



M

Amoco Production Company

Post Office Box 17675
Salt Lake City, Utah 84117
801-272-9253

Martin Zimmerman
District Superintendent

July 7, 1980

Mr. Cleon B. Feight, Director
State of Utah
Division of Oil, Gas, and Mining
1588 West North Temple
Salt Lake City, Utah 84116

File: MZ-754-031.190/WF

Strawberry River Unit #1, Section 26, T4S, R12W, USM, Wasatch County, Utah

Amoco Production Company hereby requests approval of the subject "Application for Permit to Drill" in accordance with the provisions of Rule C-3(c), of the Utah General Rules and Regulations and Rules of Practice and Procedure.

As the subject well falls within the boundaries of the Uinta National Forest, the site has been selected and located to avoid sensitive environmental areas as directed by the U. S. Forest Service, yet still provide a safe and suitable location for drilling operations. For your consideration, Amoco Production controls all acreage within a 660' radius of the proposed site.

Your early review and approval of the subject application would be appreciated.

Martin Zimmerman URH

Martin Zimmerman

RECEIVED
JUL 10 1980

Enclosure

SW/crj

cc: U. S. Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, UT 84104

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 17675, Salt Lake City, UT 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
NE/4 Sec. 26 1265.7' FNL & 1177.7' FEL NE NE
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 4 miles East of Springville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
1265.7'

16. NO. OF ACRES IN LEASE
3826.41

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
15,500'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7987' GR (Subhurst Oquirrh)

22. APPROX. DATE WORK WILL START*
When approved

5. LEASE DESIGNATION AND SERIAL NO.
U-628564

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Strawberry River Unit

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26 T4S, R12W USM

12. COUNTY OR PARISH
Wasatch

13. STATE
Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	54.5#	1600'	1200 SX <i>circ. to surface</i>
12 1/4"	9 5/8"	40 & 43.5#	*	700 SX
8 1/2"	5 1/2"	20#	*	700 SX
Tubing	2 7/8"	6.5#	15,500'	

*See Item #4 on Attachment

RECEIVED
JUL 10 1980

Propose to Test for Hydrocarbons

APPROVED BY THE DIVISION
OIL, GAS, AND MINING

(See Attachments)

DIVISION OF
OIL, GAS & MINING

DATE: 7-14-80

BY: M.J. Minder

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 Dist. Admin. Supervisor DATE 7-3-80

(This space for Federal or State office use)

PERMIT NO. 43-051-30009 APPROVAL DATE 7/14/80

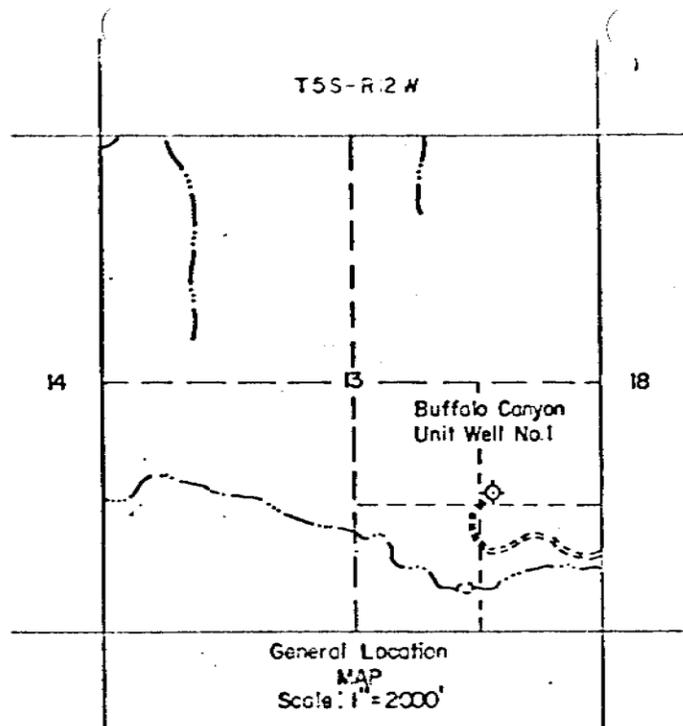
APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

RP 400' North
EL=8893.8'

EXHIBIT "D"

Exxon Buffalo Canyon Unit Well No. 1

Located in the SE/4 of
Section 13, T 5 S, R12 W of the Uinta
Special Meridian, Wasatch County,
Utah

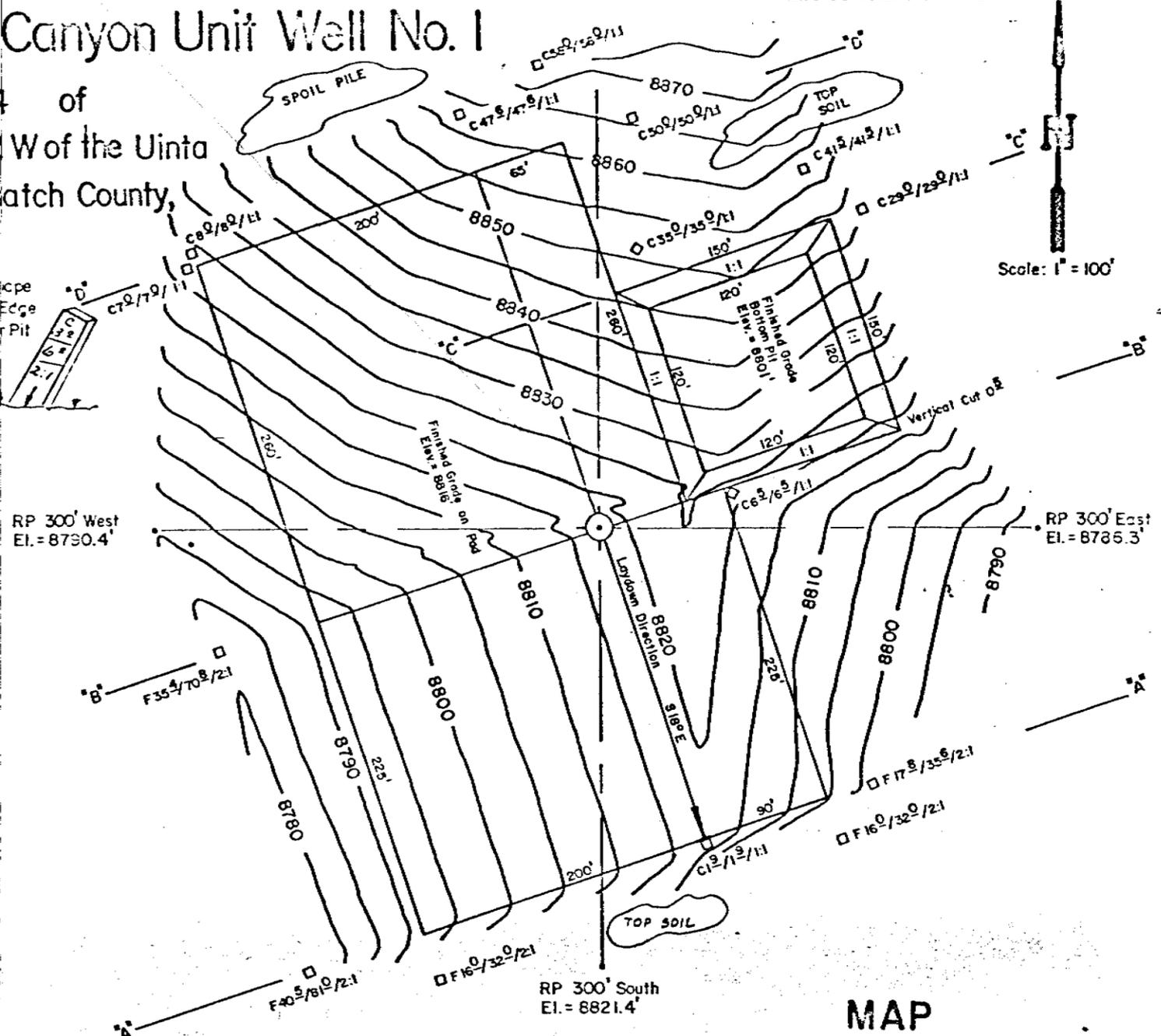
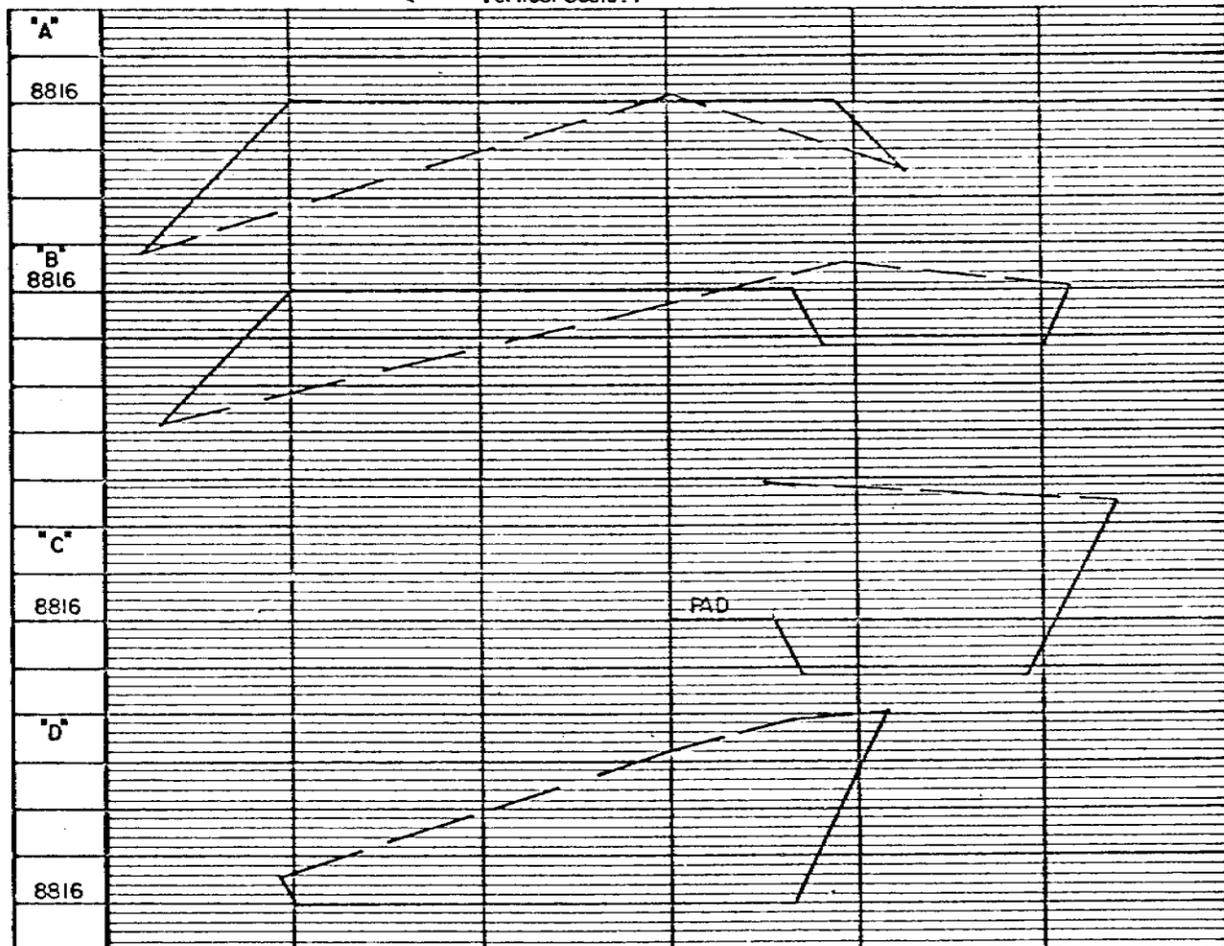


LEGEND

- Well Location
 - Reference Point
 - Slope Stake
- Typical Slope Stake to Edge of Pad or Pit
-

Scale: 1" = 100'

Cross Sections of
Laydown Direction & Reserve Pit
Horizontal Scale: 1" =
Vertical Scale: 1" =



Total Yardage

Cut	= 70,751	Cu. Yds.
Fill	= 59,077	Cu. Yds.
Spoil pile	= 5,802	Cu. Yds.
Top soil	= 5,872	Cu. Yds.

Reserve pit capacity = 49,288 Barrels at 15' depth.
or = 37,545 Barrels at 12' depth with 3' freeboard

MAP
To

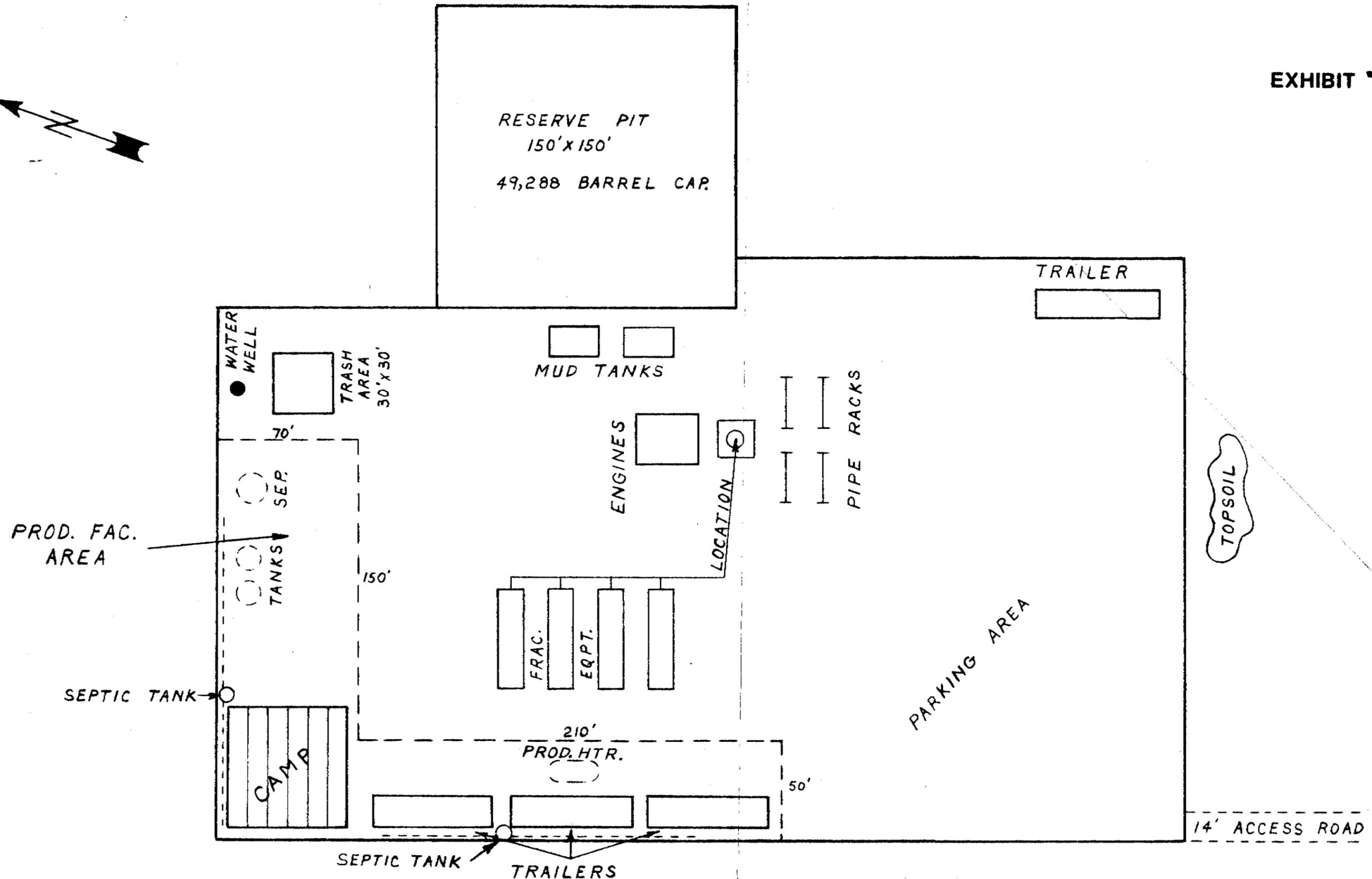
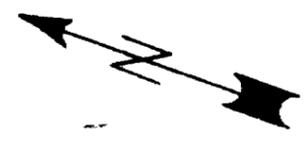
Accompany Application
For
PERMIT TO DRILL
Applicant:
Exxon Company, U.S.A.
P.O. Box 1600
Midland, Texas, 79702

Prepared
By
William H. Smith
& Associates P.C.
Surveying Consultants

By: WJ
Date: 10/13/81

Job No. 95-81

EXHIBIT 'C'



BUFFALO CANYON #1 SECTION 13, T58, R12W WASATCH COUNTY, UTAH		EXXON COMPANY, U.S.A. (a division of Exxon Corporation) PRODUCTION DEPARTMENT	
DRAWN <i>RJW</i> CHECKED _____	ENGR. SECTION _____ APPROVED _____	DATE <i>10-20-81</i> SCALE <i>1" = 50'</i>	JOB NO. _____ FILE NO. <i>W-B-1689</i>

George -

Amoco Production - Well No. 1
26-45-12W - USM

USO 3110-4

(3/71)

Serial No. U-16999

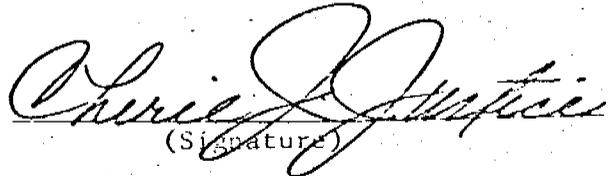
STIPULATIONS FOR LANDS IN OIL SHALE WITHDRAWAL,
EXECUTIVE ORDER 5327 OF APRIL 15, 1930

The lessee under the above oil and gas lease hereby agrees that the following agreement and stipulations are by this reference incorporated as terms and conditions of said lease as to the following lands:

All the lands in the lease.

The lessee agrees that:

1. No wells will be drilled for oil or gas except upon approval of the Regional Oil and Gas Supervisor of the Geological Survey, it being understood that drilling will be permitted only in the event that it is established to the satisfaction of the Supervisor that such drilling will not interfere with the mining and recovery of oil shale deposits or the extraction of shale oil by in situ methods or that the interest of the United States would best be served thereby.
2. No wells will be drilled for oil or gas at a location which, in the opinion of the Regional Oil and Gas Supervisor of the Geological Survey, would result in undue waste of oil shale deposits or constitute a hazard to or unduly interfere with mining or other operations being conducted for the mining and recovery of oil shale deposits or the extraction of shale oil by in situ methods.
3. When it is determined by the Regional Oil and Gas Supervisor of the Geological Survey that unitization is necessary for orderly oil and gas development and proper protection of oil shale deposits, no well shall be drilled for oil or gas except pursuant to an approved unit plan.
4. The drilling or the abandonment of any well on this lease shall be done in accordance with applicable oil and gas operating regulations including such requirements as the Regional Oil and Gas Supervisor of the Geological Survey may prescribe as necessary to prevent the infiltration of oil, gas or water into formations containing oil shale deposits or into mines or workings being utilized in the extraction of such deposits.


(Signature)



United States Department of the Interior

Surge

GEOLOGICAL SURVEY
Conservation Division
8440 Federal Building
Salt Lake City, Utah 84138

*well #1
26-45-12W
Amoco Prod. Co.
Wasatch County
U-16999*

Mr. Peter Rutledge
Area Oil Shale Supervisor
Area Oil Shale Office
131 North Sixth, Suite 300
Grand Junction, Colorado 81501

RECEIVED

AUG 7 1980

OFFICE OF
AREA OIL SHALE SUPERVISOR
U.S. G.S.

Dear Mr. Rutledge,

The Office of Oil and Gas Operations, Conservation Division, received the attached Application for Permit to Drill, Deepen, or Plug Back (Form 9-331C).

Please review this proposal for any conflict with any of the resources in the oil shale tracts and withdrawal areas. If needed, set forth the stipulations you determine necessary for adequate protection. Please use the following space for your response (if there is none, so state), together with date and initials of person responsible and return to the Office of Oil and Gas Operations.

U.S. Geological Survey
8440 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Amoco #1
Sec. 36, T4S, R12W

August 12, 1980

This office has no detailed information on the Green River Formation or oil shale deposits in this area. The proposed casing and cementing program appears to protect any zones of probable interest.

Eric D. Hoffmann
for Ray A. Brady
Geologist

Memorandum

George

To: District Oil and Gas Engineer, Mr. Edward Guynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. 4-16999 Well No. 1

1. The location appears potentially valuable for:

strip mining*

underground mining** *oil shale, possible bitumen*

has no known potential.

2. The proposed area is

under a Federal lease for _____ under the jurisdiction of this office.

not under a Federal lease under the jurisdiction of this office.

Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed *Allen J. Vance*

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

Uinta National Forest
Heber RD

2820
2380

September 17, 1980



Mr. E. W. Guynn
District Engineer
USDI Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Attn: Mr. George Diwachak

Re: Strawberry River Unit Well #1
Section 26, T4S, R12W USM
Wasatch County, Utah
Lease No. U 16999

Dear Mr. Guynn:

After looking at the road and well site on the ground with our I.D. Team, we are able to furnish the following:

The operator's archeologist did not find any site with archeological or historical significance.

We have determined that there are no endangered Flora or Fauna in the area.

A water well is not desired if the well encounters a usable fresh water zone and is later abandoned.

The 34 man camp will be located with help from a Forest Landscape Architect.

A road use permit will be required for use of the Indian Creek Road between the Forest Boundary and the leasehold.

The lower portion of Indian Creek road should be relocated on the Northwest side of the creek to avoid riparian vegetation and crossing the stream.

BY LETTER 8/25/80

8/25/80

RECEIVED
SEP 25 1980

An 18' surface on the Indian Creek road should be ample for the type of traffic needed in the drilling operation.

Using a snow blower for snow removal will reduce problems with snow building up on the road sides and eroding the road edges and saturating the base material.

Here is a list of our requirements for the protection of surface resources:

*N/A
Change APD
by Stipulation
per Roy Daniels*

1. A complete approved Multipoint Surface Use and Operating Plan from the operator before any work is allowed to start. We must review this to be sure the APP agrees with the joint site inspection.
2. The operator should be guided by the surface use standards of the second edition of OIL AND GAS.
3. A pilot car will be necessary when large rigs are being moved on Forest roads.
4. Prior approval from the District Ranger for construction of any water pumping stations.
5. Enough top soil will need to be stock piled to cover all disturbed areas at least 4" deep, unless bedrock is encountered, in which case 12" will be needed.
6. Garbage and all other solid wastes are to be removed from the site and disposed of from the Forest.
7. The entire disturbed pad area should be graded so that any run-off will drain into the reserve pit.
8. The pad will need to have a berm constructed above all cut slopes to prevent any overland water flow from getting onto the pad.
9. The reserve pit should be constructed by total excavation.
10. The reserve pit should be able to hold run-off from the pad, about 30" of precipitation, and all drill mud and other effluents pumped into it from the operation.

11. If there is any seepage from the reserve pit, lining of the pit with an impervious material will be required.
12. The reserve pit must be fenced deer and elk tight while the reserve pit is drying out after drilling operations are completed.
13. Any trees that must be removed to clear the access road must be marked by a Forest officer.
14. All vehicles must stay on the work pad and road premise.
15. We must approve the following road drawings - profile, horizontal alignment, typical road section, and culvert construction.
16. The Forest Service must approve culvert designs.
17. A cattleguard will need to be installed on the access road where it crosses the fence in the SW $\frac{1}{4}$ of Section 25, T4S, R12W USM.
18. During snow removal, snow should be removed to the downhill side of the road. It is preferable to move the snow blower rather than a grader or crawler tractor. Openings should be created every 300' to allow water to move through the snowbanks.

The following are our reclamation requirements:

1. Material from the pits that are contaminated with toxic pollutants or oils must be removed and hauled away. Soil from toxic spill areas will also need to be removed.
2. At the completion of operations, all excess drilling materials (bentonite, mud, raw dust, etc.) must be removed.

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2/15/2007

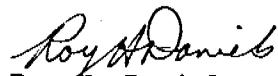
3. If the well is abandoned the drill pad and access road must be restored to blend back into the natural grade.
4. If the well is a producer, those areas not needed for production will be regraded to natural contours and reseeded.
5. A 16-16-8 fertilizer at a rate of 100 lbs. per acre must be applied for revegetation.
6. Planting and seeding of the site, if abandoned with an approved species mix after topsoil and fertilizer have been placed, the Forest Service will provide an approved species list.
7. The cut slopes on the access road will need mulching.
8. After drilling operations are completed the site must be fenced to exclude livestock. If the site is abandoned the fence will need to be maintained for 5 or 6 years until it revegetates. If the well is a producer, the fence will be maintained for the life of the well and a cattleguard installed where the fence crosses the access road.

If an economic oil field is discovered, all additional drilling and/or development will be reviewed and approved in advance by the Forest Service.

Doug Prescott, Heber Ranger District, is available for consultation with the operator during construction. His telephone numbers are - (801) 654-0470, office; 654-3112, home.

We have enclosed copies of several specialist reports on this proposal for your review.

Sincerely,


Roy H. Daniels
District Forest Ranger

CONTINGENCY PLAN

AMOCO PRODUCTION COMPANY
P.O. Box 17675
Salt Lake City, Utah 84117

ACTION PLAN FOR ACCIDENTAL RELEASE OF H₂S

STRAWBERRY RIVER UNIT #1
NE/4 SECTION 26, T4S-R12W, USM
WASATCH COUNTY, UTAH

(This Plan is Subject to Updating)

July 3, 1980

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 the drilling of formations which may contain Hydrogen Sulfide Gas (H₂S).

AMOCO PRODUCTION COMPANY has specified materials and practices for the drilling 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 assist the safety of all concerned.

II. DESCRIPTION OF HYDROGEN SULFIDE GAS:

H₂S 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. H₂S is extremely toxic gas that must be treated with extreme care to prevent injury to people. H₂S 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 H₂S gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

The toxicity of H₂S is as follows:

Period of Exposure:

Prolonged exposure - no adverse effects	10 PPM
Over 1 hour could be hazardous	150 PPM
Possibly fatal in less than 1/2 hour	300 PPM
Fatal in a few minutes	700 PPM

III. TREATMENT OF HYDROGEN SULFIDE POISONING:

- A. Remove the patient 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 to be not breathing. Should disaster conditions make it impossible to move to fresh air, keep on your mask and use resuscitator on patient.
- C. If giving artificial respiration, and patient is breathing, use resuscitator to help eliminate H₂S from the bloodstream.
- D. Keep patient at rest and prevent chilling.
- E. Get patient to a physician as soon as possible.

IV. EQUIPMENT REQUIREMENTS:

A. General:

All equipment to be exposed to H₂S shall be built to NACE Standard MR-01-75, or Amoco specifications if Amoco specifications are more stringent.

B. Blowout Preventer Requirements:

All BOP body and parts (excluding rams and ram shear blades) shall be constructed of a carbon steel or low alloy steel with an HRC 22 maximum hardness. Rams shall be built out of low alloy steels (i.e., AISI 4130 or like). Shear blades shall be constructed of hard high strength steel to enable the blades to shear the drill pipe in emergency conditions.

The blowout preventer stack will be tested to full working pressure on initial installation and routinely thereafter, not to exceed two weeks. The stack will also be tested any time a seal has been broken, a leak experienced, or a known H₂S bearing formation is to be drilled.

C. Drill String Requirements:

All drill string components shall be to API specifications for tubular goods in controlled environments. Typically, grade E drill pipe will be used. All components will be inspected to IADC critical service specifications prior to running in the well. Corrosion will be monitored by coupons.

D. Choke Lines and Kill Manifold:

Choke lines and kill manifold shall be constructed of ASTM 106 grade B or A-53 grade B.

E. Casing and Wellhead Equipment:

Casing shall be constructed to API requirements for sour gas wells. The casing to be run will be C-75 type 2, L-80 or SS-95.

Wellhead equipment will be constructed to Amoco specifications. From the tubing head up all valves shall have stainless steel balls and seats with monel stems, which complies to a NACE 1 trim. Valve bodies to be made from carbon or low alloy steel with HRC 22 maximum. All welds will be x-rayed and stress relieved.

V. SAFETY AND MONITORING EQUIPMENT:

A. Gas Monitoring Equipment:

1. A continuous H₂S monitoring system with two or more H₂S detection heads will be in operation. One will be sampling from the shale shaker and one sampling from the bell nipple below the rotary table. Both units will be monitored in the mud loggers trailer and/or the dog house. Each unit will be set to trigger a blinking light on the rig floor should the amount of H₂S reach 10 PPM, and to trigger an alarm should the amount of H₂S reach 20 PPM.

Any time it is necessary to deactivate the alarm (if H₂S is continuously present) a trained operator or H₂S Supervisor will monitor the detection system.

2. When approaching or drilling H₂S formations, crew members may attach 8-hour H₂S electronic personnel monitoring equipment to their person as warranted.
3. Hand sampling gas detectors will be used to check areas not covered by automatic monitoring equipment.

B. Safety Equipment

1. The following safety equipment will be available:

Escape packs:

- 1 - 5 minute escape pack on the derrick
- 5 - 5 minute escape packs on floor
- 4 - 5 minute escape packs at various points along mud tanks
- 1 - 30 minute pack in each trailer
(2 in mud logger's trailer)
- 1 - 30 minute pack at bottom of steps
- 1 - 30 minute pack in mud shed
- 1 - 30 minute pack in tool shed

Total: 10 - 30 minute packs
 10 - 5 minute packs

Cascade System:

- 10 - 380 cu. ft. cylinder air supply system
- 2 - 5 outlet manifold on floor (1 each side)
- 2 - 5 outlet manifolds on mud tanks
- 10 - line masks (same as 5-minute packs)
- 1500' low pressure air line hose with quick connects

Other Equipment:

- 4 - wind socks
- 36 unit - first aid kits
- 1 - oxygen powered resuscitator with cylinder
- 1 - flare gun with shells
- 1 - stretcher
- 1 - combustionable gas meter
- 1 - safety belt with safety line

Note: Respirators shall comply with OSHA standards, part 1910.134, Respiratory Protection.

This equipment is available for persons normally on location. This includes the five man crew, toolpusher, Amoco drilling supervisor and mud loggers. Maximum number of people to be on location during normal drilling operations should range from ten to twelve.

2. 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 recognized by the positioning of the "SAFETY" trailer in this area.
3. The H₂S "SAFETY" trailer provided by a safety contractor such as SAFETY INTERNATIONAL, INC. will contain the equipment listed in V.B. 1 (above) 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 catwalk and visible from the rig floor.
5. A condition warning sign will be displayed on location and at entrance of location regarding current operating condition.
6. The emergency procedure (attached) will be kept on rig floor, contract toolpusher's trailer, Amoco's 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 Amoco's trailer, mud logger's unit and on rig floor.
9. An internal communications system should be installed between company trailer house, contract toolpusher'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.

VI. CREW TRAINING AND PROTECTION:

A. 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 with the Drilling Supervisor or contract toolpusher triggering the alarm. Reaction time will be checked from the time the alarm goes off until the well is simulated closed in. Closing time should be under two minutes. A copy of AMOCO PRODUCTION COMPANY's Oil and Gas Blowout Drill Procedure will be posted on the rig floor.

B. H₂S Training and Drills:

All personnel shall be instructed and certified for H₂S prior to penetrating 1000' above an expected hydrogen sulfide zone. Training will include: the correct use of the gas masks, wind socks, safety ropes and oxygen resuscitator, instruction on artificial respiration and on the emergency procedure.

H₂S drills will be held periodically. The Amoco representative along with the toolpusher, shall plan and activate drills. They

will activate, without warning, the H₂S alarm and participate in the drill. The crew will proceed to put on a mask and secure well as per posted drilling procedure.

VII. MUD ADDITIVES:

A low solids non-dispersed mud system will be used. At one thousand feet above an expected hydrogen sulfide formation the system will be built up to a concentration of 20 lb/bbl. Ironite Sponge. Previous to this, sufficient Ironite Sponge will be on location to treat the mud if the need arises and the mud maintained at a high pH.

VIII. LOCATION OF RESIDENTS:

See attached listing

IX. WELL TESTING PROCEDURES:

During all drill stem tests and swab tests of formations or zones where H₂S might be encountered, produced gas and liquids will be routed into flare lines. Due to prevailing wind fluctuation and seasonal variations, consideration will be given to the construction of two flare pit locations, each a minimum of 150' from the nearest rig equipment. All flare lines will be equipped with pilot lines hooked to a bottled gas system. All flare lines will be secured to prevent them from whipping should a high volume of gas be blown through them.

All equipment including drill string and tubing string members and tools, surface test units, and miscellaneous related testing equipment shall conform to NACE Standard MR-01-75, or Amoco specifications if Amoco specifications are more stringent.

X. EMERGENCY EVACUATION PLAN:

(See Attachment)

LIST OF RESIDENCES WITHIN

2-MILE RADIUS:

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

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 toolpushers trailer, Amoco 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. Amoco Production Company's 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 Amoco Production Company 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>
Kurt Unger	801-272-9253	801-571-0659
Barney Canson	801-272-9253	801-392-0156
Bill Halvorson	801-272-9253	801-943-2243
Virgil Sheppard	801-272-9253	
Wayne Todd	801-272-9253	801-272-4706
Scott Trushenski	801-272-9253	801-942-0577
Martin Zimmerman	801-272-9253	801-942-5080

- 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 Amoco 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 Amoco 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.

NTL - 6 REGULATIONS

13 Point Program

Strawberry River Unit No. 1

Sec. 26, T4S, R12W
Wasatch County, Utah

1. Existing Roads:

- A. Proposed well site as staked: See Exhibit "A"
- B. Route and distance from nearest town or locatable reference to where well access route leaves main road: See Exhibit "B"
- C. Access route to location color-coded or labeled: See Exhibit "B"
- D. If exploratory well, all existing roads within a 3-mile radius of well site: See Exhibit "B"
- E. If development well, all existing roads within a 1-mile radius of well site: N/A
- F. Plans for improvement and/or maintenance of existing roads:
Roads will be graded and maintained to prevent erosion, no major work is planned. Where improvements are required, USFS road design criteria will be adhered to.

2. Planned Access Roads:

- (1) Width: 24" running surface with 2'-3' borrow pits
- (2) Maximum Grade: 10%
- (3) Turnouts: turnouts will be placed as needed for adequate site distance.
- (4) Drainage Design: See Exhibit "A"
- (5) Location and size of culverts, location if any major cuts or fills: Culverts will be placed where indicated to adequately drain water from the road surface.
- (6) Surfacing material: native soil will be used wherever applicable. In addition, gravel with at least 6"-8" of road base and a 4" crown of crushed rock will be used to create a firm road surface.
- (7) Gates, cattle guards, fence cuts: Cattle guards will be placed where needed, along with a metal gate to accommodate livestock movement.
- (8) Centerline stake for new or reconstructed access: access is staked

3. Location of Existing Wells, 2-Mile Radius if Exploratory:

- (1) Water wells: None
- (2) Abandoned wells: None
- (3) Temporarily abandoned wells: None
- (4) Disposal wells: None
- (5) Drilling wells: Exxon Company, Sec. 30, T4S, R11W, SW/4
- (6) Producing wells: None
- (7) Shut-in wells: None
- (8) Injection wells: None
- (9) Monitoring or observation wells: None

4. Location of Existing and/or Proposed Facilities:

A. Lessee operated/owned facilities within 1-mile radius:

- (1) Tank batteries: None
- (2) Production facilities: None
- (3) Oil gathering lines: None
- (4) Gas gathering lines: None
- (5) Injection lines: None
- (6) Disposal lines: None

B. New lessee operated/owned facilities in the event of production:

- (1) Proposed location of lines: See Exhibit "D"
- (2) Dimension of facilities: See Exhibit "A" and "D"
- (3) Construction methods and materials: Amoco and OSHA approved construction methods will be observed in all construction activities.
- (4) Protective measures and devices to protect livestock and wildlife: pits will be covered and fenced until dry, then filled.

C. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed: Areas no longer needed will be leveled, recontoured, and seeded per Forest Service specifications. Cut and fill sections will be monitored for stabilization as well as the displacement effect on wildlife.

5. Location and Type of Water Supply:

- A. Location and type by map or description: Water will be obtained from Indian Creek with permission from the U.S. Forest Service and the Strawberry Water Users Association and transported via tank truck along existing roads to the site.
- B. Transportation: Refer to Item "A" above
- C. Water well: None proposed

6. Source of Construction Materials:

- A. Location by map or description: construction materials will be obtained from the disturbed area.
- B. Federal or Indian Land Ownership: location within the boundaries of the Uinta National Forest
- C. Construction material obtained and used: should it be necessary to obtain any foreign material such as sand or gravel, said materials will be obtained from private sources.
- D. Access road on Federal or Indian land to construction material source: None

7. Methods for Handling Waste Disposal:

- (1) Cuttings: to be contained in the reserve pit and buried as the pit is backfilled
- (2) Drilling Fluids: fluids will be contained in the reserve pit. If the pit is to be left open during winter snow-pack, the fluids will be lowered to an acceptable level and will be of such quality that any discharge will meet state water quality standards. Should the pit be in danger of overflowing or leakage is found, drilling operations will cease immediately until the liquid can be lowered to a safe level or the leakage problem corrected.

- (3) Produced fluids, oil and water: fluids will be contained in the reserve pit until cleanup, then skimmed or burned as the situation dictates. If the well is a producer, the excess materials which cannot be dried out or mixed with materials on site, will be hauled away for disposal. All gas, diesel, oil, grease, and drilling mud will be prevented from entering any live stream.
- (4) Sewage: the installation of state approved sanitation facilities will be conducted.
- (5) Garbage and other waste: all garbage and waste will be hauled to a sanitary landfill for disposal.
- (6) Clean up after rig removed: the surface of the drill pad will be graded. The 'mouse' and 'rat' holes, sewage, burn pits will be filled as soon as possible. The reserve pit will be fenced on all sides until dry then filled, recontoured and seeded.

8. Auxiliary Facilities:

- A. Camps and/or airstrips: Propose standard 34-man camp layout - detailed layout to be submitted upon selection of drilling contractor

9. Well Site Layout:

- A. Drill Pad Cross Section: See Exhibit "A"
- B. Location of mud tanks, reserve pit, burn and trash pit, pipe racks, living facilities, top soil stock pile: See Exhibit "A" and "D"
- C. Rig orientation: See Exhibit "D"
- D. Pits: the reserve pit will be examined after construction to determine if lining will be required. In addition, the pit will be fenced to prevent wildlife and domestic animals from entering.

10. Plans for Restoration of Surface:

- A. All pits and holes will be filled after rig removal except the reserve pit which will be fenced. The reserve pit will be cleaned up and restored within 60 days after completion of operations.
- B. Revegetation and rehabilitation of location and access roads will be handled per Forest Service specifications. All available top soil will be stockpiled at the well site area for placement back on the site for rehabilitation. The area will be reseeded as prescribed. A fence will be constructed around the entire location after rehabilitation to allow revegetation to become established.
- C. Pits will be fenced per stipulations during drilling operations and after rig release.
- D. Reserve pit oil will be burned, removed or the pit flagged as necessary.
- E. Rehabilitation procedures will be commenced as soon as practical after rig removal, weather permitting.

11. Other Information:

- (1) General description of surface: The location will be built in an area of rolling sagebrush hills with sparsley covered aspen groves.
- (2) Surface use and surface ownership: Surface use is primarily for grazing and surface ownership is the U.S. Forest Service
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites: See Exhibit "B" There are no known occupied dwellings in the area and an archeological survey of the proposed site and access road will be conducted prior to surface disturbance.

12. Representative for Amoco Production Company is Mr. W.R. Halvorson, P.O. Box 17675, Salt Lake City, Utah 84117, telephone 801-272-9253.
13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route, that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by AMOCO PRODUCTION COMPANY and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Date: 7-3-80

Name and Title:

W.R. Halvorson

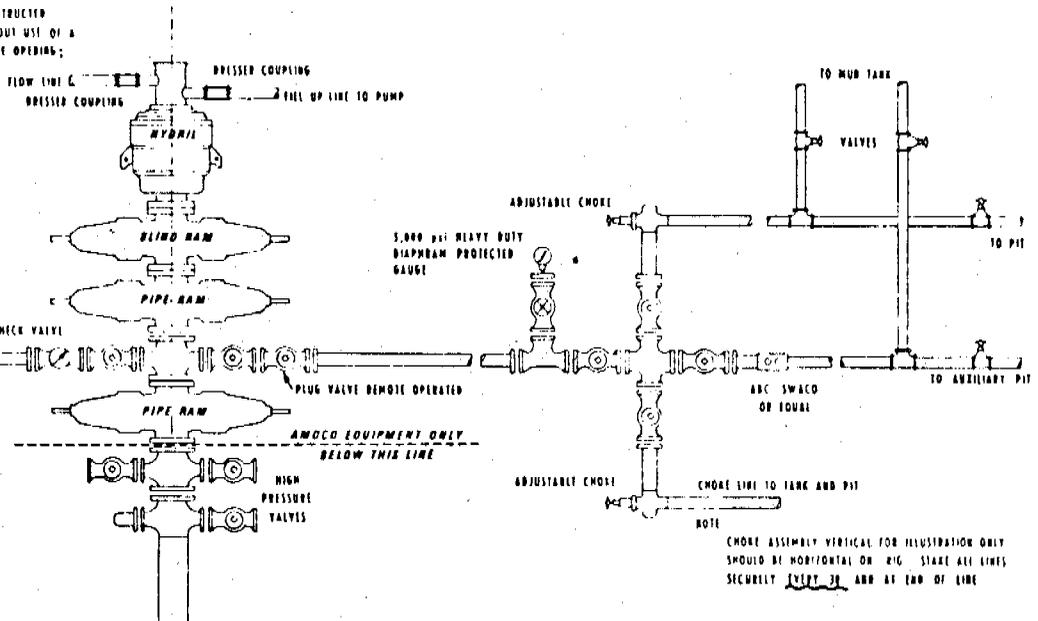
DRILLING SUPERVISOR

EXHIBIT BOP-8000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.

NOTE

1 DRILLING WHIPPLE TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER THROUGH ROTARY TABLE OPERATIONS; WITH MINIMUM 1/8" TOLERANCE TO PREVENTER SORE.

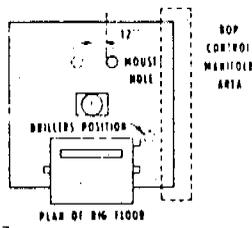
2 WEAR RING TO BE PROPERLY INSTALLED IN HEAD.



NOTE

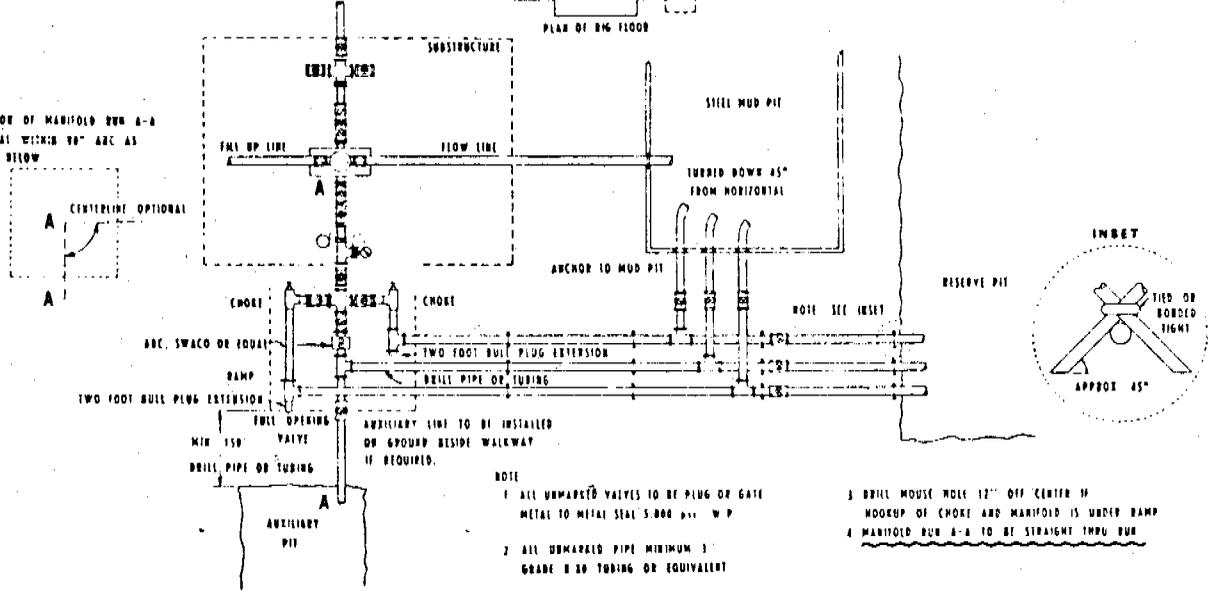
- 1 BLOW OUT PREVENTERS AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 PSI W.P. MINIMUM
- 2 ALL FITTINGS TO BE FLANGED SCREWED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
- 3 SAFETY VALVES MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION OR SUB, VALVE TO BE FULL BORE 5,000 PSI W.P. MINIMUM.
- 4 ALL CHOKES AND FILL 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 KELLY COCK OR KELLY.
- 7 EXTENSION WRENCHES AND HORN WHEELS TO BE PROPERLY INSTALLED AND SPACED 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 AN GAYLOR ACCUMULATOR, TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION.
- 10 MEET ALL TABC SPECIFICATIONS

NOTE
 ALL VALVES TO BE FULL OPERING



NOTE

DIRECTION OF MANIFOLD RUN A-A OPTIMAL 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" GRADE B 20 TUBING OR EQUIVALENT

- 3 DRILL MOUSE HOLE 12" OFF CENTER IF HOOKUP OF CHOKES AND MANIFOLD IS UNDER RAMP
- 4 MANIFOLD RUN A-A TO BE STRAIGHT THRU RUN

Amoco Production Company
 STANDARD ASSEMBLY FOR FLUID
 OPERATED TRIPLE BLOW OUT PREVENTER
 5,000 psi W.P.

1-31-75

EXHIBIT "C"

** FILE NOTATIONS **

DATE: July 14, 1980
OPERATOR: Amoco Production Company
WELL NO: Strawberry River #1
Location: Sec. 26 T. 45 R. 12W County: Wasatch

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

API Number 43-051-30009

CHECKED BY:

Petroleum Engineer: M.S. Minder 7-14-80
Unsatthadax location approved to be consistent with
surface owners directions. Survey plot required!

Director: OK accordance w/Rule C-3 (c) Topographical
Exception

Administrative Aide: _____

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 Ed not unit yet Plotted on Map

Approval Letter Written

Hot Line P.I.

July 30, 1980

Amoco Production Company
P.O. Box 17675
Salt Lake City, Utah 84117

RE: Well No. Strawberry River #1
Sec. 26, T. 4S, R. 12W.,
Wasatch County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, Topographic Exception - company owns or controls acreage within a 660' radius of proposed site. General 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
Home: 876-3001
Office: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. 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 #1: 43-051-30009.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight
Director

/bh

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
OIL WELL GAS WELL OTHER
SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 17675, Salt Lake City, UT 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
NE/4 Sec. 26 1265.7' FNL & 1177.7' FEL
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 4 miles East of Springville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1265.7'
16. NO. OF ACRES IN LEASE 3826.41

18. DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
19. PROPOSED DEPTH 15,500'

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7987' GR (Subthrust Oquirrh)

5. LEASE DESIGNATION AND SERIAL NO.
628564-76-16999

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Strawberry River Unit

9. WELL NO.
#1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26 T4S, R12W USM

12. COUNTY OR PARISH 13. STATE
Wasatch Utah

17. NO. OF ACRES ASSIGNED TO THIS WELL

20. ROTARY OR CABLE TOOLS
Rotary

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
17 1/2"	13 3/8"	54.5#	1600'	1200 sx
12 1/4"	9 5/8"	40 & 43.5#	*	700 sx
8 1/2"	5 1/2"	20#	*	700 sx
Tubing	2 7/8"	6.5#	15,500'	

*See Item #4 on Attachment

State of Utah, Department of Natural Resources
Division of Oil, Gas, and Mining
1588 West North Temple
-Salt Lake City, Utah 84116

Propose to Test for Hydrocarbons

(See Attachments)

"DUPLICATE COPY"

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 Dist. Admin. Supervisor DATE 7-3-80

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY *[Signature]* TITLE FOR E. W. GUYNN DISTRICT ENGINEER DATE DEC 01 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

NOTICE OF APPROVAL

Production Facilities and Flowline NOT Approved

State Oil & Gas

ATTACHMENT TO FORM 9-331 C

Strawberry River Unit #1

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

Colton	Surface
Green River	1010'
Flagstaff	4010'
Price River	4410'
Ankarah	6750'
Thaynes	7180'
Park City	8880'
Diamond Creek	10,520'
Oquirrh	11,920'
Subthrust Oquirrh	13,760'

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

Water, Oil, and Gas anticipated at: See Item #2

4. Casing Program: See Item #23, Form 9-331C

(Distributed as follows)

<u>Size of Hole:</u>	<u>Size of Casing:</u>	<u>Weight/Grade:</u>	<u>Condition:</u>	<u>Depth:</u>
17 1/2"	13 3/8"	54.5# K-55 ST&C	New	1600'
12 1/4"	9 5/8"	43.5# SS-95 LT&C	New	80'
	"	40# SS-95 LT&C	New	7920'
	"	43.5# SS-95 LT&C	New	1100'
8 1/2"	5 1/2"	20# L-80 Buttress	New	3750'
	"	20# L-80 LT&C	New	12000'

Tubing:

2 7/8"	6.5# L-80 VAM	New	15500'
--------	---------------	-----	--------

5. Operators minimum specifications for pressure control equipment are shown on the attached schematic diagrams. 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:

0 - 1500'	Native mud
1500' - TD	Low solid, non-dispersed, 8.8-9.0#/gal. Viscosity as required to clean hole. Use ironite sponge from Park City down at 8 to 10 ppb. Maintain bulk and sack barite on location at all times.

7. Auxiliary Equipment:

Kelly Cock, floor sub with full opening valve. 3" choke manifold with remote control choke. Two-man mud logger unit with H2S detection.

8. Testing Program:

Two DST's planned. Intervals to be tested are Diamond Creek and Park City.

Logging Program:

DIL-FSL	Surf. Csg. - TD
FDL-CNL	Surf. Csg. - TD
Sonic Gamma Ray w/Cal.	Surf. Csg. - TD
Dipmeter (HDT)	Surf. Csg. - TD

Coring Program:

At the discretion of the Denver Region Exploration Department.

Stimulation Program:

To be determined by District Office upon completion of drilling operations.

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated starting date will be when approved and the duration of operations will be approximately 75 days.

Oil and Gas Drilling

EA No. 558-80

United States Department of the Interior
Geological Survey
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

October 21, 1980

ENVIRONMENTAL ASSESSMENT

for

Application for Permit to Drill

Amoco Production Company

Well No. 1

Section 26, T. 4S, R. 12W, USM

Wasatch County, Utah

Federal Lease U-16999

Prepared by

George Diwachak
Environmental Scientist
Salt Lake City

Introduction

The following participated in an onsite inspection of the proposed access route across Water and Power Resources (WPRS) administered lands and Strawberry Water Users Association (SWUA) managed lands.

<u>NAME</u>	<u>REPRESENTING</u>
* George Diwachak	USGS
* Roy Daniels	USFS
* Douglas Prescott	USFS
Fred Liljegren	WPRS
John Millery	WPRS
Robert Black	WPRS
Ned Artz	WPRS
Don Hill	SWUA
* Cloey Wall	Uintah Engineering
* R. D. Geary	Geary Construction Company
V. J. Sheppard	Amoco
Veron Hank	Amoco
* R. C. Buckley	Amoco

After assessing the proposed route on existing roads, the participants marked with an asterisk (*) continued on to inspect the wellsite and routes across U.S. Forest Service lands.

This Environmental Assessment (EA) is being prepared under the USGS Conservation Division interim EA procedures. These procedures call for the Categorical Exclusion of wellsites that ~~do not~~ meet 9 environmental criteria. A categorically excluded well requires no EA. Wellsites that fail to meet one or more of the nine criteria, or are indicative of field development in an area (i.e., numerous wells would have a cumulative effect on an area) require an EA.

This EA is being prepared for the Amoco Production Company No. 1 wellsite, as it fails to meet the following environmental criteria:

1. Public Health and Safety: Well would be drilled into H₂S zones and could present a hazard to the rig crew and recreationist in the area.

Surface and mineral administration in the region is varied. Much of the area to the east of U.S. Forest Service lands is under the control and management of the Strawberry Water Users Association (SWUA) pursuant to a 1910 contractual agreement with the United States. In the contract the United States agreed to transfer to the association the care, operation and maintenance of the project lands. The contract was renegotiated in 1928 and 1940. Under all contracts SWUA has the authority with the Department of Interior (WPRS) approval to lease the lands for mining purposes including oil and gas. A Department of Interior Solicitor's opinion, M-36863, affirmed this fact. Additionally, the 1940 contract renegotiation requires WPRS to approve any mineral lease grants on reclamation project lands. The Exxon Corporation is currently drilling in Section 30, T. 4S., R. 11W. on a SWUA lease. Approval was granted by WPRS in late 1979.

WPRS is planning to withdraw land in the Strawberry Recreation Area in the near future. SWUA will be responsible for maintenance of lands outside the recreation area.

Proposed Action:

On July 7, 1980, Amoco Production Company filed an Application for Permit to Drill the No. 1 exploratory well, a 15,500-foot oil test of the Green River, Flagstaff, Price River, Ankarah, Thaynes, Park City, Diamond Creek, Oquirrh and Subthrust Oquirrh Formations. The wellsite is on public lands within the Uintah National Forest in NE/4 NE/4 Sec. 26, T. 4S., R. 12W., USM, Wasatch County, Utah, Federal Lease NO. U-16999.

The operator plans to use existing roads as much as possible to gain access to the wellsite. See Figure 2A and 2B in Appendix. A portion of the Indian Creek Road would be rerouted to reduce potential impacts to the drainage. Approximately 0.5 mile of new road and .75 mile of realigned road averaging a 16-18 foot wide running surface would be constructed and realigned as determined at the onsite inspection. An H₂S escape route about 1500 feet long would also be built. Maximum road width disturbances should not exceed 25 feet. Road design characteristics are outlined in the APD. The U.S. Forest Service has requested additional road design engineering for the realigned and new access roads.

Portions of the access route would utilize an existing asphalt road constructed by WPRS for the Strawberry Recreation Area. A small portion of the realigned Indian Creek road also crosses recreation area property in SW/4 Section 19, T. 4S., R. 11W. (See Figure 2A). Amoco must reach a maintenance and damages agreement with WPRS for use of the existing asphalt road. WPRS has also requested road design engineering for the realigned Indian Creek Road.

An oblong drill pad averaging 550 ft. in length and 345 ft. in width including a 145 ft. by 340 ft. reserve pit is planned for construction. A detailed site engineering plan is included in the attached APD.

About 8 acres of surface disturbance would be associated with road and pad construction.

The operator proposes to maintain a 30 man camp at the location.

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

The operator proposes to construct production facilities on disturbed areas of the proposed drill pad. Areas no longer necessary for production would be leveled, recontoured and reseeded per U.S. Forest Service specifications. Any oil produced would be trucked from the area.

The application was determined technically complete on September 22, 1980 and administratively complete on August 18, 1980.

Drilling operations would begin within 30 days upon approval of the APD, and would be expected to last 75-100 days to reach total depth. A period of 30 to 90 days is normally necessary to complete a well for production if hydrocarbons are discovered. A period of 3 to 5 years would be necessary for total rehabilitation of the area if it is a dry hole and the area would probably be disturbed for up to 15 to 20 years if production is encountered.

Environmental Considerations of the Proposed Action

Location and Natural Setting:

The proposed drillsite is within the Strawberry Valley approximately 4 miles southwest of the southern most edge of Strawberry Reservoir. Reservoir expansion, planned within the next 3 years, would enlarge reservoir area and the high waterline would extend to about 2 miles from the wellsite (See figure 1, 2A, and 2B in Appendix). The operator proposes to use the newly constructed reservoir enlargement road to gain access to the project area.

Hydrogen Sulfide:

This well may encounter hydrogen sulfide (H_2S) gas during dilling operations. Hydrogen sulfide is a highly toxic poison gas. An H_2S Contingency Plan has been filed with the District Office and is included in the Appendix. This Contingency plan addresses safety and emergency escape procedures for all rig personell, the contacting of local authorities, the protection of area recreationists, and also provides information concerning the toxicity of sour gas. A checklist for drilling in H_2S environments is included in the Appendix. The Contingency plan meets most of the requirements of the checklist. Deficient items have been supplemented by stipulation.

Due to the topographic location of this well it should be fairly well exposed to the fluctuating wind patterns of the area. The reserve pit is not situated in an ideal position for H_2S drilling, however location topography prevented pit construction downwind of the rig. To accomodate wind patterns the operator has considered the construction of two flare pits which should be strategically placed with respect to fluctuating wind patterns. Any H_2S escaping from the wellsite should disperse rapidly. Although sour gas is heavier than air and tends to flow downhill, it is wind sensitive and with strong winds, it would be carried above ground. Most dispersion from the wellsite should, therefore, occur above ground due to the topography of the area. It is not anticipated that any H_2S gas would be encountered at Strawberry Reservoir about 4 miles northeast of the wellsite.

Topography:

The Strawberry Valley is near the transition zone between the rugged Wasatch Mountains to the west and Colorado Plateau province to the east. Generally the terrain of the project area can be described as rolling

uplands with steep, rough broken and eroded lands dissected by broad to narrow valley flood plains. Drainage from the area is toward Strawberry Reservoir.

The wellsite is situated on a sloping bench near the top of a ridge (See Figure 2B). Steep cuts would be necessary along the west edge of the location to level the pad area. Depending on soil type and backslopes, restoration to original contours would be difficult to nearly impossible. Cuts and fills for pad leveling do not balance; however, the operator has provided for the storage of excessive materials (See Exhibit A of APD). Several rock outcrops are evident throughout the area, especially along ridges, and could cause pad and road construction problems.

Geology

Geologic information of the area is rather limited and piecemeal. The operator reports Tertiary rocks at the surface, and the District Geologist reports the Green River Formation. The Geologic Map of the State of Utah shows the Uinta Formation at the surface of most of the surrounding area. Please note a typographical error in the operator's estimated tops of geologic markers - Colton and Green River Formations are reversed. A literature search confirmed this error. The remainder of estimated geologic markers conform with reported formations in available literature.

Seismic risk for the area is moderate based on historic evidence. Several small faults exist in the Strawberry Reservoir area. There are two prominent normal faults which cross the reservoir area in a north-south direction nearly perpendicular to the course of Strawberry River. The downthrown blocks are to the west. The Charleston Thrust Fault runs in a northeasterly direction about 8 miles west of the test site.

Abnormal pressures would not be anticipated. Toxic noxious gases would, however be expected. Hydrogen sulfide gas may be encountered in the Phosphoria member of the Park City Formation.

Mass wasting or slumping is evident on the tree lined slopes above the location. Improper construction practices or saturated soil conditions could cause a slumping hazard at the wellsite. Proper, planned construction and backsloping are recommended.

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

The wellsite is within an oil shale withdrawal area as designated by E.O. 5327. A memorandum from AOSO (included in Appendix) reports that the casing and cementing program appears to protect any zones of probable interest. Additionally, stipulations have been included in the lease to protect oil shale deposits (See Appendix).

The area is also prospectively valuable for underground mining of solid bitumens (bituminous limestone). The Mining supervisor has requested logs of all formations containing potentially valuable minerals (See Appendix).

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

Very few wells have been drilled in the area and all at shallow depths. The very large thickness of sedimentary rocks contain abundant shale, sandstone and limestone of marine origin and would be expected to contain source beds. Several of the formations to be penetrated have produced hydrocarbons in the Uinta Basin to the east and north in the Evanston region of the Overthrust Belt. The drilling of this well would provide additional information concerning the stratigraphy and hydrocarbon potential of the area.

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

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

Soils

No detailed soil survey has been made of the project area. The topsoil in the vicinity of the wellsite range from a silt loam to a clay loam soil. Numerous rock outcrops are evident in the area. The soils are moderately susceptible to erosion with runoff potential dependent on slope and vegetation cover. Sediment yields are rated as low. Soil productivity is high and suitable for reestablishing vegetation.

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

Approximately 8 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut areas, etc. would minimize this impact.

Climate and Air Quality

The climate of the area is semi-arid with abundant sunshine, mild summers and cold winters, with temperature variations on a daily and seasonal basis. Temperatures range from 80-85^o F in summer to -40^o F in winter. Annual precipitation is 24-30 inches with most occurring as snow. Winds are strong and gusty occurring predominately from west, southwest to east, northeast. Air mass inversions are rare.

The area of the wellsite is within a Class II air quality classification region. This classification allows moderate air quality deterioration associated with moderate, well-controlled industrial and population growth. It is not anticipated that this wellsite will have a significant effect on the air quality of the area. Relatively heavy traffic would be anticipated during the drilling and operations phase, with construction and operations increasing dust levels and exhaust pollutants in the area. If the well were to be completed for production, traffic would be reduced substantially to a maintenance schedule, with a corresponding decrease of dust levels and exhaust pollutants. Should a gas leak occur, the effects would be extremely short-lived. (See H2S Contingency Plan portion of this document for discussion of H₂S.)

Noise

Background noise at the site is generally very low. The noise level at the site will increase significantly during the construction and drilling phases of the project. This increase is attributable to diesel drilling engines, generators, pumps, and service vehicles. The increased noise may be a nuisance to wildlife and result in their temporary migration from the immediate area.

The noise impact should have no long-term effects on the area, as it would be infrequent, following drilling, and should return to pre-drilling levels after abandonment.

Surface Water Hydrology

The area of concern is within the Strawberry River Drainage Basin. Waterways of main concern are Indian Creek and Strawberry Reservoir. Strawberry Reservoir has been rated by the State of Utah as a Class I fishery, the highest value of a fishery resource. Indian Creek is rated as a Class II stream, a high priority fishery resource. Under reservoir expansion, Indian creek would become an important reservoir spawning habitat. Channelization of Indian Creek near the reservoir presently limits spawning.

Drainage of the surrounding area is toward the reservoir which lies at the bottom of the valley. Actions of the wellsite and portions of the access road would primarily affect a non-perennial tributary of Crooked Creek which flows to Indian Creek. (See Figure 2A and 2B) A portion of the existing Indian Creek Road was rerouted to avoid construction adjacent to the creek and eliminate bridge replacement. (See Figure 2A for road realignment.) Avoidance of such construction would drastically reduce potential sediment hazards to the creek. The existing road crossing at Crooked Creek is presently maintained by a culvert. Some upgrading may be necessary for heavy truck traffic.

Drainages could be affected by erosion expected from surface disturbances. The potential for pollution would be present from leaks or spills. Grading the pad to drain to the reserve pit and berm or ditch construction above the pad to divert runoff would reduce erosion and related sediment hazards. Constructing a ditch below the location to catch contaminated runoff would reduce pollution hazards. Pollution from production spills is prevented by standard stipulations. Adherence to road drainage design standards presented in the APD should provide adequate drainage and reduce erosion. If erosion became serious along roads, drainage systems such as waterbars and dikes should be installed to minimize the problem.

An agreement for water purchase for drilling purposes from the Strawberry Water Users Association is presently under negotiation.

Ground Water

The structure and topography of the Strawberry Valley make the Strawberry River system the recipient of surface and ground water drainage. Recharge is primarily through snowmelt and rainfall during winter and spring months. Little subsurface data is available in the area; however, the District Geologist reports fresh water probable in the Green River Formation and possible down to the Price River Formation (See Mineral Evaluation report in Appendix). Amoco's proposed 1600 ft. of surface casing and cementing program would be adequate to protect Green River water. The intermediate casing string would be adequate to protect water at lower depths; however, adjustments may be necessary in the cementing program. The operator is responsible per standard stipulation to report and protect all fresh water aquifers.

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The reserve pit would be examined after construction to determine if lining is necessary.

Flora and Fauna

Based on the formal comments received from the USFS on September 22, 1980, we determine that there would be no effect on listed threatened or endangered species and/or their critical habitat.

The area could best be typified as an aspen-sagebrush ecosystem. The wellsite is situated in an aspen grove with an understory of a variety of grasses, forbes and browse or shrub species. The access route traverses sagebrush dominated lowlands and utilizes aspen groves for visual barriers.

The vegetation would be removed from 8 total acres, and minor relocation of wildlife in the immediate area, particularly small rodents, would be anticipated for the life of the project. If hydrocarbons were produced, adjustments in habitat occupancy would be expected.

Mammalian wildlife in the area include moose, elk, mule deer, beaver, coyotes, badger, porcupine, skunk, rabbits and a variety of small rodents. There are numerous prairie and mountain birds in the general area including sage grouse, forest (ruffed and blue) grouse, migrating waterfowl, magpies,

and may small non-game songbirds and ground nesting birds. birds of prey such as owls, bald and golden eagles, and various types of hawks inhabit or migrate through the area. Snakes and small lizards are also present on a seasonal basis.

Strawberry Reservoir and its tributaries are stocked with cutthroat, rainbow and brook trout. Natural spawning occurs in reservoir inlets, but the amount occurring is unquantified. The Utah State Division of Wildlife Resources operates an annual cutthroat spawn taking camp at the reservoir to tap the egg resource for hatchery purposes. The reservoir and streams also contain less desirable species such as redbside shiners, speckled dace and mountain suckers.

This action should not affect reservoir species directly; however the potential for non-point sedimentation primarily from the road along Indian Creek does exist.

Socio Economics

The economic and environmental impact of a single well is normally somewhat negligible. But should this well discover a significant new hydrocarbon source, local, state and possible national economics might be improved. In this instance, other development wells would be anticipated with increased environmental and economic impacts. this well is located in an area that may have a potential for field development. Cumulative effects could become significant at some future time.

Cultural Resource Determination

Based on the formal comments received for the USFS on September 22, 1980, we determine that there would be no effect on cultural resources, subject to USFS stipulations.

Land Uses

Land use of the area consists of recreation and grazing. The SWUA utilizes the Strawberry Valley for grazing cattle and sheep during the summer months. Recreational use of the area is heavy especially during fishing and big game hunting seasons. Some winter recreation occurs from snow-mobilers and to a lesser extent, cross country skiers. The adjacent National Forest lands compliment and supplement the water-oriented recreational opportunities and the combined resources offer a variety of environments for outdoor enthusiasts.

The future reservoir enlargement would increase recreational potential of the area. Plans for development include a variety of activities such as camping, picknicking, fishing, boating and hiking facilities. Space would also be made available for commercial resorts and organizational use.

No major impacts would be expected to recreationists as drilling would occur in the "off" season. Snowmobilers may benefit from increased access from snow removal from roads.

A variety of fishing cabins dot the southeast shore of the reservoir about 4 miles from the test site. Reservoir enlargement would inundate the sites and the cabins would be removed. No major impacts are expected to cabin sites by this action.

Future recreation should increase in the area due to its proximity to population centers. Potential development could lessen the recreational potential of the area depending on site location and proximity to the reservoir. The reservoir area itself and surrounding shoreline are under SWUA mineral leases.

Aesthetics

The wellsite does not blend in with the natural surroundings. Where possible, the access road was routed through aspen stands for visual barriers. Road scars through sagebrush areas would be evident.

The drillsite itself would be visible from the Indian Creek Road and possibly from portions of the new reservoir enlargement road. The large cuts necessary for pad leveling may not be fully restorable and a permanent visual scar would remain. All permanent facilities placed on the location would be painted a color to blend in with the surroundings.

If the well is a dry hole, rehabilitation would be done per the surface managing agency's requirements and the satisfaction of the USGS. This would involve leveling, contouring, reseeding, etc., of the location, and possibly the access road. Should this be a producing well, the access road and a small area around the well would remain disturbed for a long period of time, and measures would be undertaken to protect wildlife and domestic stock from production equipment. Areas not necessary for production will be rehabilitated following the drilling phase. The anticipated traffic would have a minimal impact on recreation traffic and vehicular safety problems. Aside from recreational activities such as hunting and snowmobiling, the only other human conflicts that would arise in normal useage of the area would be the grazing operations. These would be minor, with planned precautions to limit such conflict. The proposed rehabilitation plans meet the minimum requirements of NTL-6 and have been supplemented by USFS stipulations.

Waste Disposal

The mud and reserve pits would contain all fluids used during drilling operations. If pit levels reach capacity, fluids should be removed to an approved disposal site. A trash pit would be used for solid wastes generated at the site and would be removed from the forest to an appropriate disposal site. Sewage would be handled according to State sanitary codes.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Recommended Approval Conditions:

The following mitigative measures incorporate USFS recommended stipulations and would reduce potential impacts of the proposed action.

1. See attached Lease Stipulations.
2. A U.S. Forest Service road use permit will be necessary for use of the Indian Creek Road between the Forest Boundary and the leasehold and must include road profile, horizontal alignment, typical road section and culvert construction drawings.

3. An agreement with Water and Power Resources Service for use and maintenance of the Strawberry Recreation Area Road and rerouted Indian Creek Road over Strawberry Water Users Association lands is necessary prior to construction.
4. The lower portion of Indian Creek Road shall be relocated on northwest side of the creek to avoid disturbances to the stream and its riparian vegetation.
5. The abandoned portions of Indian Creek Road will be rehabilitated per USFS and WPRS guidelines.
6. Snow removal will be accomplished by using a snow blower to reduce problems with snow build up on roadsides and erosion of road edges and saturation base material.
7. The newly constructed access road will follow the route decided upon at the onsite inspection and subsequently reflagged with U.S. Forest Service.
8. All road design and construction shall follow guidelines agreed to in the U.S. Forest service road use permit. Additionally, all construction shall be guided by Surface Operating Standards for Oil and Gas Exploration and Development; Second Edition in consultation with the U.S. Forest Service.
9. Realigned and constructed access roads shall be limited to an 18 ft. wide running surface.
10. A pilot car will be necessary when large rigs are being moved on Forest roads.
11. All safety precautions and measures outlined in the H₂S Contingency Plan shall be adhered to.
12. The following supplemental equipment and measures shall be incorporated into the H₂S Contingency Plan:
 - A. A ventilation fan will be used under the rig floor.
 - B. Two safety briefing areas at lease 200 ft. from the well head must be designated and arranged so that at lease one area will always be upwind of the well at all times.
 - C. Swabbing or drillstem testing fluids containing H₂S shall be processed through a separator to permit flaring of gas.
13. The complete H₂S Contingency Plan shall be implemented including the installation of all safety equipment when drilling has reached 1000 ft. above or within 7 days of penetrating (whichever is the lesser) the Park City Formation.
14. Adequate supplies of H₂S mud scavengers shall be on location throughout drilling.
15. H₂S detectors and alarms shall be installed as specified in the Contingency Plan prior to spudding the well.

16. Two flare pits, with a minimum of 150' from the forest rig equipment shall be constructed downwind of the hole (E and W).
17. If H₂S gas is discovered prior to Contingency Plan implementation operations will cease until all safety equipment and plan procedures are operational.
18. Prior approval from the District Ranger is required for any water pumping stations.
19. An agreement for purchase of water from Strawberry Water Users Association is necessary.
20. Sufficient topsoil will be stockpiled to cover all disturbed areas at least 4 inches deep unless bedrock is encountered, in which case 12 inches will be needed.
21. Garbage and all other solid wastes will be removed from the site and disposed of from the Forest in an appropriate disposal site.
22. A berm will be constructed above all cut slopes to prevent any overland water flow from entering the drill pad.
23. The entire disturbed pad area shall be graded so that any runoff, spills, or precipitation will drain into the reserve pit.
24. The reserve pit shall be constructed by total excavation.
25. The reserve pit shall be dug to an adequate depth to hold run-off from the pad, about 30 inches of precipitation, and all drill mud and other effluents from the operation.
26. The reserve pit will be examined after construction by Amoco representatives, U.S. Forest Service, and/or USGS to determine if lining is necessary.
27. If the reserve pit contents reach pit capacity, operations will cease until fluids can be removed to an appropriate disposal site.
28. A 3 foot bermed ditch will be constructed along the low or eastern edge of the pad to collect spillage or storm runoff from entering the non-perennial tributary of Crooked Creek.
29. The reserve pit must be fenced deer and elk tight while the reserve pit is drying out after completion of drilling operations.
30. Any trees that must be removed to clear the access road must be marked by a Forest Officer.
31. All vehicles must stay on the work pad and road premise.
32. Specifications for road engineering and construction required in the Forest Service road permit shall also apply to roads within the leasehold.
33. The Forest Service must approve all culvert designs.

34. A cattleguard will be installed on the access road at the fence crossing in SW/4 Section 25, T. 4S., R. 12W., USM.
35. During snow removal, snow shall be removed to the downhill side of the road. Openings shall be created every 300 ft. to allow water to move through the snowbanks.
36. Upon rehabilitation any materials from the pits that are contaminated with toxic pollutants or oils must be removed from the Forest and disposed of in a proper site. Soil from toxic spill areas will also be removed in a similar manner.
37. At the completion of operations, all excess drilling materials (bentonite, mud, raw dust, etc.) must be removed.
38. If the well is abandoned the drill pad and access road must be restored to blend back into the natural grade.
39. If the well is a producer, those areas not needed for production will be regraded to natural contours and reseeded with a USFS approved species list.
40. A 16-16-8 fertilizer at a rate of 100 lbs. per acre must be applied for rehabilitation.
41. Planting and seeding of the site, if abandoned, will be done with a Forest Service provided and approved species mix after topsoil and fertilizer have been placed.
42. The cut slopes on the access roads will be mulched per Forest Service specifications.
43. After drilling operations are completed, the site must be fenced to exclude livestock. If the site is abandoned the fence will be maintained for 5 or 6 years until it revegetates. If the well is a producer, the fence will be maintained for the life of the well and a cattle guard installed where the fence crosses the access road.
44. Adequate resistivity, density, Gamma-Ray or other appropriate electric logs will be run through all formations containing potentially valuable minerals (oil shale, and solid and semi-solid bitumens).
45. All minable mineral zones shall be isolated with cement from a point 100 feet below the formation to 100 feet above the Formation. A depth of 4000 feet has been deemed the lowest limit for cementing. All fresh water zones shall be isolated in a like manner.
46. If an economic field is discovered development plans must be submitted to USGS and USFS in advance for review and approval.

Adverse Environmental Effects Which Cannot be Avoided:

Surface disturbance and removal of vegetation from approximately 8 acres of land surface for the lifetime of the project would result in increased

and accelerated erosion potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig and support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. The potential for fires, gas leaks, and spills of oil and water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment of resources would be made. Erosion from the site would eventually be carried as sediment in Strawberry Reservoir. The potential for pollution to Crooked Creek, Indian Creek and Strawberry Reservoir would exist through leaks and spills. The potential for encountering H_2S gas exists.

If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of an irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

Controversial Issues:

No Controversial Issues were discovered during the preparation of this document.

Finding of No Significant Impact

We have examined the impacts of the proposed action, Amoco Production Company Well No. 1, in the preceding pages of the Environmental Assessment. The following summary sheet shows the evaluation of these impacts against each of the parameters listed for "significance" in 40 CFR 1508.27 and the background impact reference for our reasons of determining the no impact or no significant impact category.

Finding of No Significant Impact
40 CFR 1508.13 and .27

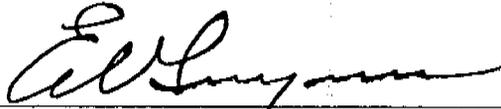
Key
NI - No impact
NS - No significant impact

<u>CEQ parameter 40 CFR 1508.27(b)</u>	<u>Severity of Impact Level/Degree of Significance</u>	<u>EA Page and Paragraph Reference</u>
1. Beneficial and/or adverse effects.	NS	par. 1, 2 p. 5 par. 1, p. 6 par. 1, 2, 3, p. 7 par. 1, 2 & 4, p. 9 par. 1, 2 & 4, p. 10 par. 1 & 3, p. 11 par. 1, p. 12 par. 3, 4, p. 13 par. 5, p. 14 par. 1, 2, p. 15 par. 1, p. 19, 20 par. 2, p. 20
2. Public health and safety.	NS	par. 1 & 2, p. 5 par. 1, p. 12 par. 4, p. 14
3. Unique characteristics of the geographical area.	NS	par. 3, p. 10 par. 1, 2, 3, p. 14 par. 4, p. 14
4. Effects highly controversial.	NI	
5. Highly uncertain effects or unique or unknown risks.	NS	par. 1, 2, p. 5 par. 1, p. 7
6. Establishes precedent for future actions or is a decision in principle about future action.	NI	
7. Assessment of cumulative actions and impacts thereof. Note 40 CFR 1508.7	NS	par. 3, p. 13

<u>CEQ Parameter 40 CFR 1508.27(b)</u>	<u>Severity of Impact Level/Degree of Significance</u>	<u>EA Page and Paragraph Reference</u>
8. Effect on districts, sites, highways, structures, or objects listed in or eligible for listing in the National Register of Historic Places or may cause loss or destruction of significant scientific, cultural historical resources.	NI	
9. Effects on endangered or threatened species or their habitat that have been determined to be critical under the Endangered Species Act of 1973.	NI	
10. Threatens a violation of Federal, State, or local law or requirements imposed for the protection of the environment.	NI	
11. Other related NEPA and environmental documents. (name)	Reference No. 4, 5, & 6, Page 25 Available at USGS, SLC	

Determination:

In my opinion, the proposed action does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102(2)(C), and the environmental impacts of the proposed action are not likely to be highly controversial.



District Supervisor, Salt Lake City District

10/24/80

Date

I concur



Deputy Conservation Manager, Central Region

ACTING

10/29/80

Date

I determine that the preparation of an environmental impact statement is not required.



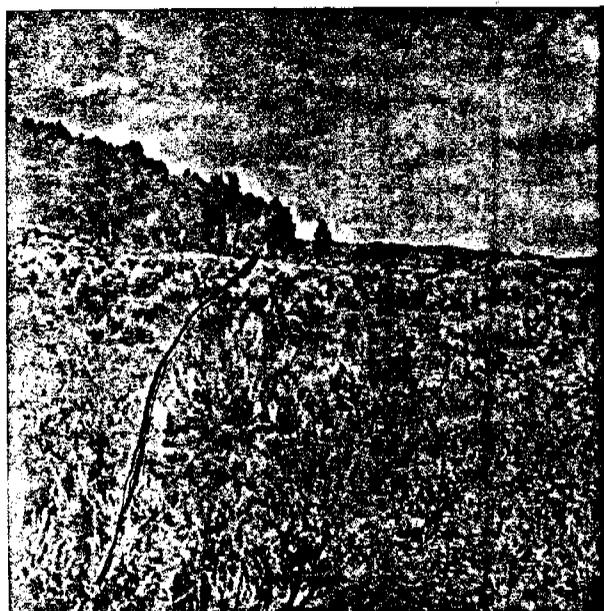
Conservation Manager, Central Region

10/29/80

Date

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Access

↑
W



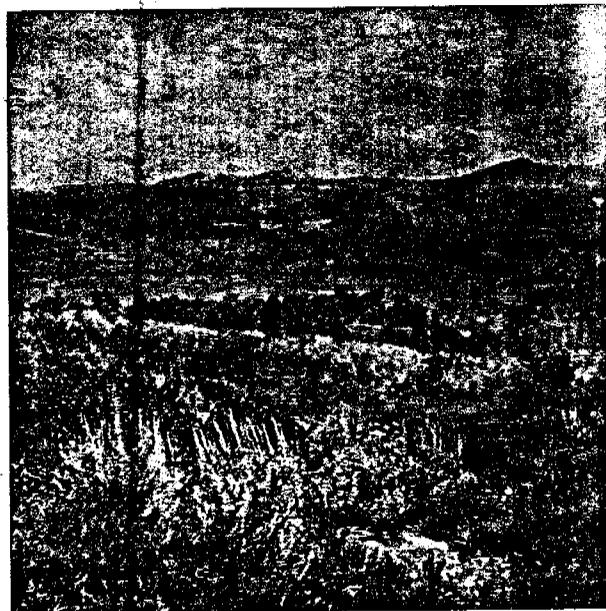
Well site

↑
W



Drill site

↑
S



West edge of
PAD
Exxon well in Background

↑
E

DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

George

DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

APD MINERAL EVALUATION REPORT

LEASE NO. U-16999

OPERATOR: Amoco Production Co.

WELL NO. 1

LOCATION: SW 1/4 NE 1/4 NE 1/4 sec. 26, T. 4S, R. 12W USM

Wasatch County, Utah

Stratigraphy: ^{operator's tapes}

Green River - surface	Parb City	8880
Colton - 1010	Diamond Creek	10,520
Flagstaff - 4010	Ogumit	11,920
Puce River - 4410	Subthrust Ogumit	13,760
Amkanak - 6750		
Thayer - 7180		

Fresh Water:

probable in the Green River Fm, possible down to the Puce River Fm

Leasable Minerals:

Prospectively valuable:

- solid and semi-solid bitumens (bituminous limestone)
- oil shale - withdrawal E.O. 5327 (Green River Fm, Parachute Creek Mem., Mahogany zone)
- coal - Frontier S.S. of Mancos Shale?

Additional Logs Needed:

Run suite through all mineral zones.

Potential Geologic Hazards:

possible H₂S in the Phosphoria member of Parb City Fm.

References and Remarks:

Signature: Joseph Ince Date: 7-17-80

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P. O. Box 17675, Salt Lake City, Utah 84117

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE/4 Sec 26, 1266' FNL & 1178' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE W-628564

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Strawberry River Unit

9. WELL NO.
#1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 26, T4S, R12W USM

12. COUNTY OR PARISH
Wasatch

13. STATE
Utah

14. API NO.
43-051-30009

15. ELEVATIONS (SHOW DEPTH AND WD)
7987' GR

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

DIVISION OF
OIL, GAS & MINING

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please accept this sundry notice as Amoco Production Company's notification of spud and pertinent activities to date. Spud occurred on January 12, 1981 at 1900 hrs. Surface casing (20") has been set at 1515'

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

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

SIGNED G. W. CHAPMAN TITLE Administrative Supervisor DATE March 11, 1981

(This space for Federal or State office use)

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

April 2, 1981

Amoco Production Company
P.O. Box 17675
Salt Lake City, Utah 84117

Re: SEE ATTACHED SHEET

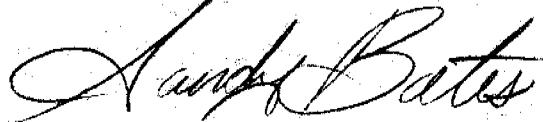
Gentlemen:

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

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Yours truly,
DIVISION OF OIL, GAS, AND MINING



SANDY BATES
CLERK-TYPIST

1. Well No. Champlin 846-Amoco "B" #1
Sec. 19, T. 5N. R. 8E.
Summit, County, Utah
2. Well No. #2
Sec. 21, T. 4N. R. 8E.
Summit County, Utah
3. Well NO. Champlin 458-Amoco "G" #1
Sec. 29, T. 4N. R. 8E.
Summit County, Utah
4. Well NO. Strawberry River #1
Sec. 26, T. 4S. R. 12W.
Wasatch County, Utah

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

5. LEASE DESIGNATION AND SERIAL NO.

W-628564

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Strawberry River Unit

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA

Sec. 26, T4S, R12W U1SM

12. COUNTY OR PARISH 13. STATE

Wasatch

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 17675, Salt Lake City, Utah 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

NE/4 Sec. 26, 1266' FNL and 1178' FEL

TIGHT HOLE

14. PERMIT NO.
43-051-30009

15. ELEVATIONS (Show whether depth, or elevation)
7987' GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) Notice of tight hole <input checked="" type="checkbox"/>	

SUBSEQUENT REPORT OF:

WELL SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLEASE CONSIDER THIS WELL A TIGHT HOLE

MINING & SURVEYING
DIVISION OF OIL, GAS & MINING

APR 23 1981

RECEIVED

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

SIGNED [Signature] TITLE District Administrative Supervisor

DATE 4-16-81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

TIGHT HOLE

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P.O. Box 17675, Salt Lake City, Utah 84117

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: NE/4 Sec. 26, 1266' FNL & 1178' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Please accept this sundry as Amoco Production Company's notice of operations on the subject well. Surface casing (13-3/8") was set at 5223' on 3-27-81. As of 4-20-81, the total depth was 6845.

NOTE: Notice of spud was sent in on sundry dated 3-11-81.

5. LEASE
W-628564

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Strawberry River Unit

MAYWELL NO. 1981
#1

10. FIELD OR WILDCAT NAME
WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
OH - GAS & MINING
Sec. 26, T4S, R12W, USM

12. COUNTY OR PARISH
Wasatch

13. STATE
Utah

14. API NO.
43-051-30009

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7987' GR

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

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

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

SIGNED Original Signed by
D. S. DAVIDSON TITLE District Administrative DATE 4-24-81
Supervisor

(This space for Federal or State office use)

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



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

February 10, 1982

Amoco Production Company
P. O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. Strawberry River #1
Sec. 26, T. 4 S, R. 12W
Wasatch County, Utah

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report Log for the above mentioned well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form approved, **STATE**
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U-16999

6. IF INDIAN ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Strawberry River

8. FARM OR LEASE NAME

Strawberry River Unit

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 26, T4S, R12W USM

12. COUNTY OR PARISH
Wasatch

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
AMOCO PRODUCTION COMPANY

3. ADDRESS OF OPERATOR
P.O. Box 17675 Salt Lake City, Utah 84117

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1266' FNL & 1178' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-051-30009 DATE ISSUED 7-30-80

15. DATE SPUDDED 1/12/81 16. DATE T.D. REACHED 7/13/81 17. DATE COMPL. (Ready to prod.) 9-18-81 TA 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 7987' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 12,338' 21. PLUG, BACK T.D., MD & TVD 4,476' 22. IF MULTIPLE COMPL., HOW MANY* -- 23. INTERVALS DRILLED BY → Surf. to TD ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*
N/A

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-SFL-GR; FDC-CNL-GR; Dipmeter; BHC-GR; Spectralog; DNL *see* *yes*

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD
20"	133#-106#	1555'	26"	357 sx "G"
13 3/8"	72#-68#-61 5#	5223'	17 1/4"	6830 sx

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3 1/2"	4031'	4031'

31. PERFORATION RECORD (Interval, size and number)

3710' - 3780'; 3856' - 3886'; 3920' - 3928';
3940' - 4012'; 4090' - 4120'; 4519' - 4536';
4566' - 4578'; 4761' - 4772'; 4944' - 4954'
4986' - 4976' all w/4 JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) **Temporarily Abandoned**

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

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS _____

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

SIGNED G. W. CHAPMAN TITLE Administrative Supervisor DATE 3-8-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

No DST's

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
Core #1	8347'	8365'	Cut 18' Rec. 17.8'	Green River Colton Flagstaff North Horn Oquirrh	38.
					MEAS. DEPTH
					TOP
					TRUE VERT. DEPTH
					Surface 4360' 5430' 5520' 6320'
					TD - Oquirrh w/no shows or breaks



UTAH
RESOURCES & ENERGY
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

May 5, 1982

Amoco [redacted] Company
P. O. [redacted]
Salt Lake City, Utah 84117

Re: Well No. Strawberry River Unit #1
Sec. 26, T. 4S, R. 12W.
Wasatch County, Utah

Gentl [redacted]

[redacted] to our records, a "Well Completion Report" filed with this office [redacted] 1982, from above referred to well, indicates the following logs were run: DIL-SFL-GR; FDC-CNL-GR; Dipmeter; BHC-GR; Spectralog; ACBL; CBL; Radio; Temp. As of today's date, this office has not [redacted] these logs: DIL-SFL-GR; FDC-CNL-GR; Dipmeter; BHC-GR; Spectralog; and [redacted].

[redacted] General Rules and Regulations and Rules of Practice and Procedure requires that a well log shall be filed with the Commission together with a copy of the electric and radioactivity logs.

[redacted] attention to the above will be greatly appreciated.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse
Clerk Typist

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Amoco Production Company

3. ADDRESS OF OPERATOR
P. O. Box 17675 - Salt Lake City, Utah 84117

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1266' FNL & 1178; FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

5. LEASE
U-16999

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Strawberry River Unit

9. WELL NO.
Strawberry River Unit

10. FIELD OR WILDCAT NAME
#1

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 26, T4S, R12W, USM

12. COUNTY OR PARISH
Wasatch

13. STATE
Utah

14. API NO.
43-051-3009

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7987 'GR

(NOTE: Report results of multiple completions or change on Form 9-331-C)

VOID

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give the estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Amoco Production Company herewith advises that the subject well was plugged and abandoned on January 21, 1983 in the following manner:

TD: 12,338'

Casing: 13-3/8" SA 5223'
20" SA 1555'

Formation Tops:

Green River SFC

Colton 4360'

Flagstaff 5430'

North Horn 5520'

Oquirrh 6320'

Plugs: (See Attachment "A")

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

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

SIGNED *James Smith* TITLE Staff Admin Analyst (SG) DATE 4-27-83

(This space for Federal or State office use)

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

ATTACHMENT "A"

Strawberry River Unit #1

Plugs set as follows:

<u>From</u>	<u>To</u>	<u>SX Cement</u>
SFC	65'	50 SX
1450'	1650'	150 SX
3370'	3670'	225 SX
3663'	3674'	CIBP w/ 5 SX
4473'	4484'	CIBP w/ 5 SX
4653'	4664'	CIBP w/ 5 SX
5114'	5340'	700 SX
7515'	7920'	300 SX
9698'	10,017'	375 SX
12,230	12,338'	100 SX

Verbal approval to Steve Mahaffey, Amoco Production Co., from Bill Martens, BLM Oil and Gas, and Ron Firth, Utah Oil and Gas Conservation Commission, January 18, 1983, 3:40 p.m.



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

April 25, 1983

Amoco Production Company
P. O. Box 17675
Salt Lake City, Utah 84117

Re: Well No. Strawberry River # 1
Sec. 26, T. 4S, R. 12W.
Wasatch County, Utah

Gentlemen:

Review of the file for the above referenced well indicates that the well has been reported as temporarily abandoned since March 8, 1982. The Division staff issued approval on May 21, 1982, for the Sundry Notices and Reports of Wells, Notice of Intention to Abandon the Well for this well.

Please immediately advise this office as to the status of this well and if the approved abandonment has been completed; promptly submit the required Subsequent Report of Abandonment.

Thank you for your prompt cooperation with the above matter.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Well Records Specialist

CF/cf
Enclosure