

**FILE NOTATIONS**

Entered in NID File ✓.....  
Location Map Finned .....  
Card Indexed ✓.....

Checked by Chief .....  
Approval Letter .....  
Disapproval Letter .....

**COMPLETION DATA:**

Date Well Completed 1/8/80

Location Inspected

CR..... US..... PA..... ✓

State or Fee Land .....

**LOGS FILED**

Driller's Log ✓.....  
Electric Logs (No.) ✓.....

E..... I..... Dual I Lat..... GR-N.....

BHC Sonic GR..... Lat..... Mi-L.....

CBLog..... CCLog..... Others...

Any questions concerning the status, etc. of this well - contact:  
Pruitt & Gushoe - 512.

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  
**Cisco Drilling & Development Co.**

3. ADDRESS OF OPERATOR  
**419 Whalley Ave., New Haven, Conn. 06511**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface **NE. NW. Sec. 26, T 20S, R 23E, S.L.M.**  
 At proposed prod. zone **1722' fr. W-line and 947' fr. N-line**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 6 miles NE of Cisco, Utah**

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
**947'**

16. NO. OF ACRES IN LEASE  
**1360**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**160 acres**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**1/2 mile**

19. PROPOSED DEPTH  
**2500'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**4828' grd.; 4838' K.B.**

22. APPROX. DATE WORK WILL START\*  
**Jan. 15, 1979**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9 3/4"	7"	20.00	150'	75 sks cement
6 1/2"	4 1/2"	10.50	thru production zone and cemented to 200' above Kd.	

It is planned to drill a well at the above location to test the gas production possibilities of the sands in the Dakota, Cedar Mt., and Morrison formations. The well will be drilled to a point which is near the top of the Entrada formation or to commercial production, whichever is at the lesser depth. The well will be drilled with rotary tools, using air for circulation. The surface casing will be set at about 150 ft., and cemented with returns to the surface. A blowout preventer with hydraulically operated blind and pipe rams will be installed on top of the surface casing; and a rotating head will be used on top of the blowout preventer. Fill and kill lines (2") will be connected below the blind rams. Any gas encountered will be flared at the end of the blowout line, and roughly checked for volume thru 2" line after the pipe rams have been closed. A float valve will be used in the bottom drill collar at all times. A prognosis for the well is attached.

When a directional program is proposed, 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 *H. How Gingley* TITLE **Consulting Geologist** DATE **Dec. 7, 1978**

(This space for Federal or State office use)  
 PERMIT NO. **43-019-30483** APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

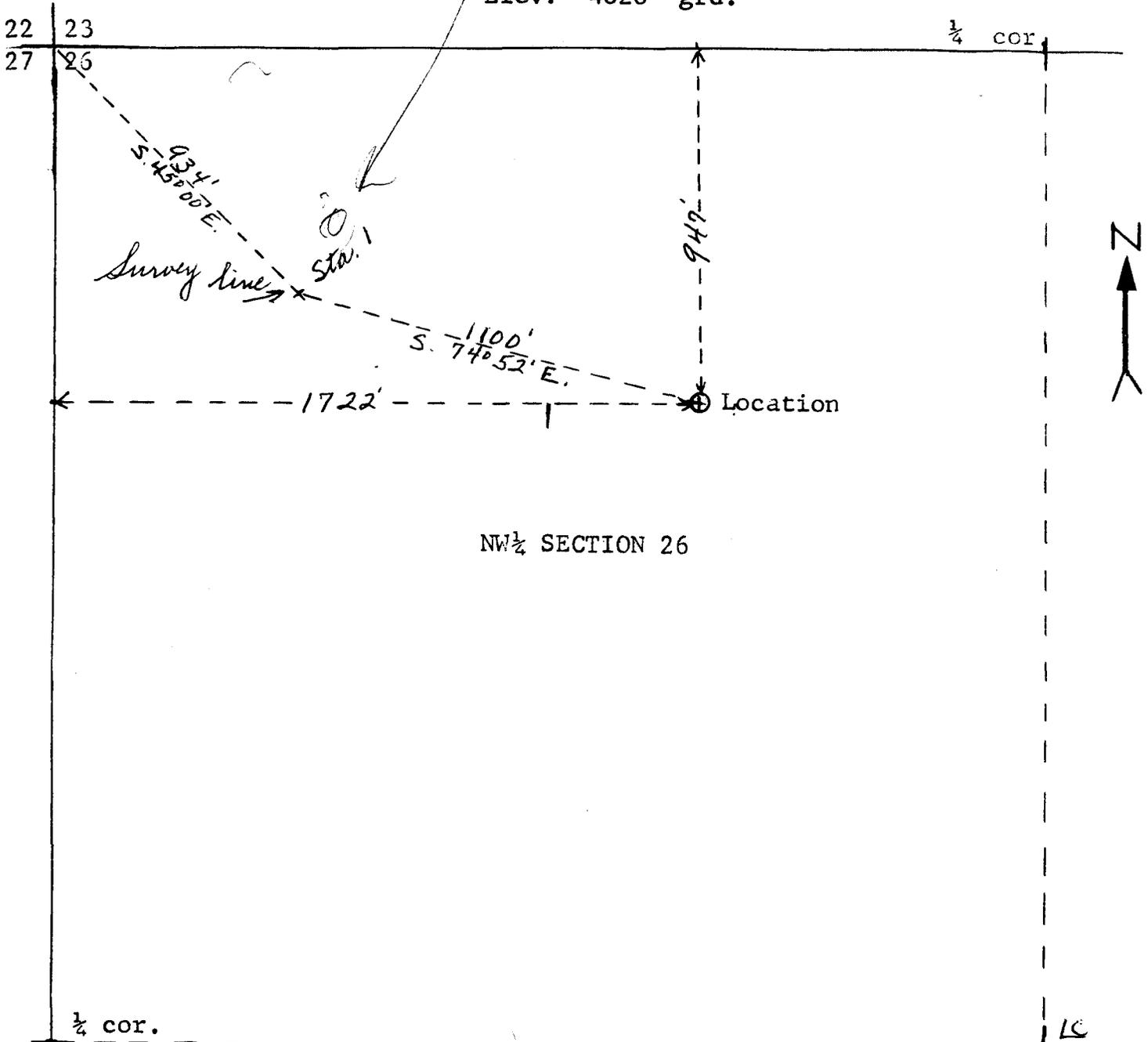
LOCATION PLAT FOR  
CISCO DRILLING & DEVELOPMENT CO.

CISCO #5 WELL

NE. NW. SEC. 26-20S-23E

(1722' fr. W-line and 947' fr. N-line)

Elev: 4828' grd.



NW $\frac{1}{4}$  SECTION 26

$\frac{1}{4}$  cor.

Ref. pts. are 150' N-S-E-W

Scale: 1 in. = 400 ft.  
Date: Dec. 7, 1978

I, Sherman D. Gardner, do hereby certify that this plat was plotted from notes of a field survey made under my direct responsibility, supervision and checking on November 23, 1978.

Sherman D. Gardner  
Registered Land Surveyor  
State of Utah #1556

Plat No. 1

FROM: : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. 417245

OPERATOR: Cisco Drilling & Development Co

WELL NO. 5

LOCATION: 1/2 NE 1/4 NW 1/4 sec. 21, T. 20S, R. 23E, S2M

Grand County, Utah

1. Stratigraphy:

operator predicted tops reasonable

2. Fresh Water:

none expected

3. Leasable Minerals:

gas/oil in morrison, possibly Dakota, Cedar Mt or Entrada

4. Additional Logs Needed:

adequate

5. Potential Geologic Hazards:

none expected

6. References and Remarks:

Signature: [Signature]

Date: 1-5-78

SURFACE USE & OPERATIONS PLAN  
FOR  
CISCO DRILLING & DEVELOPMENT CO.  
CISCO #5 WELL

1. Location: A survey plat showing the location of the proposed well site is attached. (See Plat No. 1.) Map No. 1 shows the location of the well site in relation to the roads and topography in the area. The access road is an old secondary road or trail along the east edge of Cisco Mesa which connects with the main Cisco Mesa road at the north end of the Mesa, at a point about 6 miles north west of the east Cisco exit from I-70.
2. Planned Access Road: (See 1 above) The road along the east edge of Cisco Mesa ends at a point near the NW. corner of Section 26. This road will have to be extended about  $\frac{1}{2}$  mile to the well site. This extension would be over fairly even terrain along the edge of the mesa. It will be about 14 ft. wide and will require no cuts or fills. The sage brush and shad scale along the road way will be pushed aside, and a very shallow cut with a blade will be made.
3. Location of Existing Wells: See attached map.
4. Location of Production Equipment: A plan for the anticipated production equipment, if the well is successful, is submitted on Plat No. 2. When production ceases, this equipment will be removed and the land surface graded, levelled, and reseeded.
5. Water Supply: Since the proposed well is to be drilled with air for circulation, very little water will be required. The water needed will be hauled to the location by truck from Cisco Springs. The spring is about 4 miles from the well site.
6. Road Material: No additional road material, gravel, sand, or culverts will be required.
7. Waste Disposal: A reserve and burn pit will be constructed at the well site as shown on Plat No. 3. All excess water, mud, and drill cuttings will be deposited into the reserve pit. Burnable material and garbage will be put into the burn pit, which will be fenced to prevent the spreading of debris

by the wind. A toilet will be furnished for the human waste. All pits will be folded-in and covered as soon as feasible after cessation of drilling operations. The approximate dimensions of the reserve pit are shown on Plat No. 3.

8. Camp Facilities and Airstrips: No camp facilities other than two or three house trailers at the well site will be needed. No airstrips will be required.
9. Well Site Layout: A plan for the drilling equipment layout required for the drilling of the proposed well is shown on Plat No. 3. The approximate dimensions of the site, direction of drill rig setting, reserve pit location with dimensions, and equipment arrangements are shown on this plat. The site is on a level point near the east edge of the mesa and will require very little construction work. The surface is gravel and has very little vegetation. The reserve pit will be placed on the north side of the site in a natural depression; and the north end will be blocked. Since the site is quite level, no cuts or fills will be required; and very little disturbance to the surface will be done. A small spot for the rig and mud tanks will be levelled.
10. Restoration: After drilling operations have been concluded, and the equipment removed, the well site will be cleaned, rat hole and mouse hole filled-in; the cellar filled in around well marker or well head; the location levelled or restored to normal; the top soil spread back over the location and reseeded if the well is unsuccessful. If the well is completed for production, the location will be cleaned and levelled for the production equipment; the pits will be folded-in and levelled. This work will be conducted as soon as feasible, hopefully within 30 days after the drilling equipment has been removed.
11. Land Description: (See No. 9 above) Since the well site is on a fairly level point with gravel and very little vegetation on the surface, very little disturbance will be required. A natural depression on the north side will be used for the reserve pit.

