

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE X WATER SANDS LOCATION INSPECTED GAS WELL SUB REPORT/abd

*\* Location Abandoned - well never drilled - 3-22-82*

DATE FILED 6-15-81

LAND: FEE & PATENTED FEE STATE LEASE NO PUBLIC LEASE NO INDIAN

DRILLING APPROVED: 7-10-81 7-13-81

SPUDDED IN  
COMPLETED PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA 3-22-82

FIELD: WILDCAT 3/86 Undesignated

UNIT:

COUNTY: SUMMIT

WELL NO CONOCO MOORE BLOCK 10-1 API NO. 43-043-30174

LOCATION 660' FT. FROM (W) (S) LINE. 660' FT. FROM (E) (W) LINE SE SE 1/4 - 1/4 SEC. 10

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
				<u>4N</u>	<u>7E</u>	<u>10</u>	<u>CONOCO, INCORPORATED</u>



Alex M. Yares  
Division Manager  
Production Department

Conoco Inc.  
907 Rancho Road  
Casper, WY 82601  
(307) 234-7311

June 12, 1981

State of Utah  
Department of Natural Resources  
Division of Oil and Gas  
1588 West, North Temple  
Salt Lake City, Utah 84116  
Attn: Director

RECEIVED

JUN 15 1981

DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Application for Permit to Drill  
Conoco Moore Block 10 No. 1  
SE/SE Section 10, T4N, R7E  
Summit County, Utah  
File: PC-410-CF

Attached for your approval is an application for permit to drill for the above referenced location. We would appreciate your review and approval at the earliest possible date.

We are aware that Amoco is now drilling the #1 Island Ranching "D" Well in the NW/4 of Section 14-T4N-R7E. The State of Utah General Well Spacing Requirement, Rule C-3(b), specifies that all wells drilled for gas which are not within a pool for which drilling units have been established shall be located not less than 500 feet from any property or lease line, or 4960 feet from any gas well. Conoco's location, for which this permit applies, is 660 feet from the lease line, but only 3695 feet from Amoco's proposed bottom hole location. Rule C-3(c) provides, however, for the Commission to grant an exception to the requirements of (b) where the necessity for the location is due to topographic and/or geologic conditions and where the ownership of all oil and gas leases within 660 feet of the proposed location is common with the ownership of the lease under that location. We further note that the Anschultz Field, the northern boundary of which is about one mile from the two wells being discussed here, is spaced under Order entered in Cause No. 183-1 on July 26, 1979, for 320 acre drilling units in the Twin Creek Formation, with permitted well locations in the NW and SE quarters to be no closer than 990 feet from those quarter-section boundaries (no closer than 2800 feet from a well).

Conoco believes that Amoco's currently drilling #1 Island Ranching "D" well and our proposed location will encounter the same pool as is currently spaced in the Twin Creek Formation in the Anschultz Ranch Field and that the boundaries of the spacing order (Cause No. 183-1) will ultimately be

State of Utah  
Dept. of Natural Resources  
June 12, 1981  
Page Two

expanded to include the area containing both of these wells. Also, based on our geologic interpretation, we believe that a well drilled in the SE/4 of Section 10, T4N, R7E, 990 feet from the southern and eastern boundaries of that section, in compliance with the Anschultz Ranch Field spacing order, will encounter the Twin Creek and other prospective formations some 200 feet lower than if the well is drilled at our proposed location (660 feet from the Section boundaries), which may result in a dry hole, as the structure appears to fall off toward the northwest. Inasmuch as Conoco owns the leasehold interest in the area within 660 feet of the proposed location (we own Section 10 entirely), and for the above noted geologic considerations, we request that this well be permitted to be drilled as proposed in order to protect our correlative rights. If the Commission does not concur, we request that the matter be set for hearing at the earliest opportunity.

Very truly yours,



*for* Alex M. Yarsa  
Division Manager

prs

Att.

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

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

7. Unit Agreement Name

8. Farm or Lease Name

Conoco Moore Block 10

9. Well No.

1

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Section 10, T4N, R7E

2. Name of Operator

Conoco Inc.

3. Address of Operator

907 Rancho Road, Casper, Wyoming 82601

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)

At surface

660' FSL, 660' FEL SE/4 SE/4

At proposed prod. zone

12. County or Parrish 13. State

Summit

Utah

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

660'

16. No. of acres in lease

640

17. No. of acres assigned to this well

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

19. Proposed depth

16,000 *modified*

20. Rotary or cable tools

Rotary

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

6969' Ungraded Ground

22. Approx. date work will start\*

When approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	94#	60'	Surface
17 1/2"	13 3/8"	54.5# & 61#	1800'	Surface
12 1/4"	9 5/8"	40#, 47#, 53.5#	8300'	**
8 1/2"	7"	23#, 26#, 29#, 32#	14,200'	*
Liner: 6"	5"	18# & 21.4#	16,000'	*

\*\*Cement across entire salt section

\*Cement across all potential pay as determined from logs

It is proposed to drill this well as a producer in the Twin Creek, Nugget, Phosphoria & Weber Attached are the following:

- (1) 10 point drilling plan
- (2) Action plan for accidental release of H<sub>2</sub>S ✓
- (3) Survey plat

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

DATE: 7/10/81

BY: *[Signature]*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. Signed: *[Signature]*

Title: Administrative Supervisor

Date: 6-12-81

(This space for Federal or State office use)

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

Approved by ..... Title ..... Date .....

UOGCC (3), USGS (2), File

T4N, R7E, S.L.B.&M.

