

# FILE NOTATIONS

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

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

## COMPLETION DATA:

Date Well Completed .....  
    WW..... TA.....  
    W..... OS..... FA.....

Location Inspected .....  
Bond released  
    State or rec .....

## LOGS FILED

Driller's Log.....  
Electric Logs (No.) .....  
E..... I..... Dual I Lat..... GR-M..... Micro.....  
BHC Sonic GR..... Lat..... MI-L..... Sonic.....  
CBLog..... CCLog..... Others.....

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

5. Lease Designation and Serial No.  
**Fee**

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name  
**Champlin 846 Amoco "A"**

9. Well No.  
**1**

10. Field and Pool, or Wildcat  
**Phosphoria-Wildcat**

11. Sec., T., R., M., or Blk. and Survey or Area  
**Sec. 25, T5N, R7E**

**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 NW/4 Section 25, 2342' FWL 714.7' FNL**  
 At proposed prod. zone  
**Same**

14. Distance in miles and direction from nearest town or post office\*  
**7 1/2 road miles south of Wanship, UT**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)  
**714.7'**

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
**5266'**

21. Elevations (Show whether DF, RT, GR, etc.)  
**6760' Ungraded Ground**

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20" (Conductor)	133# K-55	1500'	1800 sx POZ x 400 sx C1 "G" w/2% CaCl <sub>2</sub> to surface.
17 1/2"	13 3/8" (Surface)	72# L-80, 68# K-55, 88.5 SS-95	5500'	2000 sx C1 "G" w/18% salt x 300 sx C1 "G" @ surface.
12 1/4"	9 5/8" (Intermediate)	47#, 40#, 43#, 47#, all SS-95	11,450'	Stage 1-1200 sx C1 "G", stage 2 1500 sx POZ
8 3/4"	7" (Oil String)	26, and 23#, SS-95 and L-80.	12,750'	800 sx C1 "G"

Propose to develop Phosphoria Gas Reserves.

Amoco controls all oil and/or gas leases in Section 25, T5N, R7E, Summit County, Utah. Terrain considerations have made it necessary to stake subject well in an unorthodox location. <sup>What?</sup>

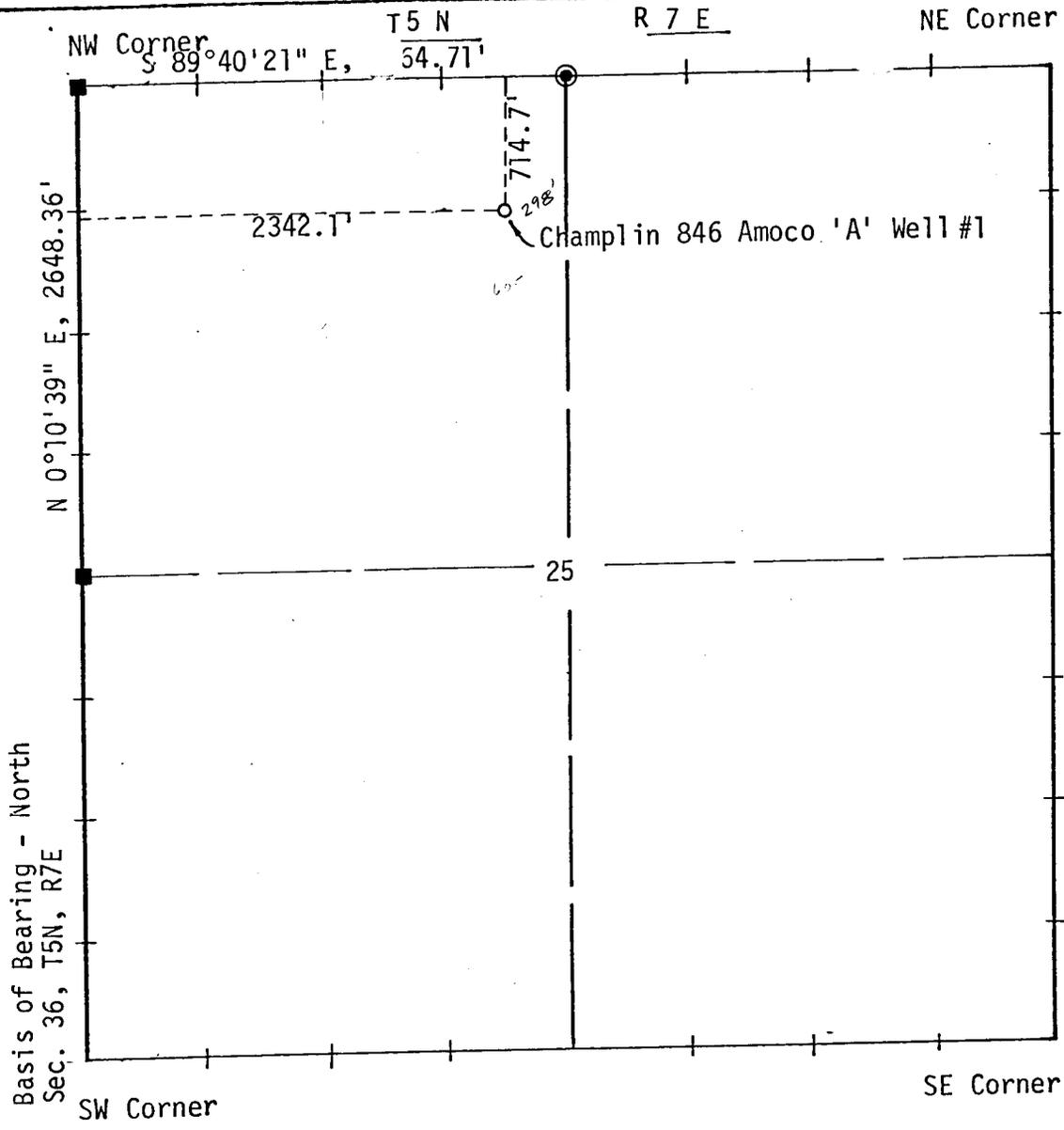
SEE ATTACHMENTS

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 D. J. Davidson Title Dist. Adm. Supervisor Date April 30, 1979  
 (This space for Federal or State office use)

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

Approved by ..... Title ..... Date .....  
 Conditions of approval, if any:



SCALE: 1" = 1000'

- Found Brass Cap
- Found Stone
- ⊙ Set Brass Cap
- ⊗ Found Stone - Set Brass Cap
- Hub and Tack

I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from R.C. Buckley of Evanston, Wyoming for Amoco Production Company I made a survey on the 24th day of April, 19 79 for Location and Elevation of the Champlin 846 Amoco 'A' Well as shown on the above map, the wellsite is in the NE 1/4 NW 1/4 of Section 25, Township 5 N, Range 7 E of the Salt Lake Base & Meridian, Summit County, State of Utah, Elevation is 6760 Feet top of hub Datum U.S.G.S. Quadrangle - Wasatch, Utah Spot Elev. 6884 SW 1/4, Sec. 25, T5N, R7E

Reference point	North 300'	Elev. top of pin	6818.1'
Reference point	East 300'	"	6800.4'
Reference point	South 300'	"	6731.6'
Reference point	West 300'	"	6736.0'

*John A. Proffit* 4/27/79  
 JOHN A. PROFFIT UTAH R.L.S. NO. 2860

DATE: 4-26-79  
 JOB NO.: 79-10-27

UINTA ENGINEERING & SURVEYING, INC.  
 808 MAIN STREET, EVANSTON, WYOMING

ATTACHMENT TO FORM OGC - 1a  
Champlin 846 Amoco "A" Well #1

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

Wasatch	3880'	Dinwoody	11,155'
Salt	4960' - 5370'	Phosphoria	11,450'
Twin Creek	5435'	Weber	11,955'
Nugget	7045'		
Thaynes	9155'		

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

Water, Oil, and Gas anticipated at 5435'

4. Casing Program - See Form OGC-1a

5. Operators minimum specifications for pressure control equipment are explained on attached schematic diagram. Testing of such is to be performed daily and noted on the IADC Daily Drilling Report. After running surface casing and prior to drilling out, BOP and other pressure equipment will be tested to the full working pressure rating as shown on the attached diagram. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Daily Drilling Report.

6. Mud Program

0-1500' Native

1500'-5500' LSND-Salt Sat, 8.9-9.0 ± #/gal, min viscosity as required to clean hole.

5500'-6950' Air

6950'-TD LSND, 9.0-10.5 ± #/gal, min viscosity as required to clean hole. Increase PH to 10.5 ppg before Drilling Dinwoody and Phosphoria formations.

7. Auxiliary Equipment:

Kelly Cock: floor sub with a full opening valve. 3" choke manifold with remote control choke, 2500 PSI WP.

Mud logger (2-man type) On location from surface to Total depth.

8. Test Program:

Drill stem tests are proposed for the Twin Creek, Nugget and Dinwoody formations. Core intervals to be determined by well-site geologist and Amoco's Denver Division.

Logging Program

DIL-GR	Base of surface casing to total depth.
BHC-Sonic-GR	Base of surface casing to total depth.
FDC-CNL-GR-Caliper	Surface Casing to total depth.
HDT (Dipmeter)	Base of surface casing to total depth.
GR	0-2000'

Coring Program

1-60' core at the top of the Phosphoria is proposed. Core point is to be determined by Amoco's Western Division Geologists in Denver.

Stimulation Program

Twin Creek - Perf, test, and if necessary acidize pay interval w/100 gal/ft. 15% HCL w/400 SCF/BBL N<sub>2</sub>.  
Dinwoody - Perf, test and if necessary acidize pay interval w/50 gal/ft. 7½% Perf Clean-up acid.  
Phosphoria - Perf, test and if necessary acidize pay interval w/50 gal/ft. 7½% Perf Clean-up acid.

9. No abnormal pressure or temperature or potential hazards are anticipated. Anticipated bottom hole pressure - 6300 PSI. Casing head 9 5/8" 5000# WP. Tubing head, 10" x 5000# x 7 1/16" 10,000# WP
10. The anticipated starting date will be when approved. The duration of the operations will be approximately sixty days.

CONTINGENCY PLAN

AMOCO PRODUCTION COMPANY  
P.O. BOX 17675  
SALT LAKE CITY, UTAH 84117

ACTION PLAN FOR ACCIDENTAL RELEASE OF H<sub>2</sub>S

CHAMPLIN 846 AMOCO "A" No. 1  
NE/4 NW/4 SECTION 25, T5N-R7E  
SUMMIT COUNTY, UTAH

(This Plan is Subject to Updating)

May 1, 1979

## 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 ( $H_2S$ ).

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

$H_2S$  is a colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations or over long periods of exposure, the sense of smell may be paralyzed.  $H_2S$  is extremely toxic gas that must be treated with extreme care to prevent injury to people.  $H_2S$  is heavier than air (specific gravity=1.19) and on still days tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the  $H_2S$  gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

The toxicity of  $H_2S$  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 ½ 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  $H_2S$  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 H<sub>2</sub>S 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 H<sub>2</sub>S 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 H<sub>2</sub>S monitoring system with two or more H<sub>2</sub>S 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 logger's trailer and/or the dog house. Each unit will be set to trigger a blinking light on the rig floor should the amount of H<sub>2</sub>S reach 10 PPM, and to trigger an alarm should the amount of H<sub>2</sub>S reach 20 PPM. Any time it is necessary to deactivate the alarm (if H<sub>2</sub>S is continuously present), a trained operator or H<sub>2</sub>S Supervisor will monitor the detection system.

2. When approaching or drilling H<sub>2</sub>S formation, crew members may attach 8-hour H<sub>2</sub>S 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

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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 kit
- 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 O.S.H.A. standards, part 1910.134, Respiratory Protection.

This equipment is available for persons normally on location. This includes the five man crew, tool pusher, 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 H<sub>2</sub>S "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 tool pusher'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 tool pusher's quarters, mud logger's unit, rig floor, shale shaker, mud mixer area and choke manifold.
10. An undulating high and low pitch siren will be installed.

## 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 tool pusher 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. H<sub>2</sub>S Training and Drills

All personnel shall be instructed and certified for H<sub>2</sub>S 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.

H<sub>2</sub>S drills will be held periodically. The Amoco representative, along with the tool pusher, shall plan and activate drills. They will activate, without warning, the H<sub>2</sub>S 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

At this time there are no residents within the two mile evacuation area. It is the Amoco Drilling Foreman's responsibility to locate any new residences within the evacuation area to keep that portion of the emergency evacuation plan up to date.

IX. EMERGENCY EVACUATION PLAN

(See Attachment)

IX 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 tool pushers 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 is 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 Tool Pusher

## 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. Uncontrollable well
2. Poison gas present above threshold levels

## Emergency procedure:

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 up wind. 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 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.

COALVILLE MEDICAL PERSONNEL AND FACILITIES

Coalville Hospital-----801-336-5631  
801-336-5632

Dr. Wayne Bosworth----- (Office) 801-336-2727  
(Home) 801-336-5341

Ambulance-----801-336-5561  
801-359-0037

\*note: Ambulance, Sheriff's Office, and Highway Patrol can be notified by calling Sheriff Office Dispatcher-----801-359-0037

EVANSTON MEDICAL PERSONNEL AND FACILITIES

Memorial Hospital-----307-789-3636

Hospital Administrator, Vidianna Reiser

Dr. Dean A. Holt----- (Office) 307-789-2162  
(Home) 307-789-3120

Dr. Cali-----307-789-3956

Ambulance-----911

Evanston Aviation-----307-789-2256

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>
A. Milt Hoesel	307-789-2591	307-789-9543

<u>NAME</u>	<u>OFFICE TELEPHONE</u>	<u>HOME TELEPHONE</u>
B. Bud Hocken	307-789-2591	307-789-9601
C. Bill Halvorson	801-272-9253	801-943-2243
D. Wayne Todd	801-272-9253	801-272-4706
E. Roy Thornock	801-272-9253	801-943-8836
F. Wink Jones	801-272-9253	801-272-2946

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

LAW ENFORCEMENT AGENCIES

Sheriff Department, Summit County-----801-336-5561  
 Ron Robinson, Sheriff

Highway Patrol-----801-359-0037

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  
 Coalville, Utah-----801-336-2231

UTAH ENVIRONMENTAL PROTECTION AGENCY

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

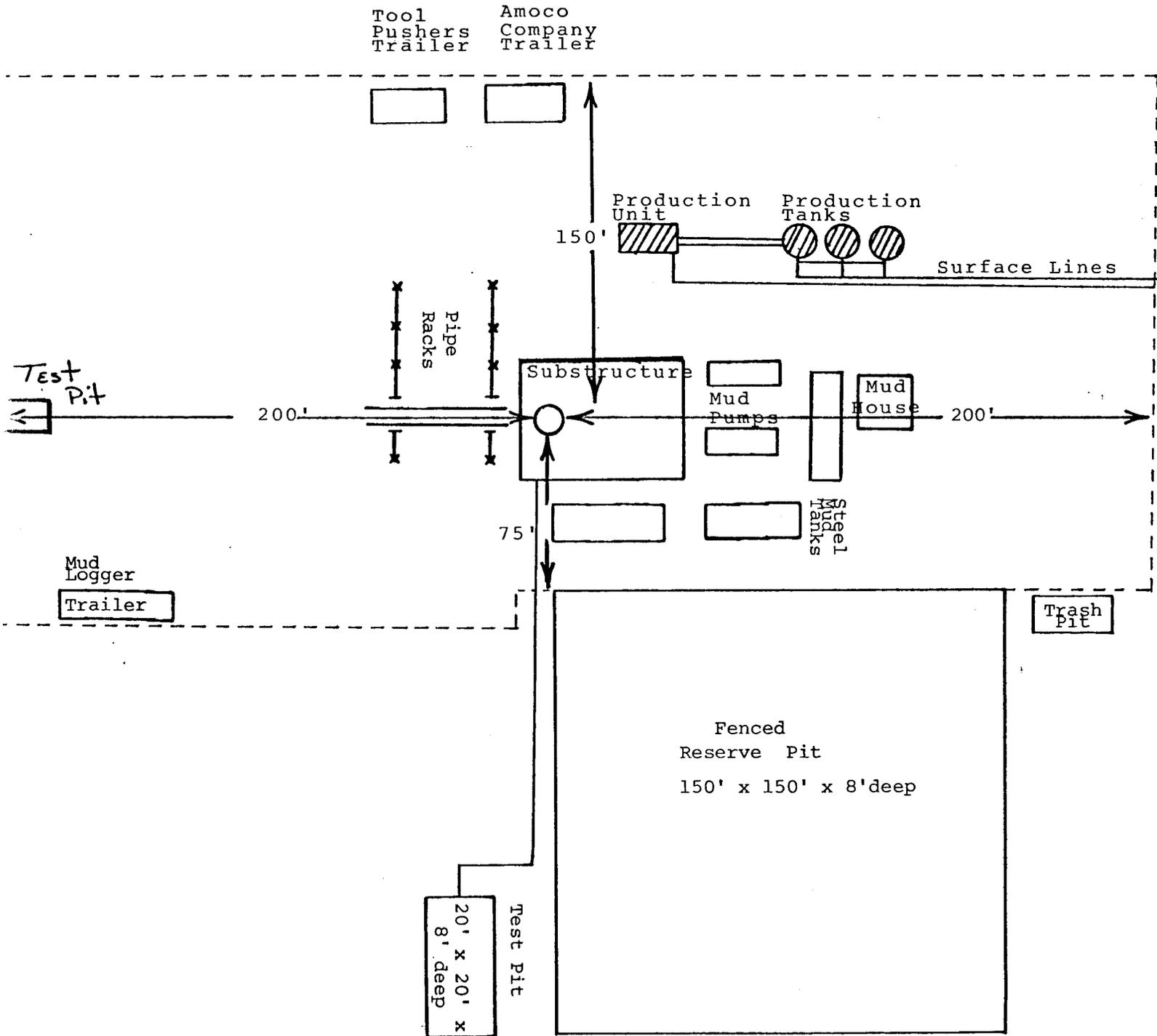
7. The State Police shall contact residents in the two (2) mile danger zone and start evacuation with those in the down wind direction of the rig.

LIST OF RESIDENTS WITHIN 2 MILE RADIUS

There are no residences within a required radius of 2 miles of the well site.

8. The decision to ignite should be made only when it is clear that:
  - a. Human life is endangered. .
  - b. There is no hope of controlling the well under prevailing conditions. Every effort should be made to contact Amoco personel if time permits.
  
9. Meet with appropriate agencies and law enforcement affcials as soon as practical to brief the on the situation and coordinate evacuation efforts.





⊘ = Shows permanent production equipment to be installed after drilling rig has moved out.

----- Dotted lines indicated perimeter of leveled location.

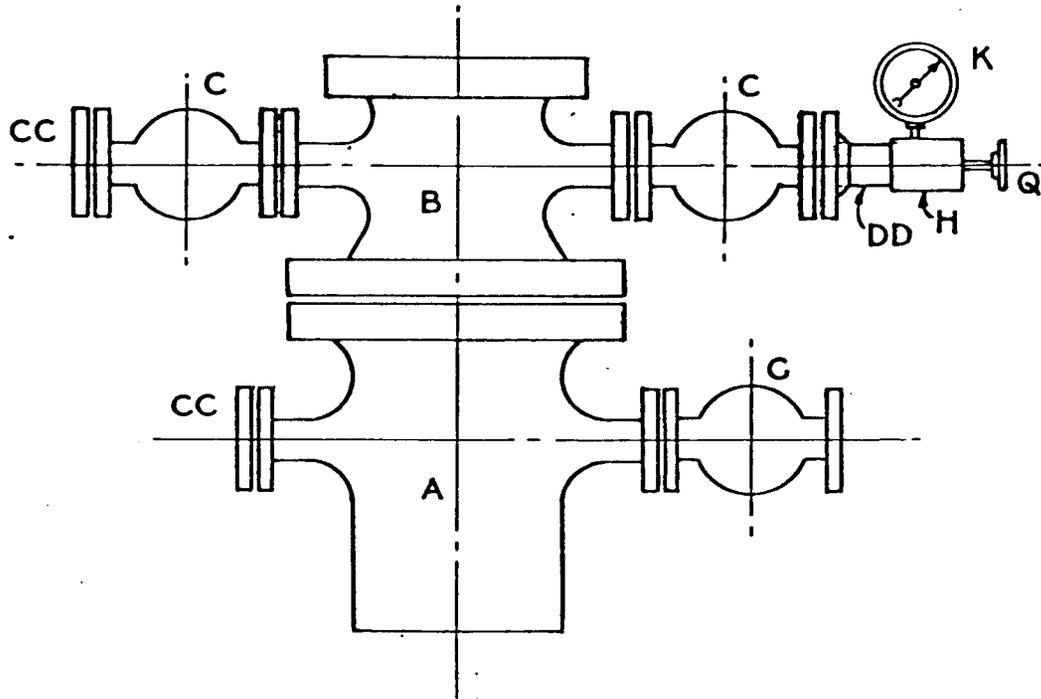
The fenced pit used for production will be covered if any fluid is present. The drilling and production pads will be constructed with dozers and graders using native material.

TYPICAL  
LOCATION  
LAYOUT

AMOCO PRODUCTION COMPANY  
P. O. Box 17675  
SALT LAKE CITY, UTAH 84117

EXHIBIT "D"

Refers to Specification No. W-8  
Effective Date: June 1, 1973



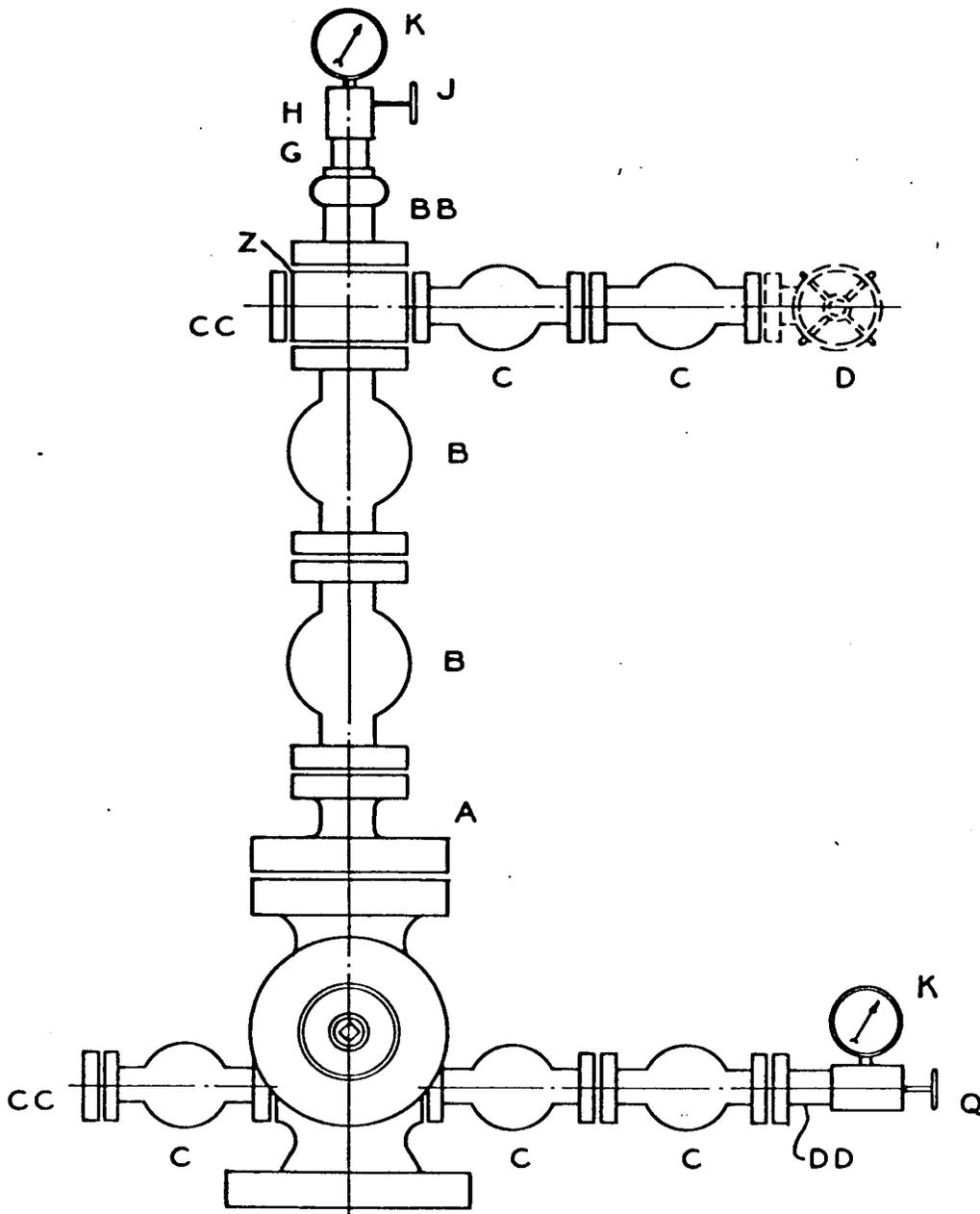
FOR 5,000# W. P. PRIMARY CASINGHEAD,  
AND 5,000# W.P. SECONDARY CASINGHEAD.

IF INTERMEDIATE STRING OF CASING NOT REQUIRED,  
LOWER (PRIMARY) HEAD WILL BE ONLY CASINGHEAD USED.

Amoco Production Company  
STANDARD BASIC CASINGHEAD HOOK-UP  
5 000 # W. P.

SCALE: NONE  
DR. MBB AP.  
DRG. A-8343  
No.

Refers to Specification No. W-8  
Effective Date: June 1, 1973



Amoco Production Company  
STANDARD BASIC WELL HEAD HOOK-UP  
10,000# W.P.  
(CHOKE STEM UP STREAM)

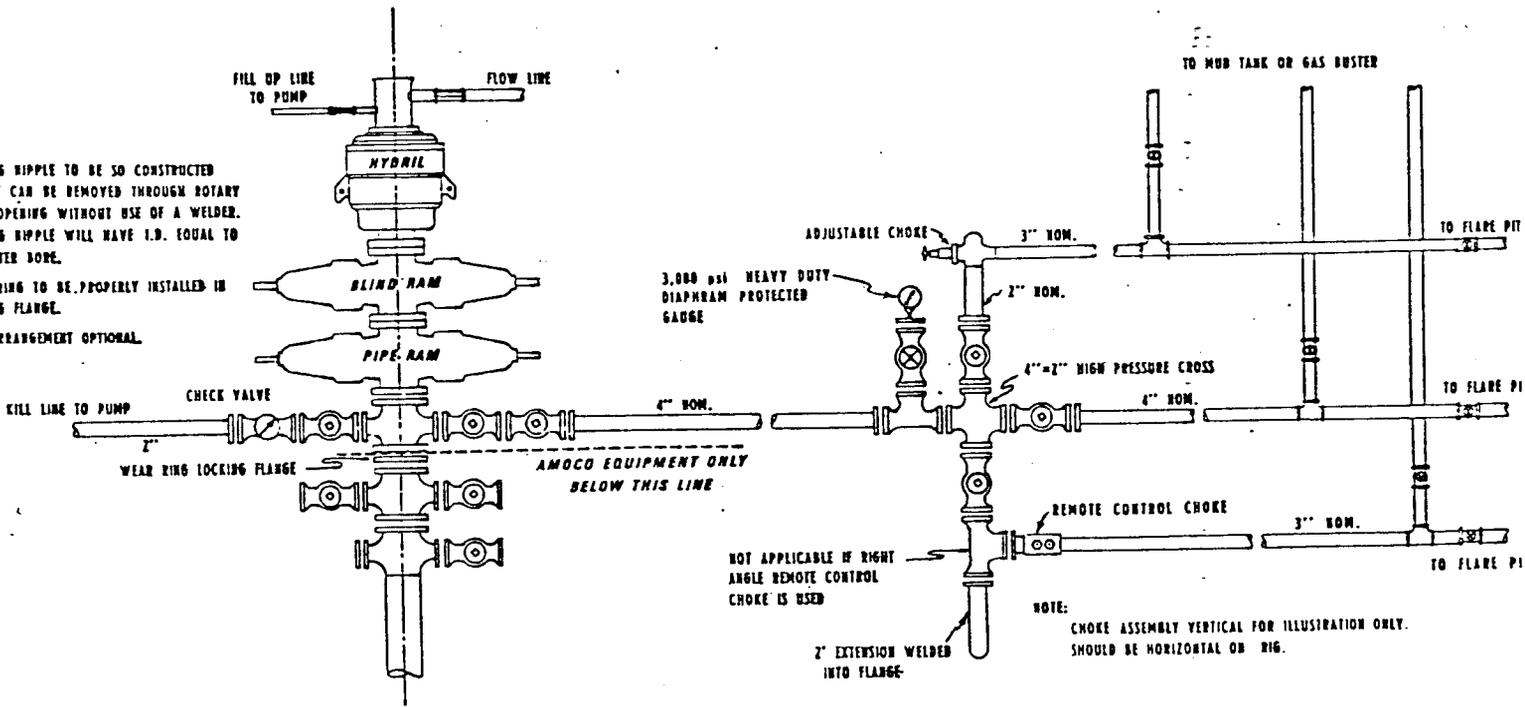
SCALE: NONE  
DR. W. J. F. AP. *WJF*  
DRG. No. A-8080

**Amoco Production Company**  
**MINIMUM BLOW-OUT PREVENTER REQUIREMENTS**  
**3,000 psi W.P.**  
**2/78**

**ARRANGEMENT IF MANIFOLD IS ON SIDE OF RIG**

NOTE:

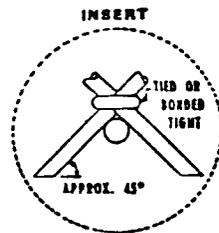
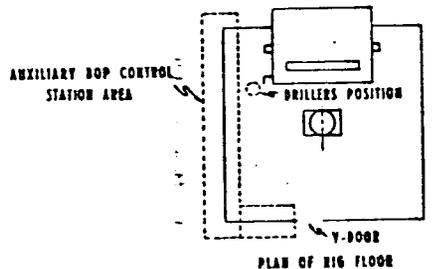
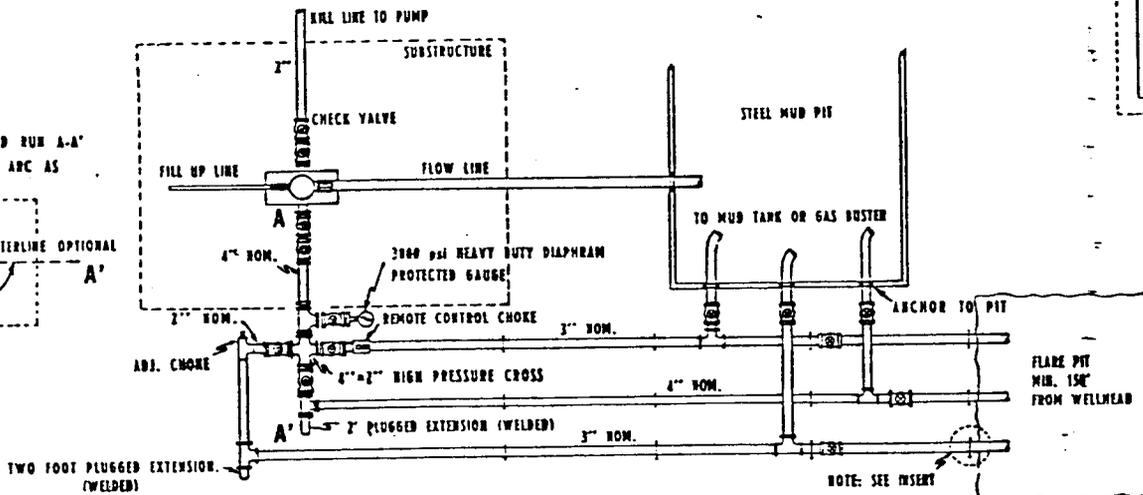
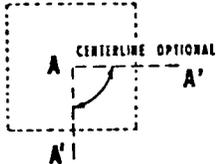
- 1 DRILLING HIPPLE TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED THROUGH ROTARY TABLE OPERING WITHOUT USE OF A WELDER. DRILLING HIPPLE WILL HAVE I.D. EQUAL TO PREVENTER BORE.
- 2 WEAR RING TO BE PROPERLY INSTALLED IN LOCKING FLANGE.
- 3 RAM ARRANGEMENT OPTIONAL.



**ARRANGEMENT IF MANIFOLD IS UNDER PIPE SLIDE**

NOTE:

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



NOTE:

- 1 BLOW-OUT PREVENTERS, ALL FITTINGS AND PIPE MUST BE 3,000 psi W.P. MINIMUM.
- 2 ALL FITTINGS UPSTREAM OF MANIFOLD TO BE FLANGED, SCREWED OR WELDED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE. ADJUSTABLE CHOKE MAY HAVE SCREWED CONNECTIONS.
- 3 ALL VALVES TO BE FULL OPERING, PLUG OR GATE METAL TO METAL SEAL, AND 3,000 psi W.P. MINIMUM.
- 4 SAFETY VALVE MUST BE AVAILABLE ON RIG FLOOR AT ALL TIMES WITH PROPER CONNECTION, VALVE TO BE FULL BORE 3,000 psi W.P. MINIMUM.
- 5 ALL LINES DOWNSTREAM OF CHOKE TO BE SECURELY ANCHORED EVERY 30' AND BEAR END OF CHOKE LINES.
- 6 EQUIPMENT THROUGH WHICH BIT MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH.
- 7 KELLY COCK OR KELLY.
- 8 EXTENSION WRENCHES AND HAND WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES.
- 9 AUXILIARY BLOW-OUT PREVENTER CONTROL STATION TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE.
- 10 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE 20 GALLON ACCUMULATOR, AND TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT. INSTALLATION TO BE LOCATED AT LEAST 75' FROM STACK ON DRILLERS' SIDE OF RIG.
- 11 ALL UNMARKED PIPE MINIMUM 3" O.D. NOM. GRADE J-55 TUBING OR MIN. 3,000 psi W.P. LINE PIPE.
- 12 REMOTE CONTROL CHOKE INSTALLATION AND LINE TO BE STRAIGHT AS POSSIBLE WITH NO 90° TURNS BELOW CHOKE.