12. Representative: The operator's representative at the well site will probably be W. Don Quigley, Suite 440, 57 West South Temple Bldg., Salt Lake City, Utah. The location and restoration work will be accomplished by contractors working for the operator.
13. Certification: I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access route; that I am familiar with the conditions which presently exist; that statements made in this plan are, to the best of my knowledge, true and correct; and that work associated with the operations proposed herein will be performed by Cisco Drilling & Development Co. in conformity with this plan and terms and conditions under which it is approved.

Date:

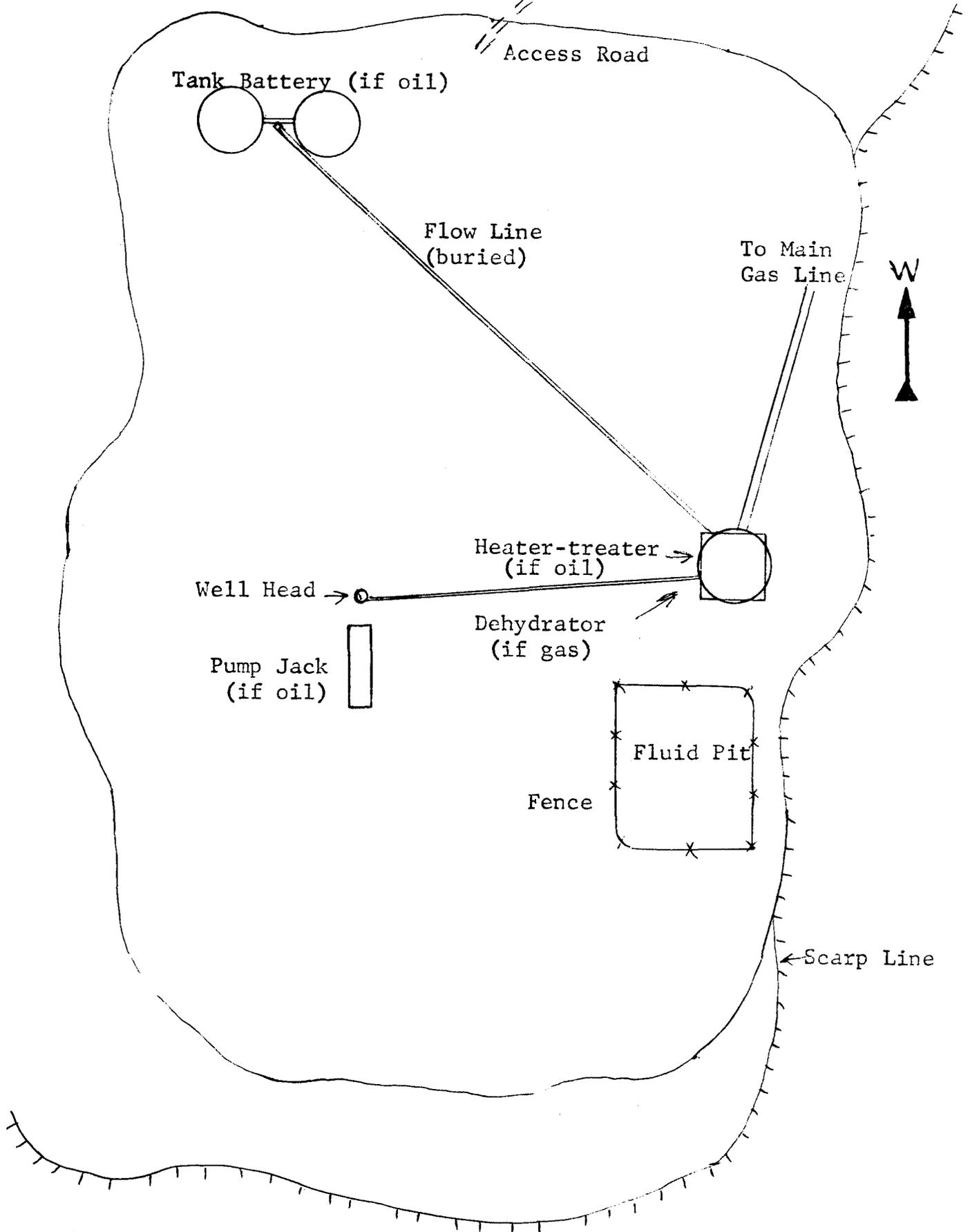
Dec. 7, 1978

W. Don Quigley  
W. Don Quigley

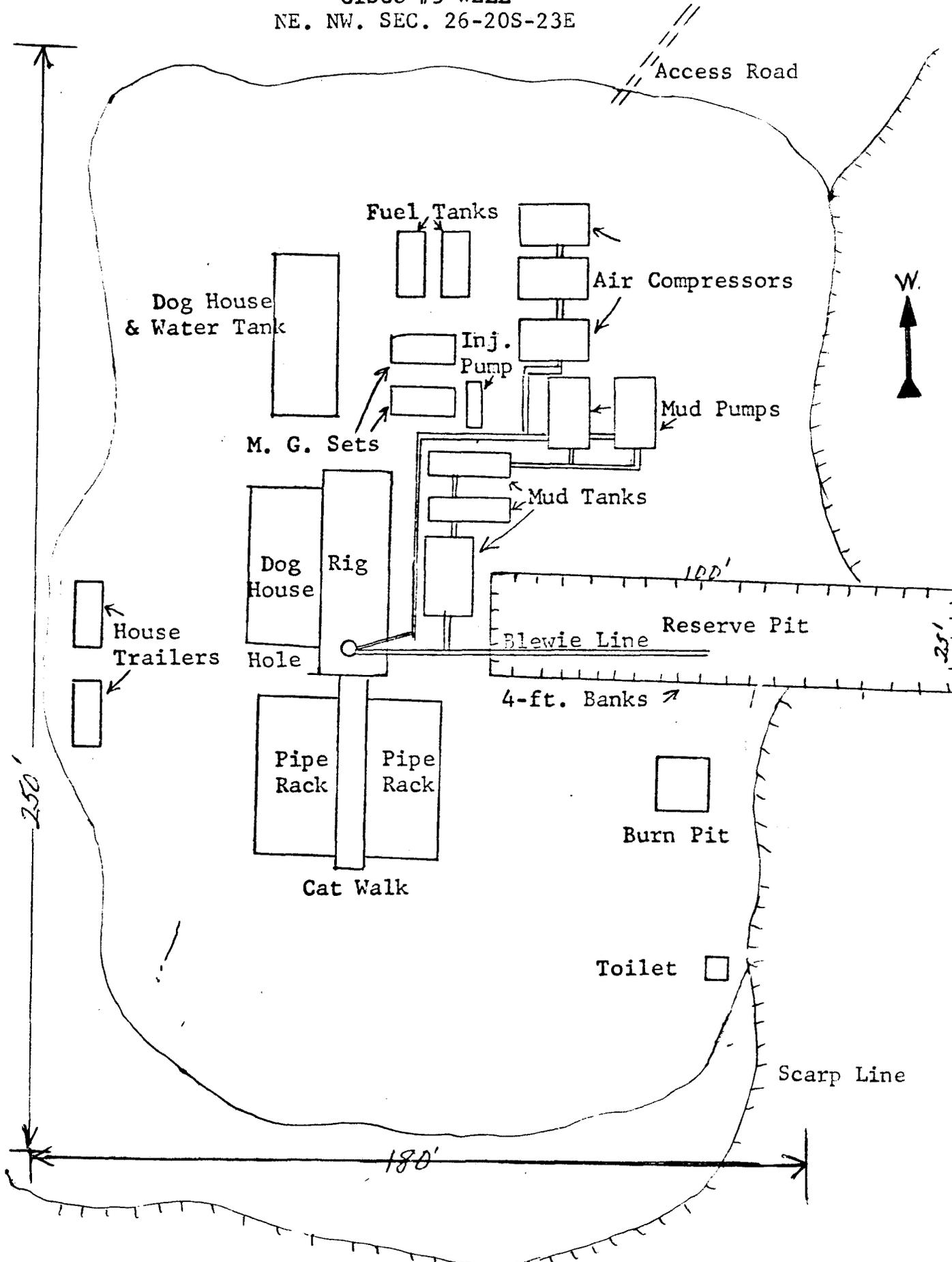
PLAN FOR PRODUCTION EQUIPMENT  
CISCO DRILLING & DEVELOPMENT CO.

CISCO #5 WELL

NE. NW. SEC. 26-20S-23E



LOCATION PLAN FOR  
 CISCO DRILLING & DEVELOPMENT CO.  
 CISCO #5 WELL  
 NE. NW. SEC. 26-20S-23E



Scale: 1 in. = approx. 30 ft.

WELL CONTROL EQUIPMENT FOR  
CISCO DRILLING & DEVELOPMENT CO.  
CISCO #5 WELL  
NE. NW. SEC. 26-20S-23E  
GRAND COUNTY, UTAH

The following control equipment is planned for the above designated well: (See attached diagram)

1. Surface Casing:

- A. Hole size for surface casing is 9 3/4"
- B. Setting depth for surface casing is approx. 150 ft.
- C. Casing specs. are: 7 in. O.D., K-55, 20,000# $\bar{r}$ , 3 rd. thread, R-3 new or used.
- D. Anticipated pressure at setting depth is approx. 20 lbs.
- E. Casing will be run using three centralizers and a guide shoe, and will be cemented with 75 sks of cement with returns to the surface.
- F. Top of the casing will be near ground level.

2. Casing Head:

Flange size: 10", A.P.I. Pressure rating: 2000# $\bar{r}$  W.P., Series 500; Cameron, OCT, or equivalent; new or used; equipped w/two 2" ports with nipples and 2", 2000# $\bar{r}$  W.P. ball or plug valves. Casing head and valves set above ground level. (A flange only may be used on top of the casing, if the B.O.P. is equipped with 2" outlets below the blind rams.)

3. Intermediate Casing:

None

4. Blowout Preventors:

- A. Double rams; hydraulic; one set of blind rams; one set of rams for 3 1/2" or 4" drill pipe; 10" flange; 2000# or greater W.P.; Series 900; equipped with mechanical wheels and rod for back-up; set on top of casing head flange and securely bolted down, and pressure tested for leaks up to 2000# p.s.i. A hydraulically operated hy-drill may be used in place of the above B.O.P., if equipped with 2" outlets below the rams.
- B. Rotating Head: Shaffer, Grants or equivalent; set on top of blowout preventor and bolted securely; complete with kelly drive, pressure lubricator; 3 1/2" or 4" rubber for

2000# W.P.; need not have hydril assembly on bottom, if a separate hydril or B.O.P. is used.

- C. **Fill and Kill Lines:** The fill and kill lines (2" tubing or heavy duty line pipe) are to be connected thru the 2" valves on the casing head and thru a manifold to permit ready switching from the fill to kill lines.

5. Auxillary Equipment:

A float valve is to be used in the bottom drill collar at all times. A safety valve that can be used in the drill pipe will be kept within easy reach on the rig floor at all times.

6. Anticipated Pressures:

The shut-in pressures of the Dakota, Cedar Mountain, and Morrison formations at depths of 2000' to 3000' in the area have been measured at about 500# to 800# maximum.

7. Drilling Fluids:

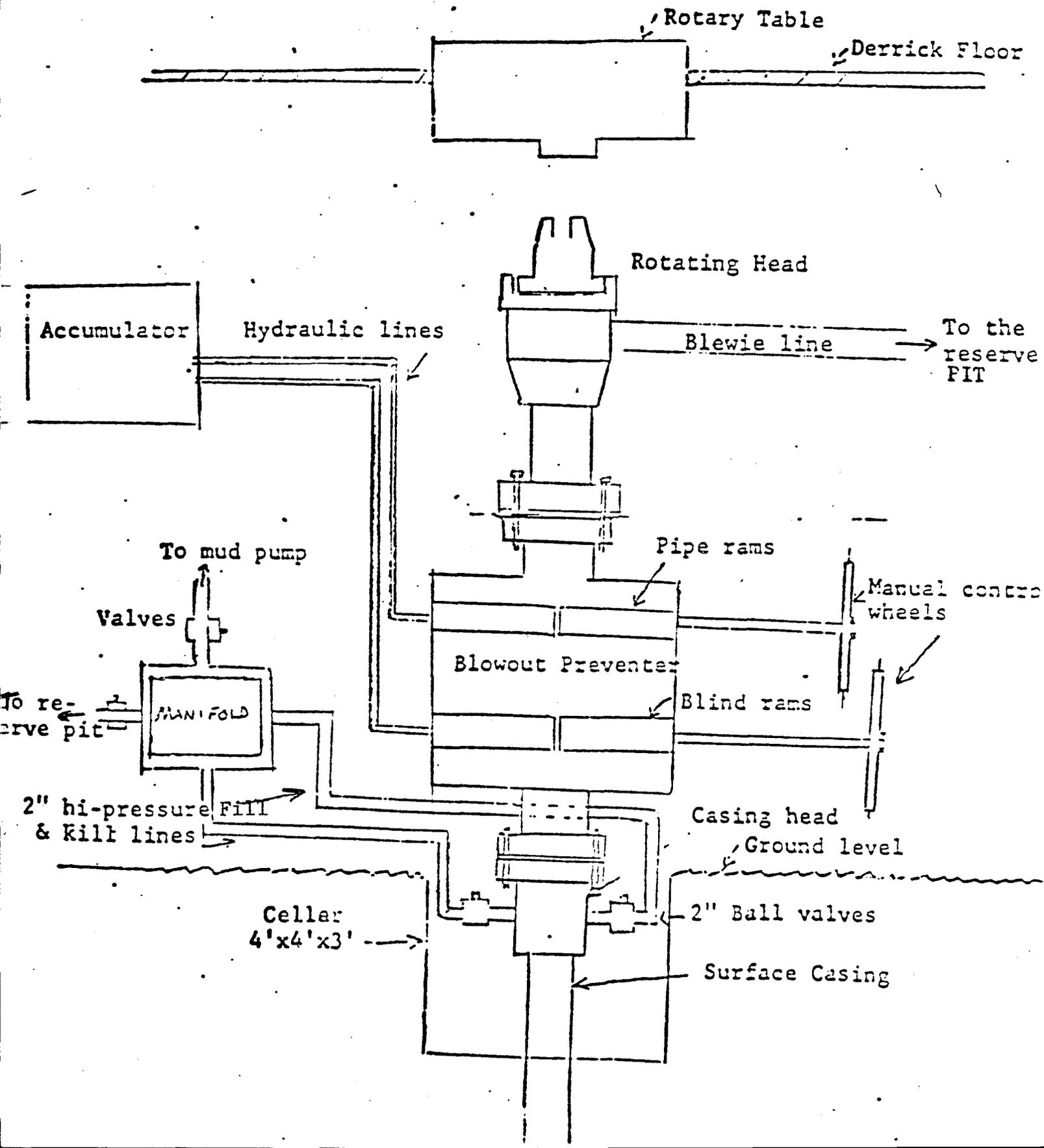
Air will be used to drill the subject well until water is encountered, then air-soap-water mist will be used to drill the well deeper. In case of excessive caving problems, it may be necessary to convert to mud.

8. Production Casing:

- A. Hole size for production casing will be 5½".  
B. Approx. setting depth will be about 2300'.  
C. Casing Specs. are: 4½" O.D.; K-55; 10.50#; 8-rd thread; R-3, new.  
D. If good production is obtained, the casing will be run with a guide shoe at the bottom and about six centralizers and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will be perforated, 2 3/8" O.D. tubing will be run, and the well completed conventionally. In the event the production is small, it may be desirable to minimize the damage to the formation by keeping all mud and cement off the formation. In this case the procedure outlined below will be used.  
E. Casing will be run with about six centralizers and a cement basket with DV tool set above the production zone.

There will be sufficient casing to extend thru the production zone below the basket with a blind guide shoe on the bottom. The casing will be cemented above the packer with about 85 sks of cement (sufficient to cement thru the Dakota formation). The cement will be allowed to cure at least 48 hrs. The plug can then be drilled out and the casing perforated below the DV tool. Two inch tubing will be run and secured in the tubing head prior to perforating.

SCHEMATIC DIAGRAM OF  
CONTROL EQUIPMENT FOR  
CISCO DRILLING & DEVELOPMENT CO.  
CISCO #5 WELL  
NE. NW. SEC. 26 -20S-23E



United States Department of the Interior  
Geological Survey  
8440 Federal Building  
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-17245

Operator Cisco Drilling & Development Co.

Well No. 5

Location 722' FMI & 947' FMI Sec. 26 T. 20S R. 23E

County Grand State Utah Field Cisco Springs

Status: Surface Ownership Public Minerals Federal

Joint Field Inspection Date May 15, 1979

Participants and Organizations:

George Diwachak U.S. Geological Survey, Salt Lake City

Bob Kershaw Bureau of Land Management

Beth Coker Bureau of Land Management

W. Don Quigley Consultant for Cisco D&D Company

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Related Environmental Analyses and References:

- (1) Unit Resource Analysis, Book Mountain Planning Unit, BLM, Moab, Utah
- (2)

Analysis Prepared By: George Diwachak  
Environmental Scientist  
Salt Lake City, Utah

Date: May 18, 1979

Noted - G. Diwachak

*Pad 158 x 250  
pit 25 x 100  
5/10 mi 1st access  
• Flow line not uncl.  
20' (crown) + 5' (total) sand  
Stockpile topsoil  
2 ac  
mitigation: Pg 6  
(3) a-b*

Proposed Action:

On February 23, 1979, Cisco Drilling and Development Company filed an Application for Permit to Drill the No. 5 development well, a 2500-foot gas test of the Dakota, Cedar Mountain, and Morrison Formations; located at an elevation of 4828 ft. in the NE/4 NW/4 Section 26, T. 20S., R. 23E. on Federal mineral lands and Public surface; lease No. U-17245. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface Plan are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming. The 13-Point Surface Protection Plan is on file in the District Office in Salt Lake City.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 180 ft. wide by 250 ft. long and a reserve pit 25 ft. by 100 ft. A new access road would be bladed 20 ft. wide by 0.5 mile long. The operator proposes to construct production facilities on disturbed area of the proposed drill pad. If production is established, plans for a gas flow line would be submitted to the appropriate agencies for approval. The operator would also upgrade the access route to a 20 ft. crowned and ditched road. The anticipated starting date is upon approval and duration of drilling activities would be about 7 days.

Location and Natural Setting:

The proposed drillsite is approximately 6 miles northeast of Cisco, Utah, the nearest town. A poor road runs to within 0.5 miles of the location. This well is in the Cisco Springs field.

Topography:

The location is on Cisco Mesa, a flat to gently undulating uplifted structure in the Cisco Desert region. The pad is positioned near the northern edge of a point incised by drainages on the south and east. The operator agreed to fit the location to the terrain avoiding filling of low spots. Adequate space is available to safely support a drilling rig.

Geology:

The surface geology is Mancos shale. The soil is gravelly sandy clay. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drillpipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation. The operator plans to use air drilling methods which would reduce the potential for lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area range from a gravelly sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 2 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

#### Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

#### Precipitation:

Annual rain fall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occurring predominately from southwest to northeast. Air mass inversions are rare. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

#### Surface Water Hydrology:

Drainage from the location would be toward Danish Wash, a non-perennial tributary of the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the

problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

#### Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

#### Vegetation:

Location vegetation consists of a sparse covering of shadscale, milkvetch, and grasses.

Plants in the area are of the salt-desert-shrub types grading to the pinon-juniper association.

Proposed action would remove about 2 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

#### Wildlife:

The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

An animal and plant inventory has been made by the BLM. No endangered plants or animals are known to inhabit the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit (06-01). This Environmental Assessment Record was compiled by the Bureau of Land

Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

#### Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

#### Alternative to the Proposed Action:

(1) Not approving the proposed permit-The oil and gas lease grants the lessee exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of oil and gas should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

(3) Drilling should be allowed provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator.

- (a) Due to the steep edges of the terrain near the north edge of the drill pad, a 5-10 ft. buffer zone of ground should remain undisturbed to insure pad integrity and provide for safety of operations. Under no circumstances should any excavated material be pushed down slope.
- (b) The end of the blooey line should be misted with water in the event that any extreme dust conditions are en-

(b) countered during air drilling.

Adverse Environmental Effects Which Cannot Be Avoided:

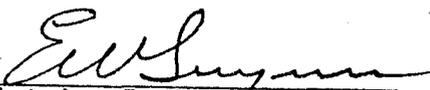
Surface disturbance and removal of vegetation from approximately 2 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in the Colorado River. The potential for pollution to Danish Wash would exist through leaks and spills.

Determination:

This requested action ~~does~~ does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2)(C).

JUN 05 1979

Date

  
 District Engineer  
 U.S. Geological Survey  
 Conservation Division  
 Oil and Gas Operations  
 Salt Lake City District

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

\*\* FILE NOTATIONS \*\*

Date: Dec. 27  
Operator: Cisco Drilling & Dev.  
Well No: Cisco Fed. #35  
Location: Sec. 26 T. 20S R. 23E County: Grand

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API NUMBER: 43-019-30483

CHECKED BY:

Administrative Assistant AW

Remarks: No other wells - Sec. 26 -

Petroleum Engineer \_\_\_\_\_

Remarks:

Director \_\_\_\_\_

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. 102-5  Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site

O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple

Salt Lake City, Utah 84116

(801) 533-5771

December 27, 1978

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

CLEON B. FEIGHT  
*Director*

Cisco Drilling & Development  
419 Whalley Avenue  
New Haven, Connecticut 06511

Re: Well No. Cisco Federal #5,  
Sec. 26, T. 20 S, R. 23 E,  
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5.

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

PATRICK L. DRISCOLL - Consultant  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

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 43-019-30483.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

cc: U.S. Geological Survey



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

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THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

June 26, 1979

Cisco Drilling & Development Company  
419 Whalley Ave.  
New Haven, Connecticut 06511

Re: Well No. Federal Cisco #2  
Sec. 27, T. 20S, R. 23E,  
Grand County, Utah

*expecting  
to drill well  
in about  
2 wks.*

Well No. Federal Cisco #5 <sup>APPR.</sup> (12-27-78)  
Sec. 26, T. 20S, R. 23E,  
Grand County, Utah

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Kathy Avila*

KATHY AVILA  
RECORDS CLERK

July 9 ,1979

MEMO TO FILE:

Re: Cisco Drilling & Development  
Well No. Federal #5  
Sec. 26, T. 20S, R. 23E,  
Grand County, Utah

According to a telephone conversation with Cisco Dr. on the above date,  
they are expecting to drill this location in about two weeks.

KATHY AVILA  
RECORDS CLERK

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Cisco Drilling and Development Company

WELL NAME: Federal Cisco #5

SECTION 26 NE NW TOWNSHIP 20S RANGE 23E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG THE ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 2500'

CASING PROGRAM:

8 5/8 " @ 150'  
7 7/8" openhole TD

FORMATION TOPS:

Water	2200'
Dakota	1800'
Water	18 - 60
Salt Wash	2360'
Summerville	2450'

PLUGS SET AS FOLLOWS:

#1	2370' - 2170'	200' plug
#2	1800' - 1600'	200' plug
#3	200' - 100'	100' plug

10 sx cement at surface

DATE January 8, 1980

SIGNED M. J. Minder

cc: USGS

PROGNOSIS FOR  
CISCO DRILLING & DEVELOPMENT CO.  
CISCO #5 WELL

Location: NE. NW. Sec. 26, T 20S., R 23E., S.L.M., Grand County, Utah (1722' from W-line and 947' from N-line).

Elevation: 4828' grd.; 4838' K.B.

Surface Casing: 150' of 7", 20.00#, K-55, R-3 casing set and cemented with 75 sks cement w/3% CaCl; with returns to the surface. The surface hole, 9 3/4", will be drilled to 150 ft. K.B. and will be no more than 1° in deviation.

Expected Formation Tops:

<u>Formation</u>	<u>Depth to Top</u>	<u>Thickness</u>	<u>Datum</u>
Mancos	Surface	1650'	4838' K.B.
Dakota	1650'	80'	3188'
Cedar Mountain	1730'	100'	3108'
Morrison (Brushy B.)	1830'	225'	3008'
(Salt Wash)	2055'	250'	2783'
Curtis-Summerville	2305'	75'	2533'
Entrada	2380'	—	2458'
Total Depth	2450'		

1. It is planned to drill a 9 3/4" surface hole for the surface casing down to a depth of about 150 ft. and set 7-inch casing with approx. 75 sks of cement with returns to the surface. A casing head or flange will be mounted on top of the surface casing and a blowout preventer with blind and pipe rams (hydraulic) will be mounted on the casing head. A rotating head will then be mounted on top of the blowout preventer. A blewie line, at least 100 ft. long, will then be attached to the rotating head and extended into the reserve pit.
2. A 6 1/2" hole will then be drilled below the surface casing, using air for circulation. A flare will be maintained at the end of the blewie line while drilling below 1200'. This will insure that no gas will be missed. The air drilling will also minimize the damage to the hydrocarbon reservoir.

3. Samples of the cuttings will begin at 1200'. 30-ft. samples will be taken from 1200' to 1600', and then 10-ft. samples will be taken from 1600' to total depth.
4. It is planned to drill the well to a depth which is approximately 50 feet below the top of the Entrada formation unless good commercial flow of gas is obtained above this depth.
5. If a high gas flow (several million cubic feet) and/or when the total depth of the well is reached, electric logs will be run. Prior to running logs, high viscosity mud (not less than 100 vis.) will be pumped into the hole to provide control of the gas and to provide a conductive medium for the logs. A dual-induction-laterolog will be run from bottom to the top of the hole, and a gamma-density and compensated neutron porosity log will be run from the bottom to a point which is 150' above the top of the Dakota formation.
6. If good production (over 750 MCF) is obtained, 4½" O.D., 10.50#, K-55, R-3 new casing will be run and cemented conventionally with sufficient R.F.C. cement to cover 200 ft. above the top of the Dakota formation. The production zone will then be perforated, 2 3/8" O.D. tubing run, and completed conventionally.
7. It is anticipated that the drilling of the well will require less than one week.

*W. Don Quigley*  
W. Don Quigley  
Consulting Geologist  
Salt Lake City, Utah

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

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  
Cisco Drilling & Development, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 6059 Hamden, Connecticut 06517

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 26, T.20 S., R.23 E., S.L.M.  
1,722' fwl and 947' fnl  
At top prod. Interval reported below Same as above  
At total depth Same as above

14. PERMIT NO. - 30483 DATE ISSUED

15. DATE SPUDDED 12/31/80 16. DATE T.D. REACHED 1/7/80 17. DATE COMPLE. (Ready to prod.) N/A 18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4,828' (GR) and 4,838' (RT) 19. ELEV. CASINGHEAD 4,828'

20. TOTAL DEPTH, MD & TVD 2500 ft. MD 21. PLUG, BACK T.D., MD & TVD N/A 22. IF MULTIPLE COMPLE., HOW MANY\* N/A 23. INTERVALS DRILLED BY ROTARY TOOLS 0' to 2,500' CABLE TOOLS N/A

24. PRODUCING INTERVAL(S), OF THIS COMPLETION: TOP, BOTTOM, NAME (MD AND TVD)\* N/A 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction-Laterolog & Compensated Neutron Formation Density 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
(Surface) 8 5/8"	24	200 ft.	7 7/8"	Cemented w>Returns to Surface	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
N/A				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A		

31. PERFORATION RECORD (Interval, size and number) N/A

32. N/A ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.\* N/A PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROB'N. FOR TEST PERIOD	OIL - BBL.	GAS - MCF.	WATER - BBL.	GAS-OIL RATIO

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

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

SIGNED Robert L. Kirgan TITLE Geologist



FEB 19 1980

DIVISION OF OIL, GAS & MINING

\*(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	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
Dakota Sandstone	1,766'	1,834'	No Drill Stem test was performed	Dakota Sandstone	1,766 ft.	
Cedar Mountain Formation	1,834'	1,900'		Cedar Mountain Formation	1,834 ft.	
Entrada Sandstone	2,310	--		Morrison Formation	1,900 ft.	
				Summerville/Curtis Formations	2,310 ft.	
				Entrada Sandstone	2,368 ft.	

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION TEST, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

38. GEOLOGIC MARKERS

No Vertical Deviation Log was run.

**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 Hole

2. NAME OF OPERATOR  
Cisco Drilling & Development, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 6059, Hamden, Connecticut 06517

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1,722' fwl and 947' fnl  
AT SURFACE: NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 26, T.20S., R.23 E., SLM  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

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 checked="" type="checkbox"/>	<input type="checkbox"/>
(other) _____	

**APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING**  
DATE: 3/10/80  
BY: M.S. Minder

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

5. LEASE  
U-17245

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
N/A

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
Cisco #5

10. FIELD OR WILDCAT NAME  
Cisco Springs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 26, T.20 S., R.23 E., SLM

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

14. API NO.  
43-019-30483

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4,828' (GR) and 4,838' (RT)

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.)\*

Prior oral permission from the U.S.G.S. and the State of Utah, was granted to abandon this well, as the drill stem test shows no producible Hydrocarbons. The following is a description of the completed operations;  
Class II, Type B cement plugs were positioned between 100' - 200'; 1,600' - 1,800'; and 2,170' - 2,370' to prevent contamination of water, oil and gas zones. The surface plug was placed between 100' - 200' with 50' inside and 50' outside the surface casing. The intervals between the cement plugs were filled with mud. All fluid zones were sealed by plugs created by injecting cement down drill pipe. As zones were plugged, drill pipe was brought up to the next plugging zone. 10 sacks of cement were used to plug the top of the well where a 10' long abandonment monument 4" in diameter was placed 4 feet above the ground. The monument is in compliance with Rule D-4 showing well number location and lease name. Plugging work was completed 1/8/80.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ N/A \_\_\_\_\_ Ft.

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

SIGNED Robert P. Kirgan TITLE Geologist DATE 2/13/80

(This space for Federal or State office use)

**RECEIVED**

FEB 29 1980

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_ DIVISION OF OIL, GAS & MINING

CONDITIONS OF APPROVAL, IF ANY:

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 Hole

2. NAME OF OPERATOR  
Cisco Drilling & Development, Inc.

3. ADDRESS OF OPERATOR  
P. O. Box 6059, Hamden, Connecticut 06517

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.) 1,722' fwl and 947' fnl  
AT SURFACE: NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 26, T.20 S., R.23 E., SLM  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

5. LEASE  
U-17245

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N/A

7. UNIT AGREEMENT NAME  
N/A

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
Cisco #5

10. FIELD OR WILDCAT NAME  
Cisco Springs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
NE $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 26  
T.20 S., R.23 E., SLM

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

14. API NO.  
43-019-30483

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
4,828' (GR) and 4,838' (KB)

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* (other)	<input type="checkbox"/>		<input checked="" type="checkbox"/>

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

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING  
DATE: 2/29/80  
BY: *[Signature]*

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.)\*

Cisco Well #5 was plugged and abandoned on 1/8/80 as there were no producible hydrocarbons. The following is a description of the completed operations; Class II, Type B cement plugs were positioned between 100' - 200'; 1,600' - 1,800'; and 2,170 - 2,370' to prevent contamination of water, oil and gas zones. The surface plug was placed between 100' - 200' with 50' inside and 50' outside the surface casing. The intervals between the cement plugs were filled with mud. All fluid zones were sealed by plugs created by injecting cement down the drill pipe. As zones were plugged, drill pipe was brought up to the next plugging zone. 10 sacks of cement were used to plug the top of the well where a 10' long abandonment monument 4" in diameter was placed 4 feet above the ground. The monument is in compliance with Rule D-4 showing well number, location and lease name.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ N/A \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Robert P. Kirgan TITLE Geologist DATE 2/13/80

(This space for Federal or State office use)

RECEIVED

FEB 25 1980

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DIVISION OF  
OIL, GAS & MINING