIP 20S RANGE 23E COUNTY GRAND

DRILLING CONTRACTOR Veco #1

RIG # _____

SPUDDED: DATE 12-1-83

TIME 10 p.m.

HOW ROTARY

DRILLING WILL COMMENCE _____

REPORTED BY BRUCE WRIGHT

TELEPHONE # _____

DATE 12-2-83 SIGNED AS

TXO

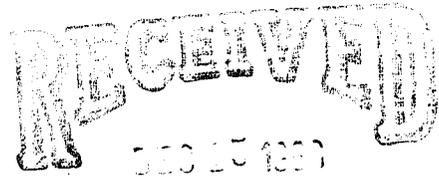
TXO PRODUCTION CORP.

1800 LINCOLN CENTER BUILDING

DENVER, COLORADO 80264

TELEPHONE (303) 861-4246

December 8, 1983



DIVISION OF
OIL, GAS & MINING

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

Re: Cisco Springs Federal #2
Section 23, T20S-R23E
Grand County, Utah

Gentlemen:

Please find enclosed three (3) copies of Form 9-331, "Sundry Notices and Reports on Wells", and Form 9-330, "Well Completion or Recompletion Report and Log", for the above referenced well. Also find enclosed a copy of the well history and the plugging report.

If there are any further requirements concerning this well, please contact me at this office.

Sincerely,

TXO PRODUCTION CORP.

A handwritten signature in cursive script that reads "R. Bruce Wright".

R. Bruce Wright
Petroleum Engineer

RBW:lc
Enclosures

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.

4

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. 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
TXO Production Corp.

3. ADDRESS OF OPERATOR
1800 Lincoln Center Bldg., Denver, Colorado 80264

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 365' FNL, 1000' FWL
At top prod. interval reported below
At total depth Same as above

NW NW

14. PERMIT NO. 43-019-31116 DATE ISSUED 11-16-83

5. LEASE DESIGNATION AND SERIAL NO.
U-44440

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Cisco Springs Federal

9. WELL NO.
#2

10. FIELD AND POOL, OR WILDCAT
Cisco Springs

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Section 23, T20S-R23E

12. COUNTY OR PARISH Grand 13. STATE Utah

15. DATE SPUDDED 12/1/83 16. DATE T.D. REACHED 12/7/83 17. DATE COMPL. (Ready to prod.) N/A 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4707' 19. ELEV. CASINGHEAD 4698'

20. TOTAL DEPTH, MD & TVD 2343' 21. PLUG, BACK T.D., MD & TVD Surface 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY All 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/GR, FDC/CNL/GR/Caliper 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	195'	12-1/4"	165 Sx.	None

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION
DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Production shut-in) D&A

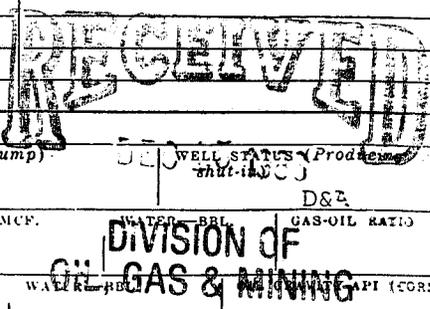
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

35. LIST OF ATTACHMENTS
Well History, Plugging Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED R Bruce Wright TITLE Petroleum Engineer DATE 12/8/83

*(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 35.

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 Cement": 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.)

FORMATION	TOP	DESCRIPTION, CONTENTS, ETC.	BOTTOM
38. GEOLOGIC MARKERS			
	NAME		MEAS. DEPTH
	Mancos		Surface
	Dakota		1559'
	Morrison		1840'
	TOP		TRUE VERT. DEPTH

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other Dry

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR 80264
1800 Lincoln Center Bldg., Denver, Colorado

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 365' FNL, 1000' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input checked="" type="checkbox"/>
(other) <input type="checkbox"/>	

5. LEASE
W-44440

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Cisco Springs Federal

9. WELL NO.
#2

10. FIELD OR WILDCAT NAME
Cisco Springs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T20S-R23E

12. COUNTY OR PARISH: 13. STATE
Grand Utah

14. API NO.
43-019-31116

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4698' GL

RECEIVED
JAN 10 1984

(NOTE: Report results of multiple completions in one zone change on Form 9-330.)

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.)

The above well was plugged and abandoned (as per Mr. Assad Raffoul at 10:10 p.m. on 12/8/83)

On 12/8/83 as follows:

Depth	Sx. Cmt.
1700' - 1500'	100 sx
300' - 100'	80 sx
Surface	10 sx

A dry-hole marker was installed and the location will be rehabilitated as per the APD as soon as feasible.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED R. Bruce Wright TITLE Petro. Engineer DATE 12/8/83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side



WESTERN PETROLEUM SERVICES
CEMENTING SERVICE REPORT

Grand Junction
District

Well Record No. 627153 Date 12-8-83

Service Supervisor Daryl Rogers

Company TLO

Well Name Cisco Springs #2

Location Grand State Utah

WT	"F. ANCT	"F. Formation	Conductor	Surface	Intermed.	Product	liner
log/WT: Size	WT	Displ		8-5/8			
acker Set At	Tool Pipe			24"			
enforced Interval							
Shw per Ft	Perf Hole Size						
ment Thickening Times							
System No.	Thickening Time HRS:MIN	EBGT "y					
1							
2							
3							
en Hole Size	Calculated						

Time	Remarks	Pump Rate	Pressure Tubing	Pressure Casing
16:00	Arrived Location / started rig up			
18:05	9 Bbls H ₂ O Ahead	3		200
18:08	21 Bbls Slurry @ 15.6	3		200
18:15	1 Bbl - H ₂ O Behind	3		200
18:16	9 Bbls Mud Dis.	3		200
19:29	7 Bbls H ₂ O Ahead	3		100
19:31	17 Bbls Slurry @ 15.6	3		100
19:36	1 1/2 Bbls Dis.	3		100
19:37	OPEN VALVE			

WT	Cement System Composition	Slurry Wt lb/gal	Slurry Yield cu ft/ck	Slurry Vol bbl	Slurry Vol cu ft
100	2:1 (Went)	15.6	1.18	21	118
80	2:1 (Went)	15.6	1.18	17	95

