

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK</b>			5 Lease Designation and Serial No Fee: Union Pacific	
1a Type of Work DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			6 If Indian, Ailantee or Tribe Name N/A	
b Type of Well Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>			7 Unit Agreement Name N/A	
8 Name of Operator Coastal Oil & Gas Corporation			8 Fact or Lease Name Cave Creek	
9 Address of Operator P.O. Box 740, Denver, CO 80201-0749      (303) 573-4476			9 Well No 1-19	
10 Location of Well (Report location clearly and in accordance with any state requirements) At surface 1600' INL & 1600' TEL (SW/NE)  At proposed prod zone			10 Field and Pool, or Wildcat Wildcat	
11 Distance in miles and direction from nearest town or post office Approximately 1.1 miles SW of Evanston, Wyoming.			11 00, Sec 1, 2, 3, 4, 5, 6, or 8 and Survey or Area Sec 19-T5N-R8E	
12 Distance from proposed location to nearest property or lease line ft (Also to nearest drig line if any) 1600'			12 No of acres in lease 640 acres	
13 Distance from proposed location to nearest well, drilling completed or applied for on this lease ft 7142' CR			13 No of acres assigned to this well 160	
14 Proposed depth 7700'			14 Rotary or cable tools Rotary	
15 Elevations (Show whether DT, RT, GR etc) 7142' CR			15 Approx date work will start 4/1/94	
<b>16 PROPOSED CASING AND CEMENTING PROGRAM</b>				
Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	9-5/8"	36#, K55, STC	1500'	705 cu. ft. to surface
8-3/4"	7"	23#, N80, LTC	5400'	1255 cu. ft
6-1/4"	5"	15#, K55, H521	5200'-7700'	292 cu. ft

Operator proposes to test the Twin Creek formation (5485') in a prudent manner consistent with federal and state regulations Please see attached plan

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

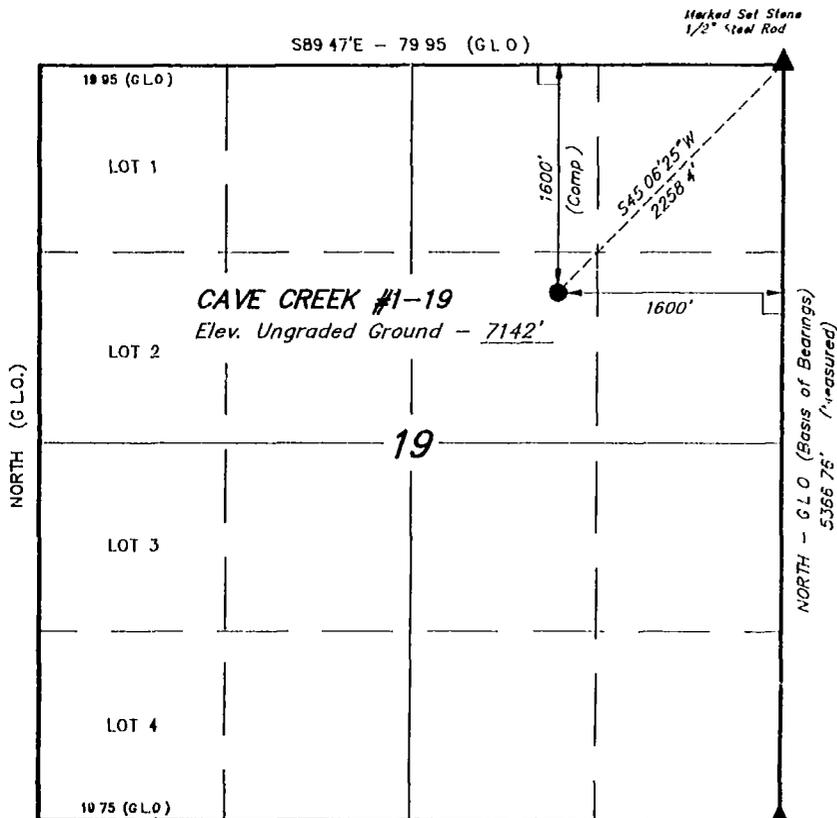
17 I hereby certify that this report is true and complete to the best of my knowledge  
 Title: Environmental Coordinator      Date: 2/17/94  
 Signature: Joe Adamski

(This space for renewal or state office use)  
 API # 43-043-37373      Approval Date APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS AND MINING  
 Approved by \_\_\_\_\_ Title \_\_\_\_\_ DATE: 3-9-94  
 Conditions of approval if any BY: [Signature] WELL SPACING: 189-2

T5N, R8E, S.L.B.&M.

**COASTAL OIL & GAS CORP.**

Well location, CAVE CREEK #1-19, located as shown in the SW 1/4 NE 1/4 of Section 19, T5N, R8E, S.L.B.&M. Summit County, Utah

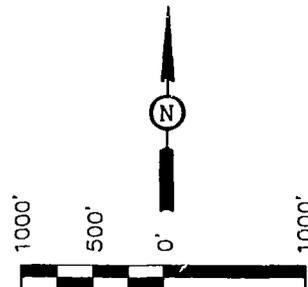


NORTH (G.L.O.)

NORTH - G.L.O. (Basis of Bearings)  
5366.75' (1/4-measured)

BASIS OF ELEVATION

SPOT ELEVATION AT A RIDGE TOP IN THE NE 1/4 OF SECTION 19, T5N, R8E, S.L.B.&M TAKEN FROM THE WAHSAUCHI QUADRANGLE, UTAH - WYOMING, 7.5 MINUTE (TOPOGRAPHICAL MAP) PUBLISHED BY THE STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY SAID ELEVATION IS MARKED AS BEING 7204 FEET



SCALE

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.

*Robert J. Key*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 5708  
STATE OF UTAH

LEGEND.

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD
- ▲ = SECTION CORNERS LOCATED

S89°56'E - 79.75 (G.L.O.)

1983 Private 2" A.C.  
John K. Pfeiffer  
R.L.S. #2680  
Pfe of Stones

**UNTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(801) 789-1017

SCALE 1" = 1000'	DATE SURVEYED 11-30-93	DATE DRAWN 12-03-93
PARTY L D T D S T D H	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE COASTAL OIL & GAS CORP.	

Cave Creek #1-19  
1600' FNL & 1600' FEL  
SW/NE, Section 19-T5N-R8E  
Summit County, Utah  
Fee Mineral Lease

**COASTAL OIL & GAS CORPORATION**  
**DRILLING PROGNOSIS**

1 Estimated Tops of Important Geologic Markers

Fowkes	Surface
Preuss Salt	4785'
Twin Creek	5485'
Walton Canyon	6205'
Rich Member	6590'
Nugget	7070'
Total Depth	7700'

2 Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations

Twin Creek	5485'	Gas (Primary Objective)
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All freshwater and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3 Pressure Control Equipment (Schematic Attached)

**Type:** One 10" x 3000 psi annular preventer  
One 10" x 3000 psi double ram preventer (blind ram above, pipe ram below)  
One wing with two manual valves and one choke  
One positive choke and one adjustable

**Testing Procedure:** The BOP and choke manifold will be pressure tested to the rated working pressure of 70% of the internal yield strength of the surface casing, whichever is less, for a period of 15 minutes upon installation, once every 30 days and/or when flange seals are broken if a "nipple-up" or "nipple-down" takes place.

4 Drilling Fluids Program

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0-1500'	Freshwater	---	---	---
1500-5400'	LSND/Sat Salt Mud	9.2	30-45	15-25
5400-7700'	LSND	9.2	30-45	6-8

Sufficient quantities of mud materials will be maintained or readily accessible for the purpose of assuring well control during the course of drilling operations. The surface hole will be drilled with an air mist system injecting water at the rate of 15-20 gallons/minute, until the lost circulation zone is reached at  $\pm 1500'$ . At that point, Coastal Oil & Gas Corporation will switch to an aerated water system, utilizing the rig pumps to inject water at a rate of 190 gallons/minute to total depth.

5 Evaluation Program

**Logs:** Dual Laterlog & Caliper TD - 1500'  
 FDC-CNL TD - 1500'

**DST's:** Two DST's are possible

**Cores:** None Anticipated

Evaluation Program may change at the discretion of the wellsite geologist

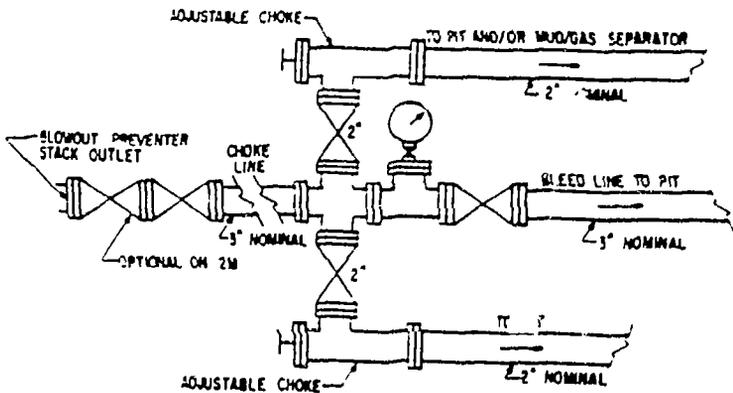
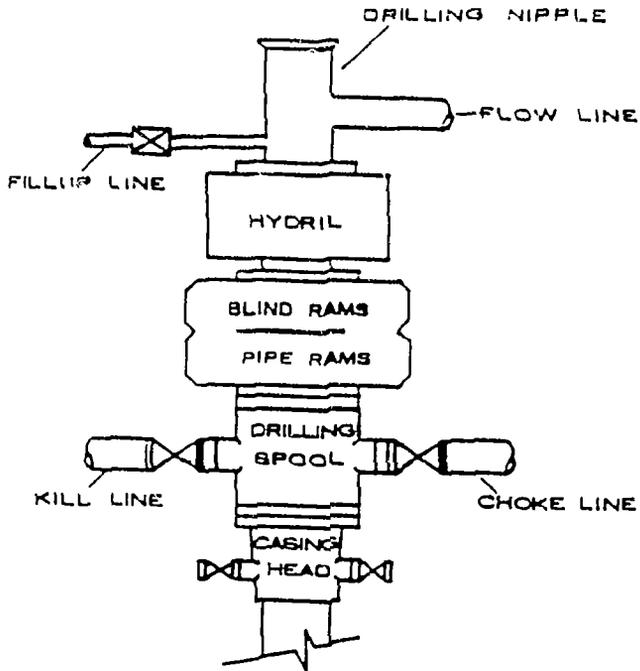
6 Abnormal Conditions

No abnormal temperatures or pressures are anticipated. No H<sub>2</sub>S gas has been reported or known to exist from previous drilling in the area at this depth. However, H<sub>2</sub>S in strong concentrations is present at the Fawcett #1, Section 36-T5N-R7E, which is a Madison (15,396'-15,490') well. The Fawcett #1 is currently being produced into a pipeline which traverses approximately one mile west of the proposed Cave Creek #1-19 location. Therefore, an H<sub>2</sub>S safety program will be practiced while drilling this well. The H<sub>2</sub>S Contingency Plan is attached. Maximum anticipated bottomhole pressure equals 3300 psi.

7 Proposed Facilities

If the well is successful, production equipment will be set and gas sold through a pipeline.

# BOP STACK



**Cave Creek #1-19  
1600' FNL & 1600' FEL  
SW/NE, Section 19-T5N-R8E  
Summit County, Utah  
Fee Mineral Lease**

**COASTAL OIL & GAS CORPORATION  
SUPPLEMENT TO APPLICATION FOR PERMIT TO DRILL**

**1 Location and Type of Water Supply**

- A Freshwater for drilling will be obtained from the land owner, Anschutz Ranch, Summit County, Utah

**2 Methods of Handling Water Disposal**

- A **Sewage** - Self-contained, chemical toilets will be provided for human waste disposal. Upon completion of operations, the holding tanks will be pumped and the contents disposed of in a municipal sewage treatment facility or other authorized disposal facility.
- B **Garbage and Other Waste Materials** - All trash will be contained in a portable trash cage. Upon completion of operations, all trash will be hauled to an approved sanitary landfill.
- C **Cuttings and Drilling Fluids** - The cuttings will be deposited in the reserve pit. Drilling fluids will be contained in reserve pit and allowed to evaporate. The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of one-half (½) the total depth below the original ground surface on the lowest point within the pit. The reserve pit will not be lined unless fractured rock or extremely porous soil/rock formations are encountered.

**3 Plans for Reclamation of the Surface**

- A Backfilling, leveling, and recontouring are planned as soon as the reserve pit dries. Waste and spoil materials will be disposed of immediately upon completion of drilling and workover activities. If production is established, the unneeded areas of the location will be reclaimed as soon as the reserve pit dries.
- B Upon completion of backfilling, leveling, and recontouring, the stock-piled top soil will be evenly spread over the reclaimed area(s). All disturbed surfaces (including access road and well pad areas) will be reseeded using the seed mixture recommended by the State of Utah. Seed will be drilled on the contour to an approximate depth of ½ inch.
- C Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock and wildlife from becoming entrapped, and the fencing will be maintained until leveling and cleanup are accomplished.

- D If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with wire mesh
- E The reclamation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Rehabilitation operations should be completed by the Fall of 1994

4 Other Information

A cultural resource inventory of the proposed well site and access road has been performed and submitted to your office

5 Surface and Mineral Ownership

Anschutz Ranch  
2400 Anaconda Tower  
555 17th Street  
Denver, CO 80202  
Bill Miller  
(303) 298-1000

6 Mineral Lease

160 acres  
NE/4 Section 19-T5N-R8E, Summit County, Utah

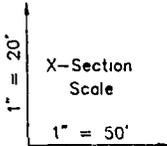
Union Pacific Resources Company  
P O Box 7  
Ft Worth, TX 76101-0007  
(817) 877-6000

# COASTAL OIL & GAS CORP

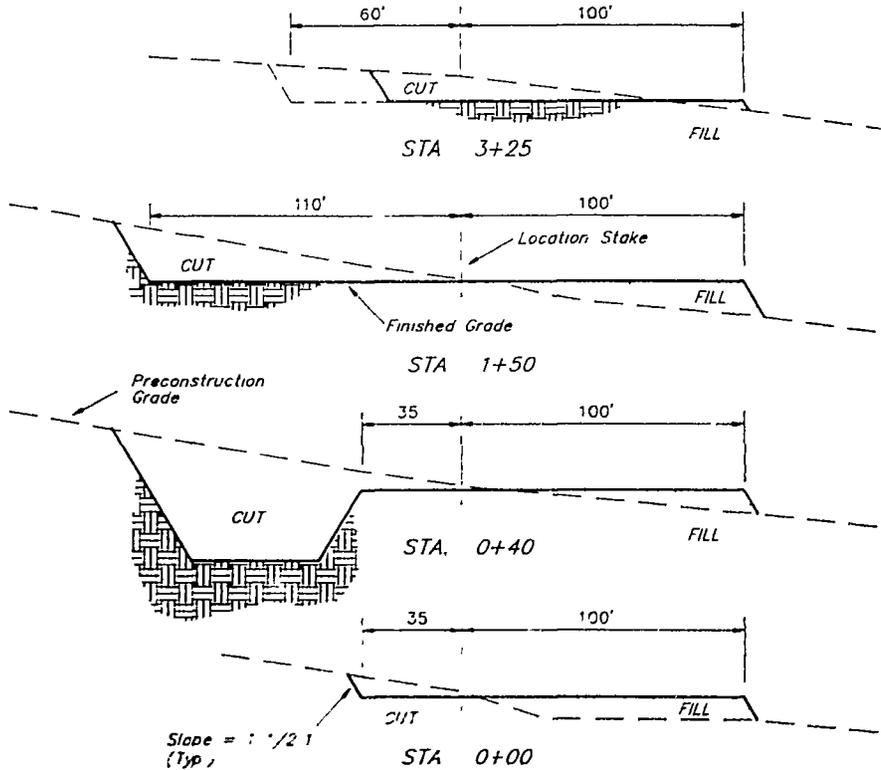
## LOCATION LAYOUT FOR

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S.L.B & M  
1600' FNL 1600' FEL

*2/2/93*



DATE: 12-03-93  
Drawn By TDH



**NOTE:**

Topsail should not be Stripped Below Finished Grade on Substructure Area

**APPROXIMATE YARDAGES**

<b>CUT</b>	
(2") Topsail Stripping	= 1,070 Cu. Yds
Remaining Location	= 6,000 Cu. Yds
<b>TOTAL CUT</b>	<b>= 7,070 CU.YDS</b>
<b>FILL</b>	<b>= 2,560 CU.YDS.</b>

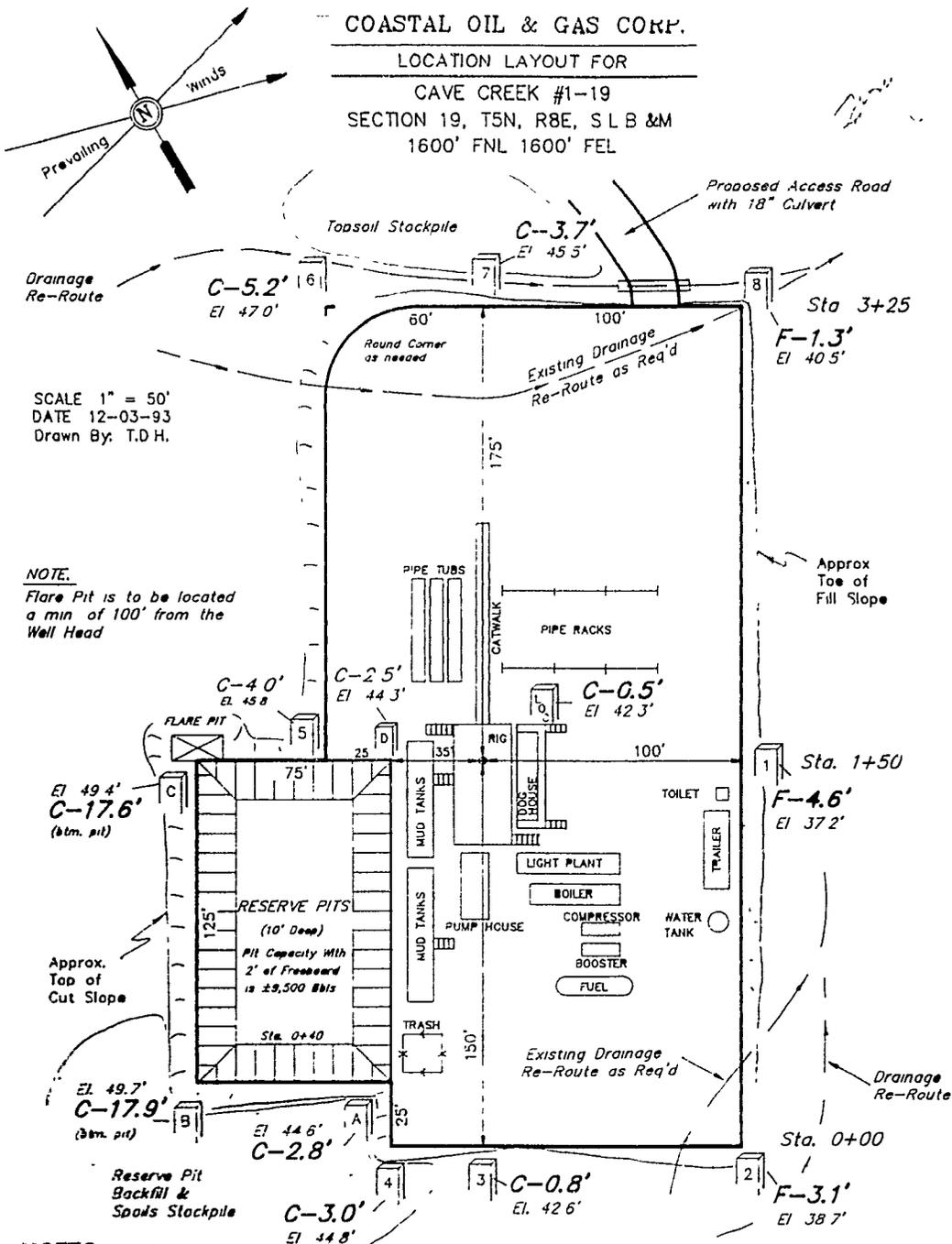
<b>EXCESS MATERIAL AFTER 5% COMPACTION</b>	<b>= 4,380 Cu. Yds.</b>
Topsail & Pit Backfill (1/2 Pk Vol.)	= 2,200 Cu. Yds.
<b>EXCESS UNBALANCE (After Penetration)</b>	<b>= 2,090 Cu. Yds.</b>

**FIGURE #2**

# COASTAL OIL & GAS CORP.

## LOCATION LAYOUT FOR

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S1B & M  
1600' FNL 1600' FEL



SCALE 1" = 50'  
DATE 12-03-93  
Drawn By: T.D.H.

**NOTE:**  
Flare Pit is to be located a min of 100' from the Well Head

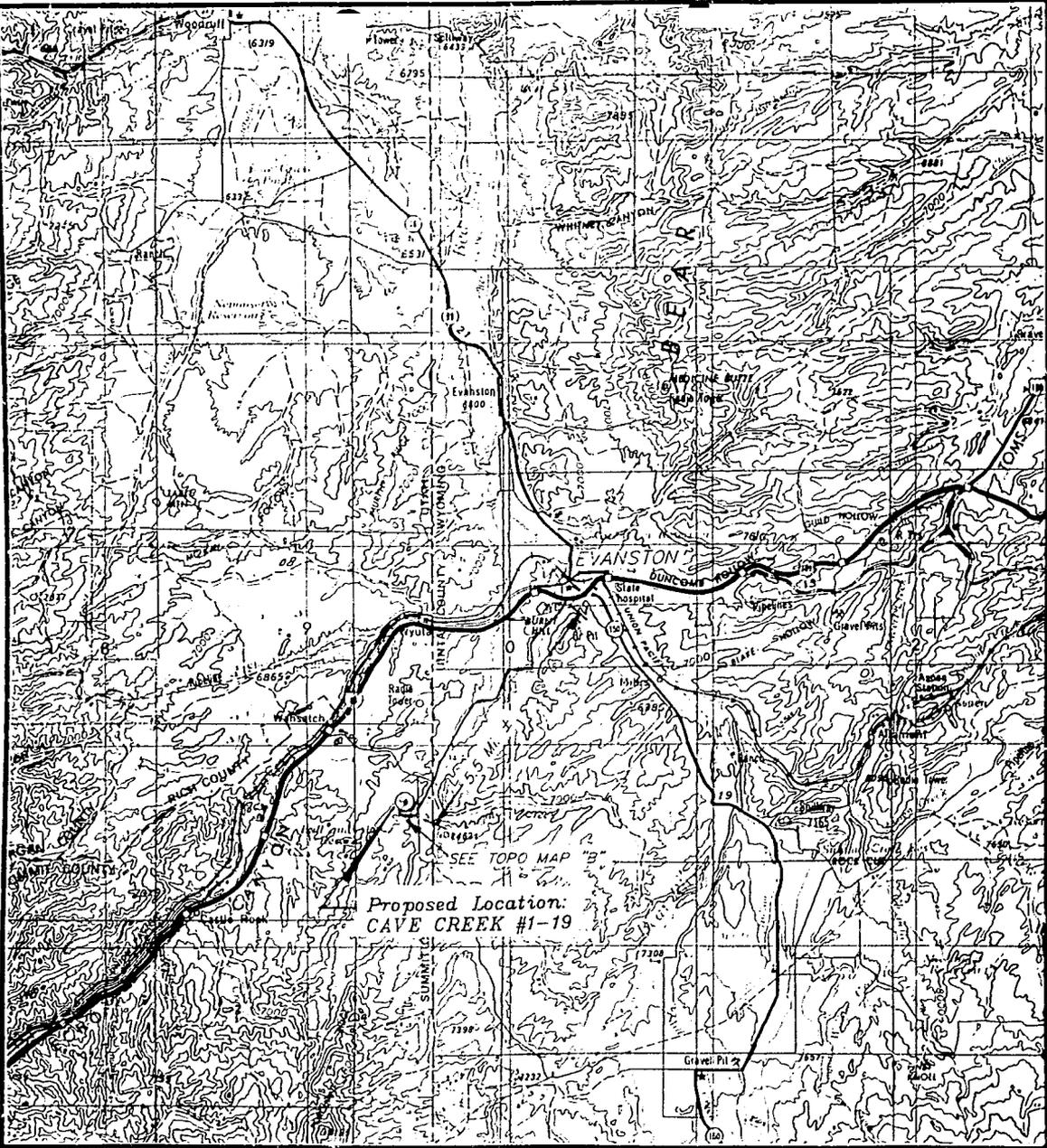
**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 7142.3'

FINISHED GRADE ELEV. AT LOC. STAKE = 7141.8'

**FIGURE #1**





Proposed Location:  
CAVE CREEK #1-19

SEE TOPO MAP "B"

TOPOGRAPHIC  
MAP "A"

DATE: 12-3-93 D.S.



COASTAL OIL & GAS CORP.

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S.L.B.&M.  
1600' FNL 1600' FEL



February 21, 1994

FEB 23 1994

Mr. Mike Hebertson  
Division of Oil, Gas & Mining  
State of Utah  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

RE. Cave Creek #1-19 Contingency Plan

Dear Mr. Hebertson

As a supplement to our application for permit to drill, please accept two copies of the H<sub>2</sub>S Contingency Plan for the above referenced well. If you have any questions, please give me a call at (303) 573-4476

Thanks for your patience

Cordially,

Joe Adamski  
Environmental Coordinator

Attachments

# **H<sub>2</sub>S CONTINGENCY PLAN**

**Cave Creek #1-19  
1600' FNL & 1600' FEL  
Section 19-T5N-R8E  
Summit County, Utah**

**Coastal Oil & Gas Corporation**



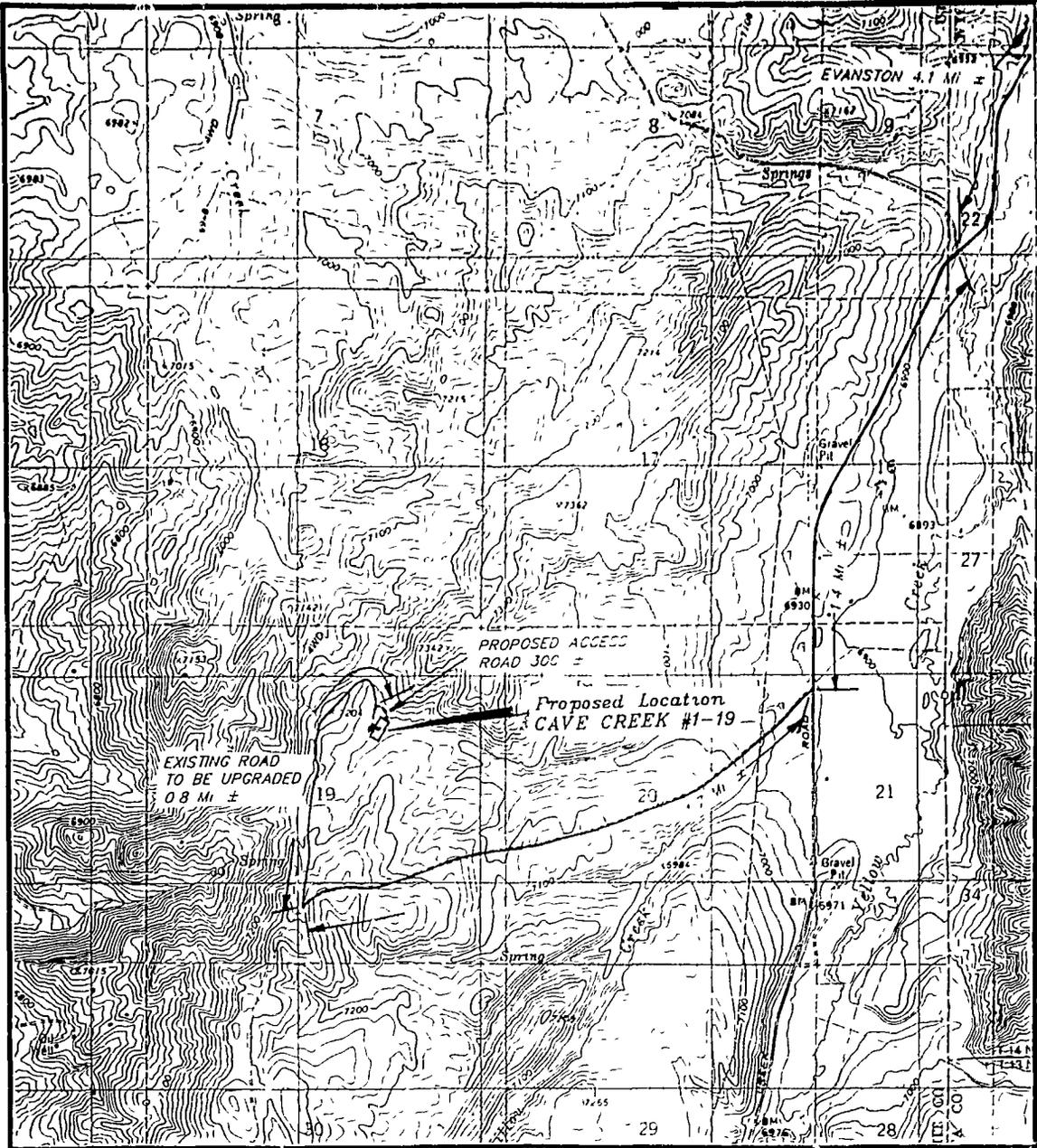
TOPOGRAPHIC  
MAP "A".

DATE 12-3-93 DJS



COASTAL OIL & GAS CORP

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S1B & M  
1600' FNL 1600' FEL



TOPOGRAPHIC

MAP "B"

SCALE 1" = 2000'

DATE 12-3-93 DJS



COASTAL OIL & GAS CORP

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S.L.B.&M  
1600' FNL 1600' FEL



## SECTION I. OVERVIEW

### A. Scope

The purpose of this plan is to document the safety requirements necessary to minimize the hazards of Hydrogen Sulfide and Sulfur Dioxide gases that may be encountered during the drilling of Coastal Oil & Gas' Cave Creek #119 in Summit County, Utah. Although Coastal Oil & Gas will not be drilling into formations that are known to contain hydrogen sulfide, and would therefore normally be exempt from having to provide H2S planning and protective equipment, they feel that it would be prudent on their part to provide similar planning to protect the onsite personnel from other known sour gas locations and facilities in the general area. There is at least one such location and a pipeline that are close enough to be considered 'potential' problems. For that reason, this Contingency Plan has been developed as an additional means of protection for the personnel that will be working on location. The following preventative measures shall be taken to control the effects of toxicity, flammability and corrosive characteristics of H2S and SO2 gas upon the drilling crew and others in the immediate area who may encounter it.

- All personnel should become familiar with all safety equipment on the location - its' use and availability. The windsocks and wind streamers are provided to indicate wind direction so that a 'safe' briefing area can be easily defined. All personnel should become 'wind conscious' and observe these wind direction indicators at all times.
- The well site perimeter will be monitored on a 24 hour basis by a solid-state, continuous-monitoring, H2S detector. Two sensors and a controller with alarm light and siren will be installed. All personnel should be prepared to use their protective breathing equipment in the event that the H2S detector activates the alarms.
- All personnel will receive instructions on the use of safety equipment and what to do during an H2S emergency. Drills will be conducted on a regular basis to familiarize all personnel with their specific assignments during an H2S emergency.

## Section II. Training

### A. Program

A safety and protection training program shall be given to all personnel whether regularly assigned, contracted, or employed on an unscheduled basis, in the characteristics and severity of H<sub>2</sub>S and SO<sub>2</sub> gas, use of gas detectors and alarms, air pack operation, manifolding and refilling operations, ventilation equipment, prevailing winds, briefing areas, warning systems, evacuation routes and procedures. They shall be required to perform and operate as if in an H<sub>2</sub>S environment with the desired proficiency level to safely perform their job tasks and assignments. Information and procedures shall be prominently posted at the drilling site to achieve the stated safety objectives. An initial H<sub>2</sub>S training program shall be established and records of attendance shall be maintained at the drilling site. Emphasis will be placed upon rescue and first aid for H<sub>2</sub>S victims during subsequent onsite training drills. At least one person shall have completed a basic first aid course and will be available on location at all times.

All personnel shall be instructed in the following prior to their permanent assignment on location:

- Characteristics, properties, and toxicity of H<sub>2</sub>S and SO<sub>2</sub> gas.
- Potential Sources.
- Wind direction and ventilation equipment.
- Detection equipment and alarms.
- Personal protective equipment.
- Symptoms of exposure.
- First aid for H<sub>2</sub>S victims.

During an emergency, personnel should utilize the 'buddy system' for mutual safety. If a person is overcome by H<sub>2</sub>S, do not attempt a rescue unless you are adequately protected. If you are wearing an air pak, do not remove the mask until you are certain that the ambient air is safe to breathe. This can only be accomplished by testing the air with some type of portable detector or other definite means. If a sudden gas leak occurs:

- Hold you breath and don protective breathing equipment. Evacuate the area and move upwind -- uphill if possible.

- **Help anyone that may be affected by the** While wearing protective equipment, assist anyone that may have been overcome. Remove them to a safe briefing area and administer oxygen, if available, or mouth-to-mouth resuscitation.
- **Evacuate quickly to the safe briefing area.** Standby for instructions from the company representative or his designee.

## B. Characteristics of H<sub>2</sub>S

H<sub>2</sub>S is a highly toxic and colorless gas. When inhaled in high concentrations it can cause almost immediate death. Even low concentrations can affect the eyes as well as the respiratory tract. The principal hazard is death by inhalation. When the amount of gas absorbed into the blood stream exceeds that which is readily oxidized, systemic poisoning results with a general action on the nervous system. Labored respiration occurs shortly and respiratory paralysis will follow immediately at 700 PPM and above. Death will occur from asphyxiation unless the exposed person is removed immediately to fresh air and breathing stimulated by artificial respiration. Because of its' rapid action, H<sub>2</sub>S is considered one of the most dangerous industrial gases.

## C. Properties of H<sub>2</sub>S

- **ODOR** - very offensive - commonly referred to as the odor of rotten eggs - can deaden the sense of smell
- **COLOR** - colorless
- **FLAMMABILITY** - highly flammable - 3 times as flammable as natural gas.
- **EXPLOSIVE LIMITS** - 4.3% to 46% by volume in air - forms explosive mixtures with air or oxygen
- **SPECIFIC GRAVITY** - 1.189 (air =1) - will settle in low lying areas and remain concentrated unless dispersed
- **CORROSIVE EFFECTS** - highly corrosive to certain metals - forms acid when mixed with water or moisture
- **SOLUBILITY** - water soluble

## D. Toxicity of H<sub>2</sub>S

- **1 ppm** - can be detected by sense of smell

- **10 ppm** - Threshold Limit Value and Permissible Exposure Limit - must wear protective breathing equipment above this concentration
- **100 ppm** - Kills sense of smell in 3 to 15 minutes and may burn eyes and throat
- **200 ppm** - Kills sense of smell quickly and will burn eyes and throat
- **500 ppm** - Loss of reasoning and balance - respiratory disturbances in 2 to 15 minutes
- **700 ppm** - Unconscious quickly - breathing will stop - death immediately if not rescued
- **1000 ppm** - Unconscious at once - death immediately if not rescued

## **SECTION III. PERSONAL PROTECTIVE EQUIPMENT**

### **A. Safety Equipment List**

The following equipment will be installed on location immediately after rig up:

- 4 30 Minute SCBAs
- 4 Spare 30 Minute Cylinders
- 6 5 Minute Emergency Escape Modules
- 1 2 Channel H2S Detector
- 1 Alarm Light/Siren Combination
- 1 Portable H2S/LEL Meter
- 1 Gastec Pump w/assorted colorimetric tubes for H2S and SO2

### **B Location of Equipment**

- 1 30 Minute Air Pak in Company Representative Trailer
- 3 30 Minute Air Paks on rig floor
- 1 5 Minute Escape Module for each service company representative on site
- 2 H2S Sensors strategically located on the hazard side of the site perimeter
- 1 Alarm Light/Siren Combination above rig floor
- 1 Portable H2S/LEL Meter on rig floor
- 1 Gastec Pump w/assorted tubes on rig floor
- 1 Windsock above rig floor
- 2 Windsocks located strategically on perimeters of well site

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/22/94

API NO. ASSIGNED: 43-043-30303
--------------------------------

WELL NAME: CAVE CREEK 1-19  
 OPERATOR: COASTAL OIL & GAS CORP (N0230)

PROPOSED LOCATION:  
 SWNE 19 - T05N - R08E  
 SURFACE: 1600-FNL-1600-FEL  
 BOTTOM: 1600-FNL-1600-FEL  
 SUMMIT COUNTY  
 WILDCAT FIELD (001)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering	<i>JM</i>	3/8/94
Geology	<i>D</i>	2/25/94
Surface	<i>JH</i>	1/12/93

LEASE TYPE: FEE  
 LEASE NUMBER:

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal[] State[] Fee[]  
 (Number 102103)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
 (Number 2008554 F-101 AND 200872)
- RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

- R649-2-3. Unit: \_\_\_\_\_
- R649-3-2. General.
- R649-3-3. Exception.
- Drilling Unit.  
 Board Cause no: 1842  
 Date: 8.25.93

COMMENTS: TWIN CREEK 640 ACRE LOTS

STIPULATIONS: SEE ATTACHED 247-SITE FORM

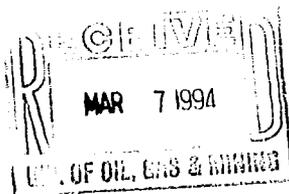
1. Bonding
2. Surface use agreement
3. The reserve pit shall be constructed on the northwest portion of the location.
4. A <sup>topsoil</sup> layer of 12 mil (minimum) thickness will be required.
5. Surface soil materials shall be stockpiled between the location and the roadway.



**Coastal**  
*The Energy People*

March 3, 1994

Mr. Mike Hebertson  
Division of Oil, Gas & Mining  
State of Utah  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203



RE: Cave Creek #1-19 Contingency Plan

Dear Mr. Hebertson:

For our second try, please find enclosed a new H<sub>2</sub>S Contingency Plan which we hope will satisfy your requirements. If you have any questions, please give me a call at (303) 573-4476.

Thanks for your patience.

Cordially,

Joe Adamski  
Environmental Coordinator

Attachments

# **H<sub>2</sub>S CONTINGENCY PLAN**

**Cave Creek #1-19  
1600' FNL & 1600' FEL  
Section 19-T5N-R8E  
Summit County, Utah**

**Coastal Oil & Gas Corporation**

DIRECTIONS TO LOCATION- Cave Creek # 1-19

Directions start from Evanston I-80 exit on west side of town. Take the Yellow Creek Road (County Highway 151) south for 9.0 miles. Turn right onto dirt road and go through gate with Anschutz Cave Creek sign. Follow this dirt road for 1.5 miles and turn right at junction in road. Stay on this road for 1.0 miles into location. The total distance from the I-80 exit to location is 11.5 miles.

## CHARACTERISTICS OF HYDROGEN SULFIDE

Hydrogen sulfide is a highly toxic gas which, when inhaled in relatively low concentrations, can rapidly cause death. It is also highly flammable, being classified by the U.S. Department of Transportation as a flammable compressed gas. Certain concentrations in the air can burn upon ignition.

Although at lower concentrations it has a characteristic odor of rotten eggs, at higher concentrations it cannot be smelled at all. Therefore, odor cannot be depended upon as a means of detection of the gas.

Hydrogen sulfide is extremely toxic. The acceptable ceiling concentration for eight-hour exposure according to the ACGIH and government standards is 10 ppm, which is .001 percent by volume.

Hydrogen sulfide is heavier than air (specific gravity = 1.19) and colorless. It forms a flammable mixture with air between 4.3 and 46.0 percent by volume, and burns to produce Sulfur Dioxide (SO<sub>2</sub>). SO<sub>2</sub> is considered by NIOSH to be a hazard to humans. It is a colorless, very irritating gas with a pungent odor and taste. It does not inhibit the sense of smell, but causes irritation to nose and throat which may result in choking and gagging. These symptoms are sufficiently disagreeable that most persons will not tolerate them for more than short periods. Exposure to higher concentrations of SO<sub>2</sub> may lead to chemical pneumonia. The government standard for exposure to sulfur dioxide is 2 ppm for an 8-hour period. Whenever exposure to any concentration of these gases exceeding ACGIH or government standards is anticipated, the use of protective breathing equipment is required.

## TOXICITY OF HYDROGEN SULFIDE TO MAN

The following table describes the toxicity of H<sub>2</sub>S concentrations, expressed as parts of H<sub>2</sub>S per million parts of air (PPM).

10 PPM	Obvious and obnoxious odor; has the characteristic odor of rotten eggs. Eye irritation begins in the range of 10 to 30 ppm. Safe for 8 hours exposure. Everyone must wear respiratory protective equipment at concentrations above this level.
20 PPM	Former TLV or Safe Working Level
100 PPM	Impairs the sense of smell after 2 to 15 minutes exposure; alters respiration, causes pain in eyes, and drowsiness after 15 to 30 minutes, and throat irritation after 1 hour.
200 PPM	Quickly eliminates the sense of smell; may result in death after 8 to 48 hours of continuous exposure.
500 PPM	Causes loss of sense of reasoning and balance produces respiratory paralysis in 30 to 45 minutes exposure, and death in exposures of 1 to 4 hours. Victim requires prompt artificial resuscitation.
600 PPM	Causes death within 30 to 60 minutes, if not rescued and given immediate artificial resuscitation.
1000 PPM	Causes immediate loss of consciousness; permanent brain damage may result if not rescued promptly and resuscitated.

## RESPIRATORY PROTECTIVE EQUIPMENT

When the H<sub>2</sub>S concentration in the work environment exceeds a minimum of 10 ppm during an 8-hour period of continuous exposure, respiratory protective equipment must be worn. If the H<sub>2</sub>S concentration reaches damage levels shown in the table, respiratory equipment is necessary to prevent injury for whatever exposure time. At higher concentration levels, a self-contained air breathing apparatus and a life line should be used.

## TESTING FOR HYDROGEN SULFIDE

NEVER rely on the sense of smell to guess what the H<sub>2</sub>S concentration may be. A relatively small amount of H<sub>2</sub>S quickly impairs the sense of smell. Always use an approved H<sub>2</sub>S detector to test for H<sub>2</sub>S concentrations, and respiratory protection should always be used when testing for the presence of H<sub>2</sub>S.

## FIRST AID TREATMENT OF HYDROGEN SULFIDE VICTIMS

A person who is overcome by hydrogen sulfide must be removed to an area clear of gas immediately and artificial respiration started at once. Any delay in the start of artificial respiration appreciably reduces the chance of recovery. Four minutes of delay reduces the chance for recovery to 50-50. The recommended method of artificial respiration is mouth-to-mouth using current techniques and barriers when available. Additional rescue procedures and first aid will be further described during the individual safety training of all personnel on location.

### TREATMENT FOR HYDROGEN SULFIDE POISONING

#### Inhalation

As hydrogen sulfide in the blood oxidizes rapidly, symptoms of acute poisoning pass off when inhalation of the gas ceases. It is important, therefore, to get the victim of poisoning to fresh air as quickly as possible. He should be kept at rest and chilling should be prevented. If respiration is slow, labored, or impaired, artificial respiration may become necessary. Most persons overcome by hydrogen sulfide may be revived if artificial respiration is applied before the heart action ceases. Victims of poisoning should be under the care of a physician as soon as possible. Irritation due to subacute poisoning may lead to serious complications such as pneumonia. Under those conditions, treatment by a physician necessarily would be automatic. The patient should be kept in fresh air and hygienic conditions should be watched carefully.

#### Contact with Eyes

Eye contact with liquid and/or gas containing hydrogen sulfide will cause painful irritation (conjunctivitis). Keep patient in a darkened room, apply ice compresses to eyes, put ice on forehead, and send for a physician. Eye irritation caused by exposure to hydrogen sulfide requires treatment by a physician, preferably an eye specialist. The progress to recovery in these cases is usually good.

#### Contact with Skin

Skin absorption is very low. Skin discoloration is possible after contact with liquids containing hydrogen sulfide. If such skin contact is suspected, the area should be thoroughly washed.

RESUSCITATION CHART

D I D      Y O U      K N O W    ?

THERE IS NOT TIME TO WASTE  
WHEN BREATHING STOPS!

ARTIFICIAL RESUSCITATION MUST BE STARTED IMMEDIATELY!!!

After Breathing is Stopped for:	The Chances for Life are:
1 Minute	98 out of 100
2 Minutes	92 out of 100
3 Minutes	72 out of 100
4 Minutes	50 out of 100
5 Minutes	25 out of 100 *
6 Minutes	11 out of 100 *
7 Minutes	8 out of 100 *
8 Minutes	5 out of 100 *
9 Minutes	2 out of 100 *
10 Minutes	1 out of 100 *
11 Minutes	1 out of 1,000 *
12 Minutes	1 out of 10,000 *

\* Irreparable brain damage starts at about the fifth minute.

COOL-HEADED ACTION IN RESCUE IS CRITICAL

## OPERATIONS

1) All respiratory protective equipment and H2S monitoring equipment will be rigged up prior to spudding the well. All personnel will be fully trained in H2S safety procedures at this time.

2) A 2 channel continuous H2S monitoring system will be used to constantly monitor for hydrogen sulfide. The monitor console will be located in an area that is easily accessible and controlled, with 1 alarm light and 1 siren situated so that they can be observed from any point on the location. Additional alarms and buzzers may be installed around the location as needed to ensure that everyone is cognizant of any H2S alarms. The monitor heads will both be located on the upwind side of the location to detect any hydrogen sulfide before it would pose a potential hazard to personnel working on location. The heads will be placed 1) the northern end of the reserve pit near the mud logger's trailer. 2. The southwest corner of location near the escape path. The sensor heads will be calibrated to activate a revolving red beacon should 10+ ppm H2S be detected by any single monitor head. Should 15+ ppm or higher H2S be detected, a loud siren will alarm. Personnel will be trained to take action to protect themselves, and for non-essential personnel to proceed to the upwind briefing area when alarms sound.

3) 2 Gastec/ Sensidyne pump-type hand-held gas detectors will be available on the drilling location. These detectors use colorimetric tubes to detect the presence of H2S and SO2 at specific areas.

4) 3 windsocks will be strategically placed around the location to ensure that wind direction is easily determined by all personnel. One wind indicator will be mounted on or near the rig floor to be readily visible to rig crews when tripping. Windsocks will be in illuminated areas to be visible 24 hours a day.

5) At least two (2) Safe Briefing Areas (SBA) will be located on the location. These areas will be situated to ensure that at least one area will always be upwind. Each Safe Briefing Area will include 3-300 cu. ft. bottles of compressed breathing air cascaded together, 1-filler hose, and 1-Scott 30 minute rescue air pack.

6) No smoking areas will be established and "No Smoking" signs posted.

7) Reliable 24-hour radio communication will be established from the drilling rig and emergency call lists and contacts will be near this communication system.

8) Chalk-boards and writing markers will be provided for emergency communication purposes.

9) A warning sign will be posted on location entrance road and a three color flag system will be used to indicate current location status and potential hazard. Additionally, a H2S warning sign and standby barricades will be placed at the junction of the location access road and the road to the other wells in the area.

10) Six (6) Scott Ska-Paks (5 minute egress bottle) will be provided for the operation and placed to assure that all personnel have an emergency air mask available.

a) At least three (3) units on the rig floor

b) The remainder to be strategically placed around the location to provide emergency breathing air for service personnel.

11) Six (6) Scott 30 min. rescue packs will be located for personnel involved in emergency operations, including:

a) Two (2) on the rig floor or adjacent doghouse.

b) One (1) at each safe briefing area.

c) One (1) at rig toolpusher's quarters.

d) One (1) in Coastal's drilling representative's quarters.

12) Spectacle kits will be available for the Scott airpaks for personnel that require corrective lenses for adequate vision.

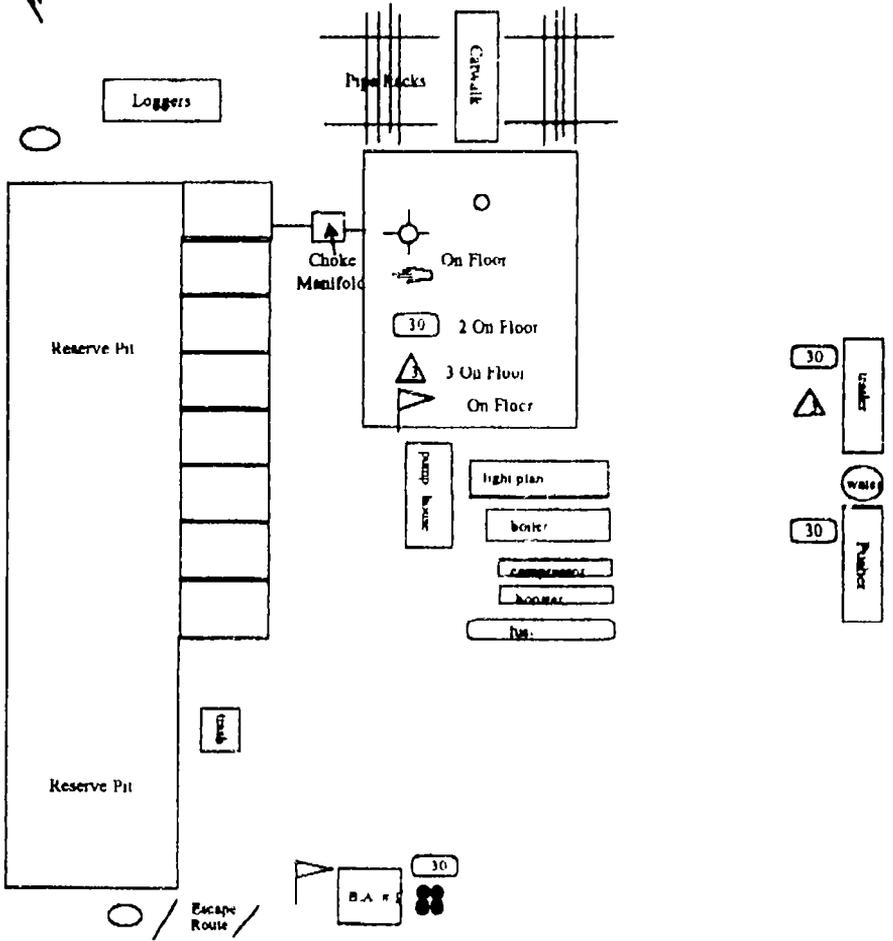
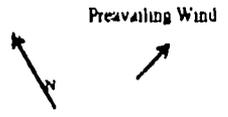
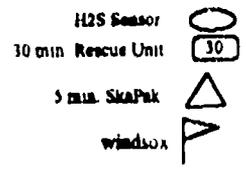
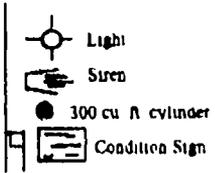
13) Safety meetings and training sessions will be held at frequent intervals. All persons required to work on location will be thoroughly familiar with the use, care and servicing of the safety equipment on location.

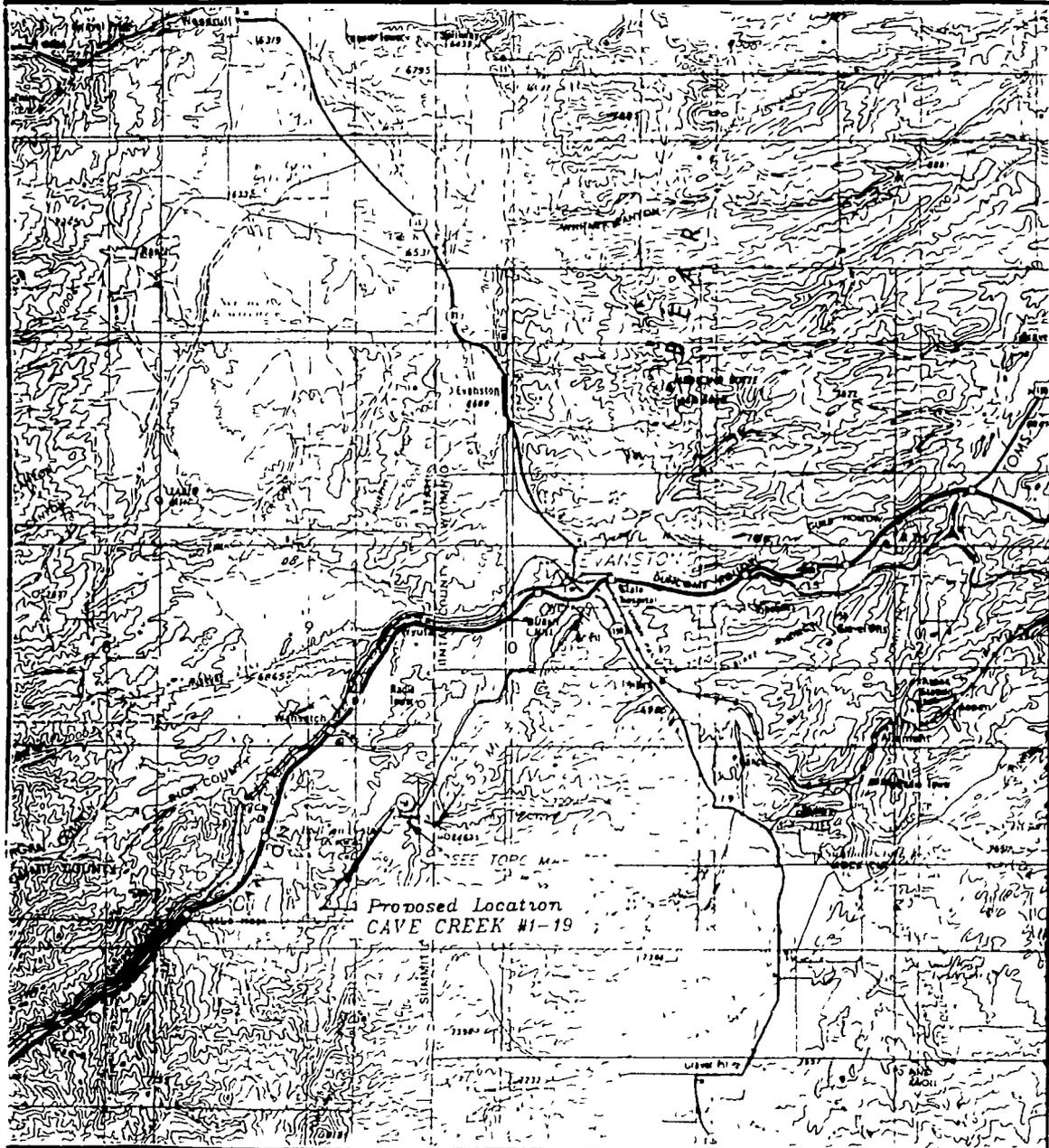
### H2S SAFETY EQUIPMENT ON LOCATION

1. 1 electronic continuous H2S detector with 2 sensors, 1 light alarm and 1 siren alarm.
2. Six (6) Scott Ska-Paks (5 minute egress units)
3. Six (6) Scott 30 minute rescue SCBAs (positive pressure, NIOSH and MSHA approved)
4. Two Gastec/ Sensidyne portable hand operated pump type detectors with low and high range H2S detector tubes and SO2 detection tubes.
5. Three wind socks with poles.
6. At least two high pressure compressed air refill hoses.
7. Two H2S condition signs w/ three flag system - 1 at location entrance and 1 sign at location entrance road turnoff.
8. 1 battery powered bullhorn and writing board.
9. Three 300 cu. ft. refill cylinders with each Briefing Area station

NOTE: Additional equipment will be added if conditions require.

Conatal Oil & Gas Co.  
 Cave Creek # 1-19  
 Summit County, Utah





TOPOGRAPHIC

MAP "A"

DATE 1-2-68 G.S.

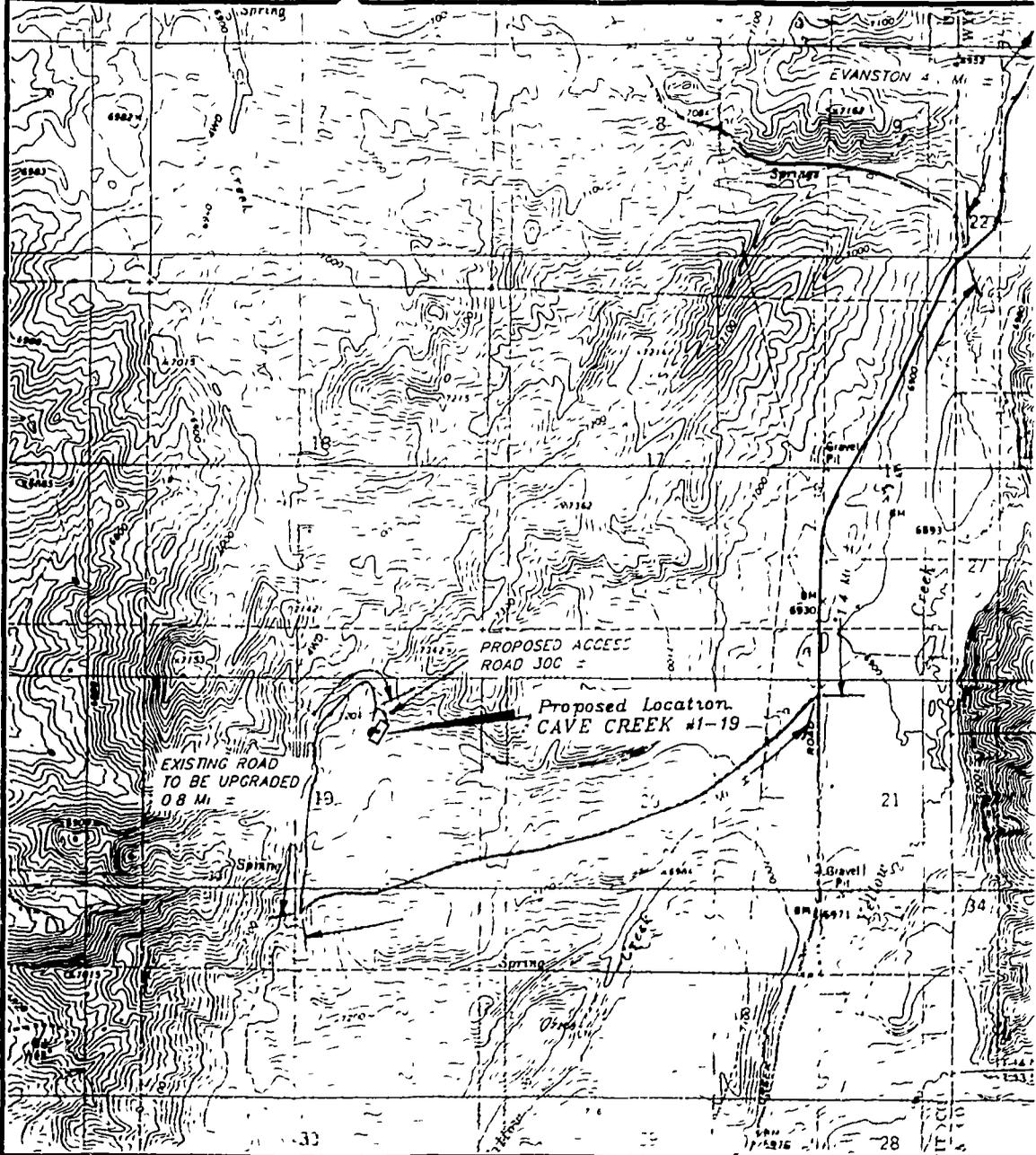


COASTAL OIL & GAS CORP

CAVE CREEK #1-19

SEC 04, 19 T5N, R8E S. 1, 2, 3 & 4

600 FEET 1600' FEET

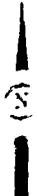


TOPOGRAPHIC

MAP "B"

SCALE: 1" = 2000'

DATE: 12-3-93 D.S.C.



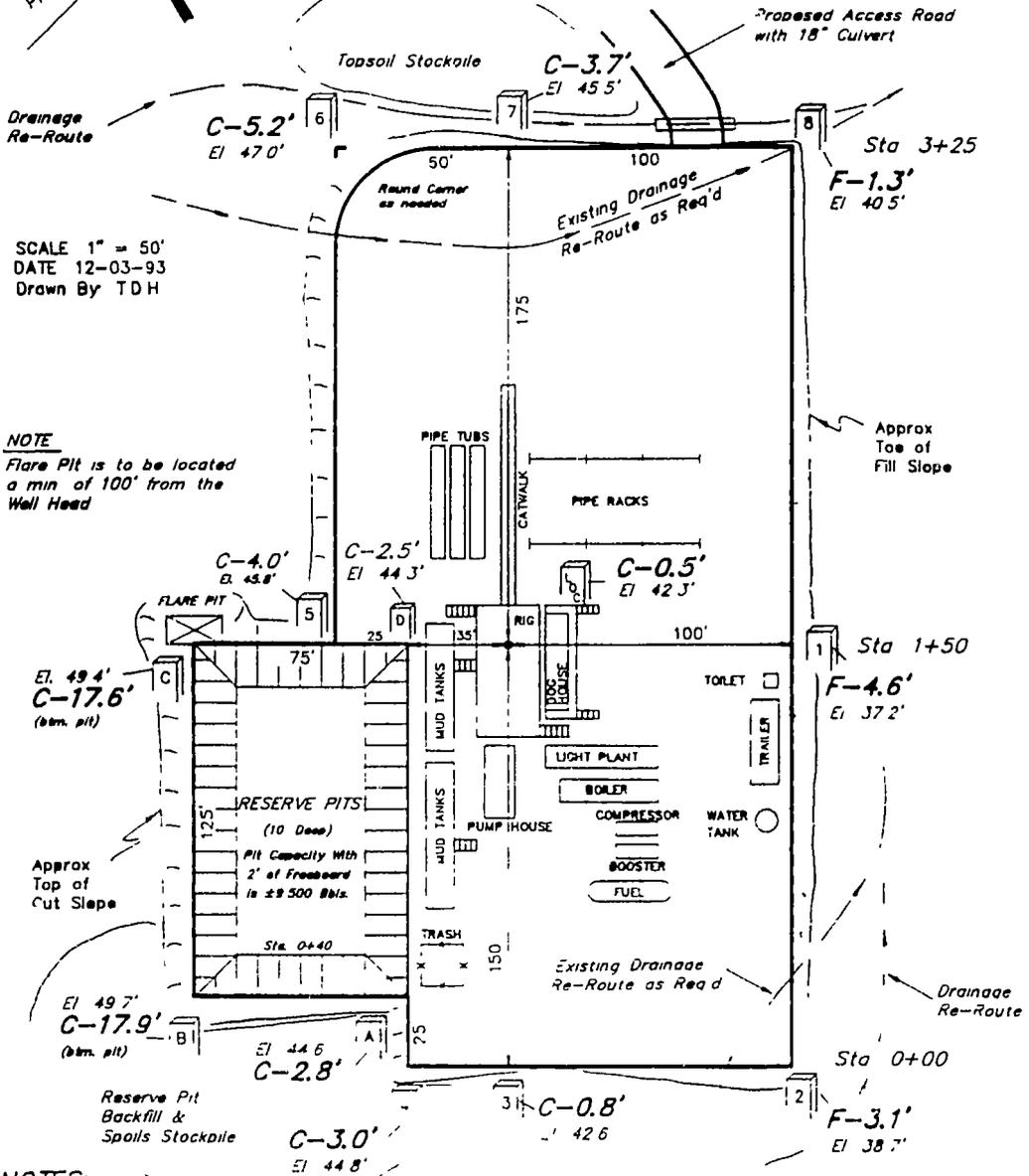
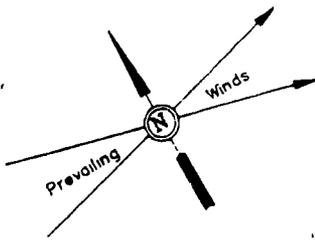
COASTAL OIL & GAS CORP

CAVE CREEK #1-19  
SECTION 19 T5N R8E, S13 & 14  
1600' FNL 1600' FEL

# COASTAL OIL & GAS CORP.

## LOCATION LAYOUT FOR

CAVE CREEK #1-19  
SECTION 19, T5N, R8E, S1B & M  
1600' FNL 1600' FEL

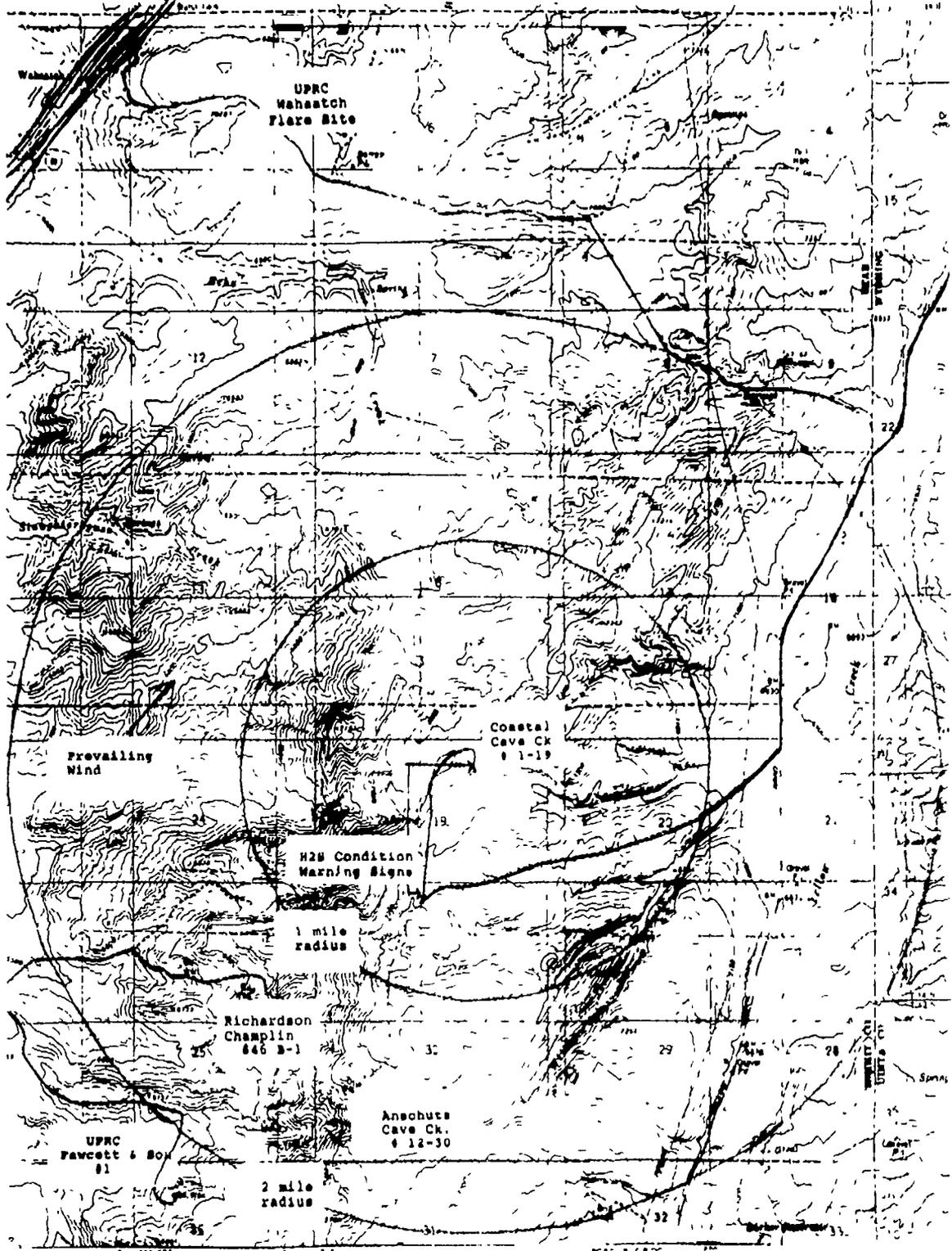


### NOTES:

Elev Ungraded Ground At Loc Stake = 7142.3'

FINISHED GRADE ELEV. AT LOC. STAKE = 7141.8'

FIGURE #1



## H2S SAFETY TRAINING

All personnel on the drilling rig, all support personnel, visitors will be trained in H2S safety procedures.

This training will include, but not be limited to:

- 1) The potential hazards and characteristics of H2S and SO2.
- 2) The effects of these gases on man and materials.
- 3) Operation and limitations of all types of respiratory protective equipment available on the location with thorough hands-on practice both for routine and emergency donning.
- 4) The different types of H2S and SO2 detection and alarm equipment available on the drillsite and how to interpret this equipment.
- 5) Prevailing winds and safe briefing areas.
- 6) Rescue and H2S first aid procedures.
- 7) Working with the buddy system.
- 8) Emergency procedures to follow including company preferred well shutin procedures.

## ACTION PLAN FOR H2S EMERGENCY

Should the H2S monitor alarms sound indicating the presence of hydrogen sulfide on location, the following actions will be taken:

- 1) All personnel on location must don protective breathing equipment and immediately follow the "buddy system" as prescribed during H2S training drills.
- 2) The Coastal drilling foreman will provide direction as to duties of drilling personnel depending on the current rig activity.
- 3) Monitor for hydrogen sulfide with portable gas detection equipment while following the directions of the Coastal drilling foreman.
4. Verify the drillsite "head count" and search out and assist any missing or distressed personnel.
5. Ensure that all non-essential personnel are in a safe upwind briefing area and that no new visitors are allowed on location.

Personnel within 2 mile radius of Cave Creek # 1-19

<u>MAP REFERENCE</u> <u>NUMBER</u>	<u>NAME OF</u> <u>RESIDENT</u>	<u>NUMBER OF</u> <u>PERSONS</u>	<u>TELEPHONE NUMBER</u> <u>AREA CODE</u>
Richardson Chaplin 846 B-1	Chaplin 846 B-1 Richardson Oil	1-2	Dave Cline Pumper Office....307-783-2982 Home.....307-789-2426
Compressor Operator	Halliburton Energy	1	Rock Springs Office..307-362-4421 24 hour call number
Cave Creek # 12-30	Cave Creek # 12-30 Anschutz Co. well		
Pumper	Questar Pipeline	1-2	Jim Mathson Foreman Office...307-783-2406 24 hour Gas Control..801-534-5626
Compressor Operator	Production Operators Inc.	1-3	Dennis Morgan Foreman Office...307-789-5331
Dehy Operator	Questar Pipeline	1-2	Jim Mathson Foreman Office...307-789-6395 24 hour Gas Control...801-534-5626

There are no residences within 2 mile radius of this well.

**COASTAL OIL & GAS CORPORATION  
EMERGENCY CALL LIST  
CAVE CREEK #1-19**

**COASTAL OIL & GAS CORPORATION, DENVER DISTRICT**

600 17th Street, Suite 800S  
Denver, Colorado 80201

(303) 572-1121

**OPERATIONS VICE PRESIDENT - Randy Bartley**

Office  
Home

(303) 573-4458

(303) 690-1678

**DRILLING SUPERINTENDENT - Ned Shiflett**

Office  
Home

(303) 573-4455

(303) 674-8313

**DRILLING REP (LOCAL) - Larry Tavegia**

Home  
Mobile

(801) 789-1717

(801) 828-7255

**ADDITIONAL LOCAL CONTACTS - PRODUCTION PERSONNEL, ENGINEERING**

**SR. PETROLEUM ENGINEER (DRILLING) - Rodney Cox**

Office  
Home

(303) 573-4488

(303) 791-8896

**PRODUCTION SUPERINTENDENT - Les Streeb**

Office  
Home

(303) 573-4486

(303) 741-0725

**PRODUCTION FOREMAN - Paul Breshears**

Office  
Home  
Mobile

(801) 789-4433

(801) 789-8877

(801) 789-6239

**ENVIRONMENTAL & SAFETY (DENVER DISTRICT) - Joe Adamski**

Office  
Home

(303) 573-4476

(303) 828-3045

**ENVIRONMENTAL & SAFETY (CORPORATE)**

24 Hours

(800) 877-3933

**DRILLING CONTRACTOR - To Be Announced**

Manager  
Office  
Home  
Mobile

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

**SAFETY CONTRACTOR - To Be Announced**

Office  
Home  
Mobile

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

## Emergency Call List

### Local Officials and Medical Contacts

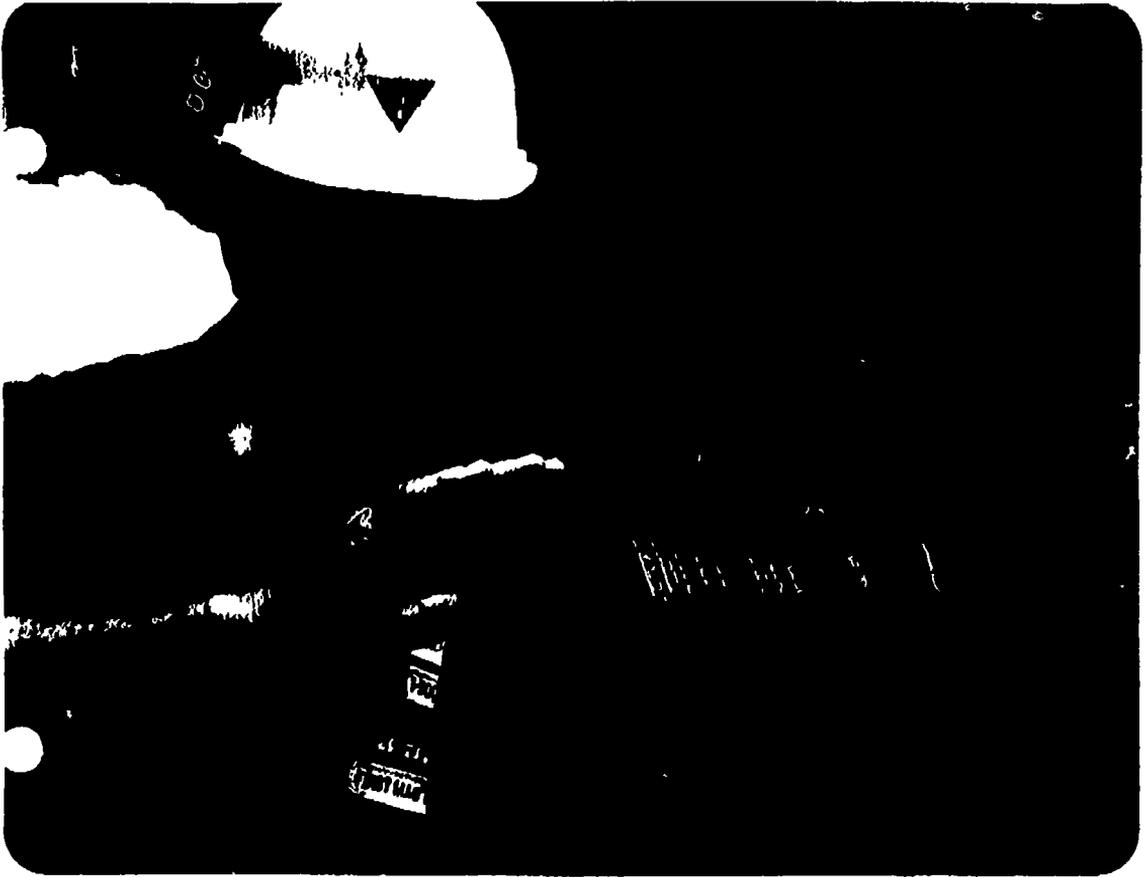
Local Services are from Evanston, WY, unless otherwise noted  
The next page lists contacts for Summit County, Utah

SHERIFF....Uinta County, WY. (Evanston, WY.#'s)...(307) 789-2331  
AMBULANCE....Evanston, WY..... 911  
HOSPITAL.....IHC Evanston.(307) 789-3636  
DOCTOR.....On Call At Hospital Emergency Room  
HIGHWAY PATROL....(Wyoming).....1-800-442-9090  
HELICOPTER....Air Med - Salt Lake City, UT.....1-800-453-0120  
FIRE.....Evanston, WY .....789-8052.....or....911  
SEARCH AND RESCUE..... (307)789-2331  
POISON CONTROL ..Rocky Mt. Poison Center.....1-800-955-9119  
UNION PACIFIC RESOURCES ...Evanston Office.....(307)789-1573  
Pete Straub-Operations Superintendent.....Home..(307) 789-1576  
Mobil (307) 799-7848

Radio Answering Service - Alexander Answering Service 307-789-9565

Additional Notification Numbers

1. Utah Oil, Gas, & Mining Division.....(801) 538-5340  
Salt Lake City, Utah
2. Summit County Sheriff .....(801) 336-4461  
Coalville, Utah
3. Summit County Emergency Response Coordinator  
Lamar Richins .....(801) 336-2589  
(801) 336-4461
4. Utah Highway Patrol.....(801) 965-4029
5. Bureau of Land Management - Utah State Office  
Bear River District.....(801) 977-4300



**HYDRIL<sup>®</sup>**

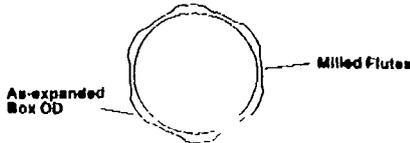
# Series 500™ Type 521 Casing Connection

Your best choice for horizontal  
wells and large diameter pipe

# Type 521 EFFICIENCY and TORQUE VALUES

PIPE				CONNECTION								PIPE				CONNECTION							
Size OD & Weight (Nominal)	Wall Thick. (Inch)	Efficiency		Minimum Make-up Torque (ft Lbs)	Yield Torque (Max Torque)				Size OD & Weight (Nominal)	Wall Thick. (Inch)	Efficiency		Minimum Make-up Torque (ft Lbs)	Yield Torque (Max Torque)									
		Bending & Tension (%)	Compression (%)		J 55 K 55	M 80 L 80	T 95 HC 95	P 110			Bending & Tension (%)	Compression (%)		J 55 K 55	M 80 L 80	T 95 HC 95	P 110						
4 000 8.50	0.228	82.4	88.2	2600	6500	12400	14700	17000	8 625 43.50	0.435	72.6	85.7	11700	60000	86000	104000	121000						
4 000 11.00	0.282	86.8	85.0	8100	8600	12400	14700	17000	8 625 47.00	0.472	74.8	86.8	12800	60000	86000	104000	121000						
4 000 11.00	0.288	80.1	86.8	3400	8600	12400	14700	17000	8 625 53.50	0.545	77.3	87.8	14800	60000	86000	104000	121000						
1 500 10.50	0.274	61.7	63.0	3100	11000	16000	19000	22000	10 750 49.50	0.350	63.5	77.6	10200	85000	124000	147000	170000						
1 500 1.00	0.127	63.5	63.0	3300	11000	16000	19000	22000	10 750 45.50	0.400	66.9	70.5	11800	85000	124000	147000	170000						
4 500 11.50	0.250	65.2	84.4	3600	11000	16000	19000	22000	10 750 51.00	0.450	70.7	81.7	13600	85000	124000	147000	170000						
4 500 12.00	0.271	67.5	85.2	4500	11000	16000	19000	22000	10 750 58.00	0.496	72.3	84.1	17000	102000	149000	176000	204000						
4 500 13.50	0.290	68.2	85.9	4900	11500	16000	19000	22000	10 750 60.70	0.525	74.2	85.2	18900	102000	149000	176000	204000						
5 000 13.00	0.253	65.3	84.4	4100	13600	18700	23400	27200	10 750 66.70	0.586	78.1	84.8	22100	102000	149000	176000	204000						
6 000 18.00	0.296	68.8	86.1	4800	15800	19700	26600	31200	11 750 47.00	0.375	64.4	77.9	11400	107000	149000	176000	204000						
8 000 18.00	0.342	70.8	86.1	6000	16800	19700	26600	31200	11 750 54.00	0.435	68.7	80.4	13400	102000	149000	176000	204000						
5 500 14.00	0.244	64.5	84.0	4000	16500	24000	28500	33000	11 750 57.00	0.468	70.5	80.4	17800	122000	178000	216000	250000						
5 500 15.50	0.275	67.9	85.4	4600	16500	24000	28500	33000	11 750 62.00	0.515	73.8	80.4	19800	122000	178000	216000	250000						
5 500 17.00	0.304	70.5	86.4	5200	16500	24000	28500	33000	11 750 69.00	0.580	77.5	82.1	24000	122000	178000	216000	250000						
5 500 20.00	0.361	74.6	84.0	6300	16500	24000	28500	33000	11 875 71.00	0.587	74.7	85.4	26600	125000	182000	216000	250000						
5 500 23.00	0.415	77.1	89.0	7300	16500	24000	28500	33000	13 375 77.00	0.550	69.3	85.3	27700	196000	285000	339000	392000						
7 000 23.00	0.317	63.8	86.0	6200	17000	24000	30000	35000	13 375 80.70	0.580	70.6	85.8	26500	196000	285000	339000	392000						
7 000 26.00	0.382	71.7	87.3	7200	17000	24000	30000	35000	13 375 85.00	0.608	71.8	86.4	31200	196000	285000	339000	392000						
7 000 29.00	0.408	74.4	88.4	8300	17000	24000	30000	35000	13 375 86.00	0.625	72.4	86.6	32200	196000	285000	339000	392000						
7 000 32.00	0.453	76.5	89.1	9300	17000	24000	30000	35000	15 000 77.43	0.500	66.0	77.7	21900	196000	285000	339000	392000						
7 000 35.00	0.498	78.2	89.8	10100	17000	24000	30000	35000	16 000 109.00	0.656	71.5	85.0	39500	285000	414000	492000	570000						
7 000 38.00	0.540	78.6	90.3	11200	17000	24000	30000	35000	16 000 118.00	0.715	73.5	86.0	43000	285000	414000	492000	570000						
8 625 32.00	0.352	68.7	83.4	6600	48000	70000	83000	96000	18 625 109.35	0.563	65.2	80.8	44500	386000	561000	666000	772000						
8 625 36.00	0.400	71.8	85.1	10200	48000	70000	83000	96000	18 625 112.00	0.578	68.1	81.3	46000	386000	561000	666000	772000						
8 625 40.00	0.450	74.6	87.3	11600	48000	70000	83000	96000															
8 625 44.00	0.500	76.6	88.1	13000	48000	70000	83000	96000															
8 625 48.00	0.557	78.7	89.0	14600	48000	70000	83000	96000															

Many factors influence torque application. To ensure that minimum torque is obtained, a field target torque 15% over minimum is recommended. An appropriate safety factor should be applied to these yield torque values.



Type 521 is available with an optional fluted box OD. Rather than turning the OD as is done on the standard product, the as expanded box has several flutes milled around the circumference of the box. These flutes promote flow around the entire circumference of the connection during circulation to enhance cement placement. They also provide a modest degree of pipe centralization with no reduction in performance. The maximum OD of Type 521 FB is about 1/8 inch larger than the turned OD of the standard product.

Headquarters  
Hydril Company  
P O Box 80458  
Houston, Texas 77205 0458  
Telephone (713) 449 2000  
FAX (713) 985 3459  
TLX 168905 HYDRIL CSD HOU



**HYDRIL®**

International Sales Headquarters  
Hydril S A  
P O Box 163 CH 1709  
Fribourg, Switzerland  
Telephone 41 37 821251  
FAX 41 37 248397  
TLX (645) 942 642 HYIS CH

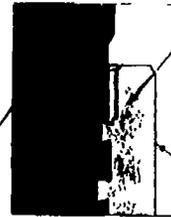
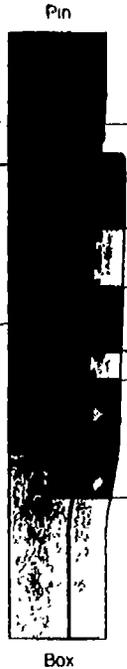
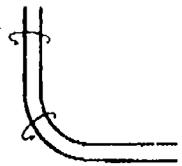
# Type 521 FEATURES

Integral design eliminates concerns associated with coupled connections about mill end leaks, damage during burk on, and coupling material sourcing and traceability.

Visual confirmation of make-up is ensured by the circumferential roller-striated make-up band on the pin.

Excellent for large diameter pipe: the dovetail thread virtually eliminates thread pull-out, a common problem on thin wall pipe. Type 521 offers a unique combination of structural capability and small OD on large diameter pipe. The coarse pitch thread eliminates cross threading during make-up.

Field-proven in horizontal and extended reach wells: the wedging effect produces outstanding torsional strength for rotation while bonding during wash-down and cementing. Loading opposing thread flanks simultaneously prevents excessive rotation and damage from over torque. Interlocking dovetail threads resist the simultaneous tension and compression created by bending.



Good structural capability is developed by machining this integral connection on Hydril formed ends. Tension and bending strengths range up to 80% of the pipe body with compression strength exceeding tension.

Stream-lined OD in the running and circulating direction virtually eliminates down hole hang up. There is no coupling face to interfere with smooth running in slim and deviated holes.

Sealing is provided by the full form contact of the dovetail threads and the lubricant. Type 521 is rated at 100% of the pipe body for internal and external hydrostatic pressure. Threads are field repairable.

Broad pin face reduces stabbing damage. Minor damage to the pin face, which does not function as a seal or shoulder, can be field repaired.

Series 500 Type 521 is unequalled in its combination of structural capabilities. It offers strengths in torque, bending, tension and compression, all on a stream-lined OD for good clearance. Type 521 is available on pipe from 4 inch through 18 inch.

This casing connection excels in structurally demanding applications such as horizontal and extended reach wells. Its capability of rotation-while bonding is unsurpassed. This casing has been run into medium and long radius horizontal and extended reach wells where it has been rotated comfortably during wash-down and cementing. Operators in Canada, Europe, Texas, California and Southeast Asia have had excellent results.

Type 521 solves two frequent problems on large diameter casing: cross threading and parting in thin wall pipe, both all too common with conventional tapered casing connections. Type 521's rugged coarse pitch threads resist cross-threading. The interlocking dovetail threads prevent radial separation.

Type 521 has been run successfully from floaters. It has been used extensively for surface and intermediate strings in the Gulf of Mexico. Other examples include a relief well where Type 521 on 13 inch casing was set in a 14 1/2 inch hole through a deviation of nearly 12 degrees per 100 feet. In the Gulf of Mexico, in record water depth, it was used on 15 inch casing beneath a 16 inch subsea stack. These demonstrate its excellent clearance, tensile strength and bending capabilities.

All Hydril extra effort is standard. Phosphate coating provides lubricant retention for galling resistance and a corrosion-inhibiting compound is used for storage. Full form, closed end thread protectors are standard on all Type 521 Series 500 connections.

Type 521 is Hydril's most economical casing connection providing outstanding value. For confidence in quality service and technology, rely on Hydril.

# Type 521 PERFORMANCE DATA



Size OD & Weight (Nominal)	PIPE				CONNECTION				TYPE 521 TENSILE CAPACITY								
	Flare End Weight	Wall Thick. next	ID (Nom.)	OD (API)	Bar OD (Thread)	Pin ID (Bar)	Makeup Last	Threads per Inch	Critical Section Area	MINIMUM PARTING LOAD (RIPS)							
	in LBS / FT	Lbs	INCHES	INCHES	INCHES	INCHES	INCHES	60 in	1000 Lbs	1000 Lbs	1000 Lbs	1000 Lbs	1000 Lbs	1000 Lbs	1000 Lbs	1000 Lbs	
4 500-10 50	10 23	0 224	4 052	5 027	4 651	3 877	3 62	3 36	1 857	139	176	176	186	195	204	232	
4 500-11 00	10 79	0 237	4 096	5 301	4 672	3 911	3 62	3 36	2 014	161	191	191	201	211	221	257	
4 500-11 50	11 35	0 250	4 000	5 375	4 695	3 925	3 62	3 36	2 173	183	207	207	218	229	240	272	
4 500-12 75	12 24	0 271	3 958	5 333	4 729	3 843	3 62	3 36	2 429	192	211	211	243	255	267	304	
4 500-13 50	13 04	0 290	3 920	5 395	4 758	3 845	3 62	3 36	2 681	189	212	232	265	279	292	332	
5 500-14 00	13 70	0 241	5 072	4 887	5 680	4 937	3 82	3 36	2 597	185	247	247	260	273	286	325	
5 500-15 50	15 35	0 275	4 950	4 875	5 713	4 975	3 62	3 36	3 067	230	291	291	307	322	337	383	
5 500-17 00	16 87	0 304	4 992	4 767	5 761	4 817	3 62	3 36	3 450	292	332	332	350	367	383	437	
5 500-20 00	18 81	0 361	4 778	4 853	5 852	4 709	3 62	3 36	4 345	326	413	413	434	456	478	543	
5 500-23 00	22 54	0 415	4 670	4 545	5 936	4 595	3 62	3 36	5 114	381	484	484	511	537	563	639	
7 000-20 00	19 55	0 272	6 456	6 331	7 149	6 381	3 70	3 70	3 600	275	348	348	367	385	403	458	
7 000-23 00	22 83	0 317	6 360	6 250	7 226	6 291	3 70	3 70	4 646	341	432	432	455	477	500	568	
7 000-26 00	25 96	0 362	6 276	6 151	7 301	6 201	3 70	3 70	5 412	406	514	514	541	566	593	676	
7 000-28 00	28 77	0 408	6 184	6 059	7 376	6 109	3 70	3 70	6 287	471	587	587	623	660	692	786	
7 500-32 00	31 58	0 453	6 096	6 000	7 448	6 050	3 70	3 70	7 174	534	677	677	712	748	784	891	
7 000-35 00	34 58	0 458	6 004	5 879	7 517	5 929	3 70	3 70	8 059	597	750	750	786	826	876	995	
7 000-38 00	37 26	0 540	5 920	5 795	7 581	5 845	3 70	3 70	8 720	654	828	828	876	916	951	1090	
8 625-32 00	31 10	0 362	7 921	7 875	8 889	7 821	3 70	3 70	6 497	471	597	597	626	660	681	785	
8 625-36 00	35 14	0 406	7 825	7 700	9 053	7 760	3 70	3 70	7 376	535	706	706	743	770	811	928	
8 625-40 00	39 28	0 450	7 725	7 625	9 153	7 671	3 70	3 70	8 261	607	810	810	862	904	948	1078	
8 625-44 00	43 39	0 500	7 625	7 500	9 234	7 550	3 70	3 70	9 146	677	879	879	936	1027	1076	1222	
8 625-49 00	46 00	0 557	7 511	7 384	9 225	7 436	3 70	3 70	11 104	833	1055	1055	1110	1166	1221	1388	
10 750-40 50	38 88	0 350	10 050	9 891	10 865	9 975	4 14	2 84	2 267	545	680	680	727	763	799	909	
10 750-45 50	44 22	0 406	9 950	9 875	10 956	9 822	4 14	2 84	2 703	653	827	827	870	914	951	1084	
10 750-51 50	49 50	0 450	9 850	9 694	11 037	9 775	4 14	2 84	3 000	722	929	929	1030	1081	1133	1287	
10 750-57 50	54 21	0 495	9 750	9 625	11 117	9 815	4 14	2 84	3 349	791	1000	1000	1100	1160	1215	1380	
10 750-63 50	58 45	0 541	9 650	9 504	11 200	9 898	4 14	2 84	3 700	860	1090	1090	1190	1250	1310	1480	
10 750-70 00	63 15	0 587	9 550	9 400	11 285	9 983	4 14	2 84	4 051	929	1180	1180	1280	1340	1400	1580	
11 750-47 00	45 56	0 375	11 000	10 844	12 025	11 114	2 84	1 836	648	820	820	864	907	950	1019		
11 750-54 00	52 57	0 430	10 880	10 724	11 958	10 805	4 14	2 84	10 620	797	1009	1009	1063	1116	1169	1328	
11 750-60 00	59 87	0 480	10 772	10 628	12 032	10 972	4 14	2 84	11 491	869	1090	1090	1144	1197	1249	1418	
11 750-66 00	67 18	0 530	10 664	10 520	12 106	11 046	4 14	2 84	12 362	938	1160	1160	1214	1267	1319	1488	
11 750-72 00	73 47	0 581	10 556	10 438	12 180	11 120	4 14	2 84	13 233	1007	1220	1220	1274	1327	1379	1548	
11 750-78 00	77 73	0 610	10 448	10 284	12 264	11 204	4 14	2 84	14 104	1076	1290	1290	1344	1397	1449	1618	
11 875-71 80	70 19	0 587	10 711	10 625	12 270	10 672	4 87	2 65	15 418	1156	1465	1465	1547	1619	1696	1927	
11 875-77 80	82 74	0 580	12 816	12 458	13 618	12 540	4 85	2 61	17 243	1235	1578	1578	1660	1732	1817	2055	
11 875-84 00	84 68	0 580	12 816	12 458	13 618	12 540	4 85	2 61	18 114	1304	1648	1648	1730	1802	1887	2125	
11 875-90 00	86 10	0 580	12 816	12 458	13 618	12 540	4 85	2 61	18 985	1373	1719	1719	1801	1873	1958	2196	
11 875-97 00	90 00	0 614	12 847	12 258	13 753	12 817	4 85	2 61	19 856	1442	1790	1790	1872	1944	2029	2267	
13 375-77 00	75 31	0 555	12 275	11 939	13 673	12 209	5 60	2 35	15 364	1078	1360	1360	1420	1477	1533	1703	
13 375-80 7L	79 26	0 580	12 215	12 050	13 725	12 140	5 60	2 35	16 471	1135	1425	1425	1485	1542	1600	1770	
13 375-85 00	82 99	0 605	12 158	12 003	13 773	12 084	5 60	2 35	17 578	1192	1484	1484	1544	1601	1660	1830	
13 375-88 00	85 1	0 625	12 125	11 969	13 801	12 036	5 60	2 35	18 685	1250	1543	1543	1603	1660	1720	1890	
15 000-84 00	80 78	0 625	12 376	12 250	14 021	12 300	5 60	2 35	18 450	1264	1554	1554	1614	1674	1734	1904	
15 000-77 43	77 43	0 500	14 090	13 817	15 144	13 875	4 67	2 61	15 034	1128	1428	1428	1501	1575	1654	1879	
18 000-76 00	72 80	0 433	15 124	14 838	16 155	14 849	4 65	2 61	13 185	987	1251	1261	1316	1382	1448	1648	
18 000-84 00	81 87	0 455	15 010	14 622	16 257	14 805	4 65	2 61	14 300	1067	1340	1340	1397	1462	1527	1727	
18 000-94 00	87 77	0 500	15 000	14 812	16 266	14 875	4 65	2 61	15 400	1150	1430	1430	1487	1552	1617	1817	
18 000-109 00	107 50	0 656	14 684	14 570	16 425	14 611	4 65	2 35	22 598	1625	2111	2111	2171	2231	2291	2491	
18 000-118 00	116 72	0 705	14 514	14 338	16 266	14 447	4 65	2 35	23 700	1709	2200	2200	2260	2320	2380	2580	
18 625-87 50	84 80	0 435	17 758	17 567	18 853	17 855	4 85	2 61	14 440	1084	1373	1373	1445	1517	1589	1806	
18 625-94 50	88 24	0 460	17 705	17 517	18 835	17 865	4 85	2 61	15 571	1167	1466	1466	1537	1608	1679	1896	
18 625-97 70	94 16	0 484	17 653	17 465	18 862	17 553	4 85	2 61	17 185	1250	1553	1553	1624	1695	1766	1983	
18 625-109 35	106 23	0 567	17 499	17 311	18 845	17 349	5 42	3 35	20 637	1561	1867	1867	1938	2009	2080	2297	
18 625-117 00	111 50	0 575	17 467	17 279	18 914	17 361	5 42	3 35	21 188	1627	1933	1933	2004	2075	2146	2363	

Ten strength calculated for J 55 75% ultimate J 55 95% ultimate L 85 90% ultimate M 90 97 100% ultimate N 10 10 100% ultimate P 110 95 110% ultimate  
 P 110 = 125% ultimate  
 For the term Bar = 1 pass double & Bar =  
 ) Match opposite where practicable



EROSION/SEDIMENTATION/STABILITY: EROSION AND STABILITY COULD BE A PROBLEM ON THE SOUTHEAST SIDE DURING SDPRING RUNOFF, AND SUMMER THUNDER STORMS.

PALEONTOLOGICAL POTENTIAL: NONE.

SUBSURFACE GEOLOGY:

OBJECTIVES/DEPTHS: THE OBJECTIVE FORMATION IS THE NUGGET FORMATION AT 7,500 ±.

ABNORMAL PRESSURES-HIGH AND LOW: THIS AREA IS UNDER PRESSURED AND THE ZONE MAY SHOW DEPLETION PRESSURES AS A RESULT OF PREVIOUS PRODUCTION.

CULTURAL RESOURCES/ARCHAEOLOGY: NONE HAVE BEEN SITED.

CONSTRUCTION MATERIALS: LOCATION WILL BE CONSTRUCTED WITH MATERIALS AT THE SITE USING CUT & FILL AS AVAILABLE, OTHER MATERIAL WILL BE HAULED IN TO GRADE THE ROAD. SPOIL PILES WILL BE PLACED ON THE NORTHEAST OF THE LOCATION.

SITE RECLAMATION: AS REQUIRED BY THE SURFACE OWNER AGREEMENT.

RESERVE PIT:

CHARACTERISTICS: WILL BE PLACED ON THE NORTHWEST SIDE OF THE LOCATION. PIT WILL BE PARALLEL TO THE PREVAILING WIND DIRECTION.

LINING: A LINER OF 2 MIL PLASTIC (MINIMUM) WILL BE REQUIRED AND THE PIT WILL BE PADDED OR SMOOTHED SO AS TO PREVENT THE LINER FROM BEING PUNCTURED.

MUD PROGRAM: AS SPECIFIED IN THE APD AND DRILLING PLAN.

DRILLING WATER SUPPLY: WILL BE PURCHASED FROM THE ANSCHUTZ RANCH.

OTHER OBSERVATIONS :

STIPULATIONS FOR APD APPROVAL:

1. PIT WILL BE PLACED IN CUT MATERIAL ON THE NORTHWEST SIDE OF THE LOCATION.
2. PIT WILL BE PADDED OR SMOOTHED IN SUCH A WAY THAT A LINER OF 12 MIL PLASTIC WILL NOT PUNCTURE.
3. A BERM AND DITCH WILL BE PLACED ON THE SOUTH DRAINAGE EDGE OF THE LOCATION TO PREVENT RUNOFF FROM THE LOCATION INTO THE DRAINAGE
4. TOP SOIL WILL BE PLACED BETWEEN THE LOCATION AND THE ROAD.

5. A CULVERT WILL BE PLACED AT THE ENTRANCE OF THE LOCATION FROM THE ACCESS ROAD.
- ✓6. H2S EQUIPMENT AND SAFETY TRAINING FOR ALL PERSONNEL WILL BE PLACED ON LOCATION WHILE DRILLING OPERATONS ARE UNDERWAY.

**ATTACHMENTS**

PHOTOGRAPHS WILL BE PLACED OF FILE.