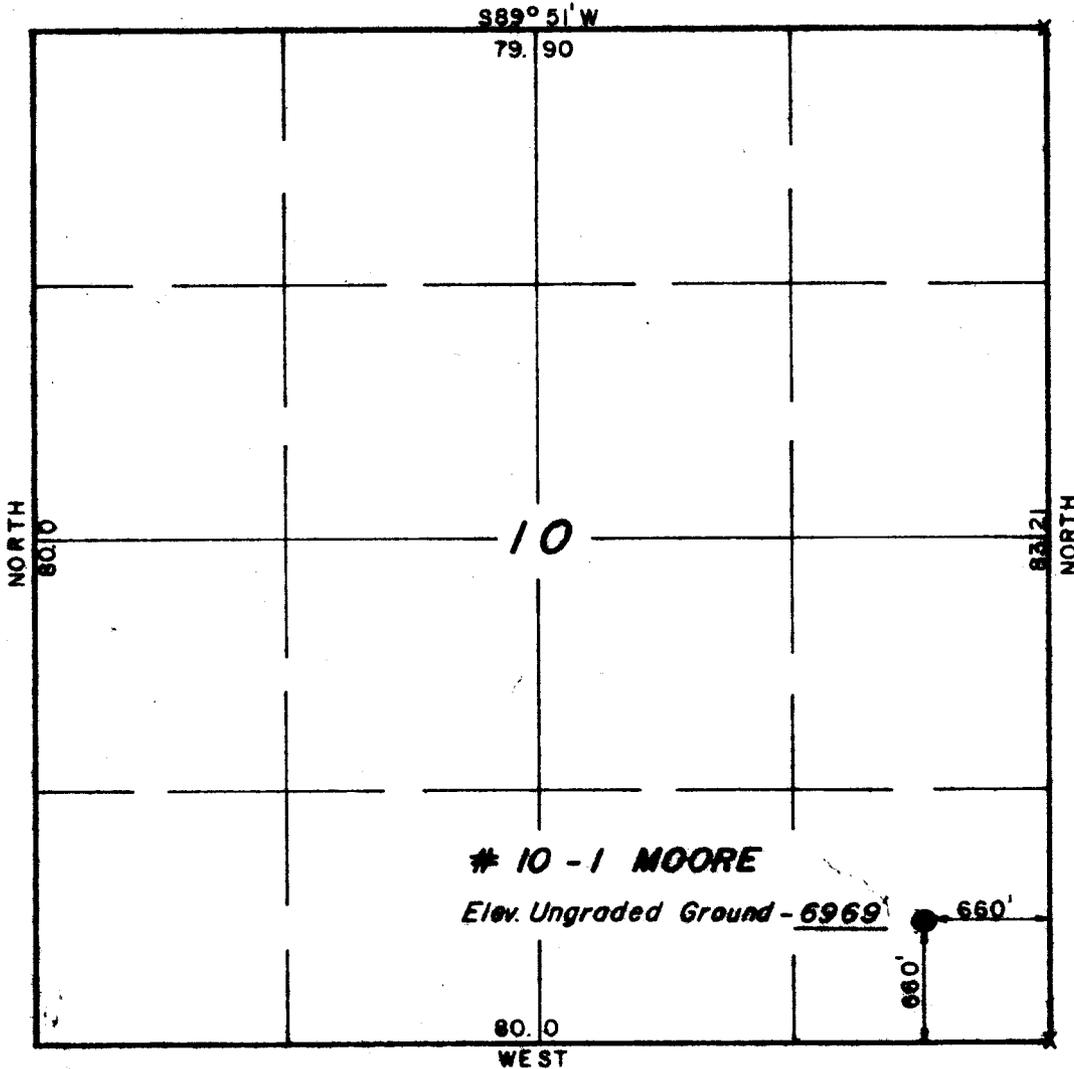
PROJECT

**CONOCO INC.**

Well location, #10-1 MOORE  
located as shown in the SE1/4  
SE1/4 Section 10, T4N, R7E, S.L.B.&M.  
Summit County, Utah

NOTE:

Elev. Ref. Pt. N41°32'50"W-250'=6969.05'  
" S 41°32'50"E-250'=6972.73'  
" S48°27'10"W-259'=7004.17'  
" N48°27'10"W-253'=6924.20'



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.

*Lawrence E. Kay*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3137  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P. O. BOX 9 - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 8/1/81
PARTY LDT SH RDR	REFERENCES GLO PLAT
WEATHER CLEAR/WARM	FILE CONOCO INC.

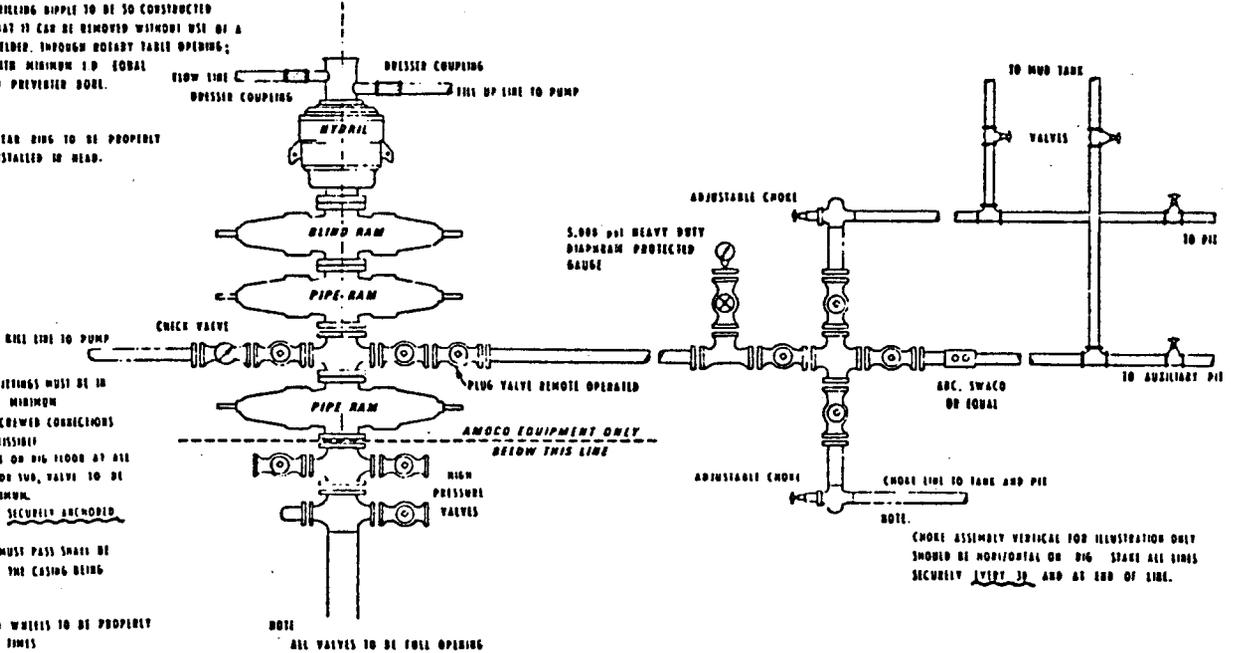
X = Section Corners Located

**EXHIBIT BOP-5000**  
**MINIMUM BLOW-OUT PREVENTER REQUIREMENTS**  
**5,000 psi W.P.**

**NOTE**

1 DRILLING RIGGUP TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER, THROUGH ROTARY TABLE OPENING; WITH MINIMUM I.D. EQUAL TO PREVENTER BORE.

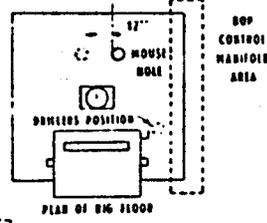
2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



**NOTE**

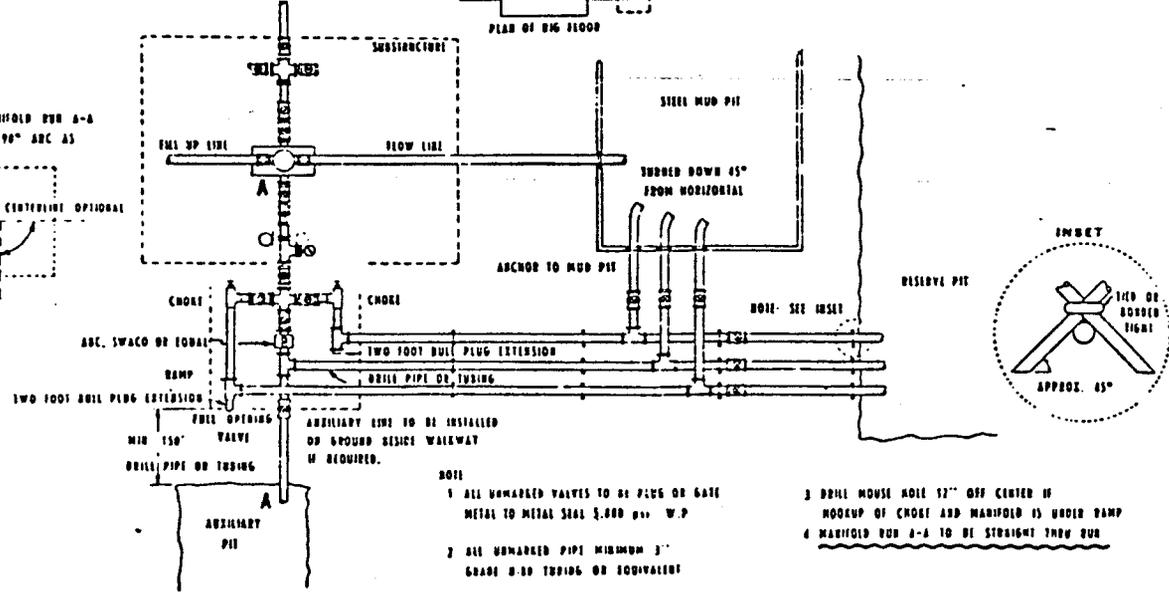
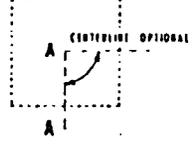
- 1 BLOW OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 psi W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKE PERMISSIBLE
- 3 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR TWO VALVE TO BE FULL BORE 5,000 psi W.P. MINIMUM.
- 4 ALL CHOKE AND BILE LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKE LINES
- 5 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
- 6 KELLY COCK ON KELLY.
- 7 EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES
- 8 RIG FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
- 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 50 GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION, AND MEET ALL TAGS SPECIFICATIONS

**NOTE**  
ALL VALVES TO BE FULL OPENING



**NOTE:**

DIRECTION OF MANIFOLD FOR A-A OPTIONAL WITHIN 90° ARC AS SHOWN BELOW



**NOTE**

- 1 ALL UNMARKED VALVES TO BE PLUG OR GATE METAL TO METAL SEAL 5,000 psi W.P.
- 2 ALL UNMARKED PIPE MINIMUM 3\"/>

3 DRILL HOUSE HOLE 12\"/>

4 MANIFOLD FOR A-A TO BE STRAIGHT THRU RUN

Attachment to Form OGC-1a

Conoco Moore Block 10 No. 1

- 1) Geologic name of the surface formation: Tertiary
- 2) Estimated tops of geological markers:

<u>Formations:</u>	<u>Depth</u>
Tertiary	0
Cretaceous	2201
Jurassic	5100
Twin Creek	8150
Nugget	9500
TR	11000
Phosphoria	14300
Weber	14800
Madison	16000

- 3) Estimated depths anticipated to encounter water, oil, gas or other mineral bearing formations:

Twin Creek	8150
Nugget	9500
Phosphoria	14300
Weber	14800

- 4) Casing Program: See Form OGC-1a Item #23
- 5) Operators minimum specifications for pressure control equipment are explained on attached schematic diagram. Testing of such is to be performed daily and noted on the IADC Daily Drilling Report. After running surface casing and prior to drilling out BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.

- 6) Mud Program:

<u>App. Interval</u>	<u>Type Mud</u>	<u>Wt. #/Gal</u>	<u>Viscosity</u>	<u>Fluid Loss (ML/30 min.)</u>
0- 1,800'	Gel/Lime	8.5-9.0	35-50	No Control
1,800'-5,800'	Phosphate	9.0-9.4	38-42	10 cc's or less
5,800'-8,300'	Saturated Salt	10.3-10.7	40-45	15 cc's or less
8,300'-14,200'	LSND to lightly dispersed	8.6-9.0	36-40	10 cc's or less
14,200'-16,000'	Dispersed	8.8-9.5	36-40	10 cc's or less

7) Auxilliary Equipment

Kelly cock flow sub with a full opening valve. 3" choke

Logging Program

<u>Type</u>	<u>Depth Interval</u>
Dual Laterolog - MSFL	1700 - TD
GR - BHC - Sonic	1700 - TD
GR - FDC - CNL	1700 - TD
Dipmeter	8000 - TD
Direction Survey	Surf. - T.D.

Coring Program

None Planned

DSTs

4 DSTs will be run in the Twin Creek, Nugget, Phosphoria and Weber formations.

Stimulation Program

Perforate w/4 JSPF and acidize w/100 to 250 gallons 15% HCl per foot of perforation.

- 9) No abnormal temperatures or pressures expected. H<sub>2</sub>S possible in Phosphoria and Weber formations.
- 10) Anticipated starting date will be when approved and the duration of the operations will be approximately 210 days.

CONTINGENCY PLAN

CONOCO INC.  
907 RANCHO ROAD  
CASPER, WYOMING 82601  
307-234-7311

Action Plan for Accidental Release of H<sub>2</sub>S

MOORE 10-1  
SUMMIT COUNTY, UTAH

This Plan is Subject to Updating  
June, 1981

## CONTINGENCY PLAN INDEX

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## CONTINGENCY & EVACUATION PLAN

CONOCO INC.

907 RANCHO ROAD

CASPER, WYOMING 82601

Well: Moore 10-1

Location: SE/SE Section 10, T4N, R7E,  
Summit County, Utah  
Directions to Well Site: Take Interstate 80 to Exit  
184, Summit County, Utah.  
Proceed north on frontage  
road for 1.9 miles. Turn  
right (south) on gravel  
access road for 5.4 miles  
to location.

### I. PURPOSE

The purpose of this plan is to safeguard the lives of the public, contract personnel, and company personnel in the event of equipment failures or disaster during drilling or completion operations in formations which may contain Hydrogen Sulfide Gas (H<sub>2</sub>S).

Conoco Inc. has specified materials and practices for the drilling or completion of this well to protect the safety of all concerned. However, as a precautionary measure, this contingency and evacuation plan has been prepared to further assure the safety of all concerned, should a disaster occur.