Breakdown at 3PM at psi with bbl of Fluid

Pressure to psi

Procedure Used: Runway Sequence Heaviness Sequence

Reversed out bbl slurry at psi

OTHER CONSIDERS SERVICE Satisfactory

Operator Wes Sutton

Max. Pressure 200

Max Plug Bumped yes no Pressure to

Plug was not bumped because

Max Circulation Lost When

Max Cement Circulated to Surface Volume bbl

Pumped 3bls Spacer, sized at gal

float held

float did not hold - shut in with psi

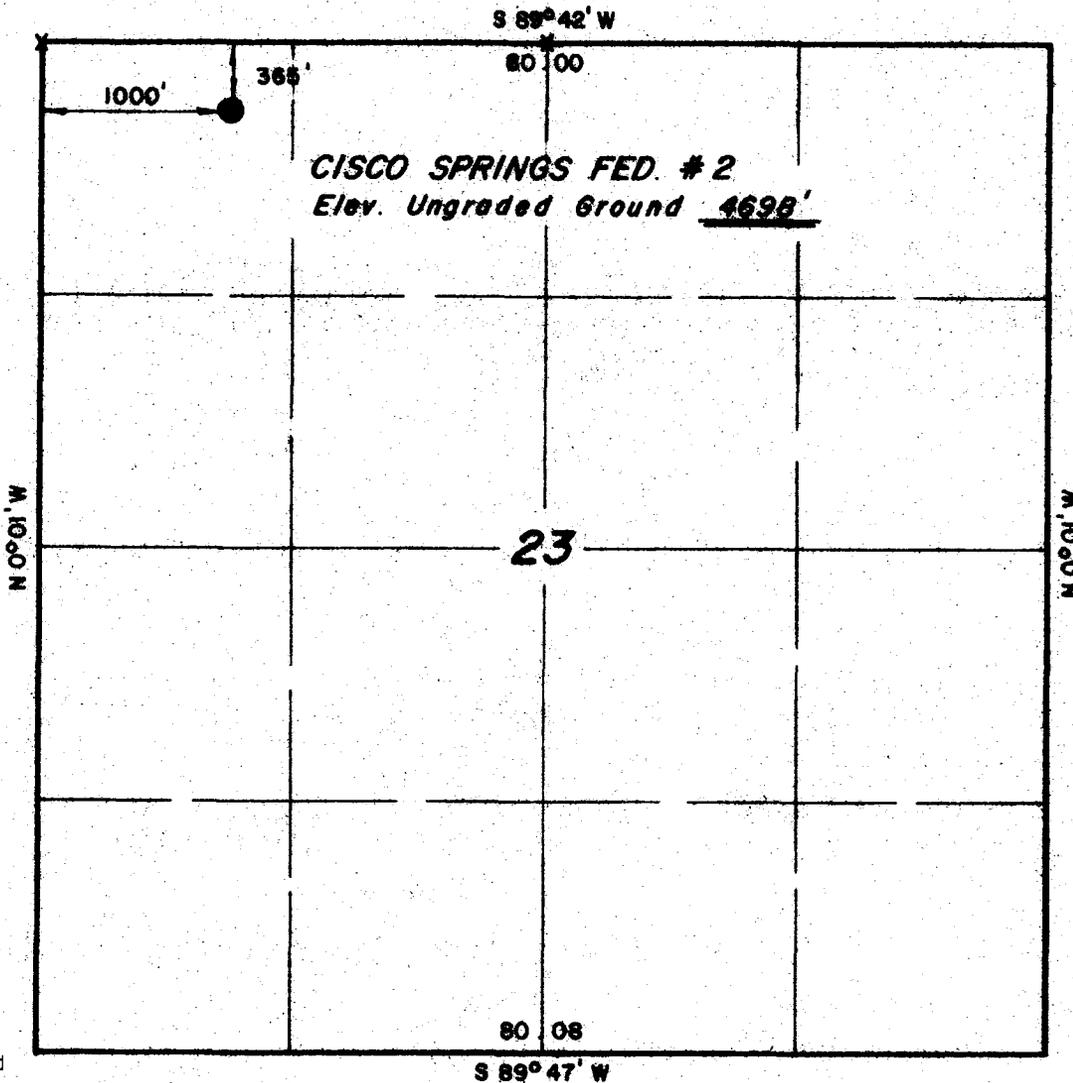
BEST COPY AVAILABLE

T 20 S , R 23 E , S.L.B.&M.

PROJECT

TXO PRODUCTION CORP.

Well location, *CISCO SPRINGS*
FED. # 2, located as shown in the
NW 1/4 NW 1/4 Section 23, T 20 S,
R 23 E, S.L.B. & M. Grand County,
Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 65 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10 / 17 / 83
PARTY L.D.T. D.K. BFW	REFERENCES GLO Plat
WEATHER Fair	FILE TXO

X = Section Corners Located

Exhibit 2
Survey Plat

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well gas well other Dry

2. NAME OF OPERATOR
TXO Production Corp.

3. ADDRESS OF OPERATOR 80264
1800 Lincoln Center Bldg., Denver, Colorado

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 365' FNL, 1000' FWL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: Same as above

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input checked="" type="checkbox"/>
(other)		

5. LEASE U-44440

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Cisco Springs Federal

9. WELL NO.
#2

10. FIELD OR WILDCAT NAME
Cisco Springs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 23, T20S-R23E

12. COUNTY OR PARISH Grand 13. STATE Utah

14. API NO.
43-019-31116

15. ELEVATIONS (SHOW DF, KDB, AND WD)
4698' GL

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

The above well was plugged and abandoned (as per Mr. Assad Raffoul at 10:10 p.m. on 12/8/83)

On 12/8/83 as follows:

	Depth
1700'	- 1500'
300'	- 100'
	Surface

Sx. Cmt.
100 sx
80 s
10 s

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 12/15/83
BY: [Signature]

A dry-hole marker was installed and the location will be rehabilitated as per the APD as soon as feasible.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

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

SIGNED R. Bruce Wright TITLE Petro. Engineer DATE 12/8/83

(This space for Federal or State Office Use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
DEC 15 1983

DIVISION OF OIL, GAS & MINING

WELL NAME:	Cisco Springs Federal #2	PTD:	2300'
AREA:	Cisco Springs	ELEVATIONS:	4707' KB, 4698' GL
LOCATION:	Section 23, T20S-R23E	CONTRACTOR:	Veco #1
COUNTY:	Grand	AFE NUMBER:	841504
STATE:	Utah	LSE NUMBER:	73398
FOOTAGE:	365' FNL & 1000' FWL	TXO WI:	100%

- 12/02/83 100' (100'), drlg. Mancos. 8.8, 100. Fin RURT. Spudded 12-1/4" hole @ 10 PM 12/1/83. Attempted to drill surf hole w/ air dust, encountered severe sloughing, pea-gravel. Attempted to drill ahead w/ air mist, unable to do so. Mudded up to stabilize hole. DW: 10,325. CW: 10,325. DD 1.
- 12/03/83 200' (100'), NU. Mancos. 8.9, 50. TD 7-7/8" hole @ 2:45 PM on 12/2/83. Circ for 1 hr. TOO. RU & ran 8-5/8" csg. Ran 4 jts 8-5/8", 24#, K-55, ST&C. RU Western & cmtd csg. Circ w/ mud for 15 min. Pumped 10 BW. Cmtd w/ 165 sxs Cl "H" w/ 2% CaCl₂, 1/4#/sx celloflake. Shoe set @ 195'. WOC 4 hrs. PD @ 6:30 PM 12/2/83. Float held. Full returns. Screwed on wellhead @ 10:30 PM on 12/2/83. Begin NU. DW: 12,240. CW: 22,565. DD 2.
- 12/04/83 420' (220'), drlg. Mancos. Dust 120#. Fin NU BOP. Tested BOP's to 800#. TIH, drl cmt & shoe. TOO. PU near-bit 3 pt reamer, short DC, IBS, 30' collar, IBS & TIH. Resumed drlg w/ dust. DW: 4715. CW: 27,280. DD 3.
- 12/05/83 818' (398'), surveying. Mancos. Dust 180#. Drld to 620' w/ air dust. Twisted off 3 DC's above bit. TIH w/ OS, rec fish. TIH w/ same BHA & resumed drlg w/ dust. 2-3/4" @ 487'. DW: 6508. CW: 33,788. DD 4.
- 12/06/83 1297' (478'), TIH w/ bit #3. Mancos. Dust 150#. Drld to 1297', varying wt & rpm to control deviation. TOO. LD stabilization. TIH w/ slick assembly & bit #3. 4" @ 817', 5" @ 1113'. DW: 8096. CW: 41,884. DD 5.
- 12/07/83 2128' (831'), drlg. Morrison. Mist 360#. Drld ahead. Hole got wet @ 1690'. Went to air mist, resumed drlg. Had good oil show in smpls @ 1665', 3 second connection flare @ 1733', tr of oil in smpls @ 2000'. Estimated well is making 5 BWP. Takes 500-600# to unload hole after connections. Dakota Silt @ 1430', Kd @ 1665', Kd₂ @ 1760', Jm₁ @ 1920', Jm₂ @ 2000'. 4" @ 1367'. DW: 12,911. CW: 54,795. DD 6.
- 12/08/83 2343' (215'), logging. Morrison. 8.7, 61, 7.2, 10. TD 7-7/8" hole @ 12:15 PM on 12/7/83. Made 12 stnd short trip. Hole tight. Hit bridge @ 1900'. Attempted to CO w/ air mist, unable to clean out to TD. Mudded up hole w/ 150 BM, had full returns. Cleaned out hole to TD. Made 5 stnd short trip. No fill or tight hole. TOO. RU Gearhart & begin logging. 4" @ 2343'. DW: 6923. CW: 61,718. DD 7.
- 12/09/83 2343' (0'), RDRT (RR @ 9 PM on 12/8/83). 8.7, 61. Morrison. Fin logging. RD Gearhart. TIH w/ DC's. TOO & LD DC's. TIH w/ DP open ended & P & A'd as follows: 100 sxs @ 1700-1500', 80 sxs from 300-100', 10 sxs @ surf. Will install dry hole marker. Well P & A'd on 12/8/83. FINAL REPORT!!! DW: 12,374. CW: 74,092. DD 8.



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

December 20, 1983

TXO Production Corp.
1800 Lincoln Center Bldg.
Denver, CO 80164

RE: Well No. Cisco Springs Fed. #2
365' FNL 100' FWL NW NW
Sec. 23, T. 20S, R. 23E.
Grand County, Utah

Gentlemen:

We received your Well Completion Report and Log dated December 8, 1983 on the above well. It indicated this well has been plugged and abandoned. However, this office has not received the appropriate Sundry Notices indicating intention to abandon and subsequent abandonment.

Enclosed are the necessary Sundry Notice forms for your convenience in fulfilling these requirements. Please remit the completed forms to this office as soon as possible.

Thank you for your prompt attention to this matter.

Respectfully,

A handwritten signature in cursive script that reads "Claudia Jones".

Claudia Jones
Well Records Specialist

CJ/cj
Enclosure

Cisco Springs Federal #2, Sec 23, T20S, R23E, Grand County, UT,
Lease No. U-444410. This well was reported as
plugged and abandoned by ^{petroleum} Bruce Wright, Engineer on 12-8-83.
However, the location has not been leveled and the
reserve pit ~~is not~~ silled. The site must be
rehabilitated and reported when completed. Inspected 4-5-84



WESTERN PETROLEUM SERVICES
CEMENTING SERVICE REPORT

Grand Junction
District

Field Receipt No. 627153 Date 12-8-83

Service Supervisor David Rogers

Company TKO

Well Name Cisco Springs #2

Well Level 5

County Grand State Utah

WST	"	DNCT	"	Formation	Conductor	Surface	Interned.	Product	Line
5g/OP: Size	WT	Displ			Size	2 5/8			
acker Set At	Test Pipe				Weight	24 th			
expanded Interval					Thread				
Shen per Ft	Perf Hole Size				Top				
spent Thickening Times					D Stage Collar				
System No.	Thickening Time HRS:MIN	BBGT "			E Bottom				
1					F Stage Collar				
2					G Float Collar				
3					Shoe				
4					C Top				
					A Stage Collar				
					B Bottom				
					F Stage Collar				
					C Float Collar				
Perf Hole Size	Calculated				T Shoe				

Time	Remarks	Pump Rate	Pressure
-2400 HE			
16:00	Arrived Location / started rig up		
18:05	9 Bbls H ₂ O Ahead	3	200
18:08	21 Bbls Slurry @ 15.6	3	200
18:15	1 Bbl - H ₂ O Behind	3	200
18:16	9 Bbls Mud Dis.	3	200
19:29	7 Bbls H ₂ O Ahead	3	100
19:31	17 Bbls Slurry @ 15.6	3	100
19:36	1 1/2 Bbls Dis.	3	100
19:37	OPEN VALVE		

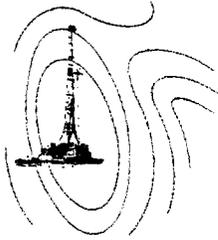
RECEIVED
JAN 23 1984

DIVISION OF
OIL GAS & MINING

WST	Current System Composition	Slurry Wt lb/gal	Slurry Yield cu ft/hr	Slurry Vol bbl	Slurry Vol cu ft
100	3.11 (Went)	15.6	1.18	21	118
80	3.21 (Went)	15.6	1.18	17	95

Breakdown at 300 BPM at 200 psi with 1 bbl of Fluid
 increased to 300 psi
 Procedure Used: Running Source Restoration Source
 reversed out 1 bbl slurry at 300 psi
 OTHER CONSIDERS SERVICE Satisfactory
 Satisfactory
 Agency Representative Wes Sutton

Max. Pressure 200
 Max Plug Bumped yes no Pressure 200
 Plug was not bumped because _____
 Max Circulation Lost 0 when _____
 Max Cement Circulated to Surface _____ Volume _____ bbl
 Pumped _____ bbls. Spacer, sized at _____ gal
 Flocc Field
 Flocc did not hold - shut in with _____ psi



Clarence L. Harr
Consulting Petroleum Geologist

TXO PRODUCTION CORP.

Denver, Colorado

WELL REPORT

CISCO SPRINGS FEDERAL NO. 2

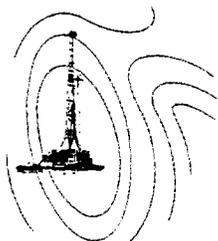
NE NW NW 23-T20S-R23E

GRAND COUNTY, UTAH

by

CLARENCE L. HARR

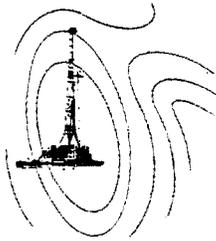
CONSULTING PETROLEUM GEOLOGIST



Clarence L. Harr
Consulting Petroleum Geologist

WELL SUMMARY

OPERATOR: TXO PRODUCTION CORP.
WELL NAME: CISCO SPRINGS FEDERAL NO. 2
LOCATION: 365 FNL - 1000 FWL
NE NW NW 23-T20S-R23E
GRAND COUNTY, UTAH
AREA: CISCO SPRINGS FIELD
OBJECTIVES: CRETACEOUS DAKOTA & JURASSIC MORRISON
TOTAL DEPTH: 2343 DRILLER; 2332 LOGGER
ELEVATION: K.B. 4707 G.L. 4698
SPUD DATE: 7 PM DECEMBER 1, 1983
T.D. DATE: DECEMBER 7, 1983
STATUS: PLUGGED AND ABANDONED
DRILLING MEDIUM: WATER TO 200; AIR 200 TO 1690;
MIST 1690 TO 2343
HOLE SIZE: 12- $\frac{1}{2}$ " TO 200; 7- $\frac{7}{8}$ " TO 200
TO TD @ 2343
CASING SIZE: 8- $\frac{5}{8}$ " (24 lb., K-55) TO 195
PERFORATIONS:
TYPES OF LOGS: DIL-GR-SP; 188 - 2330; CDL-CNL-GR-CAL
400 - 2325
WELLSITE GEOLOGIST: CLARENCE L. HARR
0 - 1700
JIM DICKSON
1700 - 2343
TXO SUPERINTENDENT: WES SUTTON
DRILLING CONTRACTOR: VECO DRILLING INC.
GRAND JUNCTION, CO
ELECTRIC LOGGING CO.: GEARHART CO.
GRAND JUNCTION, CO



WELL ANALYSIS SUMMARY

The Cisco Springs Federal No. 2, located on the southwest flank of the Cisco Springs structural nose, was drilled to test the productive capacity of the Dakota and Morrison sands within the oil ring of the Cisco Springs Field.

Lithologic description of the rock section penetrated by the subject well is based on 10-foot samples caught from 0 to 200, the surface casing point. Thirty-foot samples were caught through the Mancos shale section from 200 to 1400 feet and then 10-foot samples through the objective Dakota and Morrison from 1400 to total depth at 2043 feet. The surface hole was drilled with water. Air was used as the drilling medium from 200 to 1690 feet through the upper Dakota sand. The hole started making minor amounts of water and was then drilled with air mist from 1690 to 2343 T.D. Due to "tight-hole" and minor water inflow the hole was mudded-up for logging.

Sample descriptions contained in the report are based on percentages of rock types within the sample from the depths indicated. The attached sample and drill-time log is an interpretive lithologic log based on the samples, drilling time and mechanical logs, adjusted to "E" log measured depths.

Structure: Structurally the well came in 62 feet low to the estimate. On top of the Dakota Silt which is the mapped horizon, the Cisco Springs Fed. No. 2 was 137 feet low to the Ambra No. 14-2 TXO (north offset) and 35 feet high to the Ambra No. 2-Mesa TXO (a southwest dry hole offset).

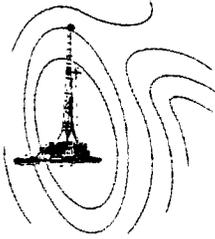
Reservoir Evaluation

Mancos - Frontier (Surface - 1560)

There were no reservoir beds encountered through the dark-gray shale and siltstone section of the Mancos-Frontier. The sands were thin argillaceous and tight interbeds of the shale and siltstone. Fragments of spary calcite were visible in the Niobrara samples, suggesting probable fractures; however, there were no indications of hydrocarbons.

Dakota Silt (1560 - 1630)

The Dakota Silt consisted of interbedded dark-gray carbonaceous shale and siltstone which contained minor amounts of sand near the top. There were no reservoirs or hydrocarbon shows.



Dakota (1630 - 1893)

Sands of the Dakota were developed in five separate benches with interbeds of dark-gray to black pyritic shale and siltstone. The upper four contained reservoir quality sand; however, based on the quality of hydrocarbon shows and the relatively high Sw, the sands do not have economic potential.

Kd 1 Sand - 1st Bench (1662 - 78)

Sixteen feet of clear, white, fine to medium grained, well-sorted sandstone was penetrated. Individual clusters contained white kaolinite void filler. Ninety percent of the sand gave an even, yellow-gold fluorescence and a slow bloom and stream when cut with a solvent. While dusting at 1694 feet, immediately above the next sand, the hole became damp and dripped water from the end of the blooey line. Porosities were 19 to 20% and the Rt's were 12 to 15 ohms. Using an Rw of .25 the Sw calculated at 68 to 72%. Due to the dispersed clay and associated bound water, the Sw's are slightly exaggerated. The sand should produce some gas (uneconomical) and water.

Kd 1 Sand - 2nd Bench (1696 - 1706)

The 2nd Bench contained 11 feet of clear, gray, very fine to medium grained sandstone. The average X-plot porosity was 19% and the Rt was 15 ohms. Based on an Rw of .25 the Sw calculates at 68%. The zone should produce some gas, but primarily water.

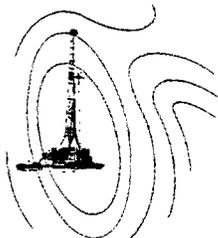
The 3 sec. connection flare at 1733 is attributed to the 1st and 2nd Benches.

Kd 1 Sand - 3rd Bench (1716 - 43)

The subject unit contains 20 feet of porous sand with two to three foot thick interbeds of dark-gray shale. The sand is clear, white, very fine to medium grained, locally contains calcite and kaolin cement. Sand samples gave a trace of fluorescence. Using X-plot porosities of 16%, 18%, 19%, and 15%, Rt's of 12, 14 and 16 ohms and an Rw of .25, the water saturations are 83%, 74%, 76% and 83%, respectively. Based on the weak show and range of water saturations, the sand is considered non-productive.

Kd 2 Sand - 1st Bench (1765 - 1774)

Nine feet of sand was penetrated, which was clear, white, very fine to fine grained with kaolin void filler. There were no shows

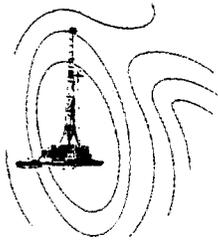


noted. The Sw was 87%, based on 18% porosity, and an Rt of 10 ohms and an Rw of .25. The sand is non-productive.

Morrison (1893 - 2343 T.D.)

Except for the 28 foot sand at 2284 - 2312, the Morrison section penetrated contained either sands that exhibited less than 10% porosity or that porosity greater than 10% was in zones of two feet or less. There were numerous traces of oil stain and fluorescence from 2130 to 2290; however, there were no reservoirs of sufficient quality or thickness to be considered as potential. Using an Rw of .5 the water saturations ranged from 93 to 100%.

The 28 foot sand (2284 - 2312) was white, light gray, very fine grained and argillaceous. A GR API count of 60 units indicated shalyness. The caliper showed mud cake build-up since mudding up just prior to logging. Samples from the top of the sand had only a trace of oil stain and fluorescence. Based on an Rw of .5, Rt's of 17 and 18 ohms and an X-plot porosity of 19%, the Sw calculated out at 88 to 90%. The sand is water wet.



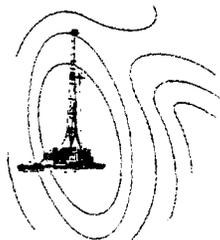
Clarence L. Harr
Consulting Petroleum Geologist

FORMATION TOPS

KB 4707

TXO PRODUCTION CORP.
Cisco Springs Fed. No. 2
NE NW NW 23-T20S-R23E
Grand County, Utah

FORMATION	SAMPLE	"E" LOG	DATUM
Base Niobrara	1010	1033	+3674
Frontier	1288		+3479
Dakota Silt		1560	+3147
Dakota Fm.		1630	+3077
Kd 1 Sand	1665	1662	+3045
Kd 2 Sand	1760	1765	+2942
Morrison		1893	+2868
Jm 1 Sand	1920	1964(?)	+2743
Jm 2 Sand	2000	2036	+2671
Jm "Marker"		2124	+2583
Jm 3 Sand		Absent	
Jm 4 Sand		2264	+2443
Total Depth		2343	

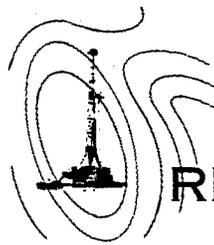


Clarence L. Harr
Consulting Petroleum Geologist

OFFSET WELL DATUMS
for
STRUCTURAL COMPARISON

TXO PRODUCTION CORP.
Cisco Springs Fed. No. 2
NE NW 23-T20S-R23E
Grand County, Utah

FORMATION	AMBRA TXO 14-2 SW 14-20S-23E	AMBRA TXO 2-Mesa NW 23-20S-23E	TXO 1"B" C.Springs SE 15-20S-23E
Base Niobrara			916 + 3821
Frontier			1095 + 3642
Dakota Silt	+3284	+3112	1384 + 3353
Dakota Fm.			1449 + 3288
Kd 1 Sand			1477 + 3260
Kd 2 Sand			1578 + 3159
Morrison			1647 + 3090
Jm 1 Sand			1734 + 3003
Jm 2 Sand			1788 + 2949
Jm "Marker			1914 + 2823
Jm 3 Sand			1966 + 2771
Jm 4 Sand			2024 + 2713
Total Depth			2118



Clarence L. Harr
Consulting Petroleum Geologist

RESERVOIR EVALUATION

COMPANY TXO PRODUCTION CORP.
WELL Cisco Springs Fed. No. 2
LOC. 23-T20S-R23E

FORMATION Dakota: Kd 1 Sand ZONE NO. 1
ZONE INTERVAL 1662 - 1748

ZONE ANALYSIS

"E" LOG DEPTHS		POROSITY					RT	%SW	DRILL TIME
		D	N	S	X-PLOT				
1662	70 1st Bench	17	21		19	15	68	ABOVE <u>.6</u>	
1670	78	18	22		20	12	72	<u>1.0</u>	
1696	1706 2nd Bench	17	21		19	15	68	MIN. <u>1.2</u>	
1716	18 3rd Bench	11	20		16	14	83	PER <u>1.4</u>	
1722	34	14	22		18	14	74	1 FT. <u>1.0</u>	
1736	39	17	20		19	12	76	<u>1.2</u>	
1742		12	18		15	16	83	BELOW <u>1.4</u>	

TYPE SHOW: STAIN _____ FLUOR. X OTS _____ GTS X
SHOW VARIATION: STEADY _____ ERRATIC X INCREASING _____ DECREASING X
OIL STAIN: EVEN _____ MOTTLED _____ SPOTTED _____ COLOR _____
LIGHT _____ MODERATE _____ DARK _____ "DEAD" _____
% TOTAL SAMPLE STAIN _____ % PORE VOLUME STAIN _____

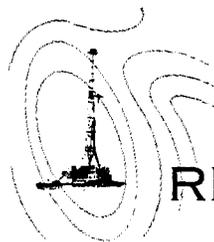
FLUORESCENCE: EVEN X MOTTLED _____ SPOTTED _____ PINPOINT _____
COLOR yel.-Gold BRIGHT _____ PALE X DULL _____ FAINT _____
% TOTAL SAMPLE FLUORESCENCE _____ % PORE VOLUME FLUOR. 90 (1662-79)

"CUT FLUORESCENCE": FLASH. _____ STREAM. X SLOW X "RESIDUAL" _____
COLOR yel. BRIGHT _____ PALE X DULL _____ FAINT _____
% TOTAL SAMPLE CUT _____ % PORE VOLUME CUT 90 (1662-79)

POROSITY: GOOD _____ FAIR X POOR _____ NONE _____ % EST. _____
DESCRIPTION Ss., clr., v.f./m.g., w.srt., clus. w.kao. void filler, 3
separate benches w. lower bench containing kao. void filler and shale laminations.

ZONE EVALUATION: Upper part of 1st Bench and 2nd Bench should give up some
gas with fair quantities of water. The gas would be low yield and probably
uneconomical. The 3rd Bench is considered water wet. The 3 sec. conn. flare @
1733' is attributed to the 1st and 2nd Benches.

NOTIFIED: Emily Hundley-Goff DATE 12-6-83 TIME 4:00 PM
GEOLOGIST: Clarence Harr DATE 12-6-83



Clarence L. Harr
Consulting Petroleum Geologist

RESERVOIR EVALUATION

COMPANY TXO PRODUCTION CORP.
WELL Cisco Springs Fed. No. 2
LOC. 23-T20S-R23E

FORMATION Dakota: Kd 2 Sand ZONE NO. 2
ZONE INTERVAL 1765 - 1839

ZONE ANALYSIS

"E" LOG DEPTHS		POROSITY					RT	%SW	DRILL TIME
		D	N	S	X-PLOT				
1765	72 1st Bench	14	21		18	Rw = 10	.25 87	ABOVE <u>1.2</u> <u>2.2</u>	
								MIN. <u>1.6</u>	
1794	1812 2nd Bench	9	25		19	12	76	PER <u>2.6</u> <u>1 FT. 1.1</u>	
								BELOW <u>.8</u>	

TYPE SHOW: STAIN _____ FLUOR. _____ OTS _____ GTS _____

SHOW VARIATION: STEADY _____ ERRATIC _____ INCREASING _____ DECREASING _____

OIL STAIN: EVEN _____ MOTTLED _____ SPOTTED _____ COLOR _____

LIGHT _____ MODERATE _____ DARK _____ "DEAD" _____

% TOTAL SAMPLE STAIN _____ % PORE VOLUME STAIN _____

FLUORESCENCE: EVEN _____ MOTTLED _____ SPOTTED _____ PINPOINT _____

COLOR _____ BRIGHT _____ PALE _____ DULL _____ FAINT _____

% TOTAL SAMPLE FLUORESCENCE _____ % PORE VOLUME FLOUR. _____

"CUT FLUORESCENCE": FLASH. _____ STREAM. _____ SLOW _____ "RESIDUAL" _____

COLOR _____ BRIGHT _____ PALE _____ DULL _____ FAINT _____

% TOTAL SAMPLE CUT _____ % PORE VOLUME CUT _____

POROSITY: GOOD _____ FAIR X POOR X NONE _____ % EST. _____

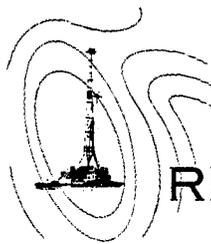
DESCRIPTION 1st Bench: Ss., clr., wht., v.f./f.g., w.kao. cmt.

2nd Bench: Ss., lt.gy., wh., f.g., subang./subrd., v. shly.

ZONE EVALUATION: Considered as non-productive.

NOTIFIED: _____ DATE _____ TIME _____

GEOLOGIST: Clarence Harr DATE 12-26-83



Clarence L. Harr
Consulting Petroleum Geologist

RESERVOIR EVALUATION

COMPANY TXO PRODUCTION CORP.
WELL Cisco Springs Fed. No. 2
LOC. 23-T20S-R23E

FORMATION Morrison: "upper" ZONE NO. 3
ZONE INTERVAL 1964 - 2080

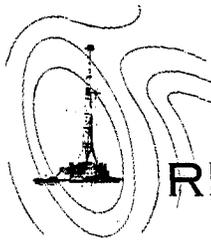
ZONE ANALYSIS

"E" LOG DEPTHS		POROSITY					%SW	DRILL TIME
		D	N	S	X-PLOT	RT		
2022	26	9	17		14	Rw = .5 18	ABOVE _____	
2036	42	6	9		8	30	MIN. _____	
2074	80	11	14		13	19	PER _____	
						100	FT. _____	

TYPE SHOW: STAIN _____ FLUOR. Trace OTS _____ GTS _____
 SHOW VARIATION: STEADY _____ ERRATIC _____ INCREASING _____ DECREASING X
 OIL STAIN: EVEN _____ MOTTLED _____ SPOTTED _____ COLOR _____
 LIGHT _____ MODERATE _____ DARK _____ "DEAD" _____
 % TOTAL SAMPLE STAIN _____ % PORE VOLUME STAIN _____
 FLUORESCENCE: EVEN _____ MOTTLED _____ SPOTTED _____ PINPOINT Trace
 COLOR Yel. BRIGHT _____ PALE _____ DULL _____ FAINT X
 % TOTAL SAMPLE FLUORESCENCE _____ % PORE VOLUME FLOUR. _____
 "CUT FLUORESCENCE": FLASH. _____ STREAM. _____ SLOW X "RESIDUAL" _____
 COLOR Yel. BRIGHT _____ PALE _____ DULL _____ FAINT X
 % TOTAL SAMPLE CUT _____ % PORE VOLUME CUT _____
 POROSITY: GOOD _____ FAIR _____ POOR X NONE X % EST. _____
 DESCRIPTION _____

ZONE EVALUATION: There were no reservoirs of sufficient quality or thickness to be considered economically potential.

NOTIFIED: _____ DATE _____ TIME _____
GEOLOGIST: Clarence Harr DATE 12-26-83



Clarence L. Harr
Consulting Petroleum Geologist

RESERVOIR EVALUATION

COMPANY TXO PRODUCTION CORP.

WELL Cisco Springs Fed. No. 2

LOC. 23-R20S-R23E

FORMATION Morrison: "lower" ZONE NO. 4

ZONE INTERVAL 2140 - 2343 T.D.

ZONE ANALYSIS

"E" LOG DEPTHS		POROSITY					RT	%SW	DRILL TIME
		D	N	S	X-PLOT				
2174	78	4	10		8	28	Rw = .5 100	ABOVE _____	
2230	34	8	10		9	35	100	MIN. _____	
2266	70	5	8		7	30	100	PER _____	
2284	98	17	20		19	17	90	FT. _____	
2298	2308	16	21		19	18	88	_____	
								BELOW _____	

TYPE SHOW: STAIN Trace FLUOR. Trace OTS _____ GTS _____

SHOW VARIATION: STEADY _____ ERRATIC X INCREASING _____ DECREASING _____

OIL STAIN: EVEN _____ MOTTLED _____ SPOTTED X COLOR _____

LIGHT _____ MODERATE _____ DARK _____ "DEAD" _____

% TOTAL SAMPLE STAIN _____ % PORE VOLUME STAIN _____

FLUORESCENCE: EVEN _____ MOTTLED _____ SPOTTED _____ PINPOINT _____

COLOR Yel.-gold BRIGHT _____ PALE _____ DULL _____ FAINT X

% TOTAL SAMPLE FLUORESCENCE _____ % PORE VOLUME FLUOR. _____

"CUT FLUORESCENCE": FLASH. _____ STREAM. _____ SLOW _____ "RESIDUAL" _____

COLOR _____ BRIGHT _____ PALE _____ DULL _____ FAINT _____

% TOTAL SAMPLE CUT _____ % PORE VOLUME CUT _____

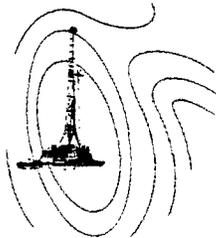
POROSITY: GOOD _____ FAIR X POOR X NONE _____ % EST. _____

DESCRIPTION 2140 - 2284: Thin, tight sands interbedded with red, green and brown shale. 2284 - 2312: Ss., wh., lt.gy., v.f./f.g., arg.

ZONE EVALUATION: 2140 - 2284: There were no reservoirs with sufficient effective porosity to be considered as potential. 2284 - 2312: Sandstone is considered as water wet.

NOTIFIED: _____ DATE _____ TIME _____

GEOLOGIST: Clarence Harr DATE 12-26-83



PERCENTAGE LOG

SAMPLE DESCRIPTION

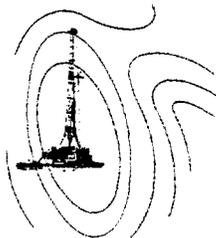
TXO PRODUCTION CORP.
Cisco Springs No. 2 Fed.
NE NW NW 23-T20S-R23E
Grand County, Utah

10 ft. Samples Surface - 200 ft.