# CAVE CREEK

06	01	02	03	04	05	06	07	08	09	10	11	12	13
1	5	6	4	3	2	1	0	6	4	3	2	1	6
12	7	8	9	10	11	12	7	8	9	10	11	12	7
13	10	17	16	15	14	13	10	17	16	15	14	13	10
24	19	20	21	22	23	24	19	20	21	22	23	24	19
25	30	29	28	27	26	25	20	30	29	28	27	26	25
36	31	02	33	04	05	06	31	02	33	04	05	06	31
1	5	6	4	3	2	1	0	5	4	3	2	1	0

T 5 N

PROPOSED  
O CAVE CREEK 191  
TWNCR 20

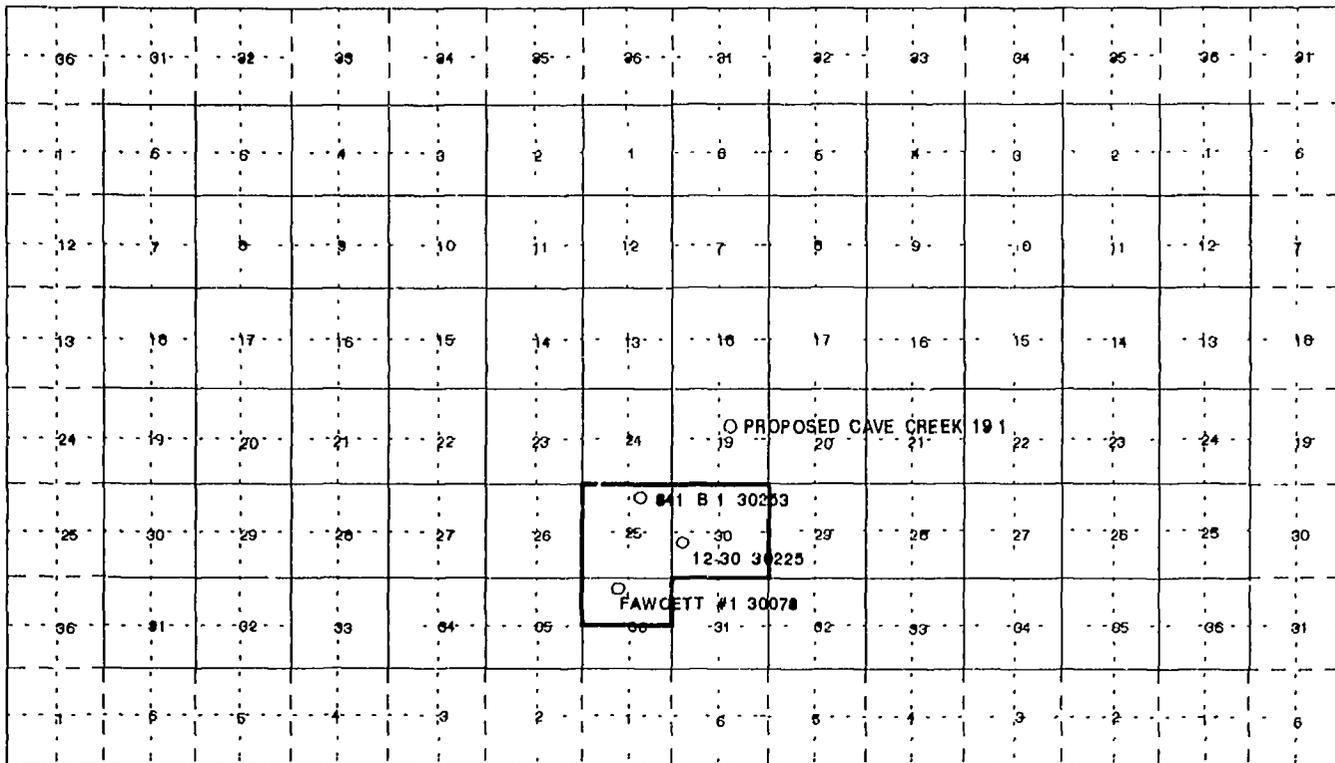
★ 1 B 1 30253  
PGW TWNCR  
★ 2 30 3 0225  
PGW TWNCR  
★ PAWCETT #1 30078  
PGW MDSN

R 7 E

R 8 E

TWIN CREEK POOL  
SUMMIT COUNTY  
FIELD 515 ACTIVE

# CAVE CREEK



R 7 E

R 8 E

T 5 N

TWIN CREEK POOL  
 SUMMIT COUNTY  
 FIELD 515 ACTIVE



EROSION/SEDIMENTATION/STABILITY: EROSION AND STABILITY COULD BE A PROBLEM ON THE SOUTHEAST SIDE DURING SPRING RUNOFF, AND SUMMER THUNDER STORMS.

PALEONTOLOGICAL POTENTIAL: NONE.

SUBSURFACE GEOLOGY:

OBJECTIVES/DEPTHS: THE OBJECTIVE FORMATION IS THE NUGGET FORMATION AT 7,500 ±.

ABNORMAL PRESSURES-HIGH AND LOW: THIS AREA IS UNDER PRESSURE AND THE ZONE MAY SHOW DEPLETION PRESSURES AS A RESULT OF PREVIOUS PRODUCTION.

CULTURAL RESOURCES/ARCHAEOLOGY: NONE HAVE BEEN SITED.

CONSTRUCTION MATERIALS: LOCATION WILL BE CONSTRUCTED WITH MATERIALS AT THE SITE USING CUT & FILL AS AVAILABLE, OTHER MATERIAL WILL BE HAULED IN TO GRADE THE ROAD. SPOIL PILES WILL BE PLACED ON THE NORTHEAST OF THE LOCATION.

SITE RECLAMATION: AS REQUIRED BY THE SURFACE OWNER AGREEMENT.

RESERVE PIT:

CHARACTERISTICS: WILL BE PLACED ON THE NORTHWEST SIDE OF THE LOCATION. PIT WILL BE PARALLEL TO THE PREVAILING WIND DIRECTION.

LINING: A LINER OF 12 MIL PLASTIC (MINIMUM) WILL BE REQUIRED AND THE PIT WILL BE PADDED OR SMOOTHED SO AS TO PREVENT THE LINER FROM BEING PUNCTURED.

MUD PROGRAM: AS SPECIFIED IN THE APD AND DRILLING PLAN.

DRILLING WATER SUPPLY: WILL BE PURCHASED FROM THE ANSCHUTZ RANCH.

OTHER OBSERVATIONS :

STIPULATIONS FOR APD APPROVAL:

1. PIT WILL BE PLACED IN CUT MATERIAL ON THE NORTHWEST SIDE OF THE LOCATION.
2. PIT WILL BE PADDED OR SMOOTHED IN SUCH A WAY THAT A LINER OF 12 MIL PLASTIC WILL NOT PUNCTURE.
3. A BERM AND DITCH WILL BE PLACED ON THE SOUTH DRAINAGE EDGE OF THE LOCATION TO PREVENT RUNOFF FROM THE LOCATION INTO THE DRAINAGE
4. TOP SOIL WILL BE PLACED BETWEEN THE LOCATION AND THE ROAD.

5. A CULVERT WILL BE PLACED AT THE ENTRANCE OF THE LOCATION FROM THE ACCESS ROAD.
- ✓6. H2S EQUIPMENT AND SAFETY TRAINING FOR ALL PERSONNEL WILL BE PLACED ON LOCATION WHILE DRILLING OPERATIONS ARE UNDERWAY.

**ATTACHMENTS**

PHOTOGRAPHS WILL BE PLACED OF FILE.



CAVE CREEK 1-19  
SEC. 19 T5N R8E

CAVE CREEK 1-19  
SEC 19 T5N R8E

CAVE CREEK 1-19  
SEC. 19 T5N R8E

CAVE CREEK 1-19  
SEC. 19 T5N R8E

20th Century Plastics  
1-800-767-0777  
STOCK # APV840-000



CAVE CREEK 1-19  
SEC 14 T5N R5E

CAVE CREEK 1-19  
SEC 14 T5N R5E

CAVE CREEK 1-19  
SEC 14 T5N R5E



**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Cavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Triad Center Suite 350  
Salt Lake City Utah 84180 1203  
801 538 5340  
801 359 3940 (Fax)  
801-538 5319 (TDD)

March 9, 1994

Coastal Oil & Gas Corporation  
P.O. Box 740  
Denver, Colorado 80201-0749

Re: Cave Creek 1-19 Well, 1600' FNL, 1600' FEL, SW NE, Sec. 19, T. 5 N., R. 8 E.,  
Summit County, Utah

Gentlemen:

Pursuant to the order issued by the Board of Oil, Gas and Mining in Cause No. 189-2 dated August 25, 1983, approval to drill the referenced well is hereby granted.

In addition, the following specific actions are necessary to fully comply with this approval:

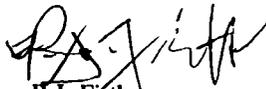
1. Coastal Oil & Gas Corporation, as designated operator, is the bonded principal in reference to this Application for Permit to Drill. Should this designation change or a transfer of ownership occur, liability will remain with the designated operator until the Division is notified by letter of a new bonded principal.
2. Pursuant to Utah Admin R 649-3-34 Well Site Restoration, an operator shall make a reasonable effort to establish a surface use agreement with the owner of the fee or private land included in the wellsite prior to the commencement of drilling a new well, reopening an abandoned well or assuming operatorship of an existing well. Accordingly, Coastal Oil & Gas Corporation shall submit an affidavit to the Division stating whether an appropriate surface use agreement has been established with and approved by the surface landowner of the wellsite.
3. The reserve pit shall be constructed on the northwest portion of the location.
4. A reserve pit liner of 12 mil minimum thickness will be required.
5. Surface soil materials shall be stockpiled between the location and the roadway.

Page 2  
Coastal Oil & Gas Corporation  
Cave Creek 1-19 Well  
March 9, 1994

6. Surface drainage from the location on the south should be controlled by constructing an appropriate berm and ditch
7. A culvert should be installed at the point the access road enters the location.
8. Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules.
9. Notification to the Division within 24 hours after drilling operations commence
10. Submittal of Entity Action Form, Form 6, within five working days following commencement of drilling operations and whenever a change in operations or interests necessitates an entity status change.
11. Submittal of the Report of Water Encountered During Drilling, Form 7.
12. Prompt notification prior to commencing operations, if necessary , to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or K. Michael Hebertson, Reclamation Specialist, (Home) (801)269-9212.
13. Compliance with the requirements of Utah Admin. R. 649-3-20, Gas Flaring or Venting, if the well is completed for production

This approval shall expire one year after date of issuance unless substantial and continuous operation is underway or a request for an extension is made prior to the approval expiration date. The API number assigned to this well is 43-043-30303.

Sincerely,



R.J. Firth  
Associate Director

ldc

Enclosures

cc: Summit County Assessor

Bureau of Land Management, Vernal District Office

WO11

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5 Lease Designation and Serial Number <b>Fee</b>
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals		6 If Indian, Alutian or Tribe Name <b>N/A</b>
		7 Unit Agreement Name <b>N/A</b>
1 Type of Well OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER	8 Well Name and Number <b>Cave Creek #1-19</b>	
2 Name of Operator <b>Coastal Oil &amp; Gas Corporation</b>	9 API Well Number <b>43-043-30303</b>	
3 Address and Telephone Number <b>P. O. Box 749, Denver, CO 80201-0749 (303) 573-4476</b>	10 Field and Pool or Wildcat <b>Wildcat</b>	
4 Location of Well Sections <b>1600' FNL &amp; 1600' FEL</b> OO Sec. T R, M <b>SW/NE Section 19, T5N-R8E</b>	County <b>Summit</b>	State <b>Utah</b>

**11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT <small>(Submit In Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandon <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Multiple Completion <input checked="" type="checkbox"/> Other <u>Withdrawal of drilling permit</u>	<input type="checkbox"/> Abandon * <input type="checkbox"/> Repair Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Convert to Injection <input type="checkbox"/> Fracture Treat or Acidize <input type="checkbox"/> Other _____  Date of work completion _____  <small>Report results of Multiple Completions and Recompletions in different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form. * Must be accompanied by a cement verification report.</small>
Approximate date work will start <u>Immediately</u>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The operator requests withdrawal of the permit to drill the above described well. The permit was approved on 3/9/94.

13. Name & Signature Bonnie Johnston Title Environmental Analyst Date 10/17/94

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial Number:  
Fee

6. If Indian, Alutian or Tribe Name:  
N/A

7. Unit Agreement Name:  
N/A

8. Well Name and Number:  
Cave Creek #1-19

9. API Well Number:  
43-043-30303

10. Field and Pool or Wildcat:  
Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, to open existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL  GAS  OTHER: PERFORATE

2. Name of Operator: Coastal Oil & Gas Corporation OCT 20 1994

3. Address and Telephone Number: P.O. Box 749, Denver, CO 80201-0749 (303) 573-4476

4. Location of Well:  
Footages: 1600' FNL & 1600' FEL  
QQ, Sec., T., R., M.: SW/NE Section 19, T5N-R8E

County Summit  
State Utah

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other Withdrawal of drilling permit
- New Construction
- Pull or Alter Casing
- Recompletion
- Perforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start Immediately

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon \*
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Perforate
- Vent or Flare
- Water Shut-Off

Date of work completion \_\_\_\_\_  
Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.  
\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The operator requests withdrawal of the permit to drill the above described well. The permit was approved on 3/9/94.

**RECEIVED**  
OCT 27 1994  
DIVISION OF  
OIL, GAS & MINING

VERNAL DIST.  
ENG \_\_\_\_\_  
GEOL \_\_\_\_\_  
ES \_\_\_\_\_  
PET \_\_\_\_\_  
A M \_\_\_\_\_

13. Name & Signature: Bonnie Johnston Title: Environmental Analyst Date: 10/17/94

(This space for State use only)



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

355 West North Temple  
3 Trial Center, Suite 350  
Salt Lake City, Utah 84103 1203  
801-538-5340  
801-359-3840 (Fax)  
801-538-5319 (TDD)

October 31, 1994

Ms. Bonnie Johnson  
Coastal Oil and Gas Corporation  
P.O. Box 749  
Denver, Colorado 80201-0749

Re: Cane Creek 1-19 Well, Sec. 19, T. 5 N., R. 8 E., Summit County, Utah,  
API No. 43-043-30303

Dear Ms. Johnson:

Per your request, approval to drill the above referenced well is hereby rescinded. A new Application for permit to Drill must be filed with this office for approval, prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley  
Administrative Manager  
Oil and Gas

dme  
cc: R.J. Firth  
Well file  
WOI139