### II. DESCRIPTION OF HYDROGEN SULFIDE GAS:

H<sub>2</sub>S is a colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations or over long periods of exposure, the sense of smell may be paralyzed. H<sub>2</sub>S is an extremely toxic gas that must be treated with extreme care to prevent injury to people.

H<sub>2</sub>S is heavier than air (specific gravity = 1.19) and on still days tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the H<sub>2</sub>S gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

CONOCO INC.  
907 RANCHO ROAD  
CASPER, WYOMING 82601

The toxicity of H<sub>2</sub>S gas is as follows:

<u>Period of Exposure</u>	<u>Parts of H<sub>2</sub>S Gas (PPM)</u>
Prolonged exposure-no adverse effects	10 PPM
Over 1 hour could be hazardous	150 PPM
Possibly fatal in less than ½ hour	300 PPM
Fatal in a few minutes	700 PPM

III. TREATMENT OF HYDROGEN SULFIDE POISONING:

- A. Remove the victim to fresh air, call physician or ambulance if possible.
- B. If breathing is labored or has ceased, give artificial respiration immediately. Continue until physician is available, even if person appears not to be breathing. Should disaster conditions make it impossible to remove to fresh air, keep on your mask and use resuscitator on victim.
- C. If giving artificial respiration, and victim is breathing, use resuscitator to help eliminate H<sub>2</sub>S from the bloodstream.
- D. Keep victim at rest and prevent chilling.
- E. Get victim to a physician as soon as possible.

IV. BLOWOUT PREVENTION MEASURE DURING DRILLING:

- A. Blowout preventor requirements:  
All BOP equipment shall meet Continental Oil Company's specifications as to materials acceptable for H<sub>2</sub>S service. This equipment will be tested to full working pressure on initial installation and routinely thereafter, not to exceed two week periods and at any time a seal has been broken, a leak experienced or a known H<sub>2</sub>S bearing formation is to be drilled.
- B. Drill string requirements:  
All drill string components are to be of material that meets Conoco Inc. specifications for H<sub>2</sub>S service. All drill string components will be inspected to IADC critical service specification prior to running in well. Corrosion will be monitored by coupons to protect drill string.

## IV. (Continued)

## C. Gas Monitoring Equipment:

1. A continuous H<sub>2</sub>S monitoring system with two or more H<sub>2</sub>S detection heads will be in operation, one sampling from the shale shaker and one sampling from the bell nipple below the rotary table. Both units should be monitored in the mud logger's trailer and/or the dog house. Each unit will be set to trigger a blinking light on the rig floor should the amount of H<sub>2</sub>S reach 10 PPM and to trigger the alarm should the amount of H<sub>2</sub>S reach 20 PPM. Any time it is necessary to deactivate the alarm (if H<sub>2</sub>S is continuously present), a trained operator or H<sub>2</sub>S Supervisor will monitor the H<sub>2</sub>S detection system.
2. When approaching or completing H<sub>2</sub>S formations, crew members may attach 8-hour H<sub>2</sub>S electronic personnel monitors to their person, if warranted.
3. Hand held H<sub>2</sub>S sampling gas detectors will be used to check areas not covered by automatic monitoring equipment.

## D. Crew Training &amp; Protection:

1. Blowout prevention drills:  
Pit drill and trip drill training will be held with each crew until proficient in closing the well in. Drills will be held on a regular basis thereafter, with at least one drill per crew each week. Drills are to be on a surprise basis with the completion foreman or contract tool pusher triggering the alarm. Reaction time will be checked from the time the alarm goes off until well is simulated closed in. Closing time should be under two minutes. A copy of blowout drill procedure will be posted on the rig floor.
2. H<sub>2</sub>S Training and Drills:  
H<sub>2</sub>S safety training will be given to all personnel, including the correct fit and use of the gas masks, resuscitator, and artificial respiration. H<sub>2</sub>S drills will be held on a surprise basis during drilling (or completion) and tripping operations. The drilling foreman or contract tool pusher will trigger the H<sub>2</sub>S alarm and crews will proceed to get the mask on, and secure well as per posted drill procedures.
3. Safety Equipment:  
As outlined in (Appendix I) H<sub>2</sub>S safety protection equipment will be available to/or assigned each person on location and training given in correct usage.

V. CONTINGENCY PROCEDURES

A. Responsibility:

In order to assure the proper execution of this plan, it is essential that one person be responsible for and in complete charge of implementing these procedures. The responsibility will be as follows:

1. Conoco Inc. representative or his assistant.
2. Contract tool pusher. Should he become disabled.
3. Foreman on tour.

B. General Equipment:

1. Two areas on location will be designated as BRIEFING AREAS. The one that is upwind from the wellbore will be designated as the "SAFE BRIEFING AREA." The "SAFE BRIEFING AREA" will be recognizable by the positioning of the "SAFETY" trailer in this area.
2. In the case of an emergency, personnel will assemble in the "SAFE BRIEFING AREA" as per prior instructions from Conoco Inc. representative.
3. The H<sub>2</sub>S "SAFETY" trailer will be provided and will contain the equipment listed in Appendix I and will have a wind sock or streamer to indicate wind direction.
4. A second wind sock or streamer will be located at the end of the catwalk and visible from the rig floor.
5. A condition warning sign will be displayed on location and at the location entrance, of current operating conditions.
6. A list of emergency telephone numbers will be kept on rig floor, contract tool pusher's trailer, Conoco Inc. trailer and in "SAFETY" trailer.
7. Two barricades will be available to block entrance to location should an emergency occur.
8. An external communication system should be installed in trailer, mud logger's unit and on rig floor.
9. An internal communication system should be installed between company trailer house, contract tool pusher's quarters, mud logger's unit, rig floor, shale shaker, mud mixer area, and choke manifold.
10. An undulating high and low pitch siren will be installed.

C. Emergency procedures and definition of warning signs:

Condition: GREEN -- NORMAL OPERATIONS

Condition: YELLOW -- POTENTIAL DANGER -- CAUTION

V. CONTINGENCY PROCEDURES (Continued)

C. (Continued)

Cause for Condition:

1. Circulation
2. Trip gas after trips
3. Circulating out gas on chokes
4. Poisonous gas present, but below threshold concentrations.

Safety Action:

1. Check safety equipment and keep it with you.
2. Be alert for a change in condition warning sign.
3. Follow instructions.

Condition: RED -- EXTREME DANGER

Cause for condition:

1. Uncontrolled flow from well with lethal concentrations of H<sub>2</sub>S.

Safety Action:

1. Stay in "SAFE BRIEFING AREA" unless instructed to do otherwise.
2. DO NOT PANIC.
3. The decision to ignite should be made only as a last resort and it is clear that:
  - a. Human life is endangered, and
  - b. There is no hope of controlling the well under prevailing conditions. Every effort should be made to notify Conoco Inc. office if time permits.
4. Order evacuation of local people within the danger zone. Request help from local authorities, (State Police & Sheriff's Department) to evacuate people and to control traffic.
5. Notify office of well condition.

D. Evacuation Procedures:

1. The Conoco Inc. representative (or next man-in-charge) will set off the siren and notify the appropriate agencies and law officers that an emergency exists and help is needed.
2. The State Police will contact residents in the danger zone. They will start with those in a downwind direction.
3. Conoco Inc. representative (or next man-in-charge) will meet with appropriate agencies and law officers as soon as practical to brief them on the situation and coordinate evacuation efforts.

LIST OF APPENDICES

APPENDIX I . . . . . SAFETY EQUIPMENT

APPENDIX II . . . . . LIST OF RESIDENCES WITHIN  
(REQUIRED) 2 MILE RADIUS

APPENDIX III . . . . . MAP OF WELL LOCATION

APPENDIX IV . . . . . LAW ENFORCEMENT AGENCIES  
& FIRE FIGHTING FACILITIES

APPENDIX V . . . . . EMERGENCY & MEDICAL FACILITIES

APPENDIX VI . . . . . GOVERNMENTAL AGENCIES

APPENDIX VII . . . . . COMPANY & CONTRACT PERSONNEL

APPENDIX VIII . . . . . RADIO STATIONS

APPENDIX IX . . . . . AIR SERVICE & MOTELS/HOTELS

APPENDIX I  
SAFETY EQUIPMENT  
PROVIDED BY H<sub>2</sub>S SAFETY CONTRACTOR

CONSISTS OF PLAN II:

- . Safety trailer with 10-380 C.F. cylinder cascade air supply system
- . 1000' low pressure air line hose with quick connects
- . Three low pressure manifolds
- . Eight air line masks with emergency escape cylinder
- . Eight 30-minute self-contained breathing apparatus
- . Two wind socks and streamers
- . First aid kit (36 unit)
- . Oxygen powered resuscitator with cylinder
- . Flare gun with shells
- . Gas detector with tubes (pump type)
- . H<sub>2</sub>S and Briefing Area signs
- . Stretcher
- . Well condition sign and flags

NOTE:

ADDITIONAL EQUIPMENT WILL BE ADDED AS CONDITIONS REQUIRE.

- . 3-Channel electronic monitor with explosion-proof warning system.

X. EMERGENCY EVACUATION PLAN

NOTE: This attachment shall be posted on the bulletin board contained in the dog house, with extra copies contained in the contract toolpusher's trailer and in the safety trailer.

## Designation of Responsibility:

In order to assure the proper execution of this plan, it is essential that one person be responsible for, and in complete charge of, implementing these procedures. Therefore, responsibility shall be designated in the following order, depending on who is on location:

1. Conoco Inc. Representative (Drilling Foreman or Consultant)
2. Contract Toolpusher

## Definition of Warning Signs:

Condition: Green - Normal Operations  
Condition: Yellow - Potential Danger - Caution

### Cause for Condition:

1. Circulating
2. Trip gas after trips
3. Circulating gas out on choke
4. Poison gas present, but below threshold levels

Condition: Red - EXTREME DANGER

### Cause for Condition:

1. Uncontrolled well
2. Poison gas present above threshold levels

## Emergency Procedures:

### Condition Yellow:

1. Check safety equipment and keep it with you
2. Be alert for a change in condition warning sign
3. Follow instructions

### Condition Red:

After any accidental release of potentially hazardous volume of hydrogen sulfide gas, this program shall be initiated immediately:

1. Set off alarm. Evacuate all persons off location to "safe briefing area" that is upwind. Check that all persons are present. If not, proceed with evacuation from hazardous area in the following manner:
  - a) Two persons, if available, re-enter hazardous area with air packs and each attached to an assistant via safety line. The assistant shall also be wearing respiratory equipment but outside of the hazard area.

- b) Locate and evacuate all other persons in hazardous area to safety briefing area.
- c) Proceed with emergency first aid to all injured. Call hospital emergency ward. Alert them of the problem and have them send rescue vehicle immediately.

MEDICAL PERSONNEL AND FACILITIES

UTAH VALLEY HOSPITAL-----801-373-7850

Hospital Administrator, Mr. Grant C. Burgon

Dr. Keith Hooker, Director Rural Clinics-----801-373-7850 (Office)  
801-225-5084 (Home)

AMBULANCE-----911 or 801-373-7850

PROVO OR ALPINE AVIATION-----801-375-7220 (PROVO)  
801-373-1508 (ALPINE)

- 2. Locate, define problem, and proceed with emergency shut-in procedures per Conoco Inc. Blowout Drill Procedure.
- 3. Stay in "safe briefing area" unless instructed to do otherwise. Continuously monitor air quality in briefing area.
- 4. Only enter hazardous area with adequate air supply and attended by someone with a safety rope.
- 5. Call Company personnel in the following order, until one is contacted. Inform him of the problem and what actions have been taken. It is then his responsibility to contact his supervisor.

<u>NAME</u>	<u>OFFICE TELEPHONE</u>	<u>HOME TELEPHONE</u>
Andrew Efthim	307-234-7311	307-237-1993
Alex Yarsa	307-234-7311	307-237-3933
Bill Branch	307-234-7311	307-266-4675
Gary Smith	307-234-7311	307-234-6757

- 6. Notify the appropriate agencies and law officers that an emergency situation exists and help is needed.

LAW ENFORCEMENT AGENCIES

SHERIFF DEPARTMENT -----911  
801-374-2211

SHERIFF, PROVO, UTAH  
Mack Holly -----801-375-3601

HIGHWAY PATROL, PAYSON -----801-224-2441

UTAH OIL AND GAS COMMISSION

Oil, Gas, and Mining Division  
1588 W. North Temple  
Salt Lake City, Utah -----801-533-5771

FIRE DEPARTMENT

Fire Department -----801-465-3611

Highway Patrol, Payson -----801-224-2441

UTAH ENVIRONMENTAL PROTECTION AGENCY

Utah Environmental Health Services  
Air Pollution  
150 W. North Temple  
Salt Lake City, Utah -----801-533-6108

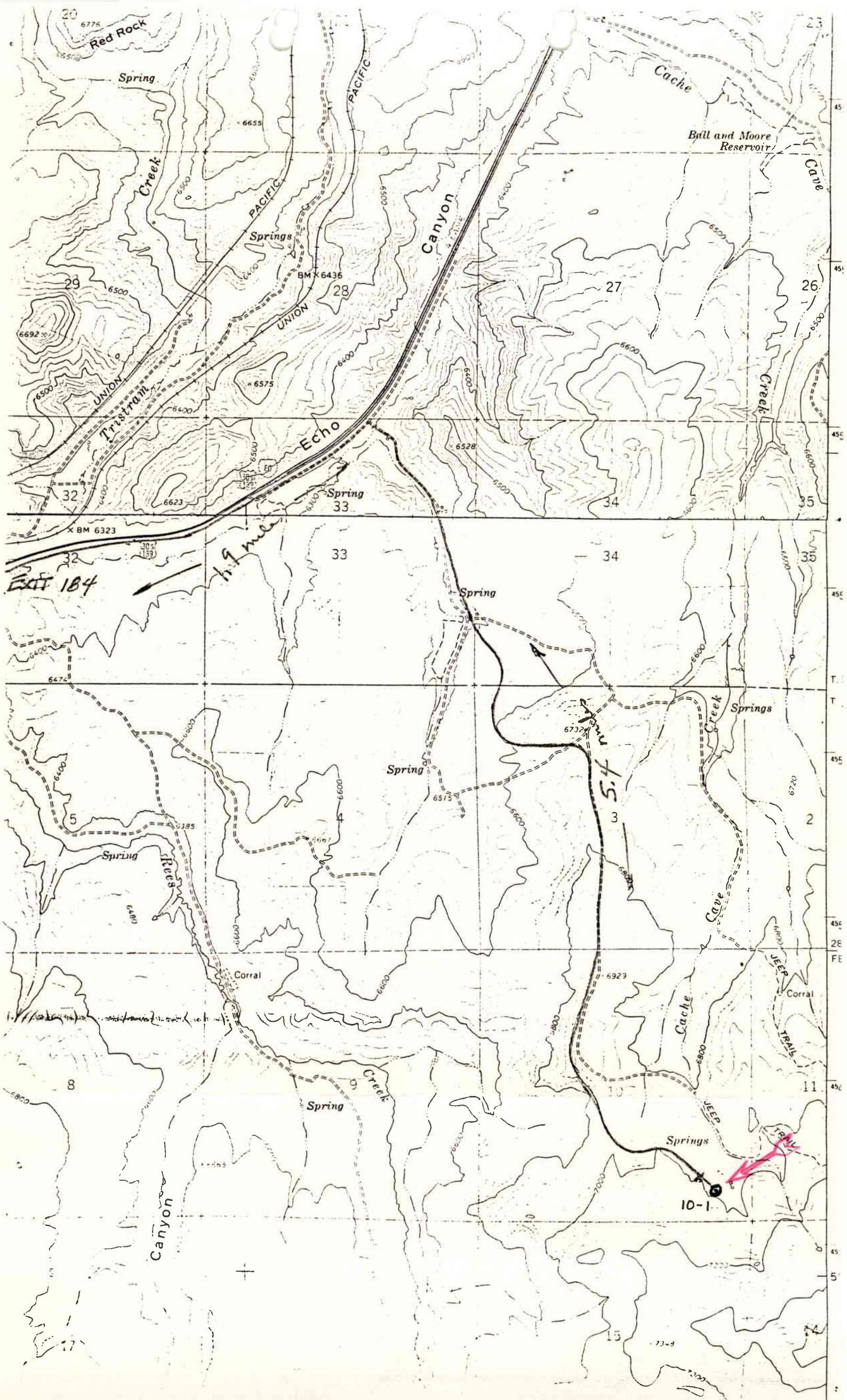
7. The State Police shall contact residents in the two (2) mile danger zone, and start evacuation with those in the down wind direction of the rig.
8. In the event that a blowout should occur, the decision regarding ignition of the escaping gas will be made by the Conoco representative on location after consultation, if possible, with the appropriate supervisor or management personnel listed previously. However, if the seriousness of the situation does not allow time for consultation, the Conoco representative on location has the authority to make the decision to ignite as a last resort where it is clear that human life and property are in jeopardy and/or the chance of controlling the well under the prevailing conditions are very remote.
9. Meet with appropriate agencies and law officers as soon as practical to brief them on the situation and coordinate evacuation efforts.

APPENDIX II

LIST OF RESIDENCES WITHIN

2-MILE RADIUS:

There are no residences within a 2-mile radius of said well.



APPENDIX VIII

LOCAL RADIO STATIONS

KEVA-Radio 1240  
Evanston, Wyoming . . . . .(307) 789-9101

APPENDIX IX

AIR SERVICE AND MOTELS/HOTELS

Evanston, Wyoming Air Service

Evanston Aviation Ltd. . . . . (307) 789-2256  
Airplane Charter

Flight Air Inc. . . . . (307) 362-7890  
Helicopter Service (Air Ambulance)

St. Anthony Hospital Systems "Flight for Life"  
Emergency Medical Air Services  
Critical Care Flight Nurses  
Life Support Equipment  
24-Hour Service. . . . . 1-800-525-3712  
or (303) 629-3900

Motels/Hotels

Evanston, Wyoming

Ramada Inn. . . . . (307) 789-2810  
Hillcrest DX Motel. . . . . (307) 789-3286  
Vagabond Motel. . . . . (307) 789-2902  
Prairie Inn . . . . . (307) 789-2920  
Sunset Motel. . . . . (307) 789-3763

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Conoco Moore Block 10

9. Well No.

1  
10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Section 10, T4N, R7E

12. County or Parrish 13. State

Summit Utah

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

Conoco Inc.

3. Address of Operator

907 Rancho Road, Casper, Wyoming 82601

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

660' FSL, 660' FEL SE/4 SE/4

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office\*

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

660'

16. No. of acres in lease

640

17. No. of acres assigned to this well

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

19. Proposed depth

16,000

20. Rotary or cable tools

Rotary

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

6969' Ungraded Ground

22. Approx. date work will start\*

When approved

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	94#	60'	Surface
17 1/2"	13 3/8"	54.5# & 61#	1800'	Surface
12 1/4"	9 5/8"	40#, 47#, 53.5#	8300'	
8 1/2"	7"	23#, 26#, 29#, 32#	14,200'	
Liner: 6"	5"	18# & 21.4#	16,000'	

DIVISION OF OIL, GAS & MINING

\*\*Cement across entire salt section

\*Cement across all potential pay as determined from logs

It is proposed to drill this well as a producer in the Twin Creek, Nugget, Phosphoria & Weber

Attached are the following: (1) 10 point drilling plan

(2) Action plan for accidental release of H2S

(3) Survey plat

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

J.C. Thompson

Title Administrative Supervisor

Date 6-12-81

(This space for Federal or State office use)

Permit No. Approval Date

Approved by Title Date

Conditions of approval, if any:

UOGCC (3), USGS (2), File

\*See Instructions On Reverse Side

T4N, R7E, S.L.B.&M.

PROJECT

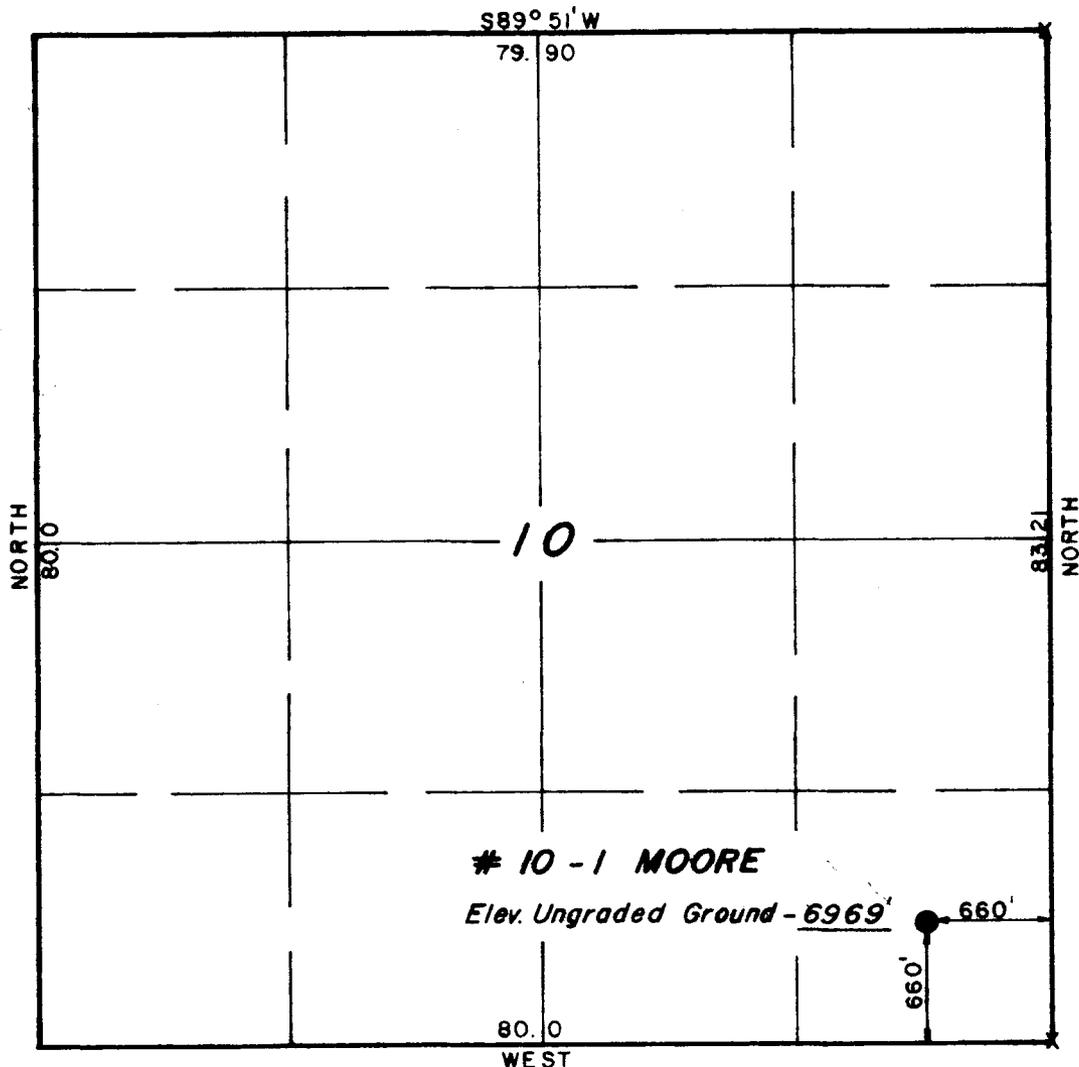
**CONOCO INC.**

Well location, #10-1 MOORE

located as shown in the SE1/4  
SE1/4 Section 10, T4N, R7E, S.L.B.&M.  
Summit County, Utah

NOTE:

Elev. Ref. Pt. N41°32'50"W-250'=6969.05'  
" S 41°32'50"E-250'=6972.73'  
" S48°27'10"W-259'=7004.17'  
" N48°27'10"W-253'=6924.20'



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.

*Lawrence P. Kay*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3137  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P. O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	5/1/81
PARTY	LDT SH RDR	REFERENCES	GLO PLAT
WEATHER	CLEAR/WARM	FILE	CONOCO INC.

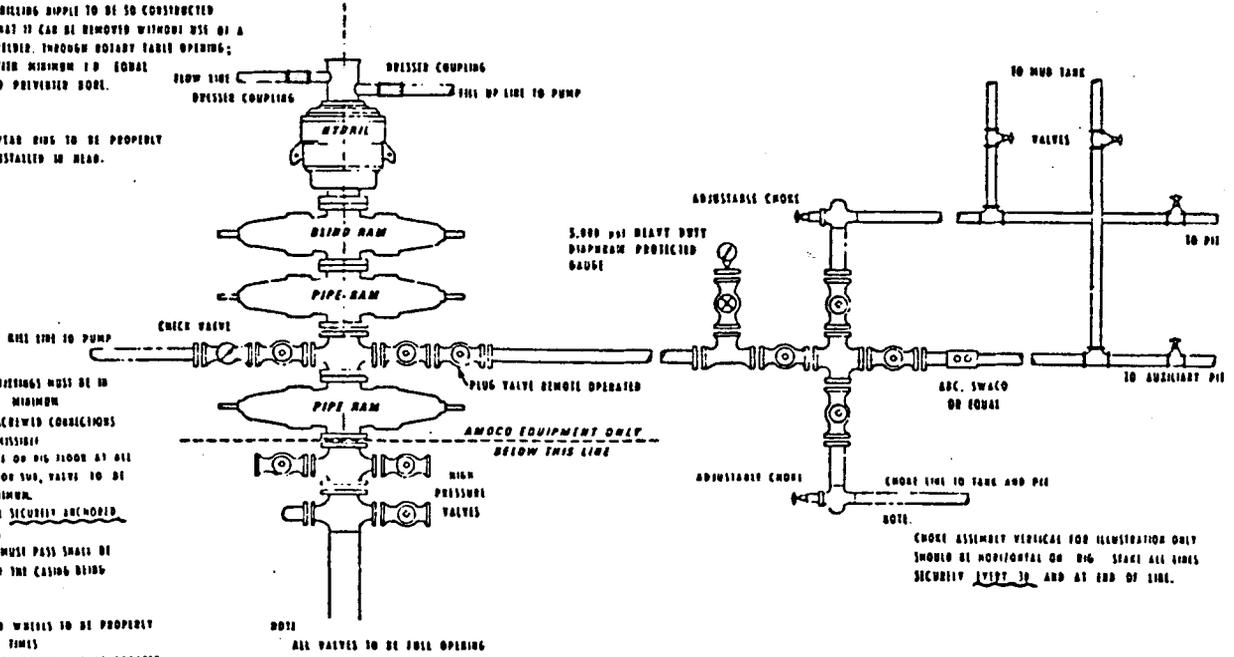
X = Section Corners Located

**EXHIBIT BOP-5000**  
**MINIMUM BLOW-OUT PREVENTER REQUIREMENTS**  
**5,000 psi W.P.**

**NOTE**

1 DRILLING RIGGLES TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER, THROUGH ROTARY TABLE OPERATING, WITH MINIMUM I.D. EQUAL TO PREVIOUS BORE.

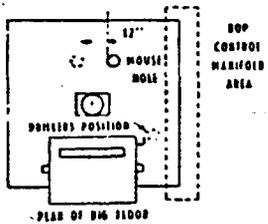
2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



**NOTE**  
 ALL VALVES TO BE FULL OPENING

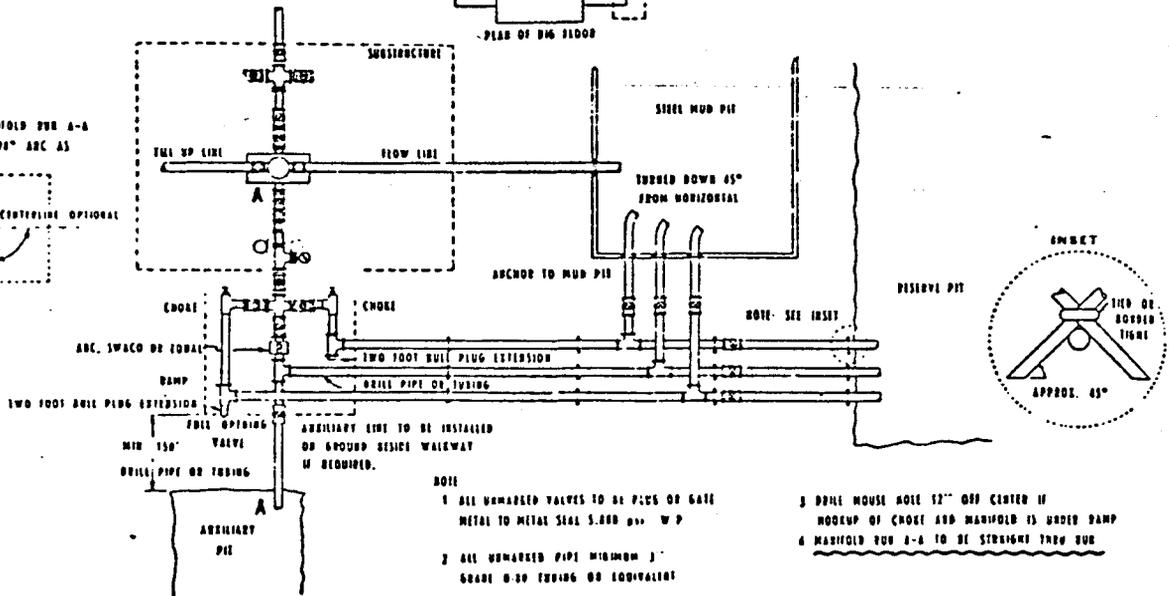
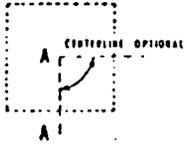
**NOTE**

- 1 BLOW OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 PSI W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
- 3 SAFETY VALVE MUST BE AVAILABLE ON DIS FLOOR AT ALL TIMES WITH PROPER CONNECTION TO TANK, VALVE TO BE FULL BORE 5,000 PSI W.P. MINIMUM
- 4 AIR CHOKES AND RIG LINES TO BE SECURELY ANCHORED, ESPECIALLY ENDS OF CHOKES LINES
- 5 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
- 6 BULLY COCK ON STEEL
- 7 EXTENSION WINDCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES
- 8 DIS FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
- 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE AN GALLON ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER OR EACH CLOSING UNIT INSTALLATION, AND MEET ALL IADC SPECIFICATIONS



**NOTE**

DIRECTION OF MANIFOLD FOR A-A OPTIONAL WITHIN 90° ARC AS SHOWN BELOW



**NOTE**

- 1 ALL UNMATED VALVES TO BE PLUS OR GATE METAL TO METAL SEAL 5,000 PSI W.P.
- 2 ALL UNMATED PIPE MINIMUM 3\"/>

- 3 DRILL HOUSE HOLE 12\"/>

\*\* FILE NOTATIONS \*\*

DATE: July 8, 1981  
OPERATOR: Conoco Inc  
WELL NO: Conoco Moore Block #10-1  
Location: Sec. 10 T. 4N R. 7E County: Summit

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

API Number 43-043-30174

CHECKED BY:

Petroleum Engineer: M. J. Minder 7/10/81  
Amoco Island Ranching #1 gas well to close

Director: \_\_\_\_\_

Administrative Aide: ok as per Rule C-3<sup>(c)</sup>, ok on boundaries,  
ok on any other oil or gas

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. \_\_\_\_\_ O.K. Rule C-3

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

Lease Designation free Plotted on Map

Approval Letter Written

Hot Line  P.I.

July 13, 1981

Conoco, Inc.  
907 Rancho Rd.  
Casper, Wyoming 82601

RE: Well No. Conoco Moore Block #10-1  
Sec. 10, T. 4N, R. 7E,  
Summit County, Utah

Insofar as this office is concerned, approval to drill the above referred to gas well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

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

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

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 43-043-30174.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Michael T. Minder  
Petroleum Engineer

MTM/db  
CC: OGM



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

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

March 9, 1982

Conoco, Inc.  
907 Rancho Rd.  
Casper, Wyoming 82601

Re: Well No. Conoco Moore Block #10-1  
Sec. 10, T. 4N, R. 7E.  
Summit County, Utah

Well No. Arrats #1-28  
Sec. 1, T. 9S, R. 20E.  
Uintah County, Utah

Gentlemen:

In reference to the 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. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

*Cari Furse*

Cari Furse  
Clerk Typist



Production Department  
Casper Division

Conoco Inc.  
907 North Union Boulevard  
Casper, WY 82601  
(307) 234-7311

March 22, 1982

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

Gentlemen:

Current Status of Proposed Drilling Well Locations  
Summit & Uintah Counties, Utah  
File: PC-414-CF

In response to your letter, dated March 9, 1982, we do not plan to drill  
the following well:

Conoco Moore Block #10-1      LA  
Section 10, T4N, R7E  
Summit County, Utah

Therefore, we are requesting that the subject well's APD be cancelled and  
returned to this office.

However, we currently plan on using the approved APD for the following well:

Conoco Arrats #1-28  
Section 1, T9S, R20E  
Uintah County, Utah

We plan on filing a designation of operator form and allowing Belco to  
drill and operate the subject well. We are currently awaiting the out-  
come of a proposed communitization agreement on the area surrounding the  
well location. We will notify you of our plans as soon as they are determined.

Very truly yours,

T. C. Thompson  
Administrative Supervisor

sjh

cc: USGS - Salt Lake City

RECEIVED  
MAR 23 1982

DIVISION OF  
OIL, GAS & MINING