0 - 10	SLT	80	tan, gy., brn.
	SD	20	clr./org., tan, f./m.g., lse.
10 - 20	SLT	45	tan, gy., brn.
	SH	15	gy.
	SD	40	clr., org., tan, m./c.g., lse.
20 - 30	SH	100	brn., gy., blk.,
30 - 40	SH	100	gy.-brn., gy., blk., calc.
40 - 50	SH	90	dk.gy., dk.gy.-brn., blk., f.mica., sl. carb., calc.
	SLTST	10	tan
50 - 60	SH	90	a.a.
	SLTST	10	a.a.
60 - 70	SH	100	a.a.
70 - 80	SH	85	dk.gy., blk., f.mica, calc.
	SLTST	15	brn.
80 - 90	SH	95	a.a.
	SLTST	5	a.a.
90 - 100	SH	100	gy., blk., sl. carb., calc.
100 - 10	SH	100	a.a.
10 - 20	SH	100	gy./dk.gy., blk., calc.
20 - 30	SH	100	a.a.
30 - 40	SH	100	dk.gy., blk., calc.
40 - 50	SH	100	gy./dk.gy., blk./plty., calc.
50 - 60	SH	100	a.a.
60 - 70	SH	85	gy./dk.gy.-brn., blk., calc.
	SLTST	15	brn.
70 - 80	SH	100	dk.gy., blk./plty., calc., w. veins brn., spar. Calc.
80 - 90	SH	100	dk.gy., plty., calc., sl. carb.

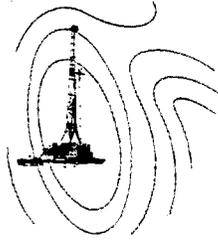
30 ft. Samples 200 ft. - 1400 ft.

200 - 30	SH	100	dk.gy.-brn., blk./plty., calc., w. tan calc. spks. tr. ss., tan., clr., f.g.
30 - 60	SH	100	dk.gy., blk./plty., calc., sl. carb.
60 - 90	SH	100	dk.gy.-brn., blk./plty., calc., f.mica., sl. carb.
90 - 320	SH	100	dk.gy.-brn., blk./plty., w. tan calc. spks., sl. carb., w. spar. Calc. frag., calc.
320 - 50	SH	100	a.a.
50 - 80	SH	100	a.a.



TXO Cisco Springs, No. 2 Fed.

380 - 410	SH	100	dk.gy.-brn., blk./plty., w. tan calc. spks., sl. carb., w. spar. Calc. frag., calc., tr. v.f.g. ss. a.a.
10 - 40	SH	100	a.a.
40 - 70	SH	100	a.a.
70 - 500	SH	70	w. incr. crm./brn. spar. Calc.
	SLTST	30	dk.gy.-brn., blk./plty., calc.
500 - 30	SLTST	80	dk.gy., calc., sdy.
	SH	70	dk.gy.-brn.
30 - 60	SLTST	60	gy., sdy., calc.
	SH	35	dk.gy.-brn., calc., f.mica.
	SS	5	gy., v.f.g.
60 - 90	SH	85	dk.gy./gy., calc., w. spar. Calc., carb.
	SLTST	15	gy., calc., sdy.
90 - 620	SH	80	a.a. bent.
	SLTST	20	gy. tr. brn. v.f.g. ss.
620 - 50	SH	100	dk.gy.-brn., blk./plty., calc., w. brn./crm. Calc., carb., l.c. brn. v.f.g. ss.
50 - 80	SH	100	a.a.
80 - 710	SH	100	dk.gy.-brn., blk./plty., calc., carb., f.mica.
710 - 40	SLTST	60	gy./dk.gy., sl. aren., calc.
	SH	40	dk.gy., blk., calc.
40 - 70	SH	75	dk.gy., blk., calc., carb., crm. calc. spks.
	SLTST	15	gy./dk.gy., calc.
	SS	10	gy., v.f.g.
70 - 800	SLTST	80	dk.gy., calc., sdy.
	SS	20	gy., v.f.g., calc., slty.
800 - 30	SH	60	a.a.
	SS	40	gy., v.f.g., ang./subang., calc., arg.
30 - 60	SLTST	70	gy./dk.gy., calc. aren.
	SH	25	dk.gy., blk., calc., carb.
	SS	5	gy., v.f.g.
60 - 90	SH	60	dk.gy., blk./plty., calc., carb.
	SLTST	40	dk.gy., calc.
90 - 920	SLTST	70	dk.gy./gy., calc.
	SS	30	gy., v.f.g., calc.
920 - 50	SLTST	80	gy./dk.gy., calc.
	SS	10	gy., v.f.g., ang. calc.
	SH	10	dk.gy., calc.
50 - 80	SH	60	dk.gy., blk., calc.
	SLTST	35	gy., dk.gy., calc., aren.
	SS	5	gy., v.f.g.
80 - 1010	SH	80	dk.gy., blk., calc., w. tan spar. Calc.
	SLTST	20	gy./dk.gy., aren.
1010 - 40	SH	100	dk.gy., blk., calc., f.mica., carb., w. tan spar. Calc.
40 - 70	SH	90	a.a.



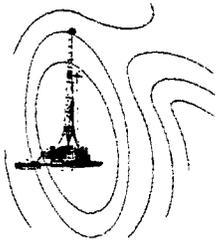
Clarence L. Harr
Consulting Petroleum Geologist

TX0 Cisco Springs, No. 2 Fed.

1070 - 1100	SH	90	dk.gy., blk., calc., f.mica, carb., w. wh. Bent., pyr.
	SLTST	10	gy., calc.
1100 - 30	SH	100	Tr. Ss wh., clr., f.g., ang./subang. a.a.
30 - 60	SH	100	dk.gy.-brn., gy., blk., calc., bent., w. tan Bent.
60 - 90	SH	100	dk.gy., dk.gy.-brn., blk., calc., v. pyr., foss.
90 - 1220	SH	100	a.a.
1220 - 50	SH	100	dk.-gy., blk./plty., calc., sl. carb., pyr., f.mica.
50 - 80	SH	100	dk.gy., gy. blk./plty., calc., carb., v. pyr., f.mica., bent., w.gy./lt.gy. Bent.
80 - 1310	SH	100	a.a. w. brn. spar. Calc.
1310 - 40	SH	100	dk.gy.-brn., blk., calc., carb., pyr., f.mica.
40 - 70	SH	100	a.a.
			w.s. fish scales.
70 - 1400	SH	100	dk.gy.-brn., blk., calc., f.mica., w. wh. Bent. Tr. m.g., ang./subang., wh., brn. Q.

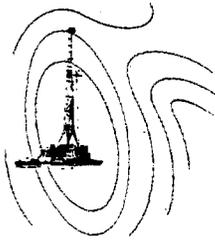
10 ft. Samples 1400 - T.D.

1400 - 10	SH	85	a.a.
	SS	15	brn.,gy., v.f.g., calc., ang./subrd., clus./lse.
10 - 20	SH	95	a.a.
	SS	5	a.a.
20 - 30	SH	75	dk.gy.-brn., blk., calc., f.mica
	SLTST	25	gy./dk.gy. calc.
30 - 40	SH	80	a.a.
	SS	20	gy.s. lt.gy., v.f.g., ang./subang., slty.
40 - 50	SLTST	75	dk.gy., carb., sdy., calc., hd.
	SH	20	dk.gy., blk., calc.
	SS	5	clr., wh. v.f.g. subang.
50 - 60	SLTST	85	dk.gy., gy., calc., sil., hd., sdy., carb.
	SH	15	dk.gy., slty.
60 - 70	SLTST	95	dk.gy., calc., sil., m.hd./hd. sdy.
	SS	5	brn., clr., wh., subang./subrd., v.f.g., lse
70 - 80	SLTST	90	dk.gy., m.hd.
	SH	10	dk.gy., blk., calc.
80 - 90	SLTST	80	a.a.
	SH	20	a.a.
90 - 1500	SLTST	80	a.a.
	SH	20	a.a.
1500 - 10	SH	70	dk.gy., gy. slty., carb., bent., pyr., Bent., gy.
	SLTST	30	dk.gy., arg.
10 - 20	SH	60	dk.gy., slty., carb., bent., pyr., w. brn. Calc. frag. subang./subrd.
	SLTST	30	dk.gy., arg., sdy.
	SS	10	clr., amber, brn., v.f./f.g.



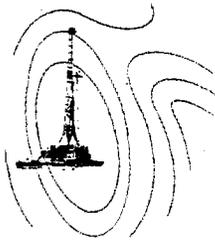
TX0 Cisco Springs, No. 2 Fed.

1520 - 30	SLTST	100	dk.gy., gy., sdy., m.hd. w. wh. & gy. Bent.
30 - 40	SLTST	90	a.a. w. wh. & gy. Bent.
	SS	10	clr., amber, v.f.g., lse.
40 - 50	SLTST	80	dk.gy., sdy.
	SH	20	dk.gy., carb., blk.
50 - 60	SH	60	dk.gy., carb., blk./plty., pyr.
	SLTST	30	dk.gy., carb., sdy.
	SS	10	gy., v.f.g., arg.
60 - 70	SLTST	50	dk.gy., carb., m.hd., sdy.
	SH	40	dk.gy., v. carb., pyr.
	SS	10	gy./dk.gy., carb.
70 - 80	SLTST	80	dk.gy., gy., brn.
	SH	15	dk.gy.
	SS	5	clr., v.f.g.
80 - 90	SLTST	90	dk.gy., gy., brn.
	SH	10	dk.gy.
90 - 1600	SLTST	80	dk.gy., gy. pyr.
	SH	20	dk.gy./blk.
1600 - 10	SH	100	dk.gy./blk. blk., v. carb., slty.
10 - 20	SH	100	a.a.
20 - 30	SH	100	a.a.
30 - 40	SH	60	dk.gy., slty., bent.
	SLTST	40	dk.gy.,
40 - 50	SH	70	dk.gy., gy., blk./plty., bent., carb.
	SLTST	30	dk.gy.
50 - 60	SS	70	clr., f./m.g., subrnd., well srt., clus. w. kao. void filler, <u>Fluor. 90% SS., Yel.-Gold, Fnt. Stm. and Bloom.</u>
	SH	30	dk.gy., blk.
60 - 70	SS	60	clr., f./mg., subrnd., calc., clus/lse., kao, void filler, <u>Fluor. a.a.</u>
	SH	40	dk.gy./blk.
70 - 80	SH	80	dk.gy./blk., blk. V.P.S.
	SLTST	15	dk.gy.
	SS	5	clr., wh., v.f./m.g., clus.
80 - 90	NO SAMPLE		mist up.
90 - 1700	SS	60	clr., lt.gy., gy., v.f./m.g., slty., frm./hrd.
	SLTST	40	dk.gy., sdy., blk., calc.
1700 - 10	SH	40	dk.gy., blk.
	SLTST	40	dk.gy./brn.gy., sdy., pyr
	SS	20	clr., lt.gy., v.f./m.g.
10 - 20	SH	50	dk.gy., gy.-brn.
	SLTST	40	gy.-brn., sdy.
	SS	10	clr., wh., f.g., rnd., Koa. cmt.



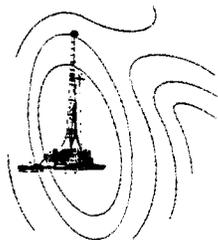
TXO Cisco Springs, No. 2 Fed.

1720 - 30	SH	70	gy.-brn., dk.gy.,
	SS	30	clr., wh., v.f./f.g., ang./rnd., lse.
30 - 40	SH	50	dk.gy., calc. inclus., slty., pyr.
	SS	50	clr., v.f./m.g., lse./calc. cemt., <u>Tr. Fluor., No Cut.</u>
40 - 50	SH	50	a.a.
	SS	50	clr., v.f./m.g., rnd., lse./frm., <u>Tr. Fluor., No Cut.</u>
50 - 60	SH	60	dk.gy./gy., brn.-gy., blk., slty., calc.,
	SS	40	clr., wh., v.f./f.g., w.s.lse. m.g., w. Kao. cmt.
60 - 70	NO SAMPLE		
70 - 80	SL	20	gy., sdy., blk.
	SH	60	dk.gy./brn.-gy.
	SS	20	clr., f./m.g.
80 - 90	SLTST	80	gy., arg., aren., pyr.
	SS	20	lt.gy., lt.brn., v.f./f.g., slty.
90 - 1800	SL	50	dk.gy., gy., aren., blk.
	SH	40	dk.gy., gy.-brn., pyr.
	SS	10	lt.gy./lt.brn., m.g.
1800 - 10	SH	90	gn., crm., gy./dk.gy., hd./frm., blk.
	SS	10	lt.gy., wh., f.g., subang./subvd., hrd.
10 - 20	SH	80	a.a.
	SS	20	lt.gn., wh., f.g., rnd., arg.
20 - 30	SH	90	lt.gn., wh., tan., dk.gy., gy., fltg., q.g's., blk.
	SS	10	v. lt.gn., wh., v.f./f.g., arg., rnd., frm./hrd.
30 - 40	NO SAMPLE		
40 - 50	SH	70	a.a.
	SS	30	clr., m./crs.g., rnd., w.s. f./m.g. cmt. ss.
50 - 60	SH	90	gn., dk.gy., lt.gn., crm., fltg. sd.gs., blk., hd.
	SS	10	lt.gy./wh., v.f./f.g., Kao. cmt., hrd.
60 - 70	SH	80	rd., gn. dk.gy., blk., fltg. sd. gs.
	SS	20	m.g., lse., f./m.g., cemt., rnd., arg.
70 - 80	SH	90	mar., rd., gn., blk., occ. fltg. sd. gs., hrd.
	SS	10	m.g., rnd., lse., w.s. wh., f./m.g., cemt. ss.
80 - 90	SH	70	gn., mar., rd., frm./hrd., blk.
	SS	30	gn., mar., rd., wh., arg., slty., ang., <u>Tr. fluor., No cut.</u>
90 - 1900	SLTST	90	gn., purp., mar., rd., blk., hrd., tr. calc. filled frac.
	SS	10	wh., gn., f.g., m.g., lse./cemt.,
1900 - 10	SH	80	gn., vd., gy., blk., fltg. sd. gs.
	SS	20	wh., lt.gn., gy. v.f./m.g., lse/cemt., arg.
10 - 20	SH	70	a.a.
	SS	30	clr., m./crs.g., rnd., lse/s.cmt.
20 - 30	SH	80	a.a. w. tr. ls., lt.tan., xln., arg., hrd.
	SS	20	clr./brn., wh., f.g., m./crs.g., ang., lse.
30 - 40	SH	80	gn., mar., rd., gy., blk., fltg. sd. gas.
	SS	20	clr., wh., lt.gy., f.g., ang./subrd., occ. lse.



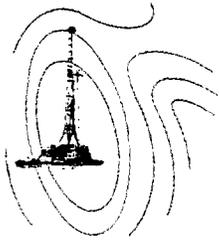
TXO Cisco Springs, No. 2 Fed.

1940 -	50	SH	90	a.a.
		SS	10	clr., wht., lt.gy., f./m.g., subang./subrd., kao. cmt.
50 -	60	SH	80	rd., gn., blk., slty., sdy., tr. ls.
		SS	20	clr., wh., f./crs.g., frm./lse.
60 -	70	SH	90	a.a.
				tr. ls., brn., sl. arg.
		SS	10	wh., clr., gy., gn., v.f./crs.g., ang./rnd., frm./lse.
70 -	80	SH	90	a.a.
		SS	10	a.a.
80 -	90	SH	80	a.a.
				tr. ls.
		SS	20	clr., m.g., f.g., lse./cmt., <u>Tr. Yel. Fluor., No Cut.</u>
90 -	2000	SH	80	gn., rd., gy., arg., aren., tr. brn. ls.
		SS	20	wh., f.g., rnd., m.g., <u>Tr. Yel. Fluor., Tr. Slow Yel. Cut.</u>
2000 -	10	SH	90	rd., gn., mar., wh., fltg. sd., tr. xln. Calc.
		SS	10	clr., wh., gy., f./m.g., lse./cmt. clus., Koa. cmt. <u>Tr. Fluor., No Cut.</u>
10 -	20	SH	100	rd., lt.gn., slty., tr. wh. ls.
20 -	30	SH	80	a.a.
		SS	20	wh., lt.gy., v.f./m.g., rnd./subang., <u>Tr. Fluor. No Cut.</u>
30 -	40	SH	90	a.a.
		SS	10	clr., f./m.g., ang., fri.-lse., <u>Tr. Fluor., No Cut.</u>
40 -	50	SH	90	a.a.
		SS	10	rd., wh., clr., ang., frm./s.lse.,
50 -	60	SH	90	rd., gn., mar., blk.
		SS	10	rd., lt.gn., v.f.g., arg.
60 -	70	SH	90	a.a.
		SS	10	a.a.
70 -	80	SH	90	rd., crm., gn., area., blk.
		SS	10	rd., gn., clr., wh., f./m.g., arg.
80 -	90	SH	80	a.a.
		SS	20	a.a.
90 -	2100	SH	90	a.a.
		SS	10	rd., gn., wh., calc.
2100 -	10	SH	90	rd., gy., aren., blk., tr. Calc.
		SS	10	wh., v.f./f.g., subang., frm./hrd.
10 -	20	SH	100	rd., gy., v. sdy., <u>Fluor., No Cut.</u>
20 -	30	SH	100	rd., lt.gn., gy., pty./biky., tr. ls., Calc.
30 -	40	SH	90	a.a., tr. mica., carb.
		SS	10	clr., wh., lt.rd., <u>Tr. Oil Stn., Tr. Yel. Fluor.</u>
40 -	50	SH	80	rd., brn.-rd., blk., gn., biky., mica.
		SS	20	clr., wh., rd., f.g., arg., <u>Tr. Oil Stn., Yel. Fluor.</u>



TX0 Cisco Springs, No. 2 Fed.

2150 - 60	SH	70	rd., brn.-rd., lt.gn., blk.
	SS	30	rd., wh., clr., f.m.g., subang., <u>Tr. Oil Stn.,</u> <u>Tr. Fluor.</u>
60 - 70	SH	90	brn.-rd., mar., lt.gn., lt.gy., blk., tr. Calc.
	SS	10	wh., lt.gy., clr., v.f./f.g., m.g., subang.-rnd., <u>Tr. Oil Stn., Tr. Fluor.</u>
70 - 80	SH	100	a.a.
80 - 90	SH	90	a.a.
	SS	10	wh., lt.rd., clr., v.f./f.g., rnd./subang., <u>Tr. Oil Stn., Fluor., No Cut.</u>
90 - 2200	SH	90	rd., brn.-rd., lt.gy., crm., lt.gn., aren., blk., <u>Tr. Oil Stn., Fluor., No Cut.</u>
	SS	10	lt.gy., clr., wh., v.f./f.g., ang./rnd.,
2200 - 10	SH	70	gy., dk.gy., rd.-brn., lt.gn., aren., blk.,
	SS	30	wh., clr., f./v.f.g., subrnd., frm./fri., <u>Tr. Oil</u> <u>Stn., Mot. Fluor., No Cut.</u>
10 - 20	SH	90	a.a.
	SS	10	wh., v.f./f.g., subrnd., frm./fri., <u>Tr. Fluor.,</u> <u>No Cut.</u>
20 - 30	NO	SAMPLE	
30 - 40	SH	90	rd., lt.gn., lt.gy., blk.
	SS	10	wh., lt.rd., v.f./f.g., subrnd., occ. Kao. cmt.
40 - 50	SH	80	a.a.
	SS	20	wh., lt.gy., gy., lt.rd., v.f./f.g., subrnd., <u>Tr. Fluor., No Cut.</u>
50 - 60	SH	70	lt.gn., mar., brn.-rd., rd., crm., blk.
	SS	30	gy., clr., wh., v.f./f.g., arg., slty., <u>Tr. Oil Stn. & Fluor., No Cut.</u>
60 - 70	SH	70	wh., lt.gn., rd., yel., slty., aren., blk.,
	SS	30	clr., wh., lt.gy., v.f./f.g., m.g., subrnd., <u>Tr. Fluor., No Cut.</u>
70 - 80	SH	70	a.a.
	SS	30	gy., lt.gy., wh., v.f./f.g., arg., <u>Tr. Oil Stn.,</u> <u>No Cut.</u>
80 - 90	SH	80	a.a.
	SS	20	a.a. <u>Tr. Oil Stn., Tr. Fluor., No Cut.</u>
90 - 2300	SH	90	rd., brn., lt.gn., wh., blk., aren.,
	SS	10	wh., lt.gy., pale rd., v.f./f.g.,
2300 - 10	SH	90	gy., rd., gn., blk.
	SS	10	wh., clr., v.f.g., subrnd.,
10 - 20	SH	80	gy., dk.gy., rd., gn., blk., tr. ls., microxl., hrd.
	SS	20	lt.gy./wh., v.f.g.,
20 - 30	SH	90	dk.gy., gn., rd., mar., yel., blk.
	SS	10	clr., wh., lt.gy., v.f./f.g., tr. m.g., lse.
30 - 40	SH	80	dk.gy., gn., rd., mar., plty./blk.
	SS	20	wh., clr., v.f./f.g., m.g., subrnd., lse. <u>Tr. Fluor., No Cut.</u>

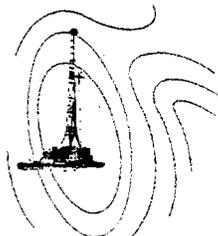


Clarence L. Harr
Consulting Petroleum Geologist

DEVIATION RECORD

TXO PRODUCTION CORP.
Cisco Springs No. 2
NE NW NW 23-T20S-R23E
Grand County, Utah

<u>DEPTH</u>	<u>DEVIATION</u>
487	2-1/2°
817	4°
1113	5°
1367	4°
2343	4°

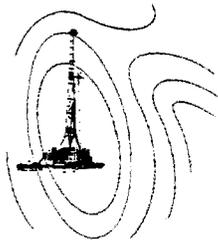


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BIT RECORD

TXO PRODUCTION CORP.
Cisco Springs No. 2
NE NW NW 23-T20S-R23E
Grand County, Utah

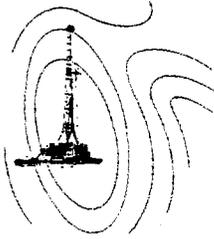
Bit No.	Size	Make	Type	Depth Out	Feet	Hours	Ft/Hr
1	12-1/4"			200	200	15	13.3
2	7-7/8"	Security	M44N	1297	1097	39	2.8
3	7-7/8"	Security	S86F	2343	1046	26.5	39.5



WELL CHRONOLOGY

TXO PRODUCTION CORP.
Cisco Springs No. 2
NE NW NW 23-T20-S-R23E
Grand County, Utah

Date 1983	Midnight Depth	Ft/ Day	Daily Operations
12-1	40	40	Moved in and rigged up - Drl. rat hole - Rig service - WO mist pump - Reamed rat hole - Mud up (rat hole sluffing) - Rig up surface bit - Spud 7:30 PM - Drl. 12 $\frac{1}{4}$ " surface hole - Drl. 40' - Rig up and reamed rat hole with mud.
12-2	200	160	Build mud volume - Reaming rat hole - Ran sleeve - Picked up 12 $\frac{1}{4}$ " surface bit - Rig service - Drl. surface with spud mud - P.O.O.H. - Rig up and ran 8 5/8" surface to 195' K.B. - Ran cement - Rig down cementers and nipple up - W.O.C. - Nipple up.
12-3	211	11	Nipple up B.O.P. - Nipple blooey line - Test B.O.P. - Rig up and drill mouse hole - T.I.H. with D.C.s - Tag cement @ 157' - Blow hole - Dr. cemt. - P.O.O.H. - Pick up stabilizers and short D.C. - Pick up B.H.A. - T.I.H. - Dry up hole.
12-4	660	449	Drl. - Service rig - Drl. - Sur. - Drl. - P.O.O.H. minus 3 D.C. - W.O.F.T. - Rig up overshot and T.I.H. - Fishing - P.O.O.H. w. 3 D.C. - Lay down fish and overshot - T.I.H. w. Bit #2 - Drl.
12-5	1267	607	Drl. - Sur. - Dr. - Blow hole - Sur. - Drl. - Service Rig.
12-6	1937	670	Drl. - Blow hole - P.O.O.H. - Change out B.H.A. - Change rotating rubber - T.I.H. - Drl. - Sur. - Drl. - Mist up - Drl. w. mist.
12-7	2343	406	Drl. - Blow hole - Sur. - Short trip (12 STDS.) - Pulled tight hole - making water - reaming to bottom - Mix L.C.M. and mud up - reaming to bottom.



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WELL CHRONOLOGY (cont'd)

TXO PRODUCTION CORP.
Cisco Springs No. 2
NE NW NW 23-T20-S-R23E
Grand County, Utah

Date	Midnight	Ft/	Daily
1983	Depth	Day	Operations
12-8	2343	0	Reaming to bottom - Circ. - short trip. - Rig up for loggers - Logging - lay down D.C. - T.I.H. open-ended - prep. to plug and abandoned.