**Amoco Production Company**

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

W. M. Jones  
District Superintendent

April 30, 1979



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

File: WMJ-651-986-WF

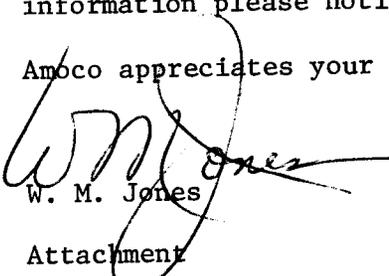
Application For Permit To Drill The Champlin 846 Amoco "A" Well #1

Please find attached the Application For Permit To Drill Amoco Production Company's Champlin 846 Amoco "A" Well #1, located NE/4 NW/4 Section 25, T5N, R7E, Summit County, Utah.

Amoco plans to use the Noble Drilling Company Rig #116 on the above referenced well after subject rig completes operations at the Fawcett and Sons Well #1, located in Summit County. Drilling operations at the Fawcett and Sons Well #1 are nearing the proposed total depth and we anticipate that Noble rig #116 will be ready to move onto the Champlin 846 Amoco "A" Well #1 within the next 7 days.

In view of the circumstances presented above and our continued desire to retain the services of the Noble rig #116 we request that the attached Application be reviewed for approval at the earliest possible date. In addition to the above we request that either D. S. Davidson or D. L. Lassen be notified at telephone # 272-9253 when your office has reviewed subject application and determination on whether immediate approval of this application can be granted. Should you encounter any problems in the processing of our application or require additional information please notify either of the above named parties.

Amoco appreciates your expeditious handling of this matter.

  
W. M. Jones

Attachment

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: May 1, 1979

Operator: amoco Production Company

Well No: Champion 846 amoco "A" 1

Location: Sec. 25 T. 5N R. 7E County: Summit

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number: 43-043-30100

CHECKED BY:

Administrative Assistant: \_\_\_\_\_

Remarks:

Petroleum Engineer: M. J. Minder 5-25-79

Remarks:

Director: OK C3(c) Topographic exception ✓

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. \_\_\_\_\_

Surface Casing Change   
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site  **7**

O.K. Rule C-3

O.K. In \_\_\_\_\_ Unit

Other:

Letter Written/Approved



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

May 22, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

AMOCO PRODUCTION COMPANY  
P O BOX 17675  
SLC UT 84117

Re: Well No. Champlin 846 Amoco "A" 1, Sec. 25, T. 5N, R. 7E, Summit County, UT

Gentlemen:

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

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

MICHAEL T. MINDER - Geological 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 43-043-30100.

Yours very truly,

DIVISION OF OIL, GAS, AND MINING

  
Cleon B. Feight, Director

/lw



W. M. Jones  
District Superintendent



**Amoco Production Company**

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

May 14, 1979

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

Attention: Michael Minder

File: WMJ-720-031.190-WF

Champlin 846 Amoco A Well #1, NE/4 NW/4 Sec. 25, 2342' FWL 714.7' FNL,  
T5N-R7E, Summit County, Utah

Please accept this letter as confirmation of the May 8, 1979, telephone conversation between yourself and W. R. Halvorson. As stated by Mr. Halvorson in the above referenced telecon, the unorthodox location of subject well is due to such factors as natural terrain and the surface owner. These considerations are explained as follows:

1. Amoco's proposed location will require considerably less side-hill cut than a location in the C-NE/4 NW/4 Section 25, and will provide for better usage of existing terrain. Amoco feels that by adjusting the position of the drill site, the reserve pit can be located on the uphill side of the proposed location. This location configuration would allow for the reserve pit to be placed in a natural bowl on the north side of the location. We would then be able to construct a reserve pit that would be constructed in a stable soil area, whereas if the rig was orientated differently or located in an alternate location, it probably would be necessary to construct a pit on the downhill side of the location. Such a location move would therefore require that a considerable amount of the reserve pit's wall area be constructed of fill material. The present location as proposed eliminates the need for a fill-type reserve pit, and hopefully also reduces the potential for breaks in the reserve pit to develop.
2. By constructing the location as described in No. 1 above, the drilling rig's V-door would face to the east and necessary flare lines would be laid to the east also. This layout would allow Amoco to take advantage of the prevailing southwesterly winds to diffuse any potential hydrogen sulfide related problems. This consideration may help to insure the immediate safety of those people working in the near proximity of the location. Should it be necessary to locate subject well closer to the center of the NE/4 NW/4 Section 25, terrain consid-

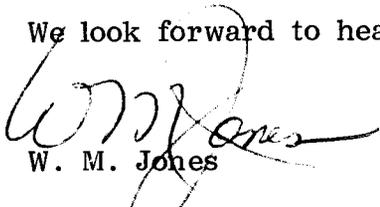
erations would require either excessive cut, (as indicated in 1, above) or would require that the reserve pit be constructed of fill dikes, and be placed downhill, and upwind from the rig. This would constitute a safety hazard in the event hydrogen sulfide is encountered.

3. The surface owner has adamantly opposed the location of both our well site and access road in his meadow. By locating subject well closer to the center of the NE/4 NW/4 we would be increasing the possibility of encroaching upon the meadow area. We feel that if such a move is required, considerable surface owner problems may occur. The drill site location and access, as presently proposed, are agreeable to Mr. Fawcett, the surface owner.

In summary, Amoco personnel believe that the proposed location of subject well provides for a better use of the existing terrain, more adequately allows for the safety of the personnel working on subject well, and requires less construction time and costs than any other location in the immediate area that would also be acceptable to the surface owner. As previously stated, in the Application for Permit to Drill, submitted on the Champlin 846 Amoco A Well No. 1, Amoco controls all oil and/or gas leases in Section 25, and we, therefore, do not feel that our proposed location will adversely affect any other operator. For your information, we have also attached a copy of the applicable portion of the Wasatch Quadrangle 7½ minute series topographic map which indicates terrain in the immediate area of the proposed well site.

Based on the above, we solicit your approval of our Application for Permit to Drill dated April 30, 1979, as submitted. Should you have questions or require additional information, please contact us.

We look forward to hearing from you on this matter in the near future.



W. M. Jones

Attachments



SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771  
November 14, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
Chairman

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

Amoco Production Co.  
P.O. Box 17675  
Salt lake city, Utah  
84117

RE: Well no. Champlin 846-AMCO A1  
Sec. 25, T. 5N, R. 7E,  
Summit county, Utah

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill this well (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 this well, and action will be taken to terminate the application. If you plan on drilling this well at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

*Debbie Beauregard*

DEBBIE BEAUREGARD  
CLERK-TYPIST

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

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.)

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Champlin 846 Amoco "A"

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25, T5N, R7E SLBM

12. COUNTY OR PARISH

Summit

13. STATE

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 NW/4 Sec. 25 714.7' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6760' Ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(Other)

(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.)\*

Amoco Production Company proposes to drill subject well to a revised total depth of 16,000' rather than the 12,750' as originally submitted. Amoco anticipates developing both the Phosphoria and Madison gas reserves.

Casing, Cementing and Mud Programs will be adjusted for the increased depth. Necessary precautions to be taken for H<sub>2</sub>S control in the Dinwoody, Phosphoria, and Weber Formations. (See Attachment "A", Hydrogen Sulfide Gas Contingency Plan)

Subject well to be spudded on or about November 16, 1979.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Nov 20, 1979

BY: Frank M. Hansen



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

SIGNED

[Signature]

TITLE

Dist. Admin. Supervisor

DATE 11/14/79

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



**Amoco Production Company**

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

W. M. Jones  
District Superintendent

November 27, 1979

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

File: WMJ-1778/WF

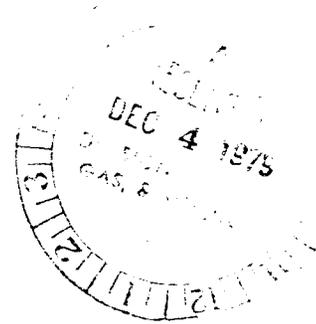
Monthly Report of Amoco Utah Wells

Reference your letter of November 14, 1979, the current status of Amoco operated wells is as follows:

1. Champlin 470 Amoco "A" #1, Sec. 25, T3N, R8E, Summit County  
- location abandoned, well not to be drilled.
2. Champlin 846 Amoco "A" #1, Sec. 25, T5N, R7E, Summit County  
- Spudded 11/16/79, Brinkerhoff/Signal Rig #73, drilling at a depth of 648' on 11/21.
3. Bertagnole Investment #1, Sec. 36, T3N, R3E, Summit County  
- location abandoned, well not to be drilled.
4. Island Ranching "B" #1, Sec. 22, T4N, R7E, Summit County  
- Spudded 11/10/79, True Rig #15, drilling at a depth of 1505', setting surface casing as of 11/12.
5. Cottonwood Canyon #1, Sec. 7, T9S, R6E, Utah County  
- Drilling contractor will be Rio Grande Rig #2, moving in on location.

All of the following wells are suspended awaiting authorization to drive anchor pilings. Amoco does intend to drill said wells as per original APD's, however, operations on the Great Salt Lake allow the drilling of only one well at a time.

1. State of Utah "A" #1, Sec. 20, T3N, R4W, Davis County  
July 1979 thru' November, 1979





SCOTT M. MATHESON  
Governor

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

February 28, 1980

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

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

Re: See enclosed sheet for wells

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

JANICE TABISH  
CLERK TYPIST

- (1) Well No. Cottonwood Can. Unit well no. 1  
Sec. 7, T. 9S, R. 6E.  
Utah County, Utah  
December 1979-February 1980
- (2) Well No. Island Ranching B-#1  
Sec. 22, T. 4N, R. 7E  
Summit County, Utah  
December 1979-February 1980
- (3) Well No. Champlin 846-Amoco A1  
Sec. 25, T. 5N, R. 7E.  
Summit County, Utah  
December 1979-February 1980
- (4) Well No. Champlin 239 Amoco B1  
Sec. 1, T. 2N, R. 7E.  
Summit County, Utah  
December 1979-February 1980
- (5) Well No. Champlin 225 B #1  
Sec. 29, T. 3N, R. 6E.  
Summit County, Utah  
January-February 1980
- (6) Well No. Champlin 372 Amoco B 1  
Sec. 35, T. 4N, R. 7E.  
Summit County, Utah.  
January-February 1980

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

5. LEASE DESIGNATION AND SERIAL NO.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Champlin 846 Amoco "A"

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 25, T5N, R7E S1E4

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

**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.)

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 NW/4 Sec. 25 714.7' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6760' GR

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <u>STATUS REPORT</u>	<u>XX</u>	(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.)\*

SPUDDED: 11/16/79

CASING SET: 20" conductor pipe set at 1432'  
13 3/8" set at 5760' w/2300 sx

CURRENT STATUS: Drilling at 9100'

Formation Tops Encountered:

Preuss: 4600'  
Salt: 4964'  
Twin Creek: 5648'  
Boundary Ridge: 6732'  
Nugget: 7296'  
Ankarah: 8388'

**RECEIVED**

MAR 13 1980

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

SIGNED D. Davidson

TITLE Dist. Admin. Supervisor

DIVISION OF  
OIL, GAS & MINING  
DATE 3/6/80

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

September 18, 1980

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

RE: Well No. Champlin 846 Amoco "A" 1  
Sec. 25, T. 5N, R. 7E.,  
Summit County, Utah  
(April, May, June, July & Aug. 1980)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

BARBARA HILL  
CLERK-TYPIST

bjh/  
Enclosures: Forms

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

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.)

5. LEASE DESIGNATION AND SERIAL NO. Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Champlin 846 Amoco "A"

9. WELL NO. #1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec. 25, T5N-R7E SLBM

12. COUNTY OR PARISH Summit

13. STATE Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR Amoco Productin 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.\* See also space 17 below.)  
At surface NE/4 NW/4 Section 25 714.7' FNL & 2342' FWL

14. PERMIT NO. 43-043-30100

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6760'

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>
(Other) <input type="checkbox"/>	<u>Status Report</u> <input checked="" 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.)\*

TD: 16500'      PBTD: 16490'

Casing Record: 20" SA 1432'	Formation Tops: Pruess	3824'
13 5/8" SA 5760'	Salt	4968'
9 5/8" SA 11788'	Twin Creek	5634'
7" SA 16500'	Nugget	7304'
Present Operations: Remedial Cementing of Primary Cement Job.	Ankareh	8408'
Future Operations: Perforating, acidizing, & testing of :	Thaynes	9430'
Lower Madison	Woodside	10877'
Upper & Lower Amsden	Dinwoody	11543'
" " Weber	Phosphoria	11792'
" " Phosphoria	Weber	12270'
	Amsden	13190'
	Madison	13511'
	Lodgepole	14314'
	Phosphoria	14865'
	Weber	15053'
	Amsden	15913'
	Madison	15968'

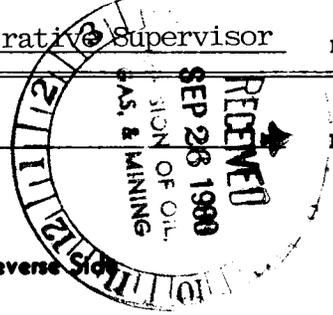
18. I hereby certify that the foregoing is true and correct

SIGNED E. R. Nicholas TITLE Administrative Supervisor DATE 9-22-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



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

**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.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Amoco Production Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 17675 Salt Lake City, UT 84117</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4 NW/4 Sec. 25, 714.7' FNL &amp; 2342' FWL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Champlin 846 Amoco "A"</p> <p>9. WELL NO. #1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T5N-R7E</p> <p>12. COUNTY OR PARISH Summit</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. 43-043-30100</p>	<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6662 GL</p>	

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) _____	Perforate <input checked="" 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.)\*

Amoco Production Company proposes to perforate and test Phosphoria zone, 11,794'-11,808'.

TD: 16,500'  
PBTD: 16,490'

CASING: 20" S.A. 1432'  
13-3/8" S.A. 5760'  
9-5/8" S.A. 11,788'  
7" S.A. 16,500'

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
DATE: 10/17/80  
BY: M. J. Minder

TUBING: 3-1/2" 12.70# L-80 Vam

Perforate interval 11,794'-11,808' W/2 JSPF

18. I hereby certify that the foregoing is true and correct  
SIGNED E. R. Nichols TITLE Administrative Supervisor DATE 10-2-80

(This space for Federal or State office use)

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

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

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.)

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 NW/4 Sec. 25 714.7' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6662' GL

5. LEASE DESIGNATION AND SERIAL NO.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Champlin 846 Amoco "A"

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 25, T5N-R7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	Perforate & Squeeze <input checked="" 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.)\*

Amoco Production Company proposes to perforate the Madison and Weber formations and to squeeze the Phosphoria perforation.

TD: 16,500'  
PBID: 16,490'

Casing: 20" S.A. 1432'      Tubing: 3 1/2" 12.7# L-80 Vam  
 13-3/8" S.A. 5760'  
 9-5/8" S.A. 11,788'  
 7" S.A. 16,500'

Squeeze Phosphoria interval 11,794'-11,808' W/100 sx cl "G" cnt.

Perforate the following intervals W/2 JSPF, .25"

Imbricate Madison	16,150'-16,170'	12,508'-12,530'
	16,085'-16,120'	12,480'-12,500'
	15,974'-15,995'	12,425'-12,450'
Imbricate Weber	15,100'-15,130'	12,280'-12,300'
Three Forks	14,990'-15,010'	
Weber	12,725'-12,740'	
	12,600'-12,630'	

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING  
 DATE: 11-7-80  
 BY: [Signature]

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

SIGNED Original Signed By E. R. NICHOLSON TITLE Administrative Supervisor DATE 10-13-80

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



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

SUBM. TRIPPLICATE\*  
(Other Instructions on reverse side)

**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.)

1.  OIL WELL  GAS WELL  OTHER

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.\* See also space 17 below.)  
At surface

14. PERMIT NO. 43-043-30100

15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6662' GL

**APPROVED BY THE DIVISION OF OIL, GAS, AND MINING**  
DATE: 12/11/80  
BY: [Signature]

5. LEASE DESIGNATION AND SERIAL NO. Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Champlin 846 Amoco "A"

9. WELL NO. #1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25 T5N-R7E

12. COUNTY OR PARISH Summit

13. STATE Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>	WATER SHUT-OFF	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	FRACTURE TREATMENT	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	(Other)	<input type="checkbox"/>
(Other)	<input type="checkbox"/>		
PULL OR ALTER CASING	<input type="checkbox"/>	REPAIRING WELL	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	ALTERING CASING	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	ABANDONMENT*	<input type="checkbox"/>
CHANGE PLANS	<input type="checkbox"/>		
Perforate	<input checked="" 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.)\*

Amoco Production Company proposes to perforate and test Lower Weber, and isolate Imbricate Weber and Three Forks.

TD: 16,500' PBDT: 15,804'

Casing: 20" SA 1432' Tubing: 3 1/2" 12.7# Packer SA 14,836'  
 13-3/8" SA 5760'  
 9-5/8" SA 11,788'  
 7" SA 16,500'

Set CIBP @ 14,830' and cap w/2 sx cmt to isolate Imbricate Weber and Three Forks.

Perforate intervals 12,604' - 12,644', 12,654' - 12,680' and 12,725' - 12,742' w/2 JSPF

Acid (if necessary) w/8300 gals of 15% HCl w/600 SCF N<sub>2</sub>/Bbl

Additives: 5 Gals/1000 Gals demulsifier 10#/1000 Gals iron sequestering agent  
 100 Gals/1000 Gals EGMBE inhibitor for 48 hrs. at BHT of 210° F

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Administrative Supervisor DATE 11/19/80

(This space for Federal or State office use)

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

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4 280

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK FIELD SUMMIT UTAH 11/3/80 1517  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	35093.73	1526.58
POTASSIUM-K	2230	57.09
CALCIUM-CA	6464	322.55
MAGNESIUM-MG	1837.5	151.04
BARIUM-BA	0	0
TOTAL CATIONS	45625.23	2057.26

PH 6.6  
 RESISTIVITY(OHM-METERS), 77 F .091

ANIONS

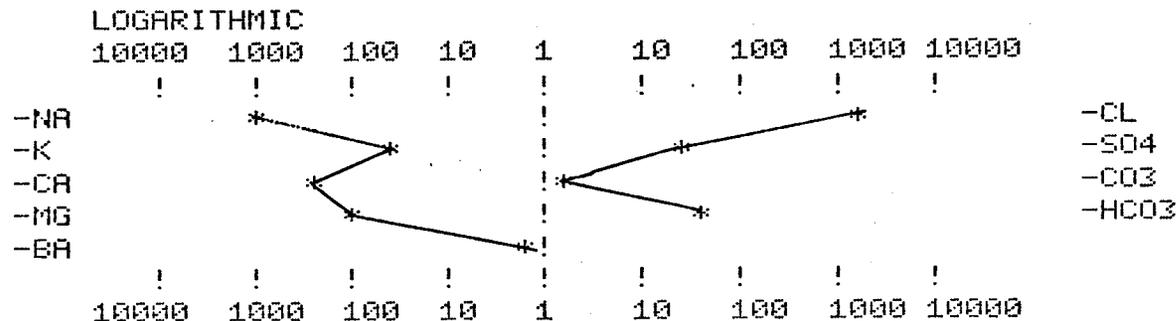
CHLORIDE-CL	70000	1974
SULFATE-SO4	1425	29.64
CARBONATE-CO3	0	0
BICARBONATE-HCO3	3269.6	53.62
TOTAL ANIONS	74694.6	2057.26



TOTAL DISSOLVED SOLIDS(CALC.)  
 120319.83

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawks*

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX 552 \* 24 HOUR PHONE 307/26 1616

CASPER, WYOMING 82602

SAMPLE NO. 4296

4

DATE RUN: 11/17/80

AIR MONITORING  
COMPLETE GAS SERVICE  
CONSULTING CHEMISTS  
POLLUTION CONTROL  
WATER ANALYSIS

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO. CAVE CREEK FIELD  
SAMPLE FROM: CHAMPLIN 846-A1 WELL HEAD MANIFOLD 11/12/80 1549  
AT: ..... SECURED BY: .....  
SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	30060.4	1307.63
POTASSIUM-K	1810	46.34
CALCIUM-CA	8686	433.43
MAGNESIUM-MG	1715	140.97
BARIIUM-BA	0	0
TOTAL CATIONS	42271.4	1928.37

PH 6.5  
RESISTIVITY(OHM-METERS), 77 F .1

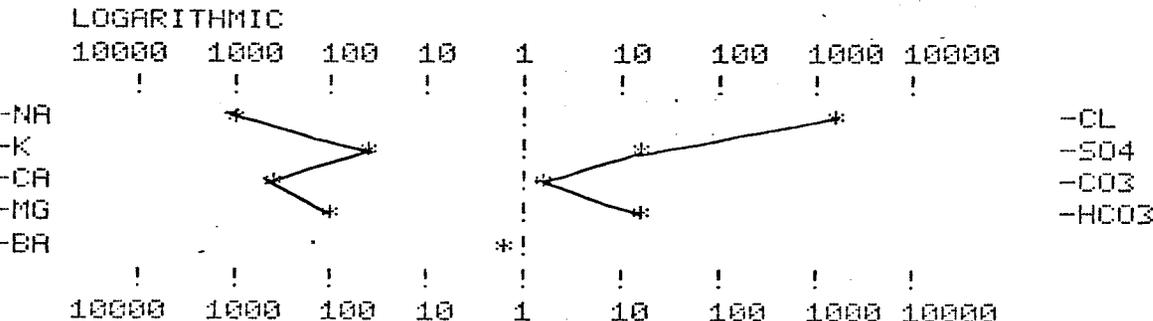
ANIONS

CHLORIDE-CL	67000	1889.4
SULFATE-SO4	950	19.76
CARBONATE-CO3	0	0
BICARBONATE-HCO3	1171.2	19.21
TOTAL ANIONS	69121.2	1928.37

TOTAL DISSOLVED SOLIDS(CALC.)  
111392.6

IRON-FE (TOTAL) 0  
SULFIDE AS H2S 0

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Total Sulfide 460 mg/l

COPIES TO:

ANALYSIS BY: Gene Haub

GL MD WF

AIR MONITORING  
COMPLETE GAS SERVICE  
CONSULTING CHEMISTS  
POLLUTION CONTROL  
WATER ANALYSIS

DATE RUN: 11/17/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO. CAVE CREEK FIELD  
SAMPLE FROM: CHAMPLIN 846-A1 WELL HEAD MANIFOLD 11/12/80 1653  
AT: ..... SECURED BY: .....  
SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	28901.54	1257.22
POTASSIUM-K	1820	46.59
CALCIUM-CA	9090	453.59
MAGNESIUM-MG	2205	181.25
BARIIUM-BA	0	0
TOTAL CATIONS	42016.54	1938.65

PH 6.7  
RESISTIVITY(OHM-METERS), 77 F .1

ANIONS

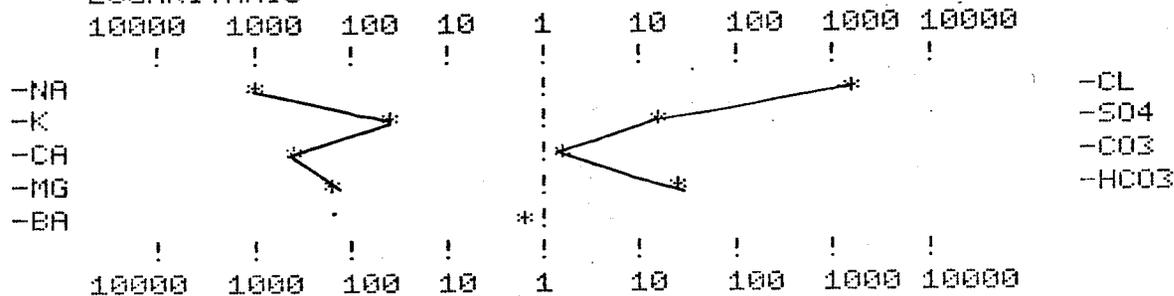
CHLORIDE-CL	67000	1889.4
SULFATE-SO4	1050	21.84
CARBONATE-CO3	0	0
BICARBONATE-HCO3	1671.4	27.41
TOTAL ANIONS	69721.4	1938.65

IRON+FE (TOTAL) 0  
SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
111737.94

WATER PATTERNS--ME/L

LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

Total Sulfide 620. mg/l

COPIES TO:

ANALYSIS BY:

*Gene Hauck*









A DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4279

DATE RUN: 11/11/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 11/3/80 1300  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	24955.34	1085.56
POTASSIUM-K	2830	51.97
CALCIUM-CA	13332	665.27
MAGNESIUM-MG	4655	382.64
BARIUM-BA	0	0
TOTAL CATIONS	44972.34	2185.43

PH 6.1  
 RESISTIVITY(OHM-METERS), 77 F .093

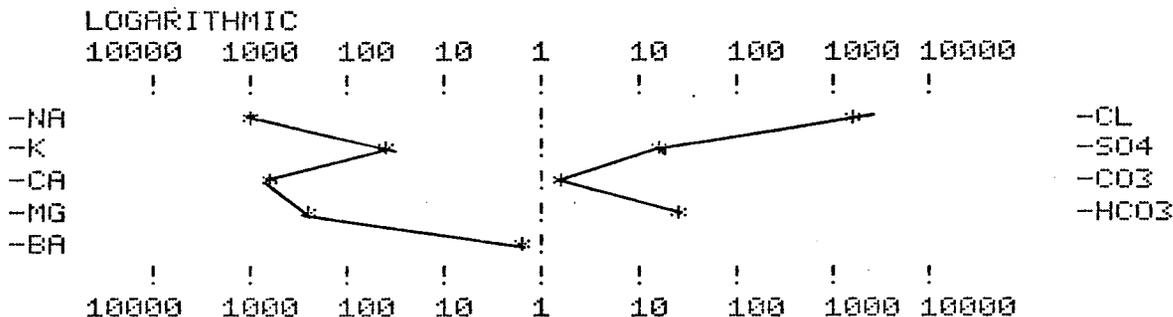
ANIONS

CHLORIDE-CL	75500	2129.1
SULFATE-SO4	1150	23.92
CARBONATE-CO3	0	0
BICARBONATE-HCO3	1976.4	32.41
TOTAL ANIONS	78626.4	2185.43

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 123598.74

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Total Sulfide - 536 mg/l

COPIES TO:

ANALYSIS BY: *Gene Hawk*

F DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4278

DATE RUN: 11/11/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 11/3/80 1129  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	21530.26	936.57
POTASSIUM-K	2000	51.2
CALCIUM-CA	16564	826.54
MAGNESIUM-MG	5145	422.92
BARIUM-BA	0	0
TOTAL CATIONS	45239.26	2237.23

OTHER PROPERTIES

PH 5.9  
 RESISTIVITY(OHM-METERS), 77 F. **093**

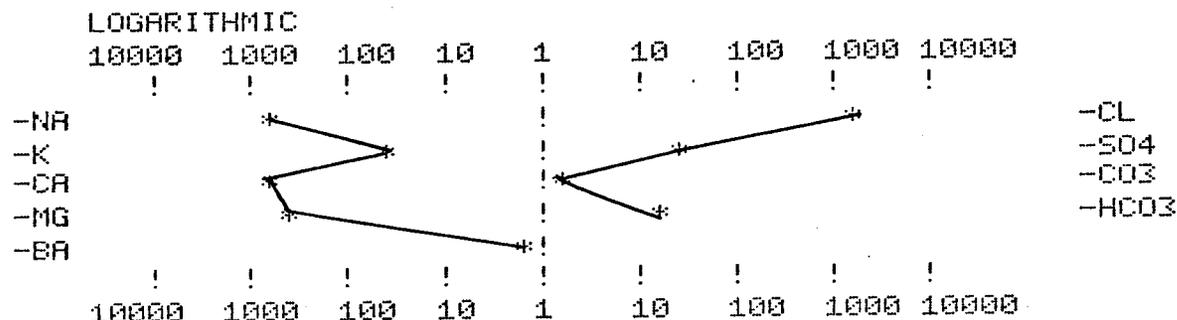
ANIONS

CHLORIDE-CL	77500	2185.5
SULFATE-SO4	1400	29.12
CARBONATE-CO3	0	0
BICARBONATE-HCO3	1378.6	22.61
TOTAL ANIONS	80278.6	2237.23

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 125517.86

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:  
 Total Sulfide - 540 mg/l

COPIES TO:

ANALYSIS BY: *Gene Hauck*

A DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/265-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4276

DATE RUN: 11/11/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 11/3/80 0837  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	18248.97	793.83
POTASSIUM-K	1910	48.9
CALCIUM-CA	16160	806.38
MAGNESIUM-MG	5880	483.34
BARIIUM-BA	0	0
TOTAL CATIONS	42198.97	2132.45

PH 5.9  
 RESISTIVITY(OHM-METERS), 77 F .09

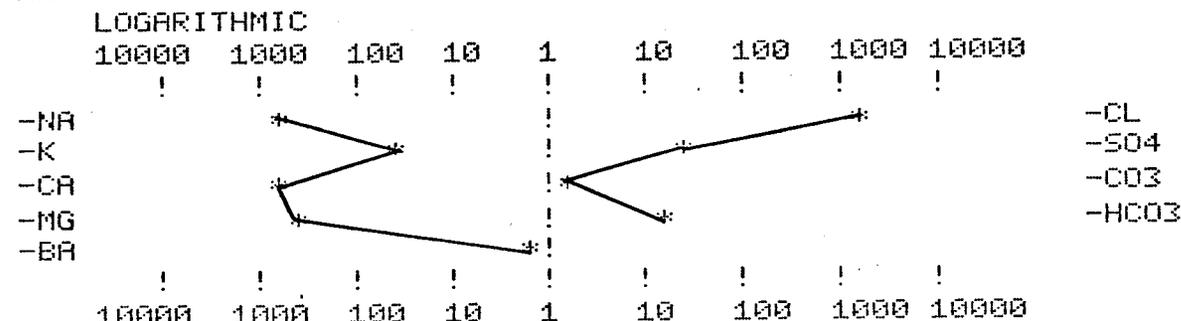
ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	1425	29.64
CARBONATE-CO3	0	0
BICARBONATE-HCO3	976	16.01
TOTAL ANIONS	76401	2132.45

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 118599.97

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Havil*

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616

CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4271

DATE RUN: 11/11/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 11/2/80 1400  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	16324.47	710.11
POTASSIUM-K	1870	47.87
CALCIUM-CA	19392	967.66
MAGNESIUM-MG	6370	523.61
BARIIUM-BA	0	0
TOTAL CATIONS	43956.47	2249.26

PH 4.4  
 RESISTIVITY(OHM-METERS), 77 F .088

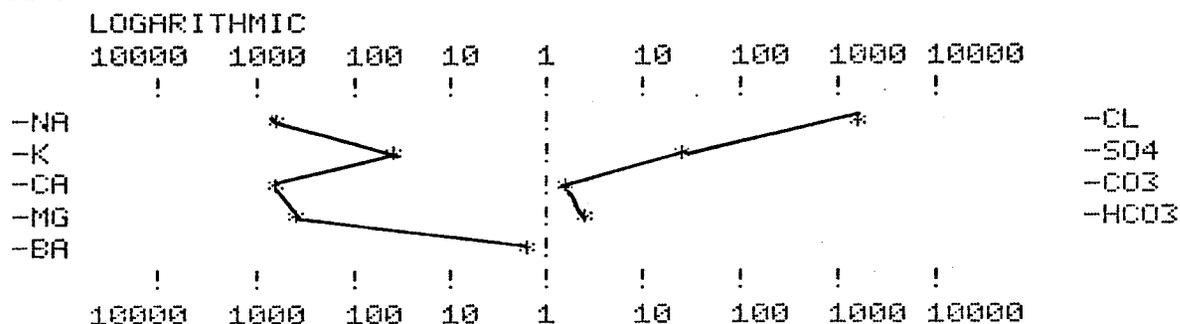
ANIONS

CHLORIDE-CL	78500	2213.7
SULFATE-SO4	1575	32.76
CARBONATE-CO3	0	0
BICARBONATE-HCO3	170.8	2.8
TOTAL ANIONS	80245.8	2249.26

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 124202.27

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauck*

F DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4270

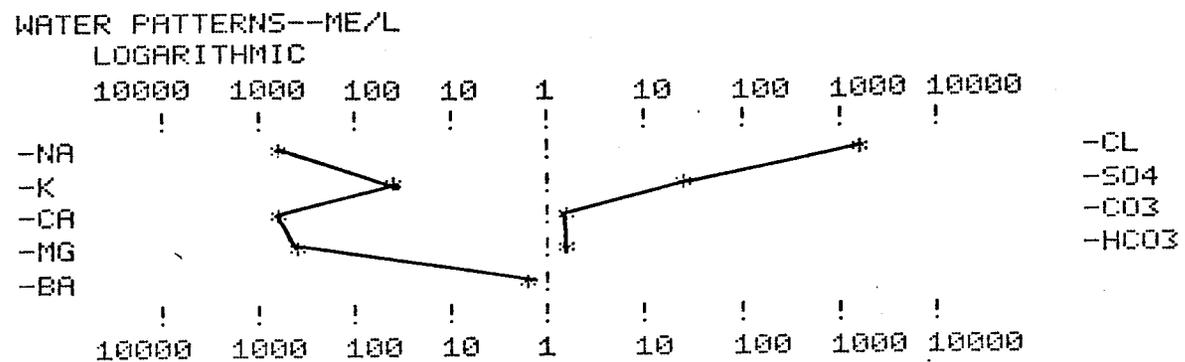
DATE RUN: 11/11/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 11/2/80 1330  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS \			OTHER PROPERTIES	
CATIONS	MG/L	ME/L	PH	1.2
SODIUM-NA	18377.94	799.44	RESISTIVITY(OHM-METERS),	77 F .085
POTASSIUM-K	1910	48.9		
CALCIUM-CA	17170	856.78		
MAGNESIUM-MG	7227.5	594.1		
BARIUM-BA	0	0		
TOTAL CATIONS	44685.44	2299.22		

ANIONS				
CHLORIDE-CL	80500	2270.1	IRON-FE (TOTAL)	0
SULFATE-SO4	1400	29.12	SULFIDE AS H2S	0
CARBONATE-CO3	0	0		
BICARBONATE-HCO3	0	0		
TOTAL ANIONS	81900	2299.22		
TOTAL DISSOLVED SOLIDS(CALC.)				
	126585.44			



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawk*

P DIVISION OF WPC, INC.  
**PETROLEUM AND ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4262

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/31/80 0835  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	48911.41	2127.65
POTASSIUM-K	153	3.92
CALCIUM-CA	202	10.08
MAGNESIUM-MG	19.6	1.61
BARIIUM-BA	0	0
TOTAL CATIONS	49286.01	2143.25

PH 7.4  
 RESISTIVITY(OHM-METERS), 77 F .078

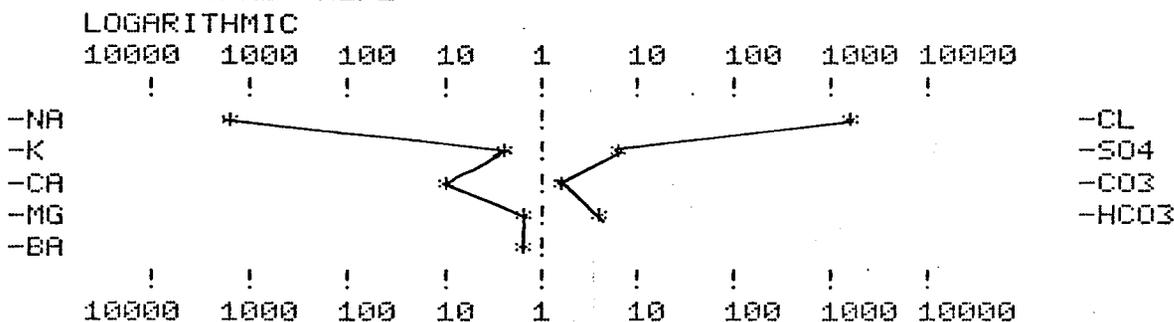
ANIONS

CHLORIDE-CL	75500	2129.1
SULFATE-SO4	440	9.15
CARBONATE-CO3	0	0
BICARBONATE-HCO3	305	5
TOTAL ANIONS	76245	2143.25

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 125531.01

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauck*

MD GL VF

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. **4261**  
  
 DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 10/31/80 0744HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

**DISSOLVED SOLIDS**

CATIONS	MG/L	ME/L
SODIUM-NA	47569.56	2069.28
POTASSIUM-K	135	3.46
CALCIUM-CA	169.68	8.47
MAGNESIUM-MG	24.5	2.01
BARIUM-BA	0	0
TOTAL CATIONS	47898.74	2083.21

**OTHER PROPERTIES**

PH 6.6  
 RESISTIVITY(OHM-METERS), 77 F .081

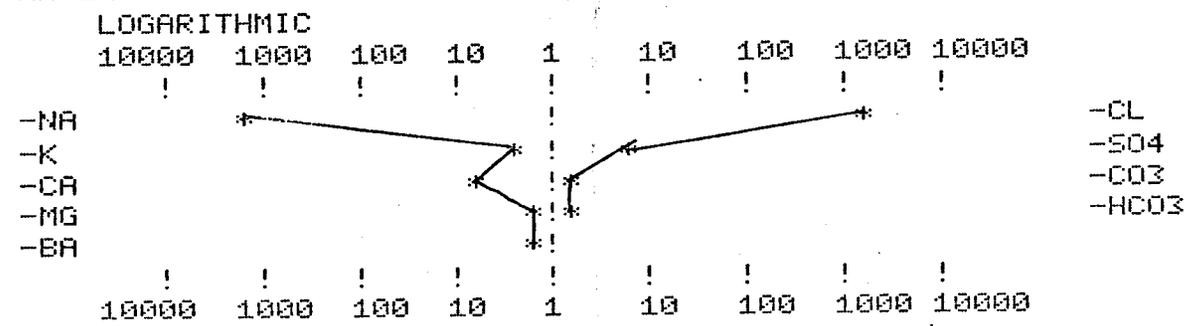
**ANIONS**

CHLORIDE-CL	73500	2072.7
SULFATE-SO4	390	8.11
CARBONATE-CO3	0	0
BICARBONATE-HCO3	146.4	2.4
TOTAL ANIONS	74036.4	2083.21

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121935.14

**WATER PATTERNS--ME/L**



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauck*

PETROLEUM ANALYTICAL LABORATORY DRY SERVICE

P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616

CASPER, WYOMING 82602

AIR MONITORING
COMPLETE GAS SERVICE
CONSULTING CHEMISTS
POLLUTION CONTROL
WATER ANALYSIS

SAMPLE NO. ... 4260

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY
SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 10/30/80 1632
AT: SECURED BY:
SAMPLING CONDITIONS: PRESS: TEMP: TIME: DATE:

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

Table with 3 columns: CATIONS, MG/L, ME/L. Rows include Sodium-NA, Potassium-K, Calcium-CA, Magnesium-MG, Barium-BA, and Total Cations.

PH 7.6
RESISTIVITY(OHM-METERS), 77 F .084

ANIONS

Table with 3 columns: ANIONS, MG/L, ME/L. Rows include Chloride-CL, Sulfate-SO4, Carbonate-CO3, Bicarbonate-HCO3, and Total Anions.

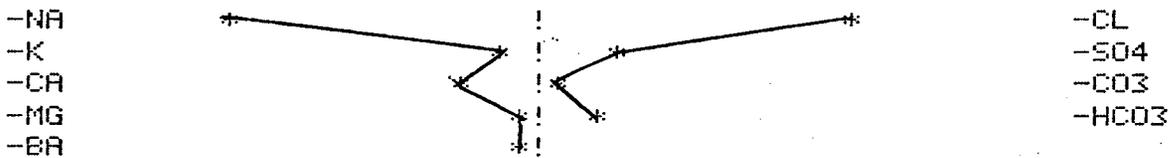
IRON-FE (TOTAL) 0
SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)
120479.96

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: Gene Hauch

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4255

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 1043  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	46595.76	2026.92
POTASSIUM-K	129	3.3
CALCIUM-CA	185.84	9.27
MAGNESIUM-MG	39.2	3.22
BARIUM-BA	0	0
TOTAL CATIONS	46949.8	2042.71

PH 7.4  
 RESISTIVITY(OHM-METERS), 77 F .079

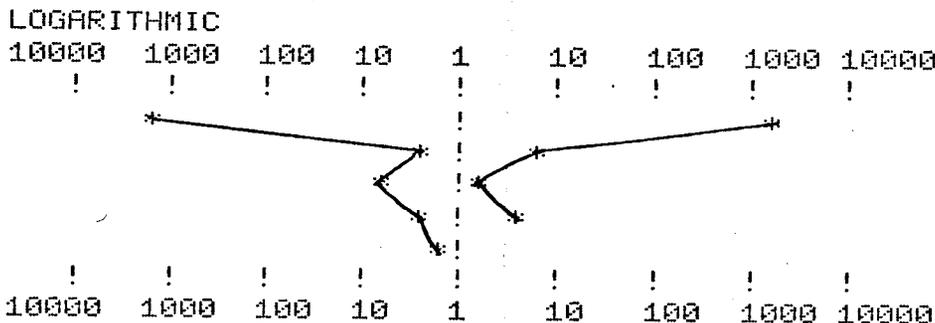
ANIONS

CHLORIDE-CL	72000	2030.4
SULFATE-SO4	390	8.11
CARBONATE-CO3	0	0
BICARBONATE-HCO3	256.2	4.2
TOTAL ANIONS	72646.2	2042.71

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 119596

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawk*

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4259

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 1526  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	47912.72	2084.2
POTASSIUM-K	133	3.4
CALCIUM-CA	177.76	8.87
MAGNESIUM-MG	19.6	1.61
BARIUM-BA	0	0
TOTAL CATIONS	48243.08	2098.09

OTHER PROPERTIES

PH 7.7  
 RESISTIVITY(OHM-METERS), 77 F .085

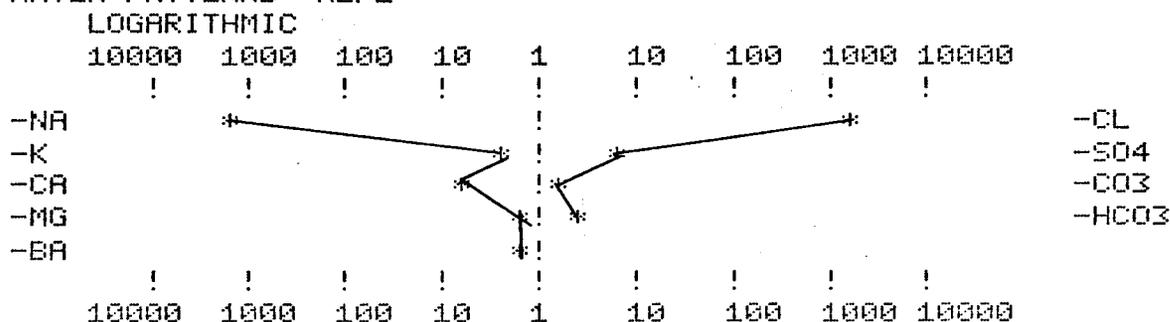
ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	360	7.49
CARBONATE-CO3	0	0
BICARBONATE-HCO3	231.8	3.8
TOTAL ANIONS	74591.8	2098.09

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 122834.88

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauck*

MD GL VF

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. 4258

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 1348  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47982.68	2087.25
POTASSIUM-K	134	3.43
CALCIUM-CA	145.44	7.26
MAGNESIUM-MG	19.6	1.61
BARIIUM-BA	0	0
TOTAL CATIONS	48281.72	2099.55

PH 7.8  
 RESISTIVITY(OHM-METERS), 77 F .08

ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	430	8.94
CARBONATE-CO3	0	0
BICARBONATE-HCO3	231.8	3.8
TOTAL ANIONS	74661.8	2099.55

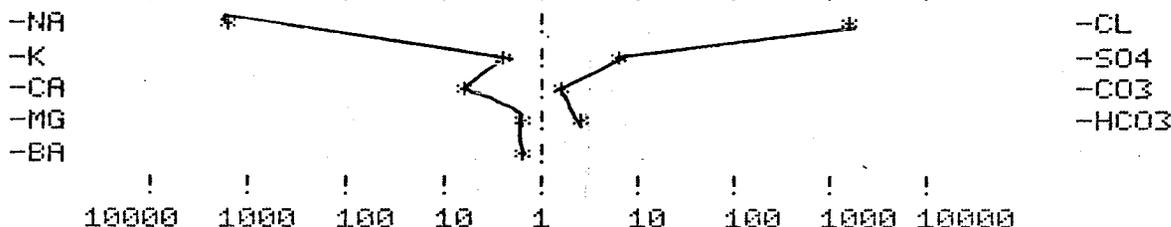
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 122943.52

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauck*

MD GL VF

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**

P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO... 4257

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 1250  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

**DISSOLVED SOLIDS**

**OTHER PROPERTIES**

CATIONS	MG/L	ME/L
SODIUM-NA	46621.34	2028.03
POTASSIUM-K	150	3.84
CALCIUM-CA	193.92	9.68
MAGNESIUM-MG	29.4	2.42
BARIUM-BA	0	0
TOTAL CATIONS	46994.66	2043.96

PH 7.5  
 RESISTIVITY(OHM-METERS), 77 F .08

**ANIONS**

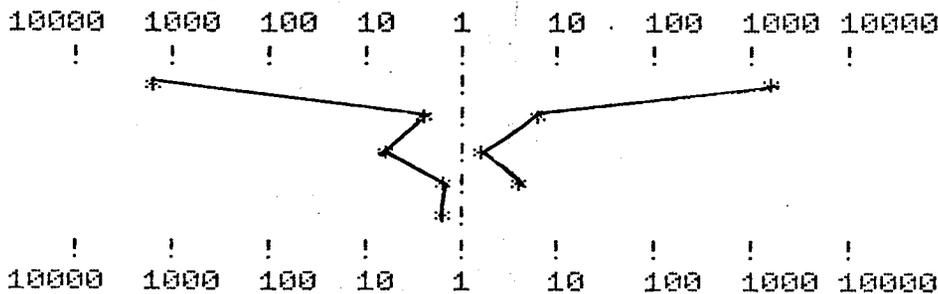
CHLORIDE-CL	72000	2030.4
SULFATE-SO4	450	9.36
CARBONATE-CO3	0	0
BICARBONATE-HCO3	256.2	4.2
TOTAL ANIONS	72706.2	2043.96

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 119700.86

**WATER PATTERNS--ME/L**

LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauch*

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4256

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 1151  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	43844.57	1907.24
POTASSIUM-K	256	6.55
CALCIUM-CA	420.16	20.97
MAGNESIUM-MG	4.9	.4
BARIUM-BA	0	0
TOTAL CATIONS	44525.63	1935.16

OTHER PROPERTIES

PH 7.8  
 RESISTIVITY(OHM-METERS), 77 F .084

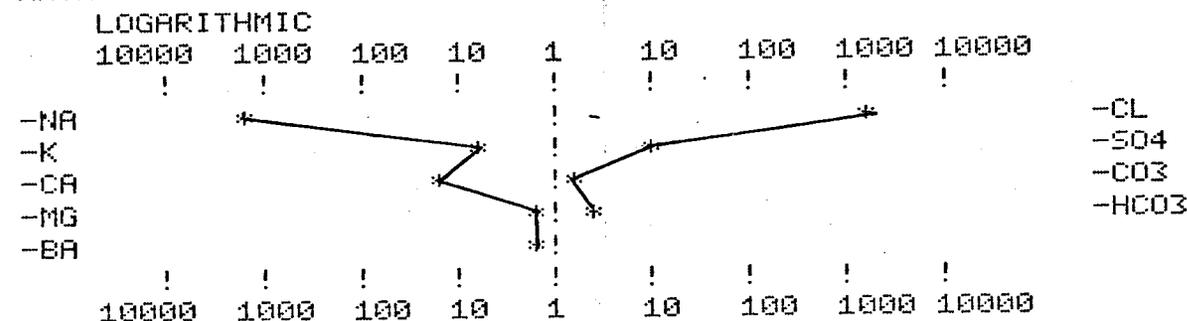
ANIONS

CHLORIDE-CL	68000	1917.6
SULFATE-SO4	700	14.56
CARBONATE-CO3	0	0
BICARBONATE-HCO3	183	3
TOTAL ANIONS	68883	1935.16

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 113408.63

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauck*

MD GL VF

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX 652 \* 24 HOUR PHONE 307/266-1616

CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4254

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.

SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 0947

AT: ..... SECURED BY: .....

SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47568.59	2069.23
POTASSIUM-K	128	3.28
CALCIUM-CA	177.76	8.87
MAGNESIUM-MG	44.1	3.63
BARIUM-BA	0	0
TOTAL CATIONS	47918.45	2085.01

PH 7.1  
 RESISTIVITY(OHM-METERS), 77 F .08

ANIONS

CHLORIDE-CL	73500	2072.7
SULFATE-SO4	380	7.9
CARBONATE-CO3	0	0
BICARBONATE-HCO3	268.4	4.4
TOTAL ANIONS	74148.4	2085.01

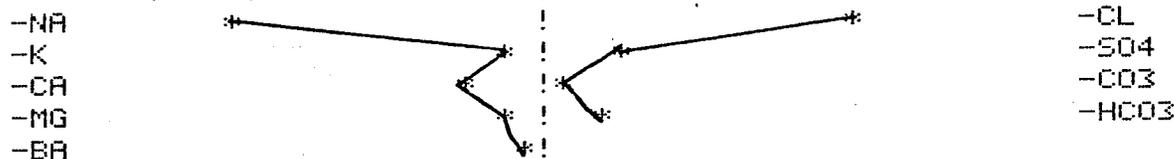
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 122066.85

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



10000 1000 100 10 1 10 100 1000 10000

REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawk*

PETROLEUM ANALYTICAL LABORATORY SERVICE

P. O. BOX 2652 \* 24 HOUR PHONE 307/265-1616  
CASPER, WYOMING 82602

AIR MONITORING  
COMPLETE GAS SERVICE  
CONSULTING CHEMISTS  
POLLUTION CONTROL  
WATER ANALYSIS

SAMPLE NO. . . 4253

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 0853  
AT:..... SECURED BY:.....  
SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47219.99	2054.07
POTASSIUM-K	123	3.15
CALCIUM-CA	169.68	8.47
MAGNESIUM-MG	63.7	5.24
BARIIUM-BA	0	0
TOTAL CATIONS	47576.37	2070.92

PH 7.5  
RESISTIVITY(OHM-METERS), 77 F .77

ANIONS

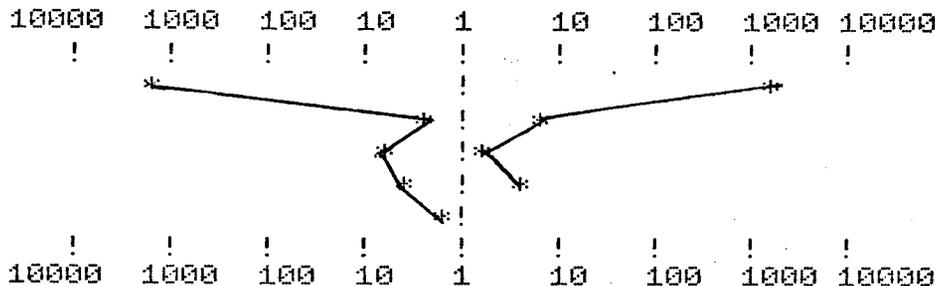
CHLORIDE-CL	73000	2058.6
SULFATE-SO4	400	8.32
CARBONATE-CO3	0	0
BICARBONATE-HCO3	244	4
TOTAL ANIONS	73644	2070.92

IRON-FE (TOTAL) 0  
SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
121220.37

WATER PATTERNS--ME/L

LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawk*

MD GL VF

P DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4252

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/30/80 0758  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47538.91	2067.94
POTASSIUM-K	123	3.15
CALCIUM-CA	177.76	8.87
MAGNESIUM-MG	63.7	5.24
BARIIUM-BA	0	0
TOTAL CATIONS	47903.37	2085.2

PH 7.4  
 RESISTIVITY(OHM-METERS), 77 F .075

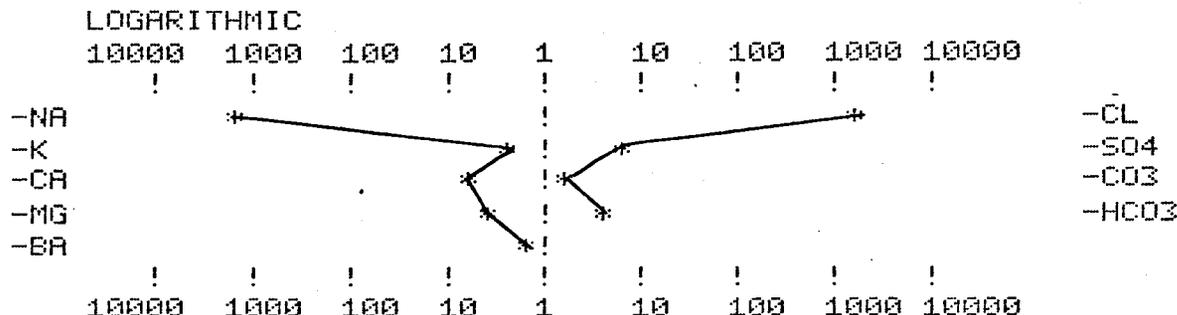
ANIONS

CHLORIDE-CL	73500	2072.7
SULFATE-SO4	370	7.7
CARBONATE-CO3	0	0
BICARBONATE-HCO3	292.8	4.8
TOTAL ANIONS	74162.8	2085.2

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 122066.17

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Havel*

MD GL VF

A DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4249

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1421  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47242.46	2055.05
POTASSIUM-K	124	3.17
CALCIUM-CA	145.44	7.26
MAGNESIUM-MG	58.8	4.83
BARIUM-BA	0	0
TOTAL CATIONS	47570.7	2070.31

PH 8.3  
 RESISTIVITY(OHM-METERS), 77 F .073

ANIONS

CHLORIDE-CL	73000	2058.6
SULFATE-SO4	390	8.11
CARBONATE-CO3	24	.8
BICARBONATE-HCO3	170.8	2.8
TOTAL ANIONS	73584.8	2070.31

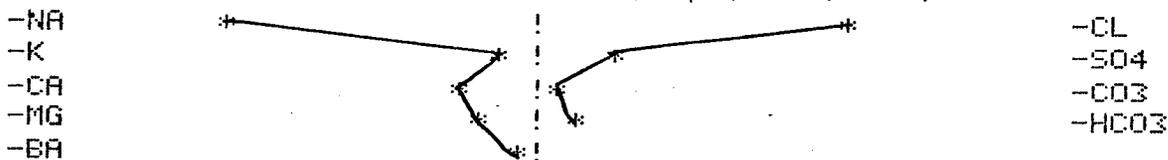
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121155.5

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauck*

MD GL VF

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4248

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO .  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1336  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47290.46	2057.13
POTASSIUM-K	124	3.17
CALCIUM-CA	161.6	8.06
MAGNESIUM-MG	14.7	1.21
BARIUM-BA	0	0
TOTAL CATIONS	47590.76	2069.58

PH 7.8  
 RESISTIVITY(OHM-METERS), 77 F .074

ANIONS

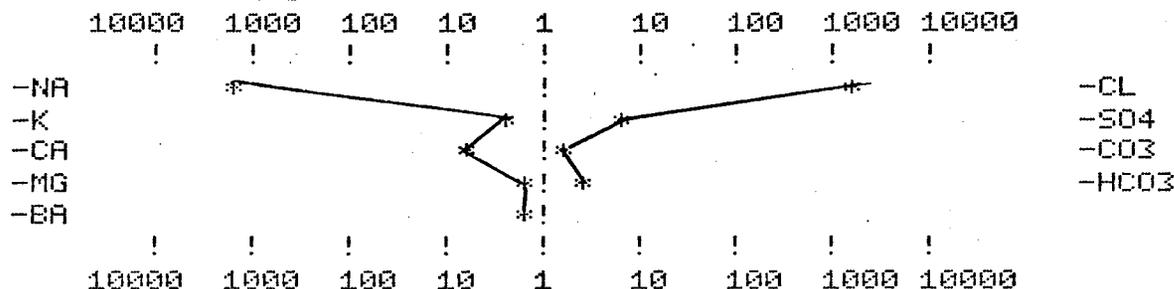
CHLORIDE-CL	73000	2058.6
SULFATE-SO4	350	7.28
CARBONATE-CO3	0	0
BICARBONATE-HCO3	225.7	3.7
TOTAL ANIONS	73575.7	2069.58

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121166.46

WATER PATTERNS--ME/L

LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hunt*

MD GL VF

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. 4247

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1249  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	46263.57	2012.47
POTASSIUM-K	127	3.25
CALCIUM-CA	145.44	7.26
MAGNESIUM-MG	53.9	4.43
BARIUM-BA	0	0
TOTAL CATIONS	46589.91	2027.4

PH 8.2  
 RESISTIVITY(OHM-METERS), 77 F .074

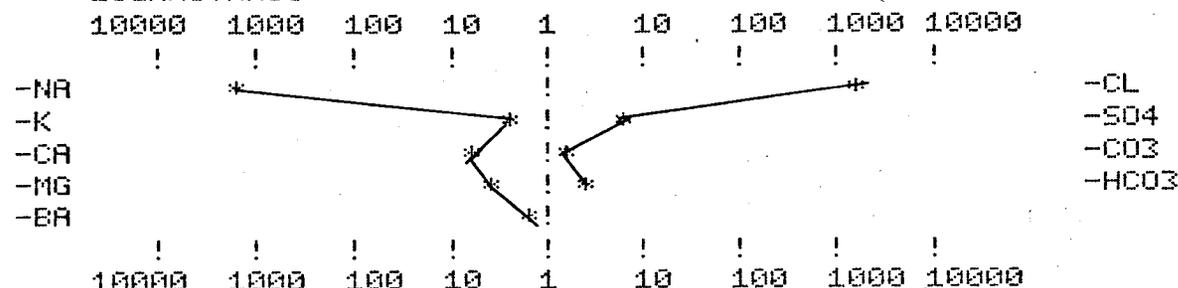
ANIONS

CHLORIDE-CL	71500	2016.3
SULFATE-SO4	380	7.9
CARBONATE-CO3	12	.4
BICARBONATE-HCO3	170.8	2.8
TOTAL ANIONS	72062.8	2027.4

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 118652.71

WATER PATTERNS--ME/L  
 LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Jane Houb*

DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4246

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1202  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

**DISSOLVED SOLIDS**

CATIONS	MG/L	ME/L
SODIUM-NA	47596.74	2070.46
POTASSIUM-K	128	3.28
CALCIUM-CA	145.44	7.26
MAGNESIUM-MG	19.6	1.61
BARIUM-BA	0	0
TOTAL CATIONS	47889.78	2082.6

**OTHER PROPERTIES**

PH 8.4  
 RESISTIVITY(OHM-METERS), 77 F .075

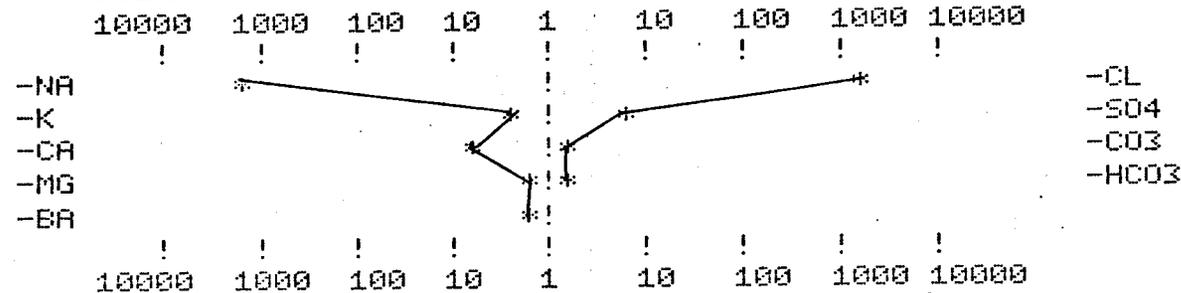
**ANIONS**

CHLORIDE-CL	73500	2072.7
SULFATE-SO4	380	7.9
CARBONATE-CO3	24	.8
BICARBONATE-HCO3	73.2	1.2
TOTAL ANIONS	73977.2	2082.6

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121866.98

**WATER PATTERNS--ME/L**  
 LOGARITHMIC



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Sue Hauck*

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 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO... 4245

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1046  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47952.77	2085.95
POTASSIUM-K	129	3.3
CALCIUM-CA	177.76	8.87
MAGNESIUM-MG	4.9	.4
BARIUM-BA	0	0
TOTAL CATIONS	48264.43	2098.52

PH 8.1  
 RESISTIVITY(OHM-METERS), 77 F .075

ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	400	8.32
CARBONATE-CO3	12	.4
BICARBONATE-HCO3	183	3
TOTAL ANIONS	74595	2098.52

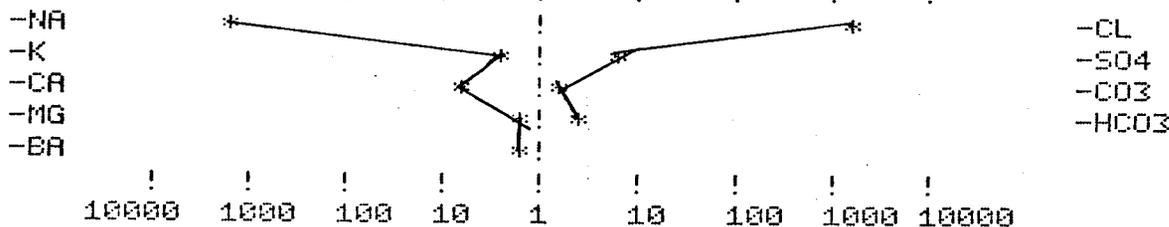
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 122859.43

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauert*

MD GL VF

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 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. . . 4244

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 1002  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	47317.54	2058.31
POTASSIUM-K	130	3.33
CALCIUM-CA	133.32	6.65
MAGNESIUM-MG	2.45	.2
BARIUM-BA	0	0
TOTAL CATIONS	47583.31	2068.5

OTHER PROPERTIES

PH 8.6  
 RESISTIVITY(OHM-METERS), 77 F .074

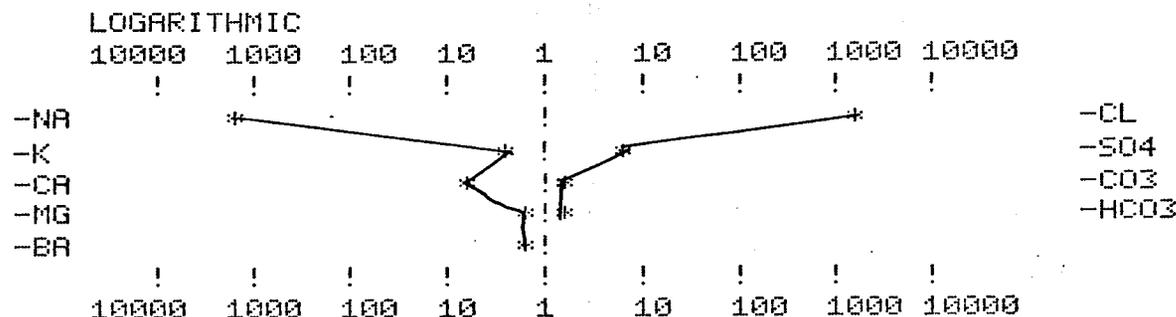
ANIONS

CHLORIDE-CL	73000	2058.6
SULFATE-SO4	370	7.7
CARBONATE-CO3	36	1.2
BICARBONATE-HCO3	61	1
TOTAL ANIONS	73467	2068.5

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121050.31

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Houch*

MD GL VF

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**PETROLEUM ANALYTICAL LABORATORY SERVICE**

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 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO... 4243

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
 SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 0923  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	46372.65	2017.21
POTASSIUM-K	131	3.35
CALCIUM-CA	137.36	6.85
MAGNESIUM-MG	4.9	.4
BARIUM-BA	0	0
TOTAL CATIONS	46645.91	2027.82

OTHER PROPERTIES

PH 8.2  
 RESISTIVITY(OHM-METERS), 77 F .074

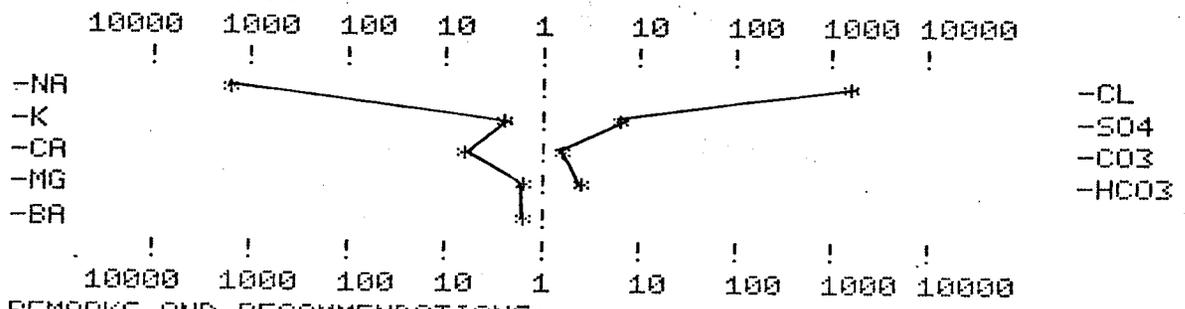
ANIONS

CHLORIDE-CL	71500	2016.3
SULFATE-SO4	400	8.32
CARBONATE-CO3	12	.4
BICARBONATE-HCO3	170.8	2.8
TOTAL ANIONS	72082.8	2027.82

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 118728.71

WATER PATTERNS--ME/L  
 LOGARITHMIC



COPIES TO:

ANALYSIS BY: *Gme Houck*

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POLLUTION CONTROL  
WATER ANALYSIS

SAMPLE NO. 4242

DATE RUN: 11/10/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION CO.  
SAMPLE FROM: CHAMPLIN 846 A 1 CAVE CREEK SUMMIT UTAH 10/29/80 0852  
AT: ..... SECURED BY: .....  
SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

WATER ANALYSIS

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	46399.9	2018.4
POTASSIUM-K	132	3.38
CALCIUM-CA	109.08	5.44
MAGNESIUM-MG	2.45	.2
BARIUM-BA	0	0
TOTAL CATIONS	46643.43	2027.42

PH 8.4  
RESISTIVITY(OHM-METERS), 77 F .074

ANIONS

CHLORIDE-CL	71500	2016.3
SULFATE-SO4	400	8.32
CARBONATE-CO3	36	1.2
BICARBONATE-HCO3	97.6	1.6
TOTAL ANIONS	72033.6	2027.42

IRON-FE (TOTAL) 0  
SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
118677.03

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000

-NA  
-K  
-CA  
-MG  
-BA

-CL  
-SO4  
-CO3  
-HCO3

10000 1000 100 10 1 10 100 1000 10000

REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY:

*Gene Hauck*

MD GL VF

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 WATER ANALYSIS

SAMPLE NO. ... 4251

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 10/30/80 0720HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

**DISSOLVED SOLIDS**

CATIONS	MG/L	ME/L
SODIUM-NA	48470.94	2108.49
POTASSIUM-K	137	3.51
CALCIUM-CA	185.84	9.27
MAGNESIUM-MG	68.6	5.64
BARIUM-BA	0	0
TOTAL CATIONS	48862.38	2126.91

**OTHER PROPERTIES**

PH 7.2  
 RESISTIVITY(OHM-METERS), 77 F .086

**ANIONS**

CHLORIDE-CL	75000	2115
SULFATE-SO4	380	7.9
CARBONATE-CO3	0	0
BICARBONATE-HCO3	244	4
TOTAL ANIONS	75624	2126.91

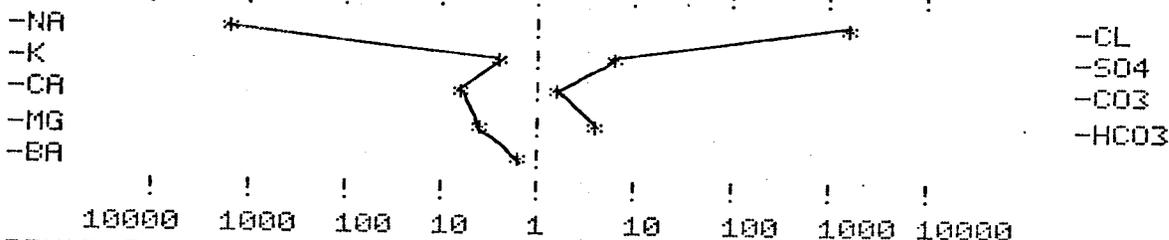
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 124486.38

**WATER PATTERNS--ME/L**

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hawk*

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 WATER ANALYSIS

SAMPLE NO. 4269

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 11/2/80 1300HRS  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	9005.79	391.75
POTASSIUM-K	11000	281.6
CALCIUM-CA	161.6	8.06
MAGNESIUM-MG	14.7	1.21
BARIUM-BA	0	0
TOTAL CATIONS	20182.09	682.62

PH .7  
 RESISTIVITY(OHM-METERS), 77 F .064

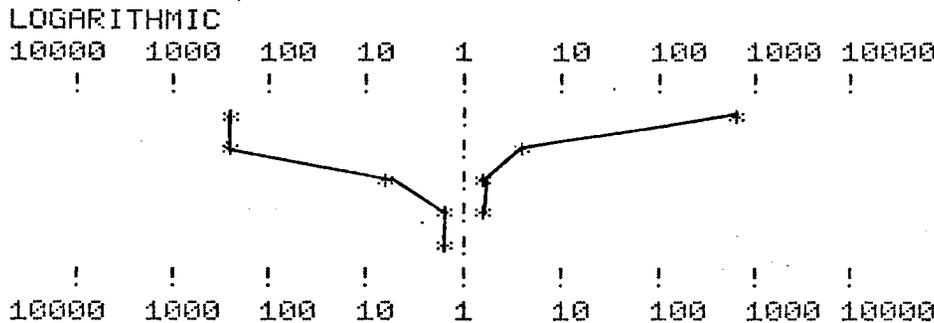
ANIONS

CHLORIDE-CL	24000	676.8
SULFATE-SO4	280	5.82
CARBONATE-CO3	0	0
BICARBONATE-HCO3	0	0
TOTAL ANIONS	24280	682.62

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 44462.09

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Acidity - 18,150 mg/l as CaCO<sub>3</sub>

COPIES TO:

ANALYSIS BY: *Gene Havel*

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 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. 4267

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY CAVE CREEK SUMMIT CO UTAH  
 SAMPLE FROM: CHAMPLIN 846 "A"1 11/1/80 0956HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	47041.04	2046.29
POTASSIUM-K	520	13.31
CALCIUM-CA	137.36	6.85
MAGNESIUM-MG	68.6	5.64
BARIIUM-BA	0	0
TOTAL CATIONS	47767	2072.09

PH 7.4  
 RESISTIVITY(OHM-METERS), 77 F .08

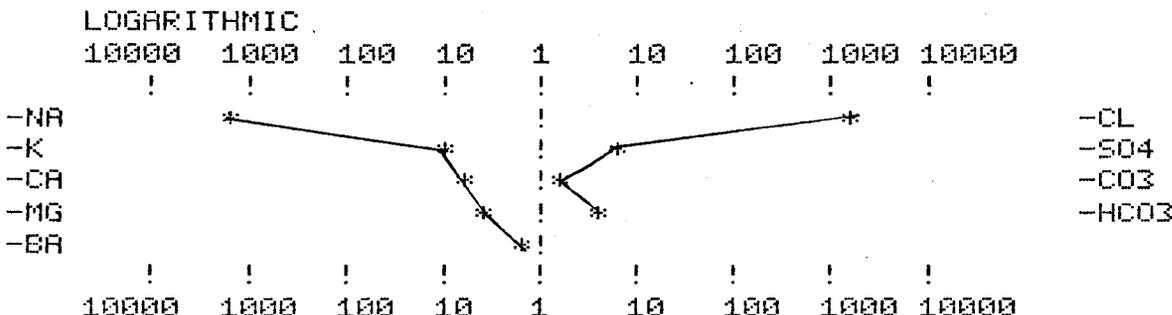
ANIONS

CHLORIDE-CL	73000	2058.6
SULFATE-SO4	360	7.49
CARBONATE-CO3	0	0
BICARBONATE-HCO3	366	6
TOTAL ANIONS	73726	2072.09

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 121493

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauch*

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 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4268

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 11/1/80 1530 HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	18040.02	784.74
POTASSIUM-K	2000	51.2
CALCIUM-CA	17372	866.86
MAGNESIUM-MG	5145	422.92
BARIUM-BA	0	0
TOTAL CATIONS	42557.02	2125.72

PH 6.1  
 RESISTIVITY(OHM-METERS), 77 F .089

ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	1525	31.72
CARBONATE-CO3	0	0
BICARBONATE-HCO3	439.2	7.2
TOTAL ANIONS	75964.2	2125.72

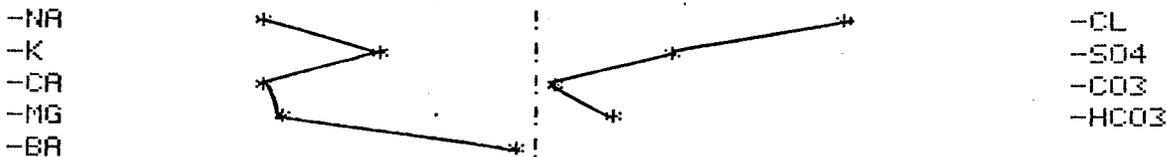
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 118521.22

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



10000 1000 100 10 1 10 100 1000 10000

REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Havel*

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CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4266

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY CAVE CREEK SUMMIT CO UTAH  
 SAMPLE FROM: CHAMPLIN 846 "A"1 11/1/80 0818HRS  
 AT: ..... SECURED BY: .....  
 SAMPLING CONDITIONS: ..... PRESS: ..... TEMP: ..... TIME: ..... DATE: .....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	38499.64	1674.73
POTASSIUM-K	2570	65.79
CALCIUM-CA	2424	120.96
MAGNESIUM-MG	392	32.22
BARIUM-BA	0	0
TOTAL CATIONS	43885.64	1893.71

PH 7  
 RESISTIVITY(OHM-METERS), 77 F .097

ANIONS

CHLORIDE-CL	64000	1804.8
SULFATE-SO4	1100	22.88
CARBONATE-CO3	0	0
BICARBONATE-HCO3	4026	66.03
TOTAL ANIONS	69126	1893.71

IRON-FE (TOTAL) 0

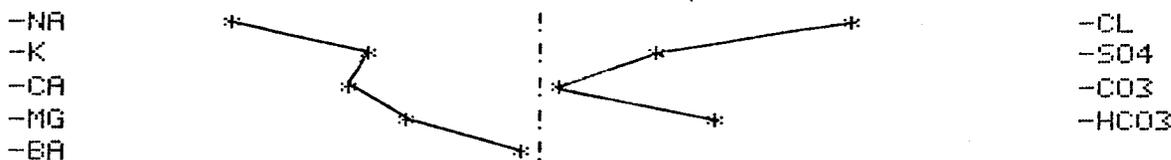
SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 113011.64

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

Total Sulfide - 2680 mg/l

COPIES TO:

ANALYSIS BY:

*Gene Heuck*

GL MD WF

PETROLEUM ANALYTICAL LABORATORY SERVICE

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 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4265

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT UTAH 11/1/80 NO TIME  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

WATER ANALYSIS

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	43781.44	1904.49
POTASSIUM-K	526	13.47
CALCIUM-CA	129.28	6.45
MAGNESIUM-MG	44.1	3.63
BARIUM-BA	0	0
TOTAL CATIONS	44480.82	1928.03

OTHER PROPERTIES

PH 6.8  
 RESISTIVITY(OHM-METERS), 77 F .081

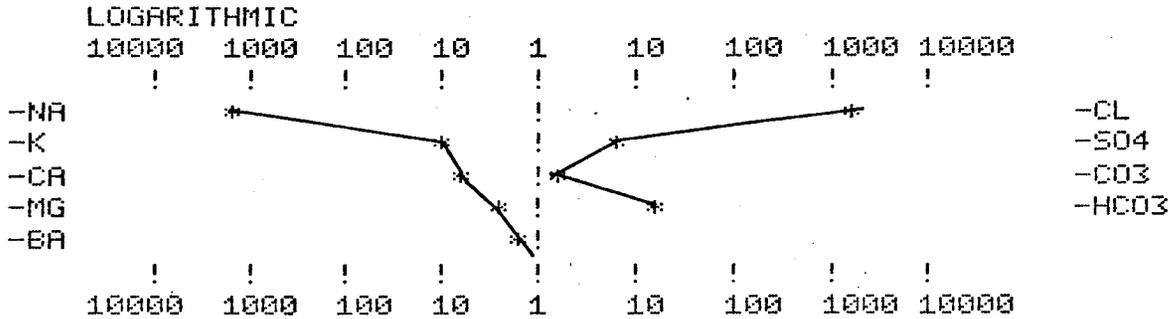
ANIONS

CHLORIDE-CL	67500	1903.5
SULFATE-SO4	410	8.53
CARBONATE-CO3	0	0
BICARBONATE-HCO3	976	16.01
TOTAL ANIONS	68886	1928.03

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 113366.82

WATER PATTERNS--ME/L



COPIES TO:

ANALYSIS BY: *Gene Houch*

P DIVISION OF WPC, INC.  
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 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4264

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 10/31/80 1420HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	34220.59	1488.6
POTASSIUM-K	2560	65.54
CALCIUM-CA	2424	120.96
MAGNESIUM-MG	612.5	50.35
BARIUM-BA	0	0
TOTAL CATIONS	39817.09	1725.44

PH 7.3  
 RESISTIVITY(OHM-METERS), 77 F .086

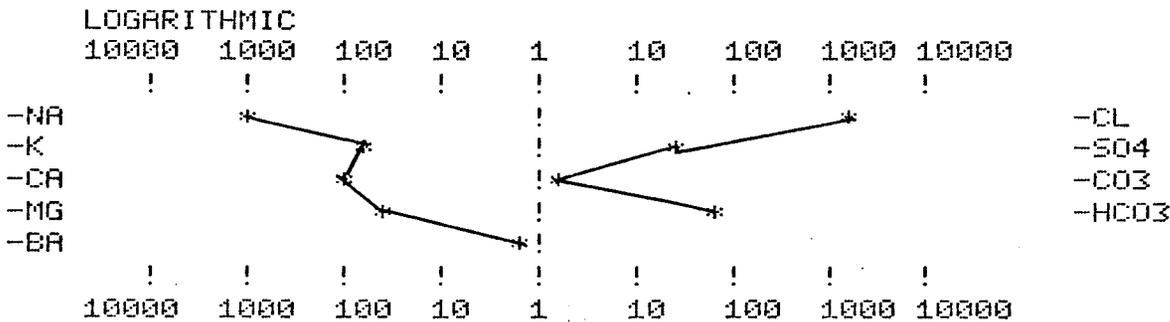
ANIONS

CHLORIDE-CL	57000	1607.4
SULFATE-SO4	1250	26
CARBONATE-CO3	0	0
BICARBONATE-HCO3	5612	92.04
TOTAL ANIONS	63862	1725.44

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 103679.09

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Total Sulfide - 2240 mg/l

COPIES TO:

ANALYSIS BY: *Gene Sauced*

GL MD VF

P DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
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AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4263

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY CAVE CREEK SUMMIT CO UTAH  
 SAMPLE FROM: CHAMPLIN 846 "A"1 10/31/80 1200HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	35428.62	1541.14
POTASSIUM-K	2130	54.53
CALCIUM-CA	1939.2	96.77
MAGNESIUM-MG	294	24.17
BARIUM-BA	0	0
TOTAL CATIONS	39791.82	1716.61

PH 7.2  
 RESISTIVITY(OHM-METERS), 77 F .1

ANIONS

CHLORIDE-CL	57500	1621.5
SULFATE-SO4	1475	30.68
CARBONATE-CO3	0	0
BICARBONATE-HCO3	3928.4	64.43
TOTAL ANIONS	62903.4	1716.61

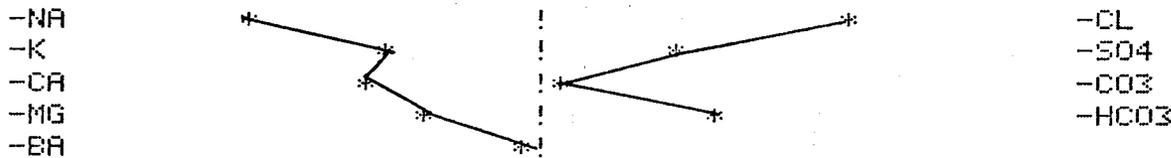
IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 102695.22

WATER PATTERNS--ME/L

LOGARITHMIC

10000 1000 100 10 1 10 100 1000 10000



REMARKS AND RECOMMENDATIONS:

Total Sulfide - 1740 mg/l

COPIES TO:

ANALYSIS BY: *Gene Havel*

GL MD VF

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4250

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT CO UTAH 10/29/80 1555HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

### WATER ANALYSIS

**DISSOLVED SOLIDS**

CATIONS	MG/L	ME/L
SODIUM-NA	44890.86	1952.75
POTASSIUM-K	1335	34.18
CALCIUM-CA	185.84	9.27
MAGNESIUM-MG	49	4.03
BARIUM-BA	0	0
TOTAL CATIONS	46460.7	2000.23

**OTHER PROPERTIES**

PH 7.6  
 RESISTIVITY(OHM-METERS), 77 F .088

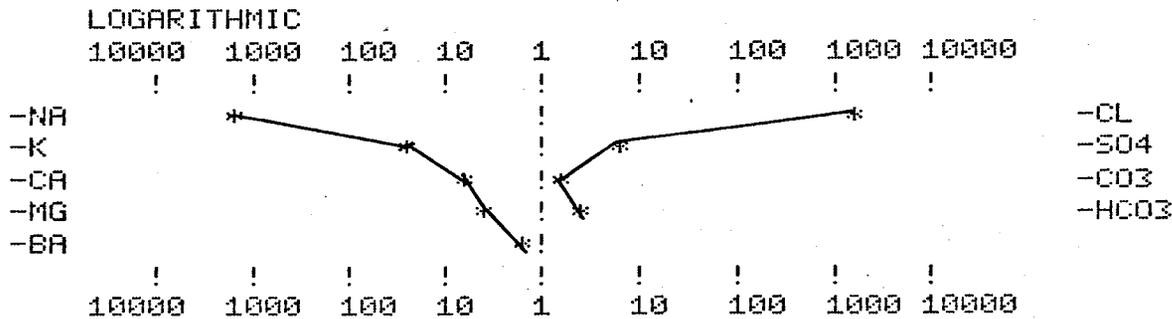
**ANIONS**

CHLORIDE-CL	70500	1988.1
SULFATE-SO4	410	8.53
CARBONATE-CO3	0	0
BICARBONATE-HCO3	219.6	3.6
TOTAL ANIONS	71129.6	2000.23

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 117590.3

**WATER PATTERNS--ME/L**



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauck*

P DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4241

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 CAVE CREEK SUMMIT UTAH 10/29/80 0745HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

OTHER PROPERTIES

CATIONS	MG/L	ME/L
SODIUM-NA	43413.61	1888.49
POTASSIUM-K	162	4.15
CALCIUM-CA	113.12	5.64
MAGNESIUM-MG	19.6	1.61
BARIUM-BA	0	0
TOTAL CATIONS	43708.33	1899.89

PH 9.2  
 RESISTIVITY(OHM-METERS), 77 F .087

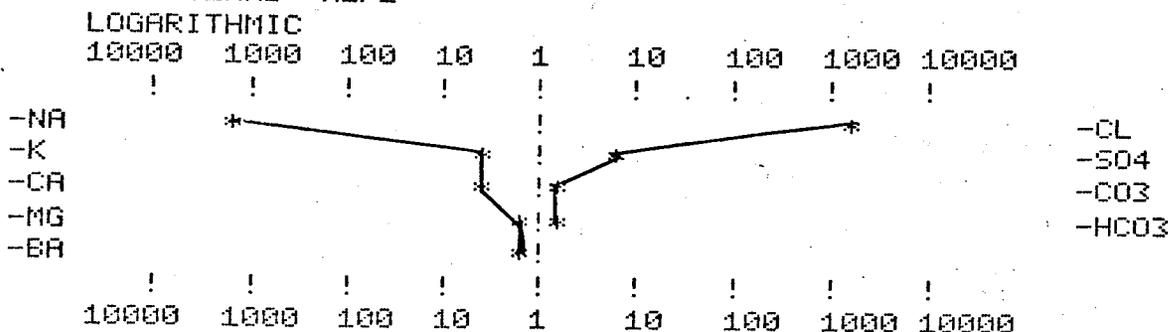
ANIONS

CHLORIDE-CL	67000	1889.4
SULFATE-SO4	370	7.7
CARBONATE-CO3	48	1.6
BICARBONATE-HCO3	73.2	1.2
TOTAL ANIONS	67491.2	1899.89

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 111199.53

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

COPIES TO:

ANALYSIS BY: *Gene Hauck*

GL MD VF

P DIVISION OF WPC, INC.  
**PETROLEUM ANALYTICAL LABORATORY SERVICE**  
 P. O. BOX 2652 \* 24 HOUR PHONE 307/266-1616  
 CASPER, WYOMING 82602

AIR MONITORING  
 COMPLETE GAS SERVICE  
 CONSULTING CHEMISTS  
 POLLUTION CONTROL  
 WATER ANALYSIS

SAMPLE NO. ... 4275

DATE RUN: 11/7/80

A SAMPLE OF: WATER FROM AMOCO PRODUCTION COMPANY  
 SAMPLE FROM: CHAMPLIN 846 "A"1 SUMMIT CO UTAH 11/3/80 0800HRS  
 AT:..... SECURED BY:.....  
 SAMPLING CONDITIONS:..... PRESS:..... TEMP:..... TIME:..... DATE:.....

**WATER ANALYSIS**

DISSOLVED SOLIDS

CATIONS	MG/L	ME/L
SODIUM-NA	16240.2	706.45
POTASSIUM-K	2000	51.2
CALCIUM-CA	16160	806.38
MAGNESIUM-MG	6860	563.89
BARIUM-BA	0	0
TOTAL CATIONS	41260.2	2127.92

OTHER PROPERTIES

PH 5.6  
 RESISTIVITY(OHM-METERS), 77 F .096

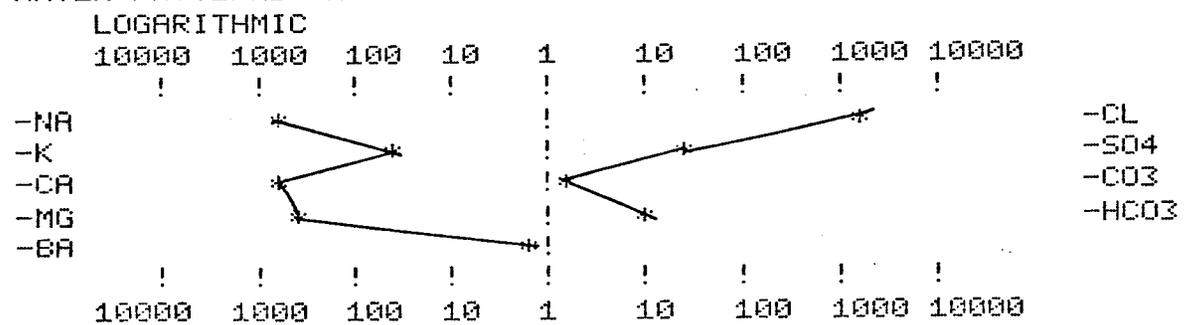
ANIONS

CHLORIDE-CL	74000	2086.8
SULFATE-SO4	1400	29.12
CARBONATE-CO3	0	0
BICARBONATE-HCO3	732	12
TOTAL ANIONS	76132	2127.92

IRON-FE (TOTAL) 0  
 SULFIDE AS H2S 0

TOTAL DISSOLVED SOLIDS(CALC.)  
 117392.2

WATER PATTERNS--ME/L



REMARKS AND RECOMMENDATIONS:

Total Sulfide - 136 mg/l

COPIES TO:

ANALYSIS BY: *Gene Hauch*



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

5. LEASE DESIGNATION AND SERIAL NO.
Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Champlin 846 Amoco "A"
9. WELL NO. #1
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 25, T5N-R7E
12. COUNTY OR PARISH Summit
13. STATE Utah

**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.)

1. OIL WELL  GAS WELL  OTHER

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.\* See also space 17 below.)  
At surface  
NE/4 NW/4 Section 25, 715' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
6662' GL

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input checked="" type="checkbox"/> (Pu11)
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	Squeeze <input checked="" 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.) \*

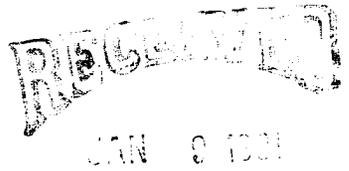
Amoco Production Company reports the squeeze of the present open interval & the pulling of 7" casing.

Cement squeeze present open interval 11,984' - 12,002' w/150 sx class "G" cmt.

Run CBL from 11,000' - 11,800'

7" casing was cut after evaluating free point, @ 11,501'.

Verbal approval received from Jack Feight, U.O.G. & M.C.



DIVISION OF OIL, GAS & MINING

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

SIGNED E.R. Nicholas TITLE Administrative Supervisor DATE 1/5/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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

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.)

1. OIL WELL [X] 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 NW/4 Section 25 715' FNL & 2342' FWL 5. LEASE DESIGNATION AND SERIAL NO. Fee 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME Champlin 846 Amoco "A" 9. WELL NO. #1 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25, T5N-R7E 12. COUNTY OR PARISH Summit 13. STATE Utah 14. PERMIT NO. 43-043-30100 15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6662'

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

NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [ ] FRACTURE TREAT [ ] SHOOT OR ACIDIZE [X] REPAIR WELL [ ] (Other) [ ] PULL OR ALTER CASING [ ] MULTIPLE COMPLETE [ ] ABANDON\* [ ] CHANGE PLANS [ ] Perforate [X] SUBSEQUENT REPORT OF: WATER SHUT-OFF [ ] FRACTURE TREATMENT [ ] SHOOTING OR ACIDIZING [ ] (Other) [ ] REPAIRING WELL [ ] ALTERING CASING [ ] ABANDONMENT\* [ ] (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.)\*

Amoco Production Company proposes to plug above cut 7" casing and perforate & stimulate Woodside interval.

TD: 16,500' PBSD: 12,250'

Set CIBP in 9-5/8" casing @ 11,470' to cover cut 7" casing @ 11,501'. Cap CIBP W/10sx class "G" cement.

Perforate Woodside intervals 10,964'-10980' & 11,020'-11,032' W/2 JSPF.

Acidize W/2800 gal of 7 1/2% HCl W/600 SCF of N2/bbl

Additives: 5 gal/ 1000 gal nonemulsifier 2 gal/ 1000 gal iron sequestering agent 3 gal/ 1000 gal clay stabilizer Inhibitor for 24 hrs.



DIVISION OF OIL, GAS & MINING

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 1-16-81 BY: [Signature]

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

SIGNED Original signed by [Signature] TITLE Administrative Supervisor DATE 1-9-81

(This space for Federal or State office use)

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

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

5. LEASE DESIGNATION AND SERIAL NO.	Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME	Champlin 846 Amoco "A"
9. WELL NO.	#1
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Section 25, T5N-R7E
12. COUNTY OR PARISH	Summit
13. STATE	Utah

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.)

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 NW/4 Section 25 715' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, OR, etc.)  
6662'

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>	Perforate <input checked="" 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.)\*

Amoco Production Company proposes to perforate and stimulate the Thaynes formation.

TD: 16,500' PBTD: 12,250'

Perforate the Thaynes formation interval 10,044' - 10,120' w/2 JSPF.

Acidize w/7600 gal of 15% HCL w/600 SCF of N<sub>2</sub>/bbl.

Acid Additives: 5 gal/ 1000 gal non emulsifier  
 10-15#/ 1000 gal iron sequestering agent  
 3 gal/ 1000 gal friction reducer  
 Inhibitor for 24 hours

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING  
DATE: 2-3-81  
BY: M.J. Winder

18. I hereby certify that the foregoing is true and correct  
 SIGNED Original Signed By TITLE Administrative Supervisor DATE 1-26-81  
E. R. NICOLSON

(This space for Federal or State office use)

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

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

SEE INSTRUCTIONS ON REVERSE SIDE

5. LEASE DESIGNATION AND SERIAL NO.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Champlin 846 Amoco "A"

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 25, T5N-R7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

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.)

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 NW/4 Section 25 715' FNL & 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6662'

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETION <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input checked="" type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Other) Squeeze & Perforate X

(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.)\*

Amoco Production Company proposes to squeeze open perforations, then perforate & stimulate Twin Creek formation.

TD: 16,500' PBSD: 12,250'

Set cement retainer @ 6510' and pump 150 sx of class "G" cement to squeeze open intervals 6546' - 6571' & 6592' - 6598'.  
 Perforate Twin Creek intervals 6387' - 6410' and 6442' - 6476' w/4 JSPF.  
 Acidize w/6000 gal of 28% HCL w/500 SCF of N<sub>2</sub>/bbl.  
 Additives: 3 gal/1000 gal friction reducer  
 2 gal/1000 gal non emulsifier  
 10#-15#/1000 gal iron sequestering agent  
 Inhibitor for 48 hours

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: 2-27-81  
BY: *[Signature]*

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

Original Signed By  
SIGNED G. W. CHAPMAN TITLE Administrative Supervisor DATE 2-10-81

(This space for Federal or State office use)

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

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

<p><b>SUNDRY NOTICES AND REPORTS ON WELLS</b> (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.)</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee</p>
<p>1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/></p>		<p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p>
<p>2. NAME OF OPERATOR Amoco Production Company</p>		<p>7. UNIT AGREEMENT NAME</p>
<p>3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, UT 84117</p>		<p>8. FARM OR LEASE NAME Champlin 846 Amoco "A"</p>
<p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4 NW/4 Section 25, 715' FNL &amp; 2342' FWL</p>		<p>9. WELL NO. #7</p>
<p>14. PERMIT NO. 43-043-30100</p>		<p>10. FIELD AND POOL, OR WILDCAT Wildcat</p>
<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 6662'</p>		<p>11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA Section 25, T5N-R7E</p>
<p>12. COUNTY OR PARISH Summit</p>		<p>13. STATE Utah</p>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Isolate - Perforate</u> <input checked="" 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.)\*

Amoco Production Company reports the isolation of the upper Weber open interval and the perforation & acidizing of the Lower Phosphoria.

TD: 16,500'                      PBSD: 15,804'

Set cement retainer @ 12,250' & pumped 150 sx class "G" cement to isolate intervals 12,270' - 12,300' and 12,325' - 12,338'

Perforated Lower Phosphoria intervals 12,150' - 12,160' and 12,184' - 12,196' w/2 JSPF

Acidized w/2200 gal of 15% HCl

Additives:    5 gal/1000 gal non emulsifier  
                   10#/1000 gal iron sequestering agent  
                   100 gal/1000 gal EGMBE  
                   Inhibitor for 48 hours

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

SIGNED *Harold Deane* TITLE Administrative Supervisor DATE 2/16/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN TRIPPLICATE\*  
(0. Instructions on  
reverse side)

**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.)

<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>5. LEASE DESIGNATION AND SERIAL NO.</b> Fee	
<b>2. NAME OF OPERATOR</b> Amoco Production Company		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</b>	
<b>3. ADDRESS OF OPERATOR</b> P.O. Box 17675, Salt Lake City, UT 84117		<b>7. UNIT AGREEMENT NAME</b>	
<b>4. LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4 NW/4 Section 25, 715' FNL & 2342' FWL		<b>8. FARM OR LEASE NAME</b> Champlin 846 Amoco "A"	
<b>14. PERMIT NO.</b> 43-043-30100		<b>9. WELL NO.</b> #1	
<b>15. ELEVATIONS</b> (Show whether DF, RT, OR, etc.) 6662'		<b>10. FIELD AND POOL, OR WILDCAT</b> Wildcat	
		<b>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> Section 25, T5N-R7E	
		<b>12. COUNTY OR PARISH</b> Summit	<b>13. STATE</b> Utah

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Isolate - Perforate</u> <input checked="" type="checkbox"/>	<input checked="" 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.)\*

Amoco Production Company reports the isolation of the Lower Weber open interval and the perforation & acidizing of the Upper Weber.

TD: 16,500'                      PBD: 15,804'

Set CIBP @ 12,438' and capped w/2 sx cement to isolate intervals 12,604'-12,644', 12,654'-12,680' & 12,725'-12,742'.

Perforated Upper Weber intervals 12,270'-12,300' and 12,325'-12,338' w/2 JSPF

Acidized w/4300 gals of 15% HCl

Additives: 5 gal/1000 gal non emulsifier  
10#/1000 gal iron sequestering agent  
100 gal/1000 gal EGMBE  
Inhibitor for 48 hours

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

SIGNED [Signature] TITLE Administrative Supervisor DATE 2/17/81

(This space for Federal or State office use)

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

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

**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.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Amoco Production Company</p> <p>3. ADDRESS OF OPERATOR P.O. Box 17675, Salt Lake City, Utah 84117</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4 NW/4 Section 25, 715' FNL &amp; 2342' FWL</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. Fee</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Champlin 846 Amoco "A"</p> <p>9. WELL NO. #1</p> <p>10. FIELD AND POOL, OR WILDCAT Wildcat</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 25, T5N-R7E</p> <p>12. COUNTY OR PARISH Summit</p> <p>13. STATE Utah</p>
<p>14. PERMIT NO. 43-043-30100</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6662'</p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON* (temp.) <input checked="" type="checkbox"/> CHANGE PLANS <input type="checkbox"/> Isolate open perfs. <input checked="" type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <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.)\*

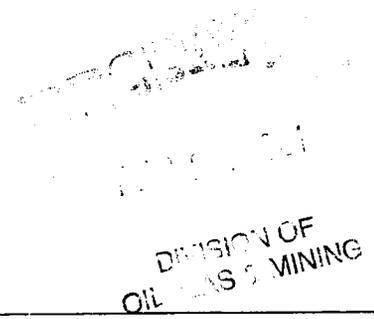
Amoco Production Company proposes to isolate the present open perforations for temporary abandonment.

TD: 16,500'                      PBTD: 6605'

Casing: 20" SA 1432'; 13 3/8" SA 5760'; 9 5/8" SA 11788'; 7" SA 16500'

Set 9 5/8" bridge plug at 6350' and dump 2 sacks of cement on top for temporary abandonment.

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING  
DATE: 2-27-81  
BY: M.S. Minder



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

SIGNED [Signature] TITLE Administrative Supervisor DATE 2-18-81

(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: Well No. #1  
Sec. 28, T. 5N, R. 7E.  
Summit, County, Utah  
(March, 1981 - April 1981)

Gentlemen:

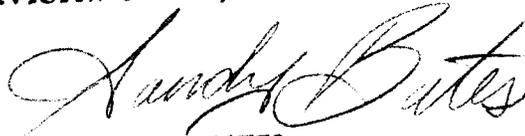
Our records indicate that you have not filed the Monthly Drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING



SANDY BATES  
CLERK-TYPIST

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

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.)

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 NW/4 Sec. 25, 715' FNL and 2342' FWL

14. PERMIT NO.  
43-043-30100

15. ELEVATIONS (Show whether DV, RT, GR, etc.)  
6662'

5. LEASE DESIGNATION AND SERIAL NO.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Champlin 846 Amoco "A"

9. WELL NO.  
#1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR ARDA  
Sec. 25, T5N, R7E

12. COUNTY OR PARISH  
Summit

13. STATE  
Utah

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Notice of current status</u> <input checked="" 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 see our sundry notice dated 2-18-81 advising that the well has been temporarily abandoned. We will notify you of any changes in this status.

2 State  
wf  
LF

18. I hereby certify that the foregoing is true and correct  
SIGNED Original Signed TITLE Administrative Supervisor DATE 4/10/81

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



SCOTT M. MATHESON  
Governor

TEMPLE A. REYNOLDS  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

September 29, 1981

Amoco Production Company  
Mr. Martin Zimmerman  
P.O. Box 17675  
Salt Lake City, UT 84117

SALT LAKE, GAS AND MINING BOARD				
RECEIVED				
SEP 30 '81				
CHARLES R. HENDERSON Chairman				
JOHN L. BELL				
EDWARD F. BECK				
ROUTE AS FOLEY STEELE MCINTYRE				
122				BOB NORMAN
DEP				MARGARET BIRD
JHR				HERM OLSEN
WHH				
WI				
VJS				
LDR				
OW				
E	WT	COB	MAR	PAL
L	WLL	LSI	PHI	COBR
E				

Re: Champlin 846 Amoco <sup>"A" #1</sup> ~~"B" #1A~~  
Sec. 25, T5N, R7E  
and  
Island Ranching "C" #1  
Sec. 26, T4N, R7E  
Summit County, Utah

Dear Mr. Zimmerman,

Please be advised that administrative approval has been granted to dispose of gas plant process water and produced water into the above mentioned wells.

Said approval is however, conditional upon adhering to the provisions of Rule I-1 of the "Underground Injection Control" program rules and regulations which were adopted on September 24, 1981, and upon the conditions listed below:

- a) Applicant will take two samples of formation water by production swab tests, one from the upper interval and one from a lower interval.
- b) Applicant will notify this office prior to taking such samples in order that a member of the staff may be present to witness such tests, and take independent samples.
- c) Applicant will provide continuous monitoring equipment for the volume of fluids injected and injection pressures.

Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

THALIA R. PRATT  
UTC SPECIALIST



SCOTT M. MATHESON  
Governor

TEMPLE A. REYNOLDS  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON  
Chairman

JOHN L. BELL  
EDWARD T. BECK  
E. STEELE MCINTYRE  
BOB NORMAN  
MARGARET BIRD  
HERM OLSEN

September 29, 1981

Amoco Production Company  
Mr. Martin Zimmermann  
P.O. Box 17675  
Salt Lake City, UT 84117

Re: Champlin 846 Amoco "B" #1A  
Sec. 25, T5N, R7E  
and  
Island Ranching "C" #1  
Sec. 26, T4N, R7E  
Summit County, Utah

Dear Mr. Zimmerman,

Please be advised that administrative approval has been granted to dispose of gas plant process water and produced water into the above mentioned wells.

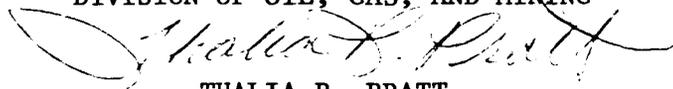
Said approval is however, conditional upon adhering to the provisions of Rule I-1 of the "Underground Injection Control" program rules and regulations which were adopted on September 24, 1981, and upon the conditions listed below:

- a) Applicant will take two samples of formation water by production swab tests, one from the upper interval and one from a lower interval.
- b) Applicant will notify this office prior to taking such samples in order that a member of the staff may be present to witness such tests, and take independent samples.
- c) Applicant will provide continuous monitoring equipment for the volume of fluids injected and injection pressures.

Should you have any questions relative to the above, please do not hesitate to call or write.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

  
THALIA R. PRATT  
UIC SPECIALIST

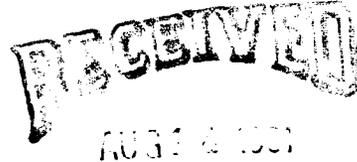


**Amoco Production Company**

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

Martin Zimmerman  
District Superintendent

August 10, 1981



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

DIVISION OF  
OIL, GAS & MINING

File: DSD-226-031.190

Application for Subsurface Water Disposal Operations - Anschutz  
Ranch East and Surrounding Areas - Summit County, Utah

Amoco Production Company hereby applies under Rule C-11 of the General Rules and Regulations and Rules of Practice and Procedure for administrative approval to dispose of gas plant process water and produced water from the Twin Creek, Nugget, and Phosphoria Formations, by injection into the Nugget Formation through an existing well(s).

At the present time, Amoco is undertaking a scoping study to determine which well(s) in the general producing area would best satisfy water disposal requirements, adequately prevent waste and protect property rights. Three of the wells under consideration are as follows, all located in Summit County:

- Champlin 846 Amoco "B" #1A - Sec. 25, T5N, R7E ✓
- ~~Champlin 458 Amoco "B" #1A - Sec. 19, T3N, R8E~~ *roll over for probos.*
- Island Ranching "C" #1 - Sec. 26, T4N, R7E ✓

Amoco would request the right to select the particular well and/or wells to be utilized for disposal operations upon final review and evaluation of the scoping study now underway. Your concurrence with our selection would, of course, be sought prior to commencement of injection operations.

In support of this application Amoco hereby states and advises that the well(s) selected will be properly cased and cemented in such a manner that damage to fresh water, oil, gas or other mineral-bearing formations will not occur. Water analyses information for the Twin Creek, Nugget and Phosphoria Formations is attached for your review.

Amoco anticipates a maximum disposal rate of 5,000 barrels/water per day per well to be disposed of at a depth ranging between 7,000 feet and 13,500 feet (dependent upon the well(s) selected).

Division of Oil, Gas, and Mining  
Application for Subsurface Water Disposal Operations  
August 10, 1981  
Page Two

Further, the attached Verification and Affidavit, a part of this application, indicates that Amoco has furnished a copy of this application to all lessees of record within the Anschutz Ranch East Field and surrounding areas.

Should you have questions regarding the information contained herein, please contact Scheree Wilcox of this office at 272-9253.



Martin Zimmerman  
District Superintendent

Attachment

SW

VERIFICATION AND AFFIDAVIT

STATE OF UTAH            )  
                                  ):    SS  
COUNTY OF SALT LAKE )

I, Martin Zimmerman, of lawful age, being first duly sworn on his oath, deposes and says:

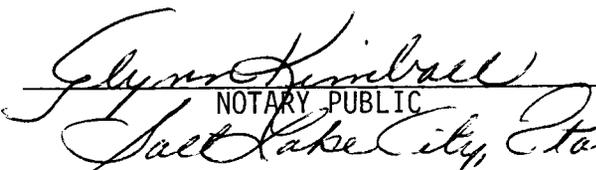
That he is employed as District Superintendent by Amoco Production Company in its Salt Lake District Office; and that Amoco's application for approval of subsurface disposal operations was prepared under his direction and supervision; that the matters and things therein set forth are true and correct to the best of his knowledge and belief; and that a copy thereof was sent by certified mail from Applicant's Salt Lake City, Utah office on August 12, 1981 to the following affected owners at the addresses shown herein, to wit:

See Attachment "A"

and to the best of his information, knowledge and belief, the owners above named are the only owners to whom notice of each application is required to be given in accordance with the General Rules and Regulations of the Division of Oil, Gas, and Mining.

  
\_\_\_\_\_  
Martin Zimmerman

Subscribed and sworn to before me this 10<sup>th</sup> day of August, 1981.

  
\_\_\_\_\_  
NOTARY PUBLIC  
Salt Lake City, Utah

My Commission Expires: 2-14-82



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

December 15, 1981

Amoco Production Company  
P.O. Box 17675  
Salt Lake City, Utah 84078

Re: See Attached

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing the forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

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

CARI FURSE  
CLERK TYPIST

Well No. Champlin 551-amoco B1  
Sec. 33, T. 3N, R. 4E  
Summit County, Utah  
(1981 monthlys)

Well No. Island Ranching #c-1  
Sec. 26, T. 4N, R. 7E  
Summit County, Utah  
(August - November)

Well No. Thousand Peaks Ranching WIU #1  
Sec. 32, T. 4N, R. 8E  
Summit County, Utah  
(April- November)

Well No. Champlin 458 Amoco "D" #2  
Sec. 29, T. 4N, R. 8E  
Summit County, Utah  
(August- November)

Well No. Champlin 846 Amoco A1  
Sec. 25, T. 5N, R. 7E  
Summit County  
SECOND NOTICE  
(May 1981- November 1981)

The Anschutz Corporation  
2400 Anaconda Tower  
555 - 17th Street  
Denver, Colorado 80202

Gulf Oil Exploration  
and Production Company  
P.O. Box 24100  
Oklahoma City, Oklahoma 73124

Tom Brown, Inc.  
P.O. Box 2608  
Midland, Texas 79701

BWAB Inc.  
3300 Anaconda Tower  
555 - 17th Street  
Denver, Colorado 80202

Champlin Petroleum Company  
P.O. Box 1257  
Englewood, Colorado 80150

Mesa Petroleum Company  
1660 Lincoln Street  
Suite 2800  
Denver, Colorado 80264



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

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

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

March 2, 1982

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

Re: Well No. Island Ranching "C" #1  
Sec. 26, T. 4N, R. 7E.  
Summit County, Utah  
(December 1981- February 1982)

Well No. Champlin 458 Amoco "D" #2  
Sec. 29, T. 4N, R. 8E  
Summit County, Utah  
(December 1981- February 1982)

Well No. Champlin 846 Amoco A1  
Sec. 25, T. 5N, R. 7E  
Summit County, Utah  
(December 1981- February 1982)

SECOND NOTICE ON ALL ABOVE WELLS

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

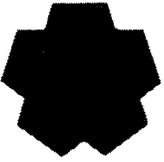
Your prompt attention to the above will be greatly appreciated.

Very truly yours.

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist





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

May 20, 1982

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

*Drilling Reports Attached*

Re: Well No. Island Ranching #C-1  
 Sec. 26, T. 4N, R. 7E.  
 Summit County, Utah  
 ( March- April 1982)

Well No. Champlin 846 Amoco A1  
 Sec. 25, T. 5N, R. 7E.  
 Summit County, Utah  
 (March- April 1982)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

\*\* If we do not hear from your office within fourteen days, this file will be turned over to the attorney at the Division of Oil, Gas and Mining for legal action.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

*Cari Furse*

Cari Furse  
 Clerk Typist

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

**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.)

1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <u>Water Disposal Well</u>		5. LEASE DESIGNATION AND SERIAL NO. <u>Fee</u>																				
2. NAME OF OPERATOR <u>AMOCO PRODUCTION COMPANY</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME																				
3. ADDRESS OF OPERATOR <u>P.O. Box 17675 Salt Lake City, Utah 84117</u>		7. UNIT AGREEMENT NAME																				
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>715' FNL &amp; 2342' FWL</u>		8. FARM OR LEASE NAME <u>Champlin 846 Amoco "A"</u>																				
14. PERMIT NO. <u>43-043-30100</u>	15. ELEVATIONS (Show <u>6662'</u> GR)	9. WELL NO. <u>#1</u>																				
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>																				
<table border="0"> <tr> <td colspan="2">NOTICE OF INTENTION TO:</td> <td colspan="2">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td>TEST WATER SHUT-OFF <input type="checkbox"/></td> <td>PULL OR ALTER CASING <input type="checkbox"/></td> <td>WATER SHUT-OFF <input type="checkbox"/></td> <td>REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input checked="" type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <u>REPORT OF OPERATIONS</u></td> <td></td> </tr> </table>		NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>REPORT OF OPERATIONS</u>		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA <u>Sec. 25, T5N, R7E</u>
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:																				
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>																			
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>																			
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>																			
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>REPORT OF OPERATIONS</u>																				
		12. COUNTY OR PARISH <u>Summit</u>																				
		13. STATE <u>Utah</u>																				

RECEIVED  
JUN 07 1982

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.)\*

Reference our Sundry Notice dated March 8, 1982, advising that the subject well was approved September 29, 1981 for conversion to water disposal.

At the present time, said well has not been converted and no operations have been conducted. Your office will be notified of any change in well status.

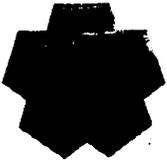
*Talked to Clerk  
6-10 abt sending  
in WC*

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

SIGNED [Signature] TITLE Administrative Supervisor DATE 6-3-82 ✓

(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

January 24, 1983

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

Re: Well No. Champlin 846 Amoco "A" #1  
Sec. 25, T. 5N, R. 7E.  
Summit County, Utah

Gentlemen:

Our records indicate that the above referenced well was temporarily abandoned as indicated on Sundry Notices and Reports on Well dated February 18, 1981; Notice of Intention to Temporarily Abandon and Isolate Open Perforations, and this status further substantiated by Sundry Notices and Reports on Wells dated April 10, 1981; Subsequent Reprot of Notice of Current Status.

Subsequent to these reports, administrative approval was granted on September 29, 1981, to convert the well to a water disposal well. We were advised by Sundry Notices and Reports on Wells dated June 3, 1982; Subsequent Report of Operations, that the well had not been converted to a water disposal well and that no operations had been conducted to date.

In lieu of the above information and the lack of any appreciable activity on the well, we request that Well Completion or Recompletion Report and Log, Form OGC-3, for this well, be promptly submitted. Various completion procedures and operations were submitted to and approved by the Division on Sundry Notices; however, the final Completion Report is necessary to complete our file requirement and comply with the applicable regulations.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

R. J. Firth  
Chief Petroleum Engineer

RJF/cf  
Enclosures

Champlin 846 Amoco "A" #1

ATTACHMENT "A"

31) Perforation Record:

6387' - 6410' w/4 JSPF  
6442' - 6476'  
6548' - 6571'  
6592' - 6598' w/2 JSPF  
6610' - 6696'  
10,044' - 10,120' w/2 JSPF  
10,964' - 10,980' w/2 JSPF  
11,020' - 11,032' w/2 JSPF  
11,984' - 12,002' w/2 JSPF  
  
12,150' - 12,160' w/2 JSPF  
12,184' - 12,196'  
12,270' - 12,300' w/2 JSPF  
12,325' - 12,338'  
12,604' - 12,644' w/2 JSPF  
12,654' - 12,680'  
12,725' - 12,742'  
14,990' - 15,010' w/2 JSPF  
15,090' - 15,130'  
15,163' - 15,173'  
15,280' - 15,285'  
  
15,974' - 15,995' w/2 JSPF  
16,085' - 16,120'  
16,150' - 16,170'

32) Acid, Shot, Fracture, Cement Squeeze, Etc.

acidized w/6000 gal. 28% HCL  
  
acidized w/12000 gal. 15% HCL  
  
acidized w/7600 gal. 15% HCL  
  
acidized w/2800 gal. 7 1/2% HCL  
  
acidized w/2000 gal. 15% HCL, cmt.  
sq. w/150 sx Class "G" cmt. cut 7"  
casing at 11,501' freepoint  
  
acidized w/2200 gal. 15% HCL  
  
acidized w/4300 gal. 15% HCL  
  
acidized w/8300 gal. 15% HCL  
  
acidized w/7500 gal. 15% HCL  
  
acidized w/9500 gal. 15% HCL

Cement Retainers Set At: 6502', 6605', 10,980', 11,840', 12,060', 12,250'

Cast Iron Bridge Plugs Set At: 9965 w/2 sx cmt; 11470' w/2 sx cmt;  
15,904' w/2 sx cmt.

Packers Set At: 11850', 12070', 14836', 15810' (model F)

SUBMIT IN DUPLICATE\*

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Hamplin 846 Amoco "A"

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Cave Creek Area

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

Sec. 25, T5N, R7E

12. COUNTY OR PARISH

Summit

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

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

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

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 715' FNL & 2342' FWL

At top prod. interval reported below

At total depth

*NE NW*

14. PERMIT NO. 43-043-30100 DATE ISSUED 5/22/79

15. DATE SPUNDED 11/16/79 16. DATE T.D. REACHED 7/18/80 17. DATE COMPL. (Ready to prod.) 2/18/81 TA 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 6720' GR 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 16,500' 21. PLUG BACK T.D., MD & TVD 6,605' 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY Surf. to TD 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* None 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL-SFL; DIL-MSFL; CBL; CNL-FDC; BHC-Sonic-GR; Cyberlook, Dipmeter 27. WAS WELL CORED Yes

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	133#-106#	1432'	26"	2600 sx	none
13 3/8"	72#-68#-84#	5760'	17 1/2"	2300 sx	none
9 5/8"	47#-43.5#-40#	11788'	12 1/4"	3430 sx	none
7"	32#-29#-26#	16500'	8 1/2"	750 sx	11,501'

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
none					none		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
none		

31. PERFORATION RECORD (Interval, size and number)  
See Attachment "A"

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	See Attachment "A"

33.\* PRODUCTION

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

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 Kenneth L. Perry TITLE Administrative Supervisor DATE 2/7/83

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





STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

September 9, 1983

Amoco Production Company  
P. O. Drawer 829  
Evanston, Wyoming 82930  
Att: Drilling Department

Re: Well No. Champlin 458 Amoco "B" # 1  
1993' FSL, 1841' FEL  
NE SW, Sec. 19, T. 3N, R. 8E.  
Summit County, Utah

Well No. Champlin 846 Amoco "A" # 1  
715' FNL, 2342' FWL  
NE NW, Sec. 25, T. 5N, R. 7E.  
Summit County, Utah

Gentlemen:

The above referred to wells have been currently under a temporarily abandoned status for six months or longer. Would you be kind enough to inform this office of a change in status, or let us know if they are still temporarily abandoned, submitted on a Sundry Notice (Form OGC-1B, enclosed).

If these wells have been completed as producing, shut-in, injection, gas storage or plugged and abandoned, please submit a Well Completion Form (OGC-3), stating the procedure of the completed operations.

Thank you for your prompt submittal to the above requested matter.

Respectfully,

DIVISION OF OIL, GAS AND MINING

*Cari Furse*

Cari Furse  
Well Records Specialist

CF/cf  
Enclosures



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

March 6, 1986

TO: Well File Memo  
FROM: J.R. Baza  
RE: Well No. Champlin 846 Amoco "A" 1, Sec.25, T.5N, R.7E,  
Summit County, Utah

This well is properly designated as temporarily abandoned. A Sundry Notice dated February 18, 1981, indicates that a CIBP was to be set in the well isolating the perforated interval. It is assumed that this work was performed even though no subsequent confirmation of the operation was submitted. A Well Completion Report dated February 7, 1983, verifies the date of temporary abandonment as February 18, 1981.

Included in the well file, there is an application and approval to convert the well no. Champlin 846 Amoco "B" 1A to a disposal well. There is no record of any such well in the same section and subsequent correspondence with Amoco indicates that they were referring to the subject well. The UIC program will be investigating whether a valid approval to convert to disposal exists and will determine if Amoco has further plans for this well. For the present, this well should remain in TA status.

sb  
0265T-25



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

October 5, 1987

Mr. Louis F. Lozzie  
Amoco Production Company  
Post Office Box 829  
Evanston, Wyoming 82930

Dear Mr. Lozzie:

Re: Champlin 846 Amoco A1 API # 43 043 30100 SEC 25 T05N R07E

The completion report for the above referenced well indicates that the well was cored. If a copy of the core analysis is still available, please send it to us for our records.

We appreciate your special efforts to work with our agency, and any communications in response to this request should be sent to my attention.

Respectfully,

A handwritten signature in black ink, appearing to read "Norman C. Stout".

Norman C. Stout  
Records Manager, Oil, & Gas

vlc  
cc: Dianne R. Nielson  
Ronald J. Firth  
Suspense File  
0511S-43



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

## INTER-OFFICE CORRESPONDENCE

TO: OVERTHRUST DRILLING FOREMEN

OFFICE: MS 3605

FROM: K. Ackal

DATE: 05-05-95

SUBJECT: DRILLING PROGRAM: Champlin 846 Amoco A#1  
Cave Creek Field

SURFACE LOCATION: 400' FNL & 2300' FWL SECTION 25, T5N, R7E  
BOTTOM HOLE LOCATION: 2045' FNL & 460' FEL SECTION 25, T5N, R7E

COUNTY: Summit, Utah

PROPOSED DEPTH: 12850' MD/11800' TVD

AFE:

GRND ELEVATION: 6662.0'

DHC: \$4,260 M

KB ELEVATION: 6682.0'

CHC: \$5,946 M

API NUMBER: 43-043-30100

### ESTIMATED TOPS OF GEOLOGICAL MARKERS:

<u>Formation</u>	<u>KB Depth (TVD)</u>	<u>KB Depth (MD)</u>	<u>Subsea Depth</u>
Preuss	3824'	3824'	+ 2858'
Top Salt	4968'	4968'	+ 1714'
Twin Creek	5634'	5634'	+ 1048'
Nugget	7304'	7304'	- 620'
Ankerah	8283'	8316'	- 1634'
Thaynes	9193'	9447'	- 2765'
Woodside	10483'	11127'	- 4445'
Phosphoria	11223'	12091'	- 5409'
Weber	11693'	12691'	- 6009'
TD	11800'	12843'	- 6161'

### CASING PROGRAM:

<u>Hole Size</u>	<u>Setting Depth (Measured Depth)</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Condition</u>
* 26"	1,438'	20"	106.5#	K-55	BTC	Used
* 17-1/2"	3,376'	13-3/8"	68.0#	K-55	BTC	Used
* 17-1/2"	4,766'	13-3/8"	72.0#	L-80	BTC	Used
* 17-1/2"	5,750'	13-5/8"	88.2#	L-80	BTC	Used
* 12-1/4"	7,300'	9-5/8"	47.0#	SS-95	LTC	Used
8-1/2"	12,843'	7"	32.0 #	L-80	AB-MOD	New

\* Casing strings already in place.



Champlin 846 Amoco A#1  
 Cave Creek Field  
 Sec 25, T5N, R7E  
 Page 2

**DIRECTIONAL PLAN:**

Set 9-5/8" whipstock @ ±7,300'. Mill window and kick off, building 2.5°/100' to 40° in a S57.5°E direction. Maintain angle and direction to a total depth of 12,843' MD/11,800' TVD.

**CEMENTING PROGRAM:**

Conductor ..... Cemented in place  
 20"  
 Surface ..... Cemented in place  
 13-3/8"  
 Intermediate ..... Cemented in place  
 9-5/8"  
 Intermediate ..... Cemented in place  
 7"  
 Production ..... 540 ft<sup>3</sup> Class "G" + additives  
 (provides 2843' coverage w/ 50% excess in open hole )

**MUD PROGRAM:**

<u>Interval</u>	<u>Mud Weight PPG</u>	<u>Viscosity SEC</u>	<u>Fluid Loss (cc)</u>	<u>Remarks</u>
7,300' -12,843'	8.9-9.4	35-40	8-10	LSND

**ANTICIPATED FORMATIONS FOR WATER, OIL, GAS, AND OTHER MINERALS:**

<u>Mineral</u>	<u>Formation</u>	<u>Depth</u>
Gas	Twin Creek	5,634'
Gas	Phosphoria	11,223'
Gas	Weber	11,683'
Fresh Water	Fresh water aquifers have been protected with surface casing set at 1438'.	



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

Champlin 846 Amoco A#1  
Cave Creek Field  
Sec 25, T5N, R7E  
Page 3

### TESTING, LOGGING, CORING PROGRAMS:

Cores-DSTs: None

Surveys: MWD surveys to be taken every 90'.

Mud Logger: From 7,300' to TD.

Logging: TD @ 12,843'

DIL-Sonic-GR .....	To 7,300' (window)
FDC-CNL-GR .....	To 7,300'
Dipmeter .....	To 7,300'

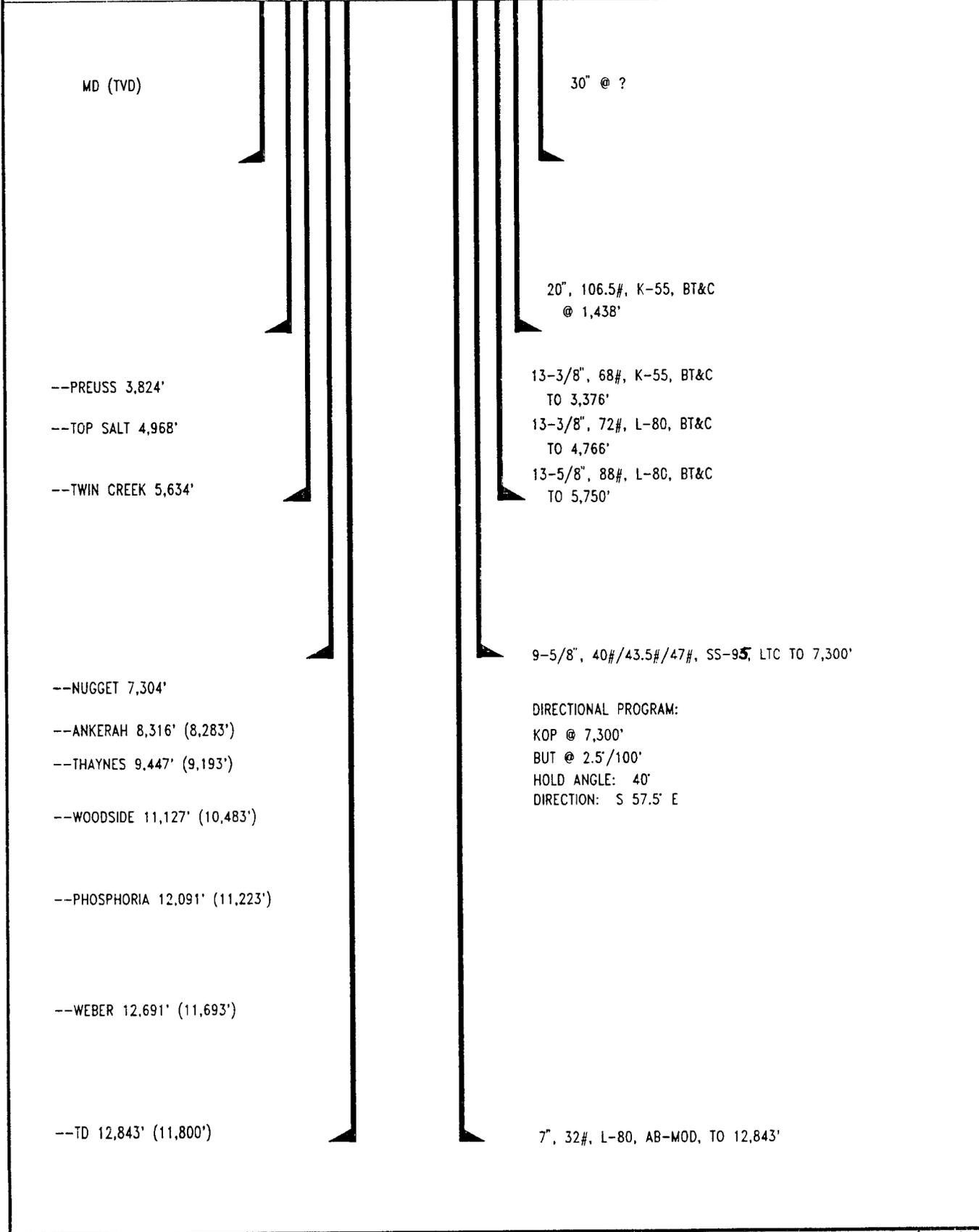
### BOP PROGRAM:

<u>Casing Size / Wellhead</u>	<u>BOP Size/ Pressure Rating</u>	<u>Max Anticipated Surface Pressure</u>	<u>Test Pressure</u>
9-5/8" /	13-5/8	4200 psi	
13-5/8" 5M x	3000 psi annular		250-1500 psi
11" 5M psi	5000 psi pipe rams		250-5000 psi
	5000 psi blind rams		250-5000 psi
	5000 psi pipe rams		250-5000 psi
	5000 psi manifold		250-5000 psi
	& valves		

# UNION PACIFIC RESOURCES COMPANY

## PROPOSED WELLBORE SCHEMATIC

SL: 400' FNL & 2,300' FWL SEC: 25, T5N, R7E	CHAMPLIN 846 AMOCO A #1	SUMMIT COUNTY, UTAH
BHL: 2,045' FNL & 460' FWL SEC: 25, T5N, R7E	CAVE CREEK FIELD	GROUND ELEVATION: 6,662'

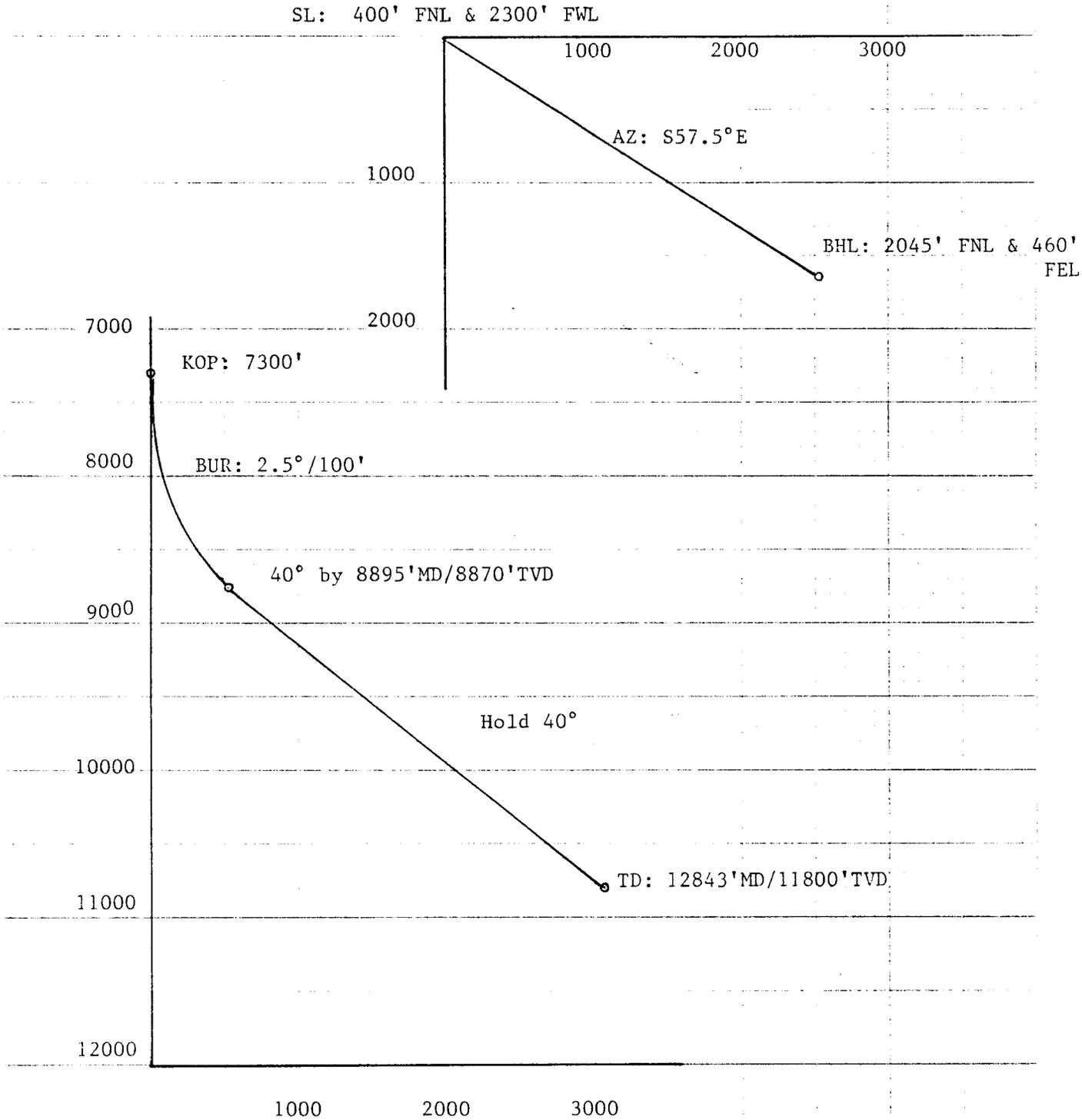


UNION PACIFIC RESOURCES COMPANY

Champlin 846 Amoco A #1

Sec 25 - T5N - R7E

Summit Co., Utah





**H<sub>2</sub>S CONTINGENCY PLAN**  
**FOR**  
**UNION PACIFIC RESOURCES COMPANY**

**UPRC CCD 846A-1R**  
**(Cave Creek Deep)**

**Section 25, T. 5 N., R. 7 E.**  
**Summit County, Utah**

**Union Pacific Resources Company**  
**P. O. Box 7**  
**Fort Worth, Texas 76101-0007**  
**(817) 877-6000**

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Appendix C	General Information Concerning H <sub>2</sub> S/SO <sub>2</sub>

# **UNION PACIFIC RESOURCES COMPANY**

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

### **UPRC CCD 19-1**

#### **Summit County, Utah**

## **I. INTRODUCTION**

It is Union Pacific Resources Company (UPRC) policy to conduct its business responsibly by providing employees a safe place to work, by making a good faith effort to comply with laws and regulations relative to occupational safety and health issues and to manage risk in the absence of regulatory requirements. UPRC is committed to establishing a leadership position in managing occupational health and safety affairs.

The following is a detailed and systematic H<sub>2</sub>S Contingency Plan dealing specifically with the CCD 19-1 (Cave Creek Deep) well located in Section 19, T. 5 N., R. 8 E., Summit County, Utah.

The plan encompasses aspects of on-site training, procedures used during an H<sub>2</sub>S related emergency as well as resident notification and evacuation. Used in conjunction with appropriate charts and maps, it provides guidance to employees, government agencies, contractors, law enforcement, fire departments, and emergency medical services with a workable and efficient system of communication in an emergency situation.

In the event of a release of potentially hazardous quantity of H<sub>2</sub>S, all personnel will immediately proceed upwind to the nearest designated safe area and be prepared to don their protective breathing equipment. The UPRC Representative will immediately, upon assessing the situation, set this plan into action by taking the proper procedures to contain the gas and to notify the appropriate people and agencies. If a UPRC representative is not on the location or unable to carry out his/her duties, the responsibility will be given to the Rig Supervisor. All personnel on location will understand and readily adhere to this plan.

### **DIRECTIONS TO LOCATION - CCD 19-1 WELL**

Beginning at the Evanston exit from I-80 West in Evanston, Wyoming, proceed south on Yellow Creek Road (County Road 151), a distance of 9.0 miles. Turn right (west) through a gate bearing an Anschutz Cave Creek sign and proceed along a dirt road approximately 2.0 miles to the location on the left (east) side of the dirt road.

## **II. RESPONSIBILITIES AND DUTIES**

In order to assure proper execution of this H<sub>2</sub>S contingency plan, it is essential that one person be responsible for, and in charge of, implementing the following procedures. The order of responsibility is as follows:

1. UPRC Representative on location. If he/she is unable to perform his/her duties,
2. Alternate UPRC Representative. If he/she is unable to perform his/her duties,
3. Rig Supervisor. If he/she is unable to perform his/her duties,
4. Safety Consultant Representative, if available.

### **A. General**

1. Always be alert for possible detection of H<sub>2</sub>S
2. Listen for announcements - voice, horn or other. Watch for visible warning system.
3. Be familiar with location of Safe Briefing Areas and protective breathing apparatuses.
4. Don't panic - remain calm and follow instructions of person in charge.
5. Familiarize yourself with nearest escape route of possible evacuation.
6. Be aware of the wind direction at all times - observe wind direction indicators.
7. If the H<sub>2</sub>S alarm sounds:
  - a. Non-essential personnel shall evacuate to a safe area and essential personnel shall don the appropriate respiratory equipment. Continue to wear respiratory equipment until the area is deemed safe (H<sub>2</sub>S concentration <10 PPM).
  - b. Initiate well control if necessary.
  - c. Initiate rescue procedures if applicable.
8. Any questions from media representatives should be directed to a UPRC company representative.

**B. UPRC Representative/Drilling Foreman**

1. The UPRC Representative is responsible for declaring an extreme danger condition and for taking whatever action is deemed necessary in an emergency situation to insure the personnel's safety, to protect the well, and to prevent property damage.
2. It is the responsibility of the UPRC Representative to see that all safety and emergency procedures are observed by all personnel at all times.
3. The UPRC Representative will keep the number of personnel on the rig floor to a minimum during an extreme H<sub>2</sub>S condition.
4. The UPRC Representative shall be trained in the proper use of personnel safety equipment and be thoroughly knowledgeable of other equipment and materials necessary to control and contain releases of H<sub>2</sub>S gas.
5. When an extreme danger exists H<sub>2</sub>S, the UPRC Representative will be responsible for the following:
  - a. Assess the situation and advise all personnel by appropriate means of communication.
  - b. Go to Safe Briefing Area (SBA), ensure the SBA is free of H<sub>2</sub>S, and give clear instructions relative to the hazardous nature of the situation.
  - c. Display the operational warning signs.
  - d. Notify Area Superintendent/Foreman and Safety Consultant if applicable.
  - e. Proceed to rig floor and supervise operations with Rig Supervisor and direct corrective actions to control the flow of gas if possible.
  - f. Maintain 24-hour availability.
  - g. Check H<sub>2</sub>S scavenging chemical in mud, if applicable, and if necessary, add chemicals.
  - h. Make sure all non-essential personnel are in a safe gas-free area. Non-working personnel should be in the designated SBA.
  - i. Essential working personnel will have protective equipment on and in use (extreme danger classification).

- j. Commence ignition procedures if the ignition criteria are met (Refer to Section VII).
  - k. Responsible for contacting Emergency Services (i.e. Sheriff, Ambulance, Fire Department, etc.).
  - l. Responsible for notifying regulatory agencies.
- 6. Ensure all non-working personnel, visitors, vendor, etc. have proper orientation concerning emergency procedures.
  - 7. Responsible for authorizing the evacuation of persons or local residents if their safety is threatened by H<sub>2</sub>S.
  - 8. All questions from the media should be directed to the Public Affairs Department.

**C. Rig Supervisor**

- 1. If the UPRC Representative is unable to perform his/her duties or the alternate UPRC Representative is not available, the Rig Supervisor will assume command of wellsite operations and all responsibilities listed above.
- 2. Ensure that all rig personnel are properly trained to work in a H<sub>2</sub>S environment and fully understand purpose of detection and alarms, prevailing winds, buddy system, briefing areas, warning systems and evacuation procedures.
- 3. When an operational condition exists that is classified as extreme danger (H<sub>2</sub>S > 10 PPM), the Rig Supervisor is responsible for assisting the UPRC Representative in the following:
  - a. Proceeding to the rig floor and assist in supervision rig operations.
  - b. Ensuring that only working personnel necessary to carry on operations remain in the danger area.
  - c. Ensuring that all crew members remaining in the vicinity of the rig have breathing apparatus available and ready for immediate use if necessary.
  - d. Assisting in controlling flow of H<sub>2</sub>S.
  - e. Checking H<sub>2</sub>S scavenging chemicals in mud, if applicable, and adding chemicals if necessary.

- f. Assigning a crew member to block the entrance to the location. No unauthorized personnel will be allowed entry to the location.
- g. Determining danger zones with portable gas detectors and positioning fans to reduce H<sub>2</sub>S concentrations.

If the UPRC Representative or alternate is not available, the Rig Supervisor will be responsible for implementing all parts of this plan.

#### **D. Safety Consultant**

1. During normal drilling operations (no H<sub>2</sub>S present), the Safety Consultant will be responsible for the following:
  - a. Ensure wellsite safety equipment is in place and operational.
  - b. Ensure wellsite personnel are familiar with location and operation of safety equipment.
2. When an operation condition is classified as extreme danger, the Safety Consultant will be responsible for the following:
  - a. Account for all wellsite personnel.
  - b. Assess any injuries and direct first aid measures.
  - c. Ensure safety and monitoring equipment is functioning properly.
  - d. Monitor safety of wellsite personnel.
  - e. Maintain close communication with UPRC Representative.
  - f. Maintain 24-hour availability.
  - g. Prepare to assist UPRC Representative with ignition procedures if necessary.
  - h. Assist in evacuation of residents if necessary.
3. In case of an emergency, and in the absence of UPRC Representative or alternate or Rig Supervisor, Safety Consultant will assume all responsibility of safety to immediate personnel and to public safety by implementing all applicable parts of this H<sub>2</sub>S Contingency Play.

**E. Area Superintendent**

1. Responsible for notifying and maintaining contact with Area Production Manager.
2. Maintain communication with Production Foreman.
3. Travel to wellsite if necessary.
4. Assist Production Foreman in making necessary contact to Regulatory Agencies and UPRC Public Relations Department.

**III. DRILLING RIG LAYOUT**

**A. Location**

1. The Drilling Rig will be situated on location such that prevailing winds blow across the rig toward the mud circulation tanks at right angles to a line from the rig to the circulation tank.
2. The Entrance to the location is designed so that it can be barricaded if a H<sub>2</sub>S emergency condition arises. An auxiliary exit, or entrance, will be available so that in case of emergency, a shift in wind direction will not preclude escape from the location.
3. A minimum of two briefing areas shall be designated for assembly of personnel during emergency conditions, located a minimum of 150 feet or as practical from the wellbore and in such a location that at least one area will be upwind of the well at all times. Upon recognition of an emergency situation, all personnel should assemble at the designated briefing area for instructions.
4. Appropriate smoking area will be designated. Smoking elsewhere is prohibited.
5. Reliable 24-hour radio and/or telephone communications will be available at the drilling rig.

**B. H<sub>2</sub>S Detection Equipment**

1. The drilling rig shall have a H<sub>2</sub>S detection and monitoring system that automatically activates a visible alarm when H<sub>2</sub>S concentrations reach 10 PPM and an audible alarm when airborne H<sub>2</sub>S concentrations reach levels of 15 PPM.
2. H<sub>2</sub>S sensors shall be located at the wellbore, the shale shaker, the rig floor and the mud mixing area.

3. Detection equipment shall be properly calibrated as recommended by the manufacturer. All Calibration and bump test results will be recorded in the daily driller's report.
4. Rig crews will participate in H<sub>2</sub>S/BOP drills at least once per week. The drill will be recorded in the daily driller's report.

**C. Wind Direction Indicator**

At least three wind direction windsocks will be on location. They shall be visible from all principal working areas on location. In addition, a wind direction indicator shall be placed at or near each of the two briefing areas if the windsocks described above are not visible from these areas. One wind sock will be on the rig floor to be visible for all personnel working on the rig floor.

**D. Respiratory Equipment**

1. All respiratory equipment will be pressure demand and will be approved by MSHA/NIOSH.
2. There will be at least 12 self-contained breathing apparatuses (SCBA's) on location at all times.
3. There will be 10 work-line masks with egress bottles on site at all times to allow the crew to perform their duties in a contaminated atmosphere.

**IV. SAFETY PROCEDURES**

**A. Training**

All personnel which come on the location must be properly H<sub>2</sub>S trained. The general training requirements shall cover, but not be limited to, the following:

1. Hazards associated with H<sub>2</sub>S/SO<sub>2</sub> gas
2. Proper use and care of personal protective equipment (PPE)
3. Detection equipment
4. First Aid/CPR
5. Wellsite Planning

6. Work practices to reduce H<sub>2</sub>S exposure
7. Evacuation procedures
8. Buddy system

**B. Operating Conditions**

Operating conditions will be posted on warning signs at all entrances to the location and are defined as follows:

1. **CONDITION GREEN** - normal operations
2. **CONDITION YELLOW - CAUTION** - H<sub>2</sub>S may be present under 10 PPM
3. **CONDITION RED - EXTREME DANGER** - atmospheric concentrations of H<sub>2</sub>S exceed PPM; **FLASHING STROBE LIGHT**

**C. Evacuation Plan**

1. Any evacuation will be conducted with and coordinated by the County Sheriff and supported by the State Highway Patrol.
2. The included maps detail the area of the wellsite, including the inventory of public present within the radius of exposure of the well.
3. Evacuation procedures will follow appropriate consideration for wind conditions and direction.
4. Other supplemental contractors will be contacted and called in as needed.

**D. Emergency Rescue Procedures**

Wellsite personnel should not attempt emergency rescues unless they have been properly trained. However, if you are properly trained in rescue procedures and you discover a person who has been overcome by H<sub>2</sub>S, **do not attempt a rescue without donning the proper breathing equipment**. When making an emergency rescue, use the following procedures:

1. Don appropriate breathing apparatus before attempting the rescue.
2. Remove the victim from contaminated area to a safe area with fresh air by moving crosswind and then upwind.

3. If the person is not breathing, begin mouth-to mouth- resuscitation immediately and continue until normal breathing has been restored, or until medical attention is obtained. Administer cardiopulmonary resuscitation (CPR) if necessary. When possible, replace mouth-to-mouth with a bag mask or automatic resuscitator. Administer oxygen to the victim if possible.
4. Treat for shock, keep the person warm and calm.. Never leave the person alone.
5. All persons who are rendered unconscious must be taken to a hospital for examination.

**E. Buddy System**

The buddy system requires an additional person or “buddy” while one or more persons are working where H<sub>2</sub>S concentrations exceed, or may exceed, 300 PPM. This additional person would maintain visual and/or audible contact in a safe area, supplied with an independent air supply, and equipped with a SCBA.

**V. EMERGENCY TELEPHONE DIRECTORY**

**A. Corporate**

Union Pacific Resources Company (817) 877-6000  
 801 Cherry Street  
 Fort Worth, Texas 76101

<u>Title</u>	<u>Name</u>	<u>Telephone Number</u>
Drilling Superintendent	Kalil Ackal	Work (817) 877-7695 Home (817) 481-7368 Mobil (817) 832-1931
Senior Drilling Foreman	Lyle Woelich	Work (307) 237-8039 Home (307) 234-9432 Mobil (307) 262-1261
Operations Superintendent	Pete Straub	Work (307) 789-1573 Home (307) 789-1576 Mobil (307) 799-7848
Safety Department (Fort Worth)	Joe Gray	Work (817) 877-7018 Home (817) 236-8418

Safety Department (Rock Springs)	Kevin McDermott	Work (307) 352-6000 Home (307) 362-6717
Public Relations (Fort Worth)	Jim Sailor	Work (817) 877-7527 Home (817) 477-2333
Regulatory (Fort Worth)	Bill Brazelton	Work (817) 877-7952 Home (817)238-8445

**B. Government Agencies**

Utah Department of Natural Resources Division of Oil, Gas and Mining Salt Lake City, Utah	(801) 538-5340
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Bureau of Land Management U. S. Department of the Interior Utah State Office Salt Lake City, Utah	(801) 977-4300
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**C. Law Enforcement Agencies**

Police Department - Evanston, WY	911, or (307) 789-2331
----------------------------------	---------------------------

Sheriff's Department - Summit County, Utah	(810) 336-4461
--	----------------

Utah Highway Patrol	(801) 965-4089
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**D. Fire Department**

Fire Department - Evanston/Uinta County, Wyoming	911, or (307) 789-2331
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**E. Ambulance Services**

Uinta County, Wyoming	911, or (307) 789-2331
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**F. Hospital**

IHC Memorial Hospital - Evanston, Wyoming	(307) 789-3636
---	----------------

**G. Safety Consultant**

Inter-Mountain Safety Co., Inc.

(307) 789-3882

**VI. Safety Equipment**

<u>Item</u>	<u>Amount</u>	<u>Description</u>
1.	10	Cascade air supply system with (300 cubic feet cylinders
2.	750 Ft.	Low pressure air line hose for each work unit/Ska-pak, length of hose not to exceed 250 feet per unit. Sufficient air hose to supply breathing air to the rig floor, substructure, derrick, shale shaker area and other essential work areas.
3.	5	Low pressure manifolds
4.	10	Scott Ska-Paks
5.	12	Self contained breathing apparatuses (SCBA)
6.	3	Wind Indicators
7.	1	36-unit first aid kit
8.	1	Manual bag-mask resuscitator with spare oxygen bottle
9.	2	Fire extinguisher - 30# cartridge
10.	1	Well condition sign with three-color flag warning system
11.	1	Stokes stretcher
12.	2	Bug blower
13.	2	Briefing area sign
14.	2	Manual pump type gas detector with ample supply of H <sub>2</sub> S/SO <sub>2</sub> detector tubes

- |     |   |   |
|-----|---|---|
| 15. | 1 | Portable combustible gas detector (explosiometer)   |
| 16. | 2 | Flare gun with flares for ignition  |
| 17. | 2 | 500 feet of resistant retrieval rope  |
| 18. | 1 | Automatic fixed electronic H <sub>2</sub> S monitoring system with visible and audible alarms - 4 channel |
| 19. | 6 | Battery powered voice mikes   |

**VII. IGNITION PROCEDURES**

**A. Ignition Criteria**

If it is apparent that the H<sub>2</sub>S gas being released may endanger the health and safety of the public or wellsite personnel or cause serious environmental contamination, the UPRC Representative will ignite the gas cloud.

**B. Ignition Equipment**

The following equipment will be available and onsite for use by ignition team personnel:

- 2 - Flare gun with two (2) dozen flares
- 2 - 500-foot resistant retrieval rope
- 1 - Portable combustible gas detector
- 3 - SCBA's for ignition team (minimum number)
- 1 - Backup vehicle with communication equipment (two-way radio, etc.)

**C. Ignition Procedure**

The UPRC Representative , or alternate, will ensure that wellsite personnel are evacuated to a safe location upwind of the well. The UPRC Representative will then proceed with the following ignition procedure:

1. The UPRC Representative and a designated assistant, either Rig Supervisor or Safety Consultant, backed up by one or two designated wellsite personnel with comprise the ignition team.

2. The backup member(s) will be position by a radio-equipped vehicle at a safe distance from the H<sub>2</sub>S gas release. They will standby to rescue the UPRC Representative and assistant with retrieval ropes if necessary.
3. The assistant of the team will carry an explosiometer and will continuously monitor the area for indications of explosive atmospheric conditions.
4. The UPRC Representative will carry the flare gun (unloaded). Flare shells are to be carried in a separate container, not in pants pocket.
5. The ignition team will determine the hazardous area (10% of lower flammable explosive limit) and establish safe perimeters. Once the perimeters have been established, the ignition team should move upwind from the defined perimeter of f the H<sub>2</sub>S gas leak and fire a flare into the area. If the leak does not ignite on the first attempt, the ignition team will move 20 to 30 feet closer to the leak and fire another flare. If trouble is incurred in igniting the gas, attempt to fire a flare at 40<sup>o</sup> to 90<sup>o</sup> to either side of the area where you have been attempting to flare.

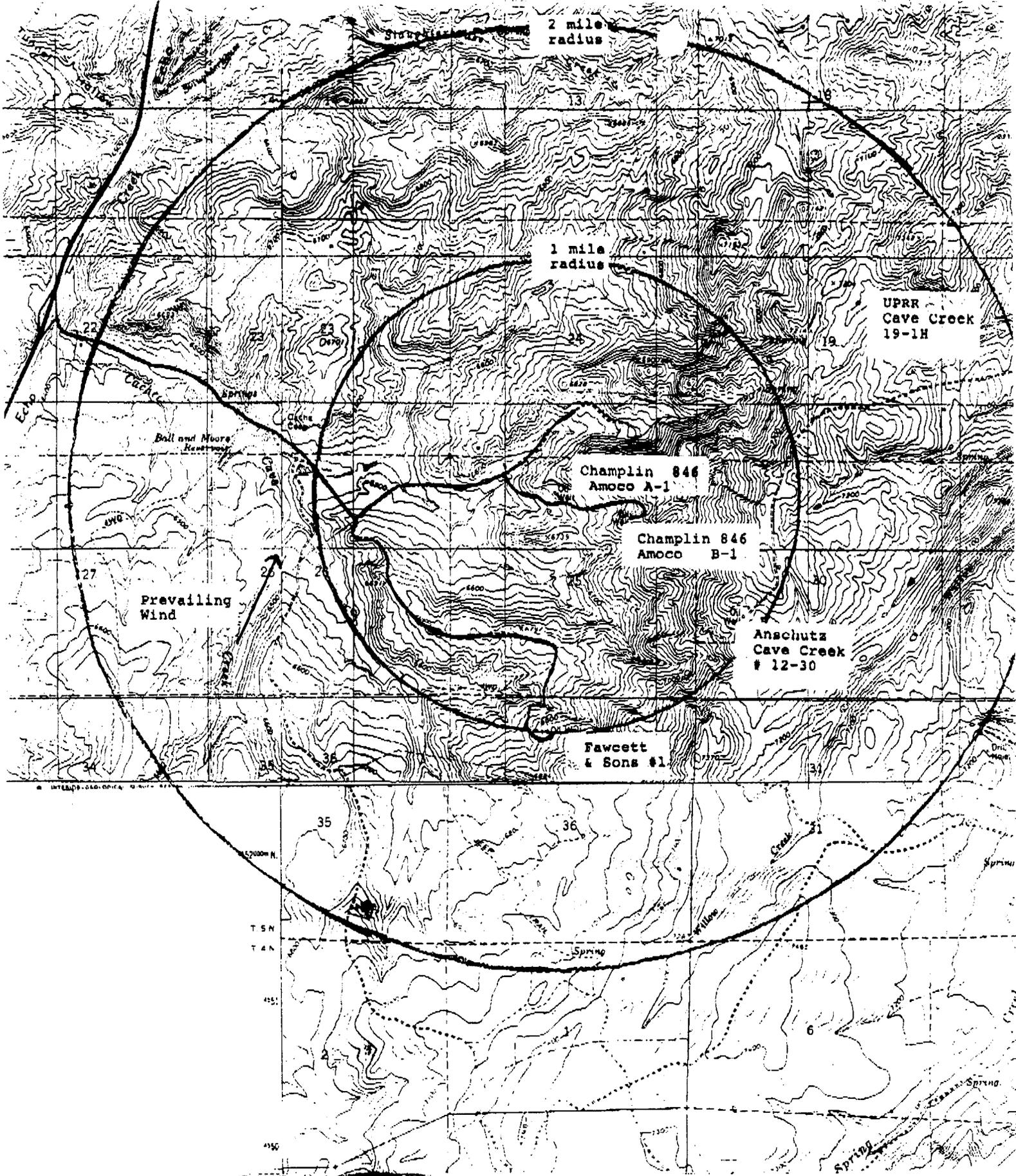
#### VIII. RESIDENT LISTING/LOCATION

(Please refer to accompany map)

<u>Map Reference</u>	<u>Resident Name</u>	<u>Number of Persons</u>	<u>Contact and Telephone Number</u>
Richardson Champlin 846 B-1	Richardson Oil Co.	1-2	Dave Olree (pumper) Office (307) 783-29982 Home (307) 789-2426
Compressor Operator	Halliburton Energy	1	Rock Spring, Wyoming Office (307) 362-4421 (24-hour)
Cave Creek #12-30-	Anschutz Corporation		
Pumper	Questar Pipeline	1-2	Jim Mathson (Foreman) Office (307) 789-6395 243-hour control (801) 534-5626
Compressor Operator	Production Operators Inc.	1-2	Dennis Morgan (Foreman) Office (307) 789-5331
Dehy Operator	Questar Pipeline	1-2	Jim Mathson (Foreman) Office (307) 789-6395

There are no residences located within a 1-mile radius of the well.

**Appendix A**  
**Location Map of UPRC CCD 846A-1R**  
**and**  
**Surrounding Wells Within a One-Mile Radius**



2 mile radius

1 mile radius

UPRR  
Cave Creek  
19-1H

Champlin 846  
Amoco A-1

Champlin 846  
Amoco B-1

Anschutz  
Cave Creek  
# 12-30

Fawcett  
& Sons #1

Prevailing  
Wind

520000 N

T 5 N

T 4 N

4551

450

35

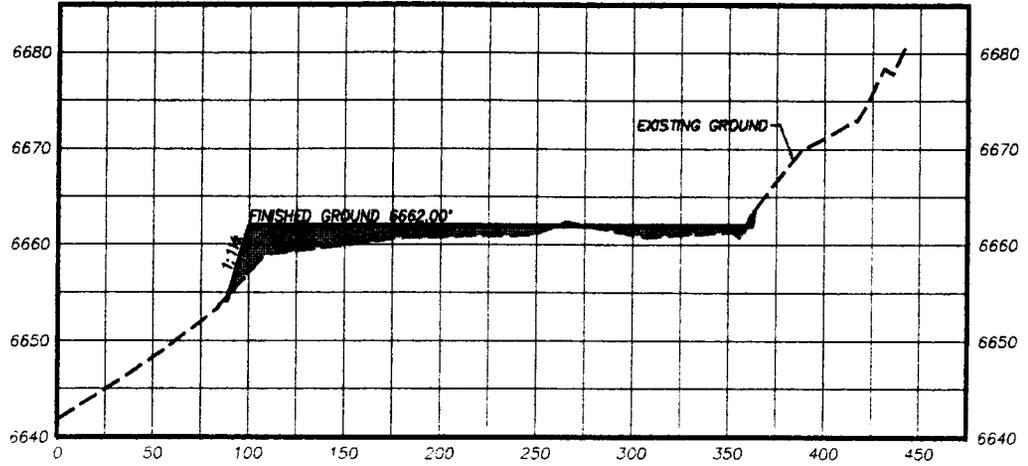
36

6

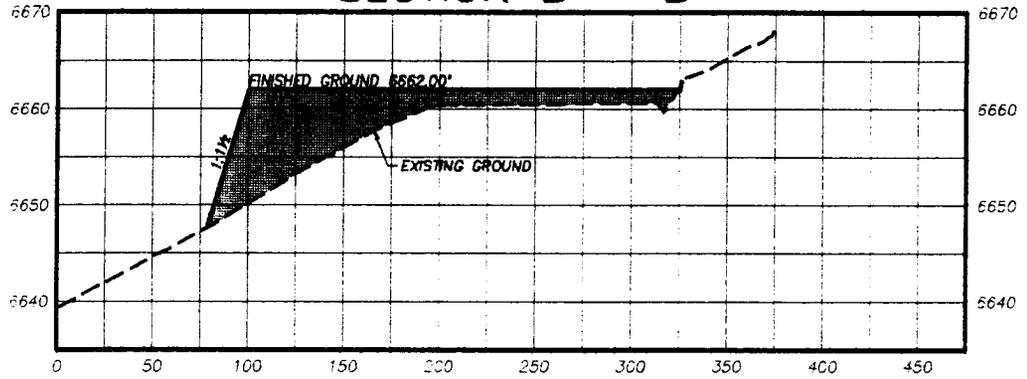
Spring

Spring

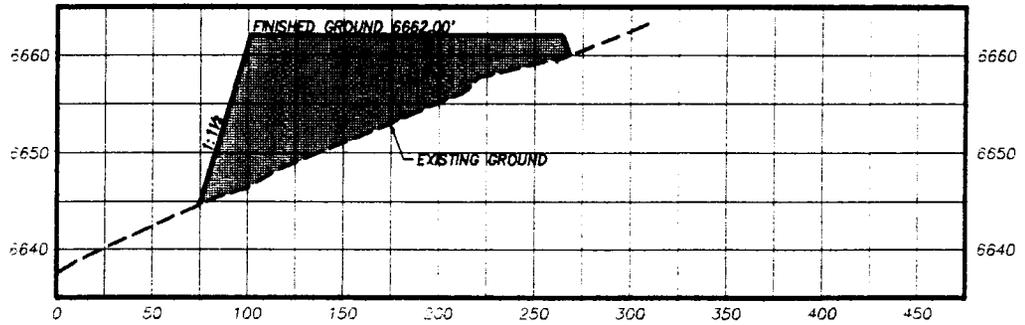
### SECTION C - C



### SECTION B - B



### SECTION A - A



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

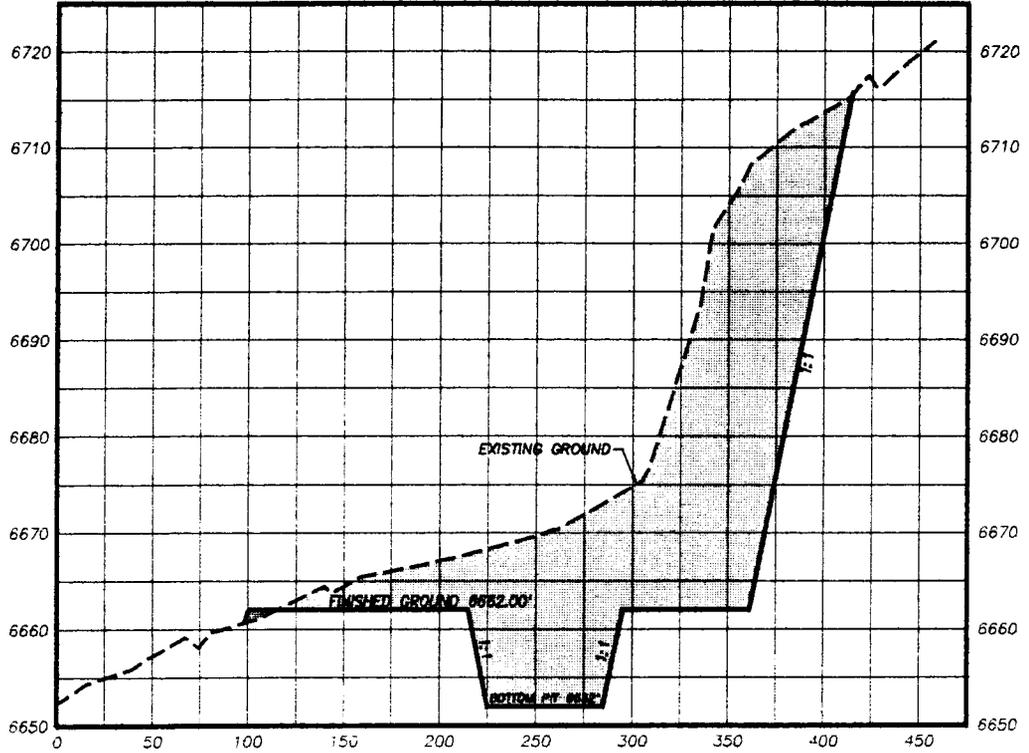
DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

SCALE:  
HORIZ: 1" = 100'  
VERT: 1" = 20'  
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

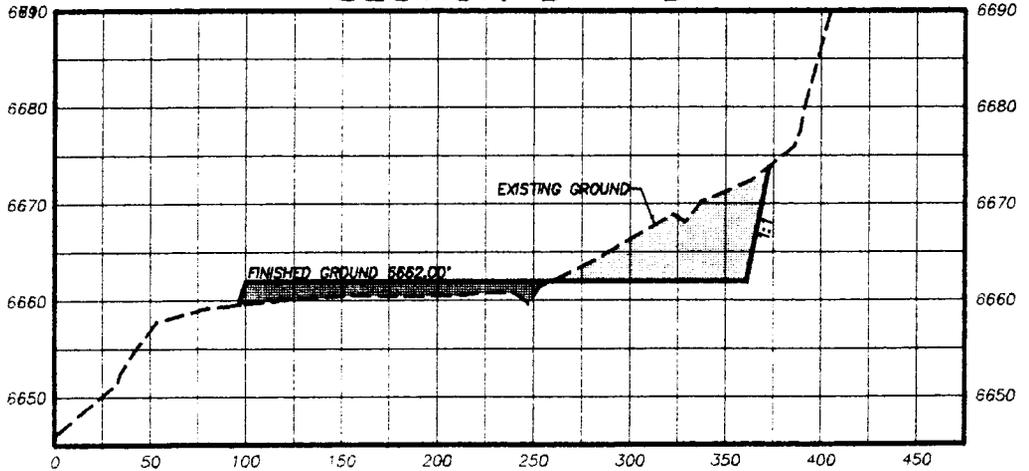
DRAWN BY: Brent Sanders

SHEET 3 OF 5

**SECTION E - E**



**SECTION D - D**



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN By: Brent Sanders

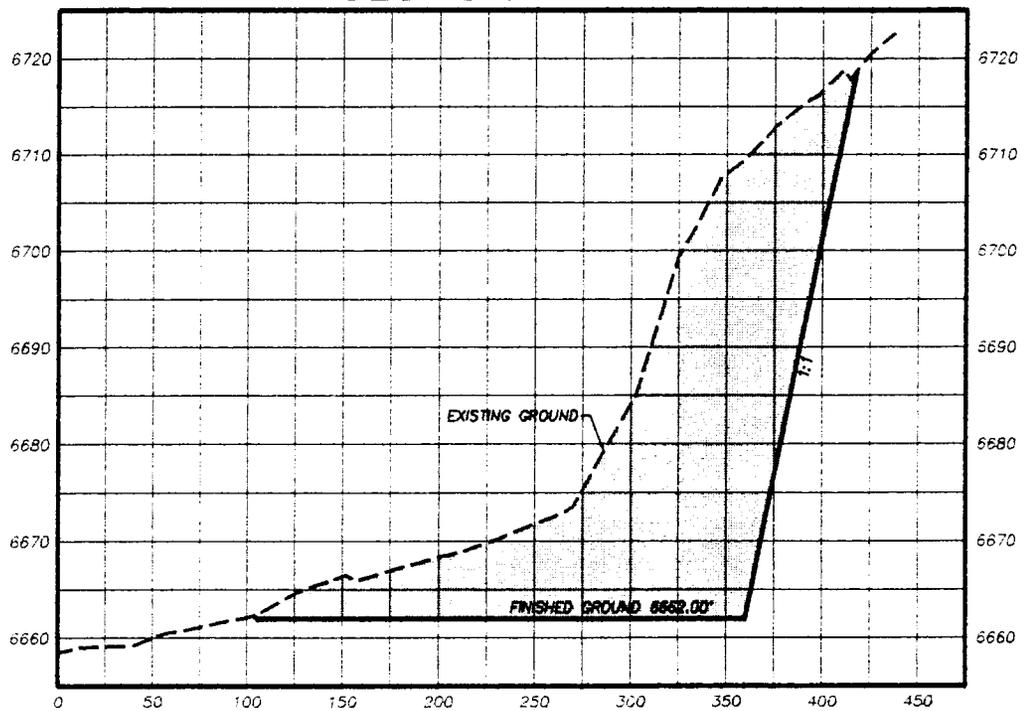
SHEET 4 OF 5

**SCALE:**

HORIZ: 1" = 100'  
VERT: 1" = 20'

ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

**SECTION F - F**



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 08/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

SCALE:  
HORIZ: 1" = 100'  
VERT: 1" = 20'

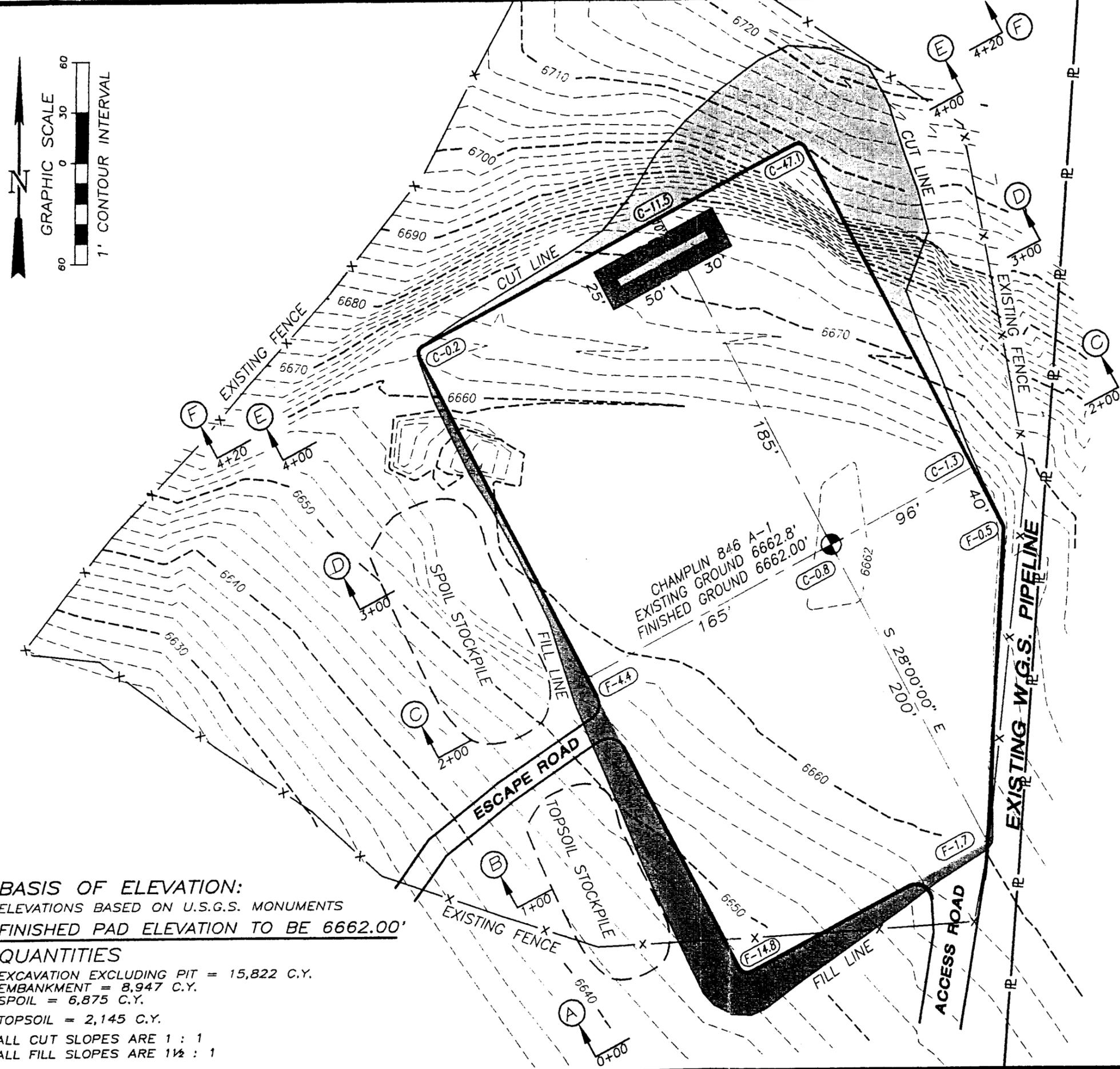
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

DRAWN BY: Brent Sanders

SHEET 5 OF 5



**NOTE:**  
THE LOCATION OF THE W.G.S. PIPELINE IS TO BE MARKED PRIOR TO CONSTRUCTION.



**BASIS OF ELEVATION:**  
ELEVATIONS BASED ON U.S.G.S. MONUMENTS  
FINISHED PAD ELEVATION TO BE 6662.00'

**QUANTITIES**  
EXCAVATION EXCLUDING PIT = 15,822 C.Y.  
EMBANKMENT = 8,947 C.Y.  
SPOIL = 6,875 C.Y.  
TOPSOIL = 2,145 C.Y.  
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1½ : 1

**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602  
DATE: 08/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

**Appendix B**  
**Resident Location Map**

**There are no residences located within a one-mile radius of the  
UPRC CCD 846A-1R location**

## **Appendix C**

### **General Information Concerning H<sub>2</sub>S/SO<sub>2</sub>**

**CHARACTERISTICS**  
**OF**  
**HYDROGEN SULFIDE (H<sub>2</sub>S)**  
**AND**  
**SULFUR DIOXIDE (SO<sub>2</sub>)**

Hydrogen sulfide (H<sub>2</sub>S) is a highly toxic gas which, when inhaled in relatively low concentrations, can rapidly cause death. It is also highly flammable being classified by the U. S. Department of Transportation as a flammable compressed gas. Certain concentrations in air can burn upon ignition.

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

H<sub>2</sub>S is extremely toxic. The acceptable ceiling concentration for an eight-hour exposure, according to ACGIH and government standards, is 10 parts per million (PPM) which is 0.001 percent by volume.

H<sub>2</sub>S is heavier than air (Specific Gravity = 1.19) and colorless. It forms a flammable mixture with air between 4.3 percent and 46 percent by volume, and burns to produce sulfur dioxide (SO<sub>2</sub>). SO<sub>2</sub> is considered by NIOSH to be hazardous to humans. It is a colorless, very irritating gas with a pungent odor and taste. It does not inhibit the sense of smell but causes irritation to nose and throat which may result in choking and gagging. These symptoms are sufficiently disagreeable that most persons will not tolerate them for more than short periods. Exposure to higher concentrations of SO<sub>2</sub> may lead to chemical pneumonia. The government standard for SO<sub>2</sub> exposure is 2 PPM for an eight-hour period.

Whenever exposure to any concentration of either gas exceeding ACGIH or government standards is anticipated, the use of protective breathing equipment is required.

## Toxicity of H<sub>2</sub>S To Man

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

CONCENTRATION (Ppm)	EFFECTS
10	Obvious and obnoxious odor; has the characteristic odor of rotten eggs; eye irritation begins in the range of 10 to 30 PPM; safe for 8-hour exposure; everyone must wear respiratory protective equipment at concentrations above this level.
20	Former thresh hold limit value (TLV) or Safe Working Level
100	Impairs sense of smell after 2 to 15 minutes exposure; alters respiration; causes pain in eyes; causes drowsiness after a 15- to 30-minute exposure; causes throat irritation after 1-hour exposure.
200	Quickly eliminates the sense of smell; may result in death after 8 to 48 hours continuous exposure
500	Causes loss of sense of reasoning and balance; produces respiratory paralysis following 30- to 45- exposure; death in 1- to 4-hour exposure; victim requires prompt artificial resuscitation.
600	Causes death within 30 to 60 minutes if not rescued and artificially resuscitated immediately.
1000	Causes immediate loss of consciousness; permanent brain damage may result if not promptly rescued and artificially resuscitated .

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL ( ) GAS ( X ) OTHER:

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well  
Footages 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E. County Summit  
QQ, Sec., T., R., M. State Utah

5. Lease Designation and Serial No.  
Fee

6. If Indian, Allottee or Tribe Name  
NA

7. Unit Agreement Name  
NA

8. Well Name and Number  
UPRC CCD 846A-1R

9. API Well Number 43-  
443-043-30100

10. Field and Pool, or Wildcat  
Cave Creek

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

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Test
- Multiple Completion
- Other: Change of Well Name
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shutoff

Approximate date work will start: Upon Approval

SUBSEQUENT REPORT

(Submit Original Form Only)

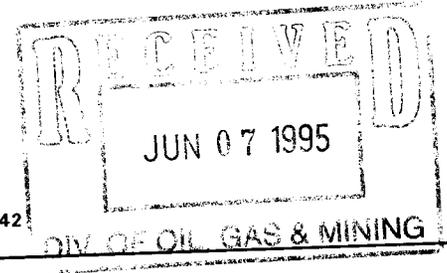
- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Shoot of Acidize
- Vent or Flare
- Water Shut-Off Shutoff

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company has changed the name of the Champlin/ Amoco 846, as submitted on an Application For Permit To Drill dated 95-06-05, to the name referenced above, CCD 846A-1R. The application covers re-entry of the original well and the drilling of a horizontal lateral to test the Phosphoria/Weber Formations.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton W. F. Brazelton Title: Senior Regulatory Analyst Date: 95-06-06

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:

OIL ( ) GAS ( X ) OTHER:

5. Lease Designation and Serial No.

UPRC Fee

6. If Indian, Allottee or Tribe Name

NA

7. Unit Agreement Name

NA

8. Well Name and Number

UPRC CCD 846A-1R

9. API Well Number

43-043-30100

10. Field and Pool, or Wildcat

Cave Creek

2. Name of Operator

Union Pacific Resources Company

3. Address and Telephone Number

P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.  
QQ, Sec., T., R., M. NENW Sec. 25, T. 5 N., R. 7 E.

County

Summit

State

Utah

11

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

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Test
- Multiple Completion
- Other: Workover to determine Mechanical Integrity of present casing string.
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shutoff

Approximate date work will start: June 15, 1995

SUBSEQUENT REPORT

(Submit Original Form Only)

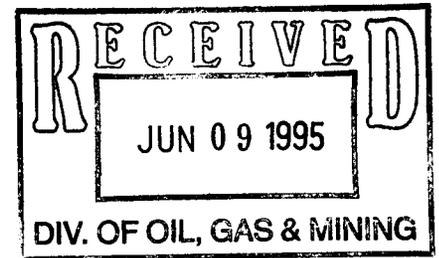
- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Shoot of Acidize
- Vent or Flare
- Water Shut-Off Shutoff

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company intends to move a workover rig on the above referenced well to determine the Mechanical Integrity of the present casing string in the well prior to initiating re-entry operations to drill a horizontal lateral to test the economic potential of the Phosphoria/Weber Formations.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 95-06-08

(This space for State use only)

**STATEMENTS OF BASIS**

OGM Review of Application for Permit to Drill (APD)

**ENGINEERING/LOCATING and SITING:**

This well is a re-entry which originally met the locating and siting requirements of R649-3-3.(Topographic exception) The application and proposed casing and drilling plan appear to be consistent with accepted industry standards of practice and sound engineering design. The casing has been inspected for mechanical integrity and the perforations have been squeezed off. A casing design safety check is attached. Blow out prevention and H2S monitoring/contingency plans are adequate.

Signature F. R. Matthews Date 06-27-95

**GEOLOGY/GROUND WATER:**

Existing casing and cement in place are sufficient to protect ground water.

Signature D. Jarvis Date 06-26-95

**SURFACE:**

A pre-site investigation has been performed by field personnel. Deficiencies in the APD have been addressed and the field review has been completed. The proposed plan for construction of the well site appears to be environmentally sound.

Signature J. Thompson & M. Hebertson Date 23-Jun-95

**STIPULATIONS for APD Approval:**

1. A reserve pit liner of at least 12 Mil~~in~~ thickness will be required.

**ATTACHMENTS:**

Pictures are available

**STATE OF UTAH**  
**DIVISION OF OIL, GAS AND MINING (DOG M)**  
**ON-SITE PRE-DRILL EVALUATION AND REVIEW**

**OPERATOR:** Union Pacific Resources Company (UPRC)

**WELL NO:** UPRC CCD 846A-1R

**LEASE NO:** UPRC

**API NO:** 43-043-030100

**LEASE TYPE:** STATE \_\_\_ FEE X

**PROPOSED LOCATION:**

CONFIDENTIAL

**SURFACE:** NENW Sec. 25, T. 5 N., R. 7 E. (~~400~~<sup>701</sup> FNL, 2300' FWL)

**BOTTOM HOLE:** SENE Sec. 25, T. 5 N., R. 7 E. (2045' FNL, 460' FEL)

**COUNTY:** Summit

**FIELD:** Cave Creek

**GPS COORDINATES:** \_\_\_\_\_ N \_\_\_\_\_ S

**SURFACE OWNER:** Fawcett and Sons Ranches **SURFACE AGREEMENT (Y/N):** Yes

---

**LOCATION AND SITING:**

X Plat \_\_\_\_\_ R649-2-3. Unit: NA

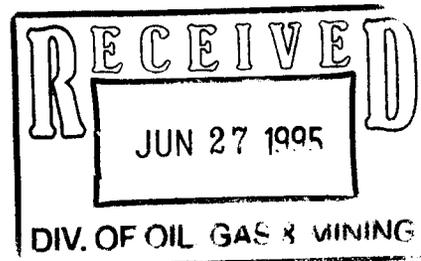
\_\_\_ Bond Sta \_\_\_ Fee \_\_\_ R649-3-2 General

\_\_\_ Number \_\_\_\_\_ R649-6-6. Exception

\_\_\_ N Oil SHALE (Y/N) \_\_\_\_\_ UCA 40-6-6 Drilling Unit

\_\_\_ WATER PERMIT Date: \_\_\_\_\_

\_\_\_ RCDD REVIEW \_\_\_\_\_



The UPRC CCD 846A-1R drilling program consists of re-entering the presently existing well bore (surface location 400 feet FNL, 2,300 feet FWL Section 25, T. 5 N., R. 7 E.), cutting a window in the existing casing string at an approximate measured depth of 7,300 feet and then drilling the well to a steered bottom-hole location (460 feet FEL, 2,45 feet FNL Section 25, T. 5 N., R. 7 E.) approximately 3,009 feet southeast of the surface location to test for mineralization in the Phosphoria, Weber and Mission Canyon Formations. Total measured depth of the proposed well is 12,850 feet. Total vertical depth of the proposed well is 11,800 feet.

---

**ARCHEOLOGICAL AND PALEONTOLOGY SURVEY RECEIVED: (Y/N)** \_\_\_\_\_

**SITE PROBLEMS:**

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the Regulatory Department of Union Pacific Resources Company who will in turn notify the State Historic Preservation Officer.

Within five working days, the State Historic Preservation Officer will determine:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situ preservation is not necessary); and
- a time frame for the State Historic Preservation Officer to determine if the findings are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the State Historic Preservation Officer will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The State Historic Preservation Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification

from the State Historic Preservation Officer that the required mitigation has been completed, the operator will then be allowed to resume construction.

**Onsite Participants:**

**Regional setting/Topography:**

The CCD 846A-1R location is situated in rolling to mountainous terrain within the Utah-Wyoming overthrust geologic province. The well location is approximately 4.5 miles west of the Utah-Wyoming state line in Summit County, Utah.

**DRILLING PROGRAM:**

1. **Surface Formation and Estimated Tops/Geologic Markers**

According to the Geologic Map of Utah, the surface formation in the vicinity of the CCD 846A-1R location is the Wasatch Formation of Paleocene-Eocene age.

Tops of important geologic markers are presented in the attached Drilling Plan.

2. **Estimated Depths of Anticipated Water, Oil, Gas or other Mineral Bearing Zones**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas	Twin Creek	5,634' MD
Gas	Phosphoria	11,34' MD
Gas	Weber	11,683' MD
Water	Fresh water at 1438' MD cased off and cemented	

3. **Well Control Equipment & Testing Procedures**

See BOP Section in attached Drilling Plan

4. **Proposed Casing and Cementing Program**

See Attached Drilling Plan

5. Mud Program and Circulating Medium - include mud components and weights, when drilling with air also included length and location of blooie line

See Attached Drilling Plan

6. Coring, Logging, and Testing Program

See Attached Drilling Plan

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards, also list anticipated lost circulations zones, abnormal temperature zones and possible hydrogen sulphide bearing zones

See Attached Drilling Plan

#### **SURFACE USE PLAN:**

##### **Current Surface Use:**

Section 25, T. 5 N., R. 7 E., consists of grassland utilized in sheep ranching and is owned by Fawcett and Sons Ranches.

##### **Proposed Surface Disturbance:**

1. Existing Roads

See Attachments Section for plats showing existing roads in the area and planned access

The UPRC CCD 846A-1R drill site is located approximately 21 statute miles northeast of Coalville, Utah, just west of the Utah-Wyoming state line.

Existing county and private roads will be used in accessing the UPRC CCD 846A-1R location and will be maintained in their present condition.

No upgrading of existing roads is planned at this time.

2. **Planned Access Roads - (include length of new road, length of existing road to be upgraded, maximum disturbed and travel surface widths, maximum grades, turnouts, surface material, drainage, cattle guards)**

A plat depicting the planned access road for the UPRC CCD 846A-1R location is included in the Attachments Section.

Existing service roads will be used in accessing the UPRC CCD 846A-1R site. An emergency escape road will be constructed to the southwest (into the prevailing wind direction) for the UPRC CCD 846A-1R location. Maximum total disturbed width of the escape road is 25 feet and maximum travel surface width is 15 feet.

Surface material for the roads will consist of in-place native surface material.

Drainage controls, consisting of crowning, ditching and culverts, if necessary, will be constructed and maintained along the access and escape road to comply with State of Utah Stormwater Pollution Prevention requirements.

The use of cattle guards is not anticipated at this time.

Surface disturbance and vehicular travel will be limited to the approved location and access road.

3. **Location of existing wells within one-mile radius of proposed location, include water, injection, producing, drilling with present status of each well**

See Attachments Section

#### 4. **Location of Production Facilities and Pipelines**

On-site production facilities will consist of a SCADA system for remote monitoring/control of well and facilities; in-line heater; chemical pumps

Off-site facilities consist of the UPRC-operated delivery plant and Amoco-operated amine sweetener plant located in Whitney Canyon (SE4 Sec. 7, T. 17 N., R. 119 W., Uinta County, Wyoming); in-line SCADA system for monitoring/operating control of the production pipeline.

UPRC CCD 846-A-1R  
4.

Pipelines will consist of full-stream line (sour) to transport production from the well to the Whitney Canyon Plant and a return sweet gas line to provide fuel for the in-line heater at the well site.

If a gas meter run is constructed, it will be located on the lease within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until the line leaves the pad. Meter runs will be housed and/or fenced. Meter runs will be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurements shall comply with the provisions of Utah Code Ann. 40-6-1 Et Seq., (1953 as amended) and Utah Code Ann. 40-9-1Et Seq., (1977 as amended), Oil and Gas Conservation General Rules (revised February 1991).

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1.5 times the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All oil production and measurement shall comply with the provisions of Utah Code Ann. 40-6-1 Et Seq., (1953 as amended) and Utah Code Ann. 40-9-1Et Seq., (1977 as amended), Oil and Gas Conservation General Rules (revised February 1991).

5. Location and Type of Water Supply

All water needed for drilling purposes will be obtained from the local landowner. A water use agreement is already in place.

6. Source of Construction Material

Inplace native material will be used in road and drill site construction.

7. Waste Management Plan

The reserve pit will be unlined and will be built at the location indicated on the plat of the site (See Attachments Section). Pit walls will be sloped no greater than 1 to 1. The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced prior to drilling. The fourth side will be fenced as soon as drilling is completed and fencing will remain until the pit is dry. As soon as the reserve pit has dried, all areas not needed for production will be rehabilitated.

Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than the completion of drilling operations.

8. Ancillary Facilities

No ancillary facilities are anticipated at this time.

9. Well Site Layout

See Attachment Section

All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with the provisions of Utah Code Ann. 40-6-1 Et Seq., (1953 as amended) and Utah Code Ann. 40-9-1 Et Seq., (1977 as amended), Oil and Gas Conservation General Rules (revised February 1991).

10. Surface Restoration Plans

The top 12 inches of topsoil material will be removed from the location and stockpiled separately on: High side of the location as designated on the plat of the site.

Topsoil along the access road will be reserved in place adjacent to the road.

Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

The reserve pit and that portion of the location not needed for production will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfacing will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured as close as possible to the original slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

The abandonment marker will be one of the following, as specified by the Utah Division of Oil, Gas and Mining:

- 1) at least four feet above ground level.
- 2) at restored ground level, or
- 3) below ground level.

In any case the marker shall be inscribed with the following: operator name, lease number, well name and surveyed description (townsite, range, section and either quarter-quarter or footage calls).

### **ENVIRONMENTAL PARAMETERS:**

Affected Floodplain and/or Wetlands:

Is a 404 dredge and fill permit required? (Any activity which will change the bottom elevation of the "waters of the United States" including wetlands, natural and artificially created waters, and even some drainages may require a permit from the Army Corps of Engineers)

Flora/Fauna:

Briefly describe the flora found on the proposed site and the fauna evidenced or sighted on or near the proposed location

### **SURFACE GEOLOGY**

Soil Type and Characteristics:

Surface Formation and Characteristics:

According to the state geologic map, the location for the UPRC CCD 846A-1R well is situated on the Wasatch Formation of Paleocene-Eocene age. The formation consists of weathered sandy and silty clays, shales and poorly indurated sandstones.

Erosion/Sedimentation/Stability

Paleontological Potential Observed:

**RESERVE PIT**

Characteristics:

The dimensions of the reserve pit are 105' wide by 190' long by 10' deep. The sides of the pit will be sloped no greater than 1 to 1. The pit will be located in cut material with at least 50% of the pit volume below ground level.

Lining (Site ranking form attached):

A lining for the reserve pit is not anticipated at this time.

**OTHER OBSERVATIONS**

Cultural Resources/Archaeology (if proposed location is on State land, has an archaeology clearance been obtained?):

Comments:

---

DOG M Representative

---

Date and Time

**STATEMENTS OF BASIS**

DOGM Review of Application for Permit to Drill (APD)

**ENGINEERING/LOCATION AND SITING:**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**GEOLOGY/GROUND WATER:**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**SURFACE:**

THE PRE-SITE INVESTIGATION OF THE SURFACE HAS BEEN PERFORMED BY FIELD PERSONNEL. DEFICIENCIES IN THE APD HAVE BEEN ADDRESSED AND THE FIELD REVIEW HAS BEEN COMPLETED ACCORDING TO DIVISION POLICY. THE PROPOSED PLAN FOR CONSTRUCTION OF THE LOCATION APPEARS TO BE ENVIRONMENTALLY SOUND.

Signature \_\_\_\_\_ Date \_\_\_\_\_

**STIPULATIONS FOR APD APPROVAL:**

**ATTACHMENTS:**

Signature \_\_\_\_\_

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

Site-Specific Factors	Ranking Score	Final Ranking Score
<p>Distance to Groundwater (feet)</p> <p>&gt;200 100 to 200 75 to 100 25 to 75 &lt;25 or recharge area</p>	<p>0 5 10 15 20</p>	<p>0</p>
<p>Distance to Surf. Water (feet)</p> <p>&gt;1000 300 to 1000 200 to 300 100 to 200 &lt; 100</p>	<p>0 2 10 15 20</p>	<p>0</p>
<p>Distance to Nearest Municipal Well (feet)</p> <p>&gt;5280 1320 to 5280 500 to 1320 &lt;500</p>	<p>0 5 10 20</p>	<p>0</p>
<p>Distance to Other Wells (feet)</p> <p>&gt;1320 300 to 1320 &lt;300</p>	<p>0 10 20</p>	<p>0</p>
<p>Native Soil Type</p> <p>Low permeability Mod. permeability High permeability</p>	<p>0 10 20</p>	<p>10</p>

<b>Fluid Type</b>  Air/mist Fresh Water TDS >5000 and <10000 TDS >10000 or Oil Base Mud  Fluid containing significant levels of hazardous constituents	0 5 10 15  20	10
<b>Drill Cuttings</b>  Normal Rock Salt or detrimental	0 10	0
<b>Annual Precipitation (inches)</b>  <10 10 to 20 >20	0 5 10	0
<b>Affected Populations</b>  <10 10 to 30 30 to 50 >50	0 6 8 10	0
<b>Presence of Nearby Utility Conduits</b>  Not Present Unknown Present	0 10 15	10
<b>Final Score</b>		30

The summation of all of the above ranking scores will yield one value which shall be used to determine the appropriate type of containment, on a case-by-case basis. The sensitivity levels are as follows:

- Level I Sensitivity: For scores totaling  $\geq 20$
- Level II Sensitivity: For scores totaling 15 to 19
- Level III Sensitivity: For scores totaling  $< 15$

**Containment Requirements According to Sensitivity Level**

Level I: Requires total containment by synthetic liner, concrete structure or other type of total containment structure or

material.

Level II: Bentonite or other compatible lining is discretionary depending on the fluid to be contained and environmental sensitivity.

Level III: No specific lining requirements.

**OTHER GUIDELINES FOR PITS**

1. Unlined pits shall not be constructed on areas of fill materials.
2. A pit shall not be constructed in a drainages or floodplain of flowing or intermittent streams.
3. Synthetic liners used for lining reserve pits, shall be of 12 mil thickness or greater and shall be compatible with the fluid to be contained. Synthetic liners used for lining onsite pits with a longer expected life shall be a minimum of 30 mil thickness or as approved by the Division.
4. Synthetic liners shall be installed over smooth fill material which is free of pockets, loose rocks or other materials which could damage the liner.
5. Monitoring systems for pits or closed mud systems may be required for drilling in sensitive areas.

**STATE OF UTAH**

<b>Operator: UNION PACIFIC RESOURCE</b>	<b>Well Name: CHAMPLIN 846-A-1</b>
<b>Project ID:</b>	<b>Location: SEC. 25 - T05N - R07E</b>

Design Parameters:

Mud weight ( 9.40 ppg) : 0.488 psi/ft  
 Shut in surface pressure : 4730 psi  
 Internal gradient (burst) : 0.120 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using buoyed weight  
 Service rating is "Sour"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Depth (TVD)	Cost		
1 12,843	7.000	32.00	L-80	AB FL-4S	12,843	12,843			
	<b>Collapse Load (psi)</b>	<b>Strgth (psi)</b>	<b>S.F.</b>	<b>Burst Load (psi)</b>	<b>Min Int Strgth (psi)</b>	<b>Yield S.F.</b>	<b>Tension Load (kips)</b>	<b>Strgth (kips)</b>	<b>S.F.</b>
1	6271	8610	1.373	6271	9060	1.44	351.91	560	1.59 J

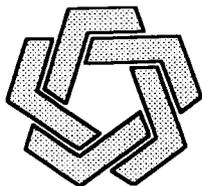
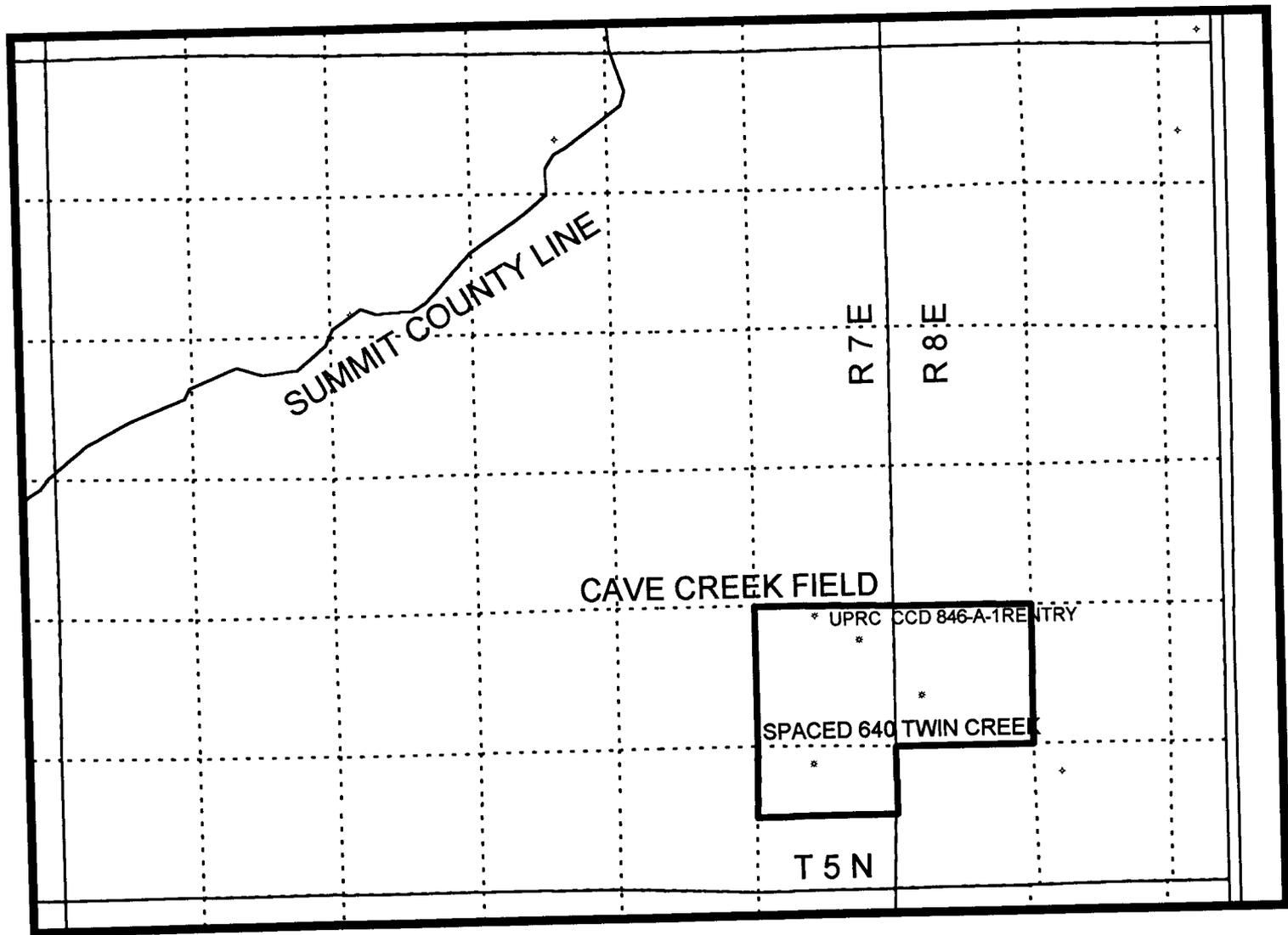
Prepared by : MATTHEWS, Salt Lake City, UT  
 Date : 06-07-1995  
 Remarks :

**REENTRY TO PHOSPHORIA**

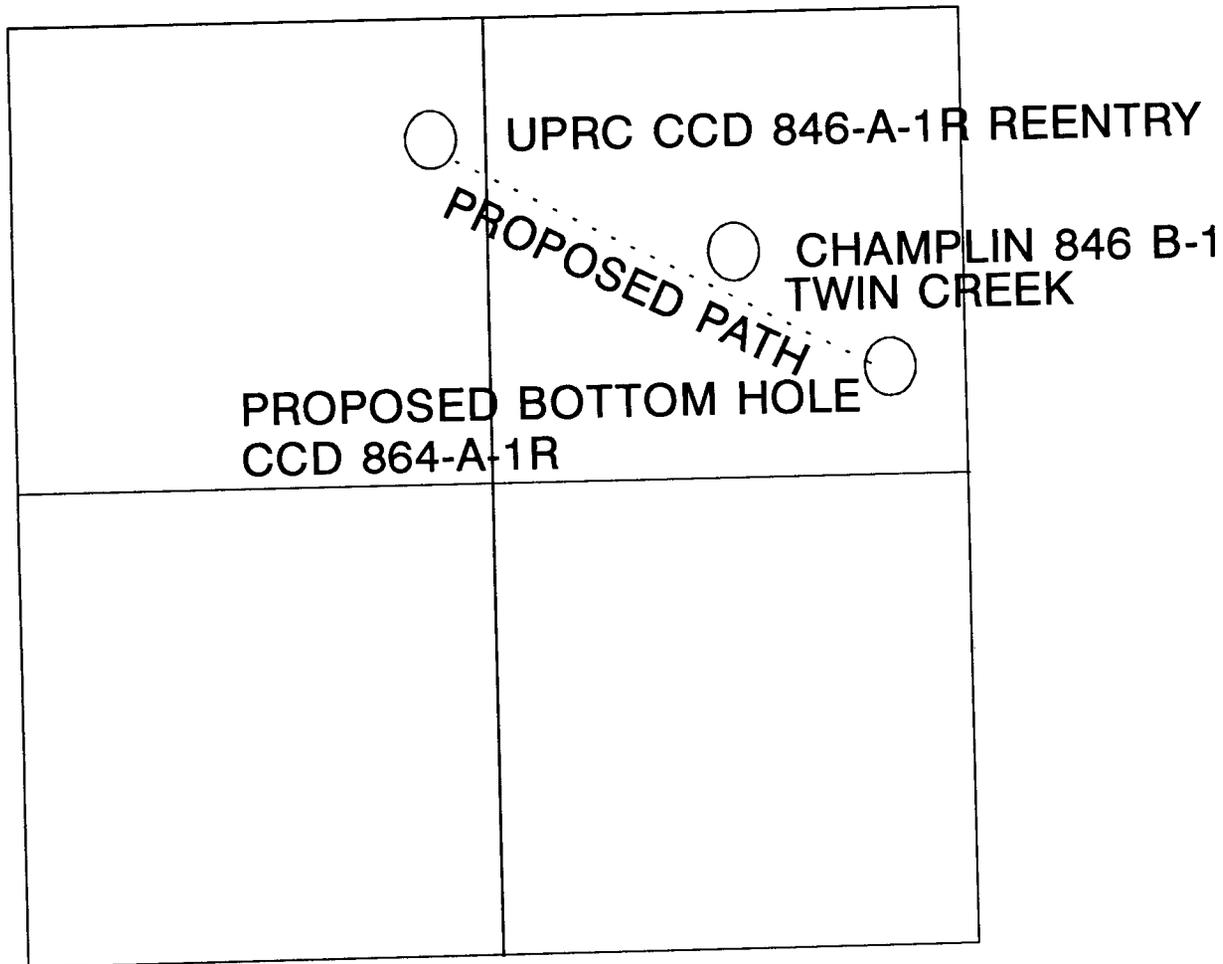
Minimum segment length for the 13,605 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.70, and a mean gas temperature of 138°F (Surface 74°F , BHT 202°F & temp. gradient 1.000°/100 ft.)  
 Minimum drift diameter of this directional well string is 6.000 in. Other parameters include: TD (Meas): 13,605 ft. Departure @ TD: 2,900 ft.  
 KOP: 7,300 ft. BU α: 2.500°/100 ft.  
 @ 1st Slant α: 30.531° VD: 8,464 ft Departure: 318 ft MD: 8,521 ft  
 Bending load: 35.28 kips  
 The mud gradient and bottom hole pressures (for burst) are 0.488 psi/ft and 6,271 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

CCD 846-A-1R CAVE CREEK  
PHOSPHORIA TEST  
SEC. 25, 5N, 7E SUMMIT COUNTY



# UNION PACIFIC RESOURCES CCD 846-A-1R (REENTRY)



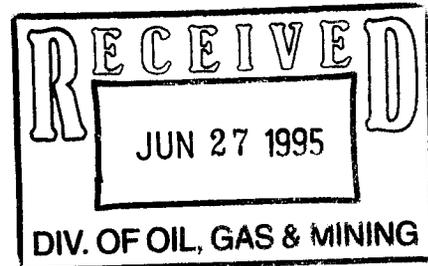
1 INCH = 1000'

June 26, 1995

Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
3 Triad Center - Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84190

ATTN: Mr. Mike Hebertson

RE: **Application For Permit To Drill (APD)  
UPRC CCD 846A-1R  
Section 25, T. 5 N., R. 7 E.  
Summit County, Utah**



Dear Mike:

Enclosed for your further handling and review are two copies each of the following documents for the above referenced well:

1. Certified plats of location, cut-and-fill diagrams and rig layout
2. On-Site Pre-Drill Evaluation and Review
3. H<sub>2</sub>S Contingency Plan

The original APD for the well was submitted to you June 5, 1995, without the above mentioned information.

Please review the documents at your earliest convenience as Union Pacific Resources Company would like to commence construction for the location as soon as possible. Your comments and consideration will be appreciated.

Please call me at (817) 877-7952, FAX (817) 877-7942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY



W. F. Brazelton  
Senior Regulatory Analyst



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

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

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

June 30, 1995

Union Pacific Resources Company  
P.O. Box 7 MS 3006  
Fort Worth, Texas 76101-0007

Re: UPRC CCD 846-A-1R Well, Surface Location 707' FNL, 2342' FWL, NE NW,  
Bottom Hole Location 2045' FNL, 460' FEL, SE NE, Sec. 25, T. 5 N., R. 7 E.,  
Summit County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to reenter and drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-043-30100.

Sincerely,

R. J. Firth  
Associate Director

ldc

Enclosures

cc: Summit County Assessor

Bureau of Land Management, Salt Lake District Office

WAPD



Operator: Union Pacific Resources Company

Well Name & Number: UPRC CCD 846-A-1R

API Number: 43-043-30100

Lease: Fee

Surface Location: NE NW Sec. 25 T. 5 N. R. 7 E.

Bottom Hole Location: SE NE Sec. 25 T. 5 N. R. 7 E.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

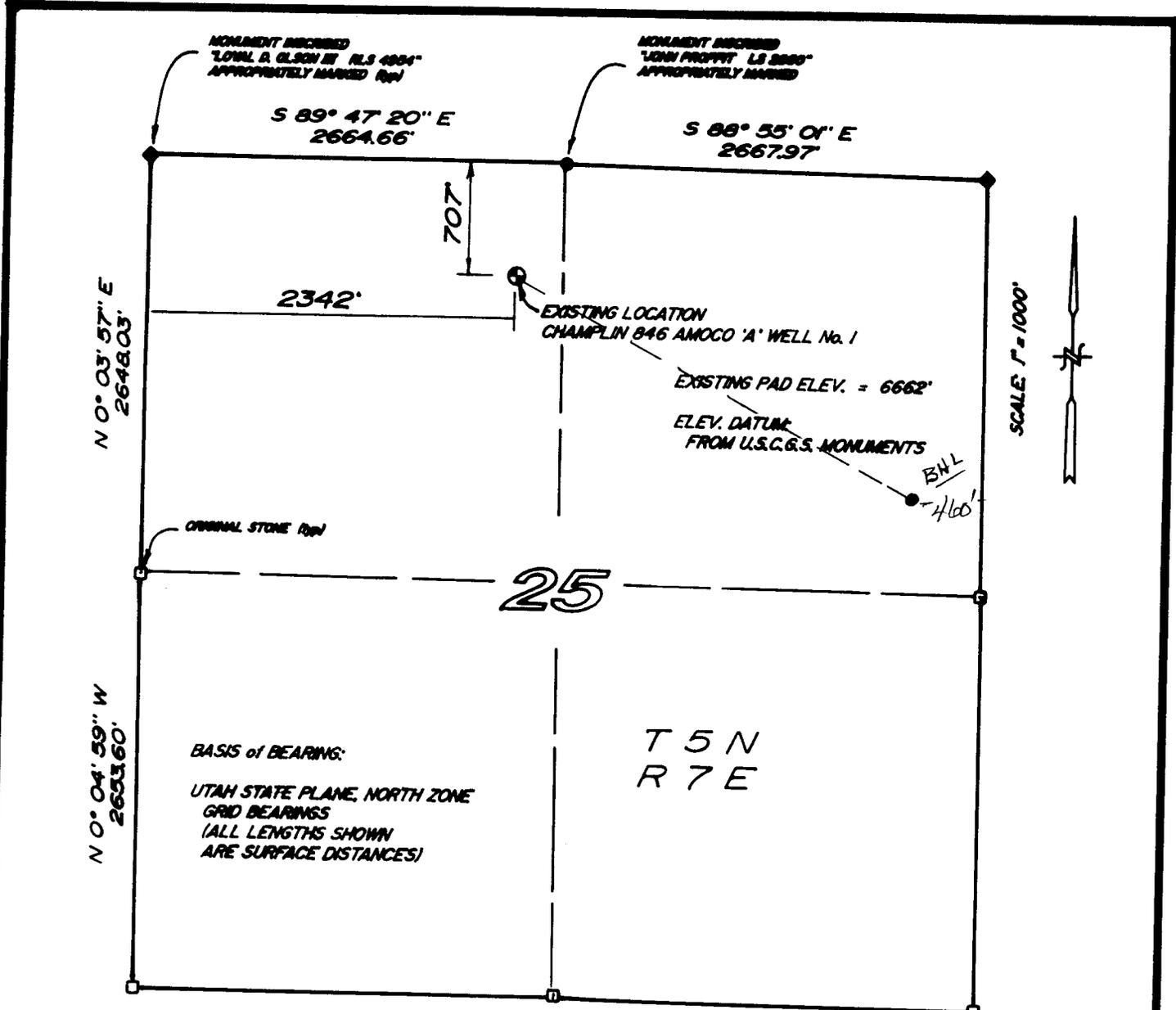
Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. A reserve pit liner of at least 12 mil thickness will be required.

5. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.



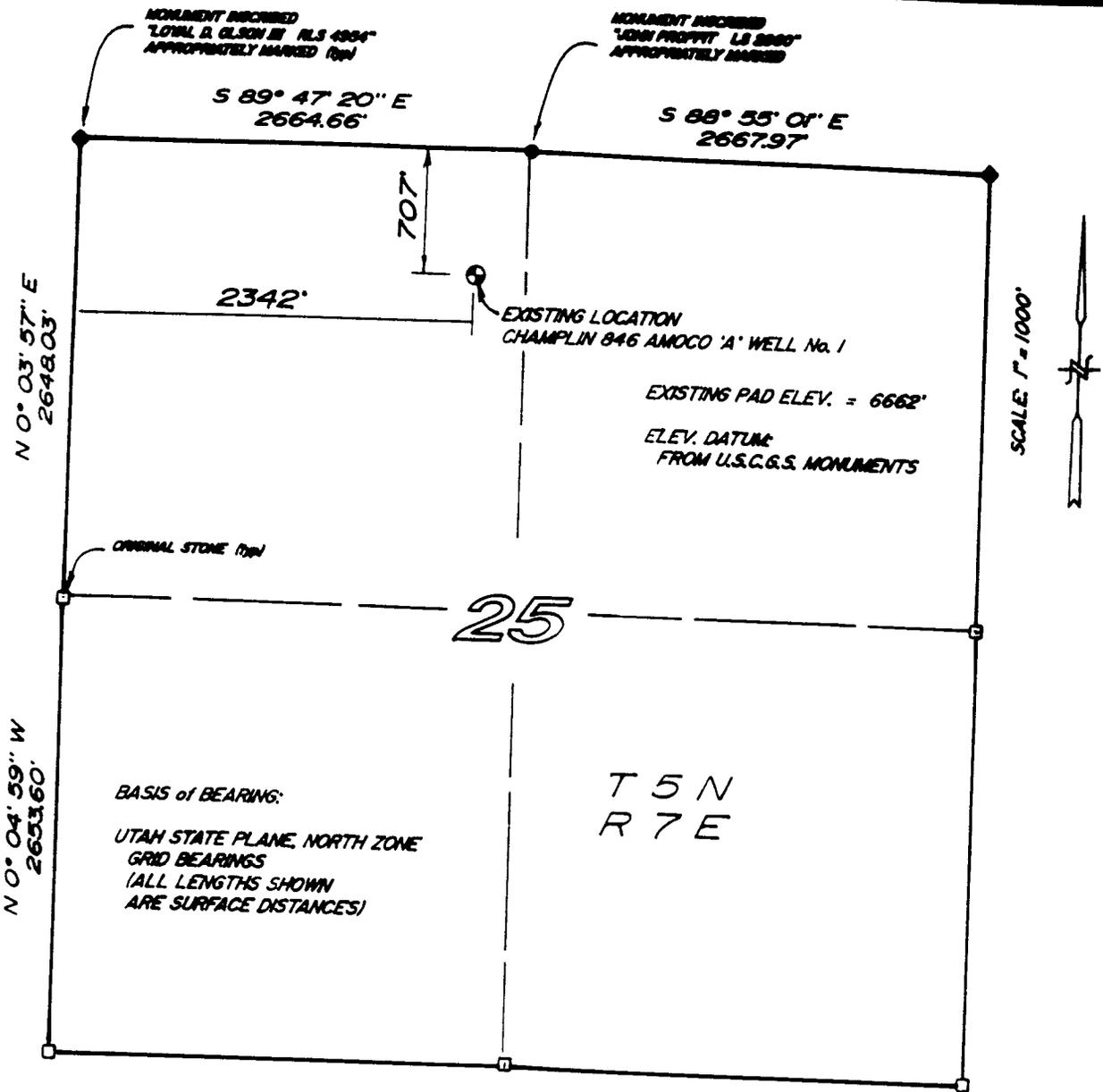
# LOCATION MAP

SURVEYED UNDER MY DIRECTION  
MAY 22, 1995.



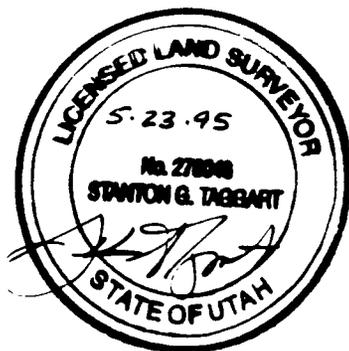
MAP SHOWING  
EXISTING LOCATION  
CHAMPLIN 846  
AMOCO 'A' WELL No. 1  
707' F.N.L. 2342' F.W.L.  
SECTION 25  
T 5 N, R 7 E, S.L.B.M.  
SUMMIT COUNTY, UTAH

LINTA ENGINEERING and SURVEYING, INC.  
808 MAIN STREET, EVANSTON, WYOMING 82930  
(307) 788-3802  
5-23-95 95-26-13



# LOCATION MAP

SURVEYED UNDER MY DIRECTION  
MAY 22, 1995.

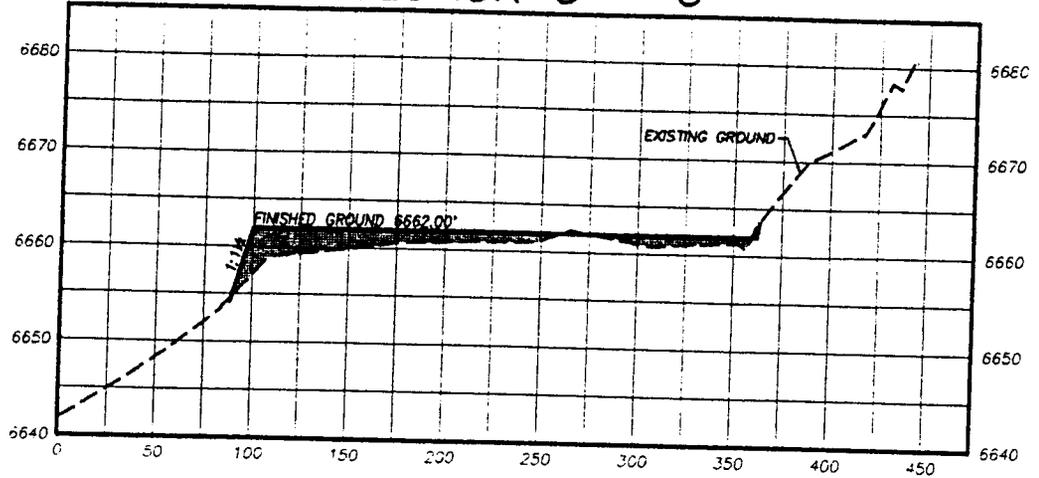


**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

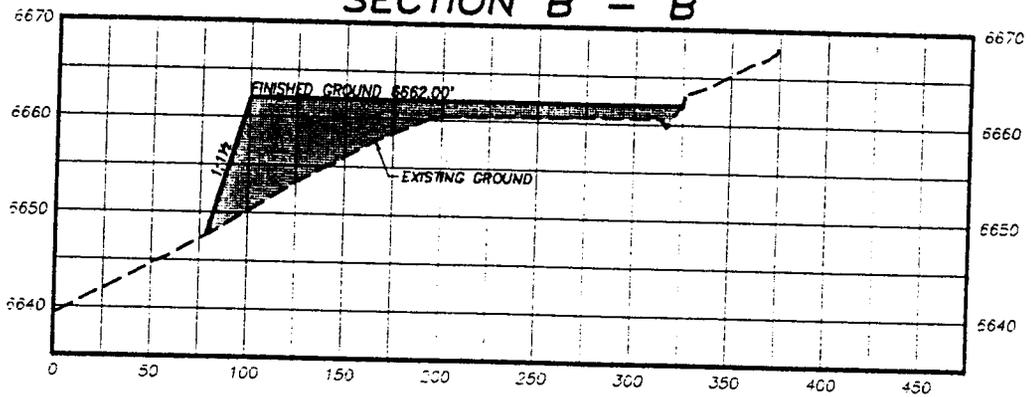
UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 08/20/95 JOB #: 95-26-13  
DISK #: 118-A FILE: 95-26-13

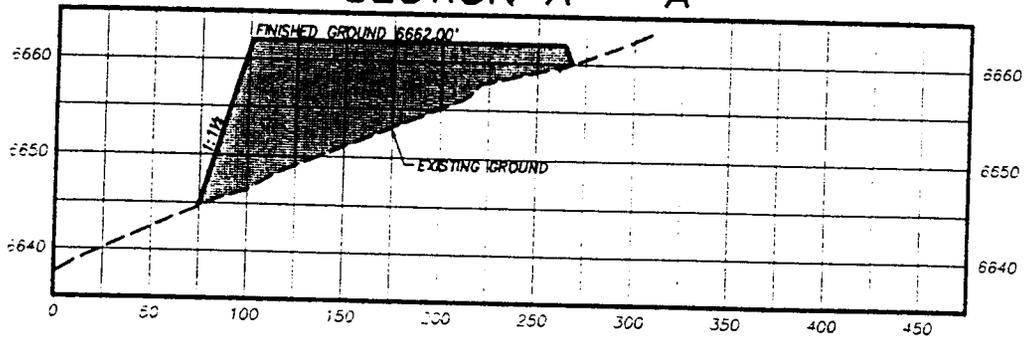
SECTION C - C



SECTION B - B



SECTION A - A



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN BY: Brent Sanders

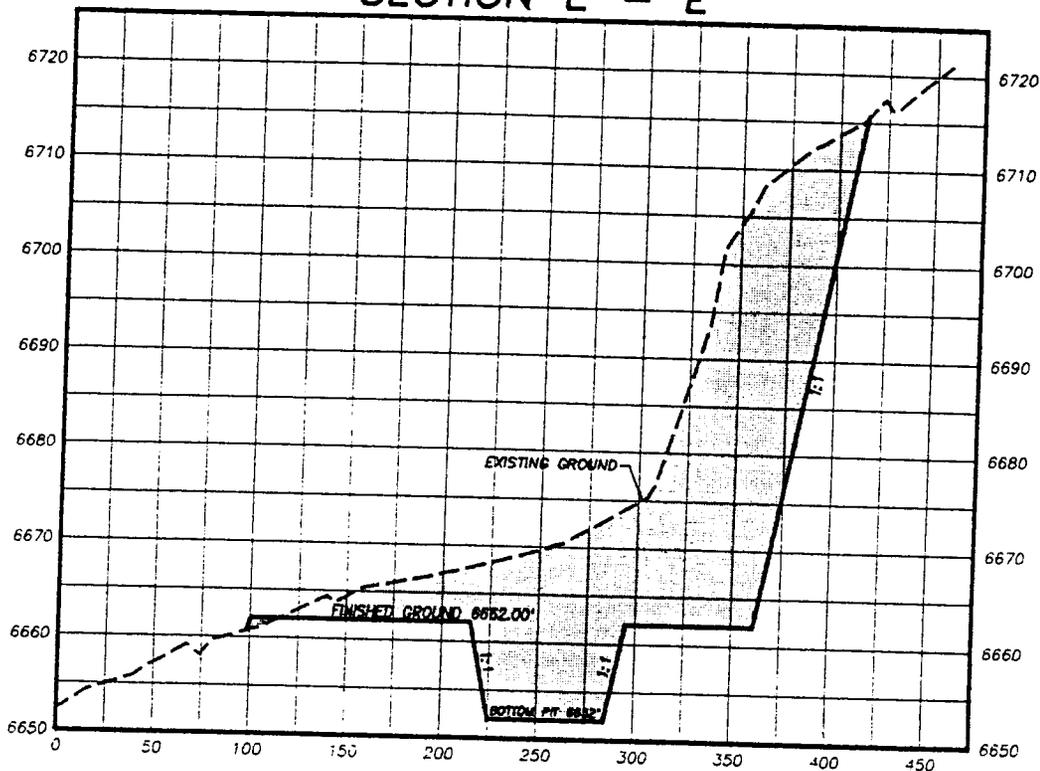
SHEET 3 OF 5

SCALE:

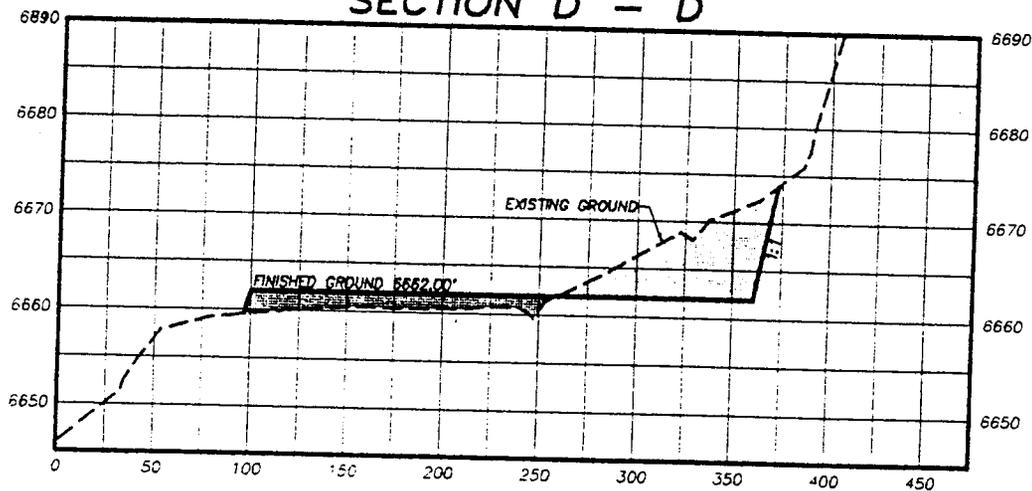
HORIZ: 1" = 100'  
VERT: 1" = 20'

ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

SECTION E - E



SECTION D - D



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN BY: Brent Sanders

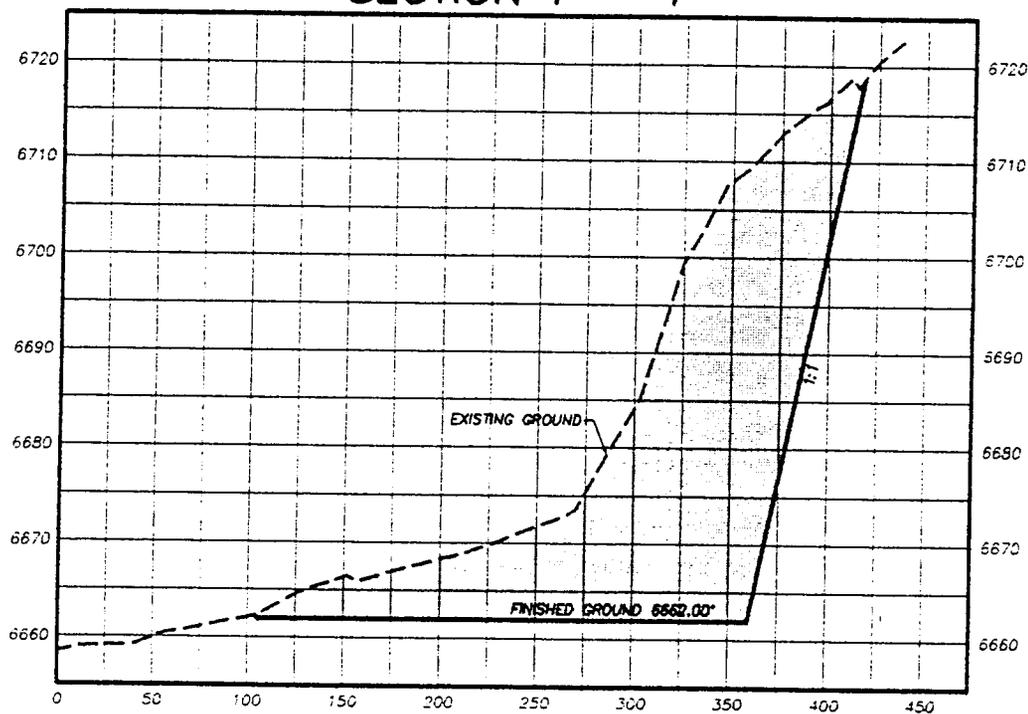
SHEET 4 OF 5

SCALE:

HORIZ: 1" = 100'  
VERT: 1" = 20'

ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

SECTION F - F



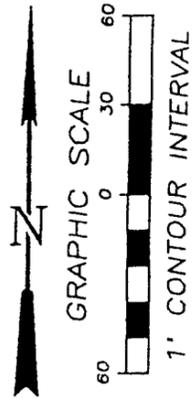
**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
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UINTA ENGINEERING & SURVEYING, INC.  
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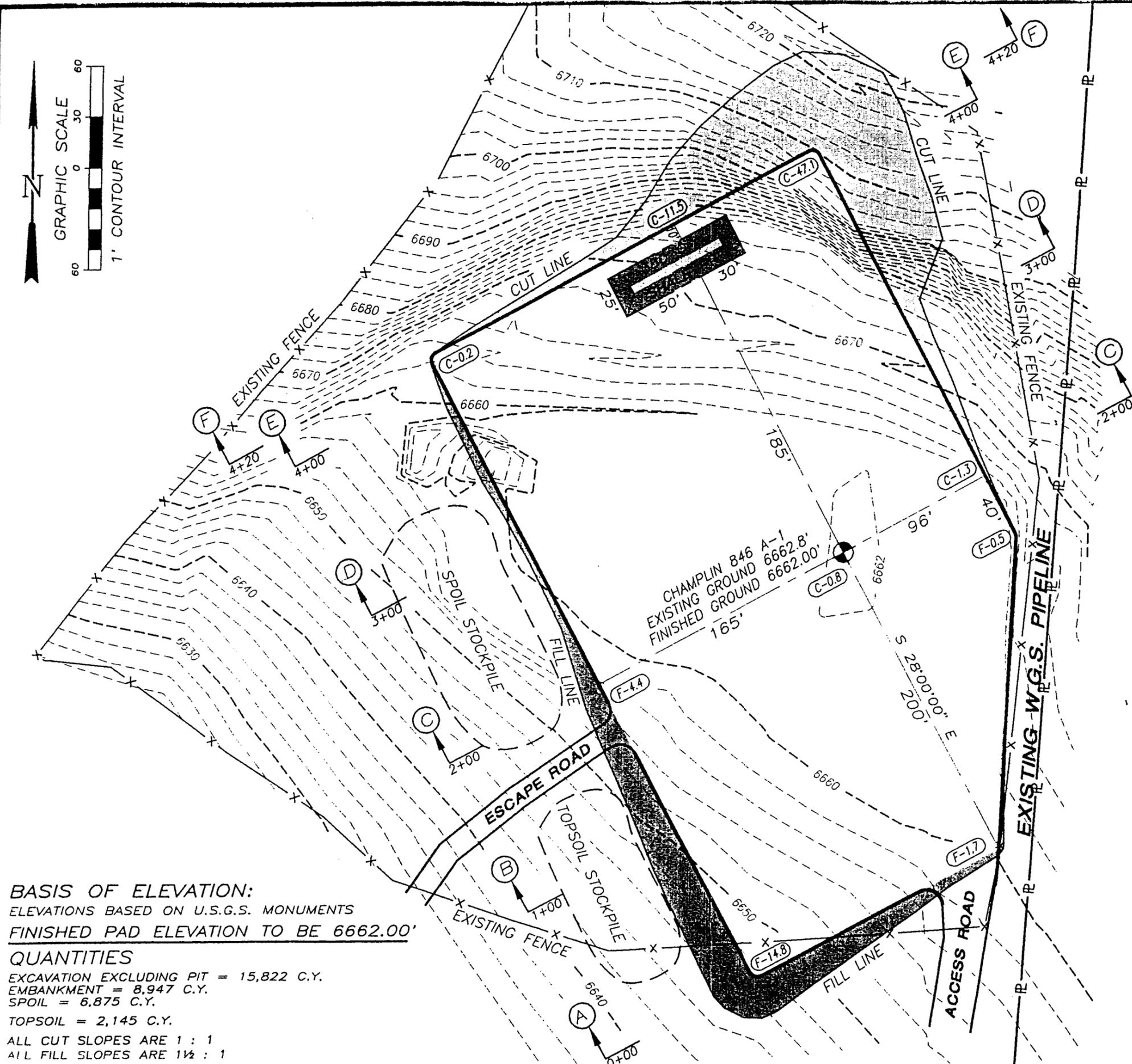
DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN BY: Brent Sanders

SCALE:  
HORIZ: 1" = 100'  
VERT: 1" = 20'  
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1



**NOTE:**  
THE LOCATION OF THE W.G.S. PIPELINE IS TO BE MARKED PRIOR TO CONSTRUCTION.



**BASIS OF ELEVATION:**  
 ELEVATIONS BASED ON U.S.G.S. MONUMENTS  
 FINISHED PAD ELEVATION TO BE 6662.00'

**QUANTITIES**  
 EXCAVATION EXCLUDING PIT = 15,822 C.Y.  
 EMBANKMENT = 8,947 C.Y.  
 SPOIL = 6,875 C.Y.  
 TOPSOIL = 2,145 C.Y.  
 ALL CUT SLOPES ARE 1:1  
 ALL FILL SLOPES ARE 1½:1

**MAP to ACCOMPANY**  
**APPLICATION for PERMIT to DRILL**  
**CHAMPLIN 846 AMOCO 'A'**  
**WELL No. 1**  
**707 FNL 2342 FWL**  
**SECTION 25, T5N, R7E, SLBM**  
**SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
 808 MAIN STREET  
 EVANSTON, WYOMING 82930  
 (307) 789-3602  
 DATE: 06/20/95 JOB #: 95-26-13  
 DISK #: 116-A FILE: 95-26-13  
 DRAWN BY: Brent Sanders SHEET 2 OF 5

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>	6. Lease Designation and Serial No. <b>UPRC Fee</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
	7. Unit Agreement Name <b>NA</b>
	8. Well Name and Number <b>UPRC CCD 846A-1R</b>
1. Type of Well: <b>OIL ( ) GAS ( X ) OTHER:</b>	9. API Well Number <b>43-043-30100</b>
2. Name of Operator <b>Union Pacific Resources Company</b>	10. Field and Pool, or Wildcat <b>Cave Creek</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)</b>	

4. Location of Well  
 Footages **707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.** County **Summit**  
**QQ, Sec., T., R., M. NENW Sec. 25, T. 5 N., R. 7 E.** State **Utah**

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

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Test <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other:	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other: Weekly Progress Report
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shutoff	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off Shutoff
Approximate date work will start: <b>June 15, 1995</b>	Date of work completion _____ Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

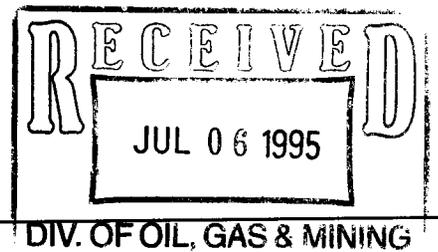
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Weekly Progress Report No. 1, Week Ending July 3, 1995

Well was re-entered June 3, 1995, to establish MIT of existing casing and perform workover procedure in preparation for drilling two new horizontal laterals in the Twin Creek Formation. Workover rig released June 27, 1995. Drill location preparation will follow.

Please refer to accompanying Daily Operations Summaries for detail

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
 If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942



13.  
 Name/Signature: **W. F. Brazelton** *W F Brazelton* Title: Senior Regulatory Analyst Date: 95-07-05

(This space for State use only)

**OPERATION SUMMARY REPORT**

WELLNAME :AMOCO CHAMPLIN 846 "A" #1 (RE)  
 AFE No. :021039  
 FIELD :CAVE CREEK UTAH

WELL No. :  
 API No. :  
 RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/13/95	0.000		FIRST REPORT OF OPERATIONS TO REENTER AND TEST CSG INTEGRITY TO DETERMINE FEASIBILITY OF UTILIZING EXISTING CSG AS INTERMEDIATE FOR DEEPER WELL IN AMOCO CHAMPLIN 846 A1 LOCATED NW 1/4 SEC 25, T5N, R7E, SUMMITT COUNTY, UTAH.
		07:00 19:00	MIRU UPDIKE BROS. RIG #83 WORKOVER RIG W/ TANK, PUMP, PS, RU BEAMS FOR SOFT GROUND, DOG HOUSE, LIGHT PLANT, AND TOOL SKID. MI FORKLIFT TO UNLOAD WORK STRING. MI 2-400 BBL WORKING TANKS. START RU ACC EQUIP.
		19:00 07:00	SDFN.  SICP (9-5/8") TSTM. WILL FINISH DIGGING OUT CSG VALVES IN AM.  WILL NUBOPE AND TEST IN AM WHILE FINISHING RU PUMP.
06/14/95	0.000	07:00 09:00	SICP (9-5/8") TSTM. ND DRY HOLE FLANGE. RING GROOVE ON INT SPOOL IN GOOD COND. NU 11" 5M# CIW TYPE U BOP W/ BLINDS IN BTM GATE AND 3-1/2" PIPE RAMS IN TOP GATE.
		09:00 15:00	RU DOUBLE JACK AND TEST BOPE 250 PSI 5 MIN, 2000 PSI 10 MIN. LOCK DOWNS ON INT. SPOOL LEAKING. CANNOT DETERMINE MANUFACTURER STENCILING CORRODED. CIW REP DETERMINED ITS AN FMC HEAD. WAIT FOR FMC REP. REMOVE LOCK DOWNS AND GLAND NUTS. BADLY CORRODED. DIFFICULT TO REMOVE. HEAD DESIGN OLD STYLE FMC DOES NOT HAVE REPAIRS IN STOCK. INSTALL BLANKS TO MAINTAIN PRESSURE INTEGRITY. WILL REPLACE W/ PROPER LOCKDOWNS AND GLAND NUTS WHEN TWIN CREEK PERFS ARE SQZD. TEST BOPE 250 PSI 5 MIN 5000 PSI 10 MIN. ALL OK. TEST 9-5/8" CSG HANGER 2000 PSI 10 MIN. OK.
		15:00 16:00	FINISH DIGGING OUT CELLAR. SICP (13-3/8") TSTM
		16:00 18:00	PU BIT, 2 BOOT BASKETS, BS, AND 16 4-9/16" DC'S. HOLE STARTED DISPLACING W/ 12 DC'S IN.
		18:00 19:00	PU TIH W/ 3-1/2" 13.3# E IF DP. SECURE WELL W/ 25 JTS IN HOLE.
		19:00 07:00	SDFN
			OART:FINISH TIH W/ DP. SICP SIDPP 0
06/15/95	6390.	07:00 13:00	PU TIH W/ 3-1/2" DP. TAG CIBP AT 6355' DTD. AMOCO TD 6350'.
		13:00 14:00	PRESSURE TEST 9-5/8" CSG TO 2000 PSI 30 MIN. ALL OK. 13-3/8" MONITORED DURING P TEST. NO COMMUNICATION. BLEED OFF.

**OPERATION SUMMARY REPORT**

WELLNAME : AMOCO CHAMPLIN 846 "A" #1 (RE)  
 AFE No. : 021039  
 FIELD : CAVE CREEK UTAH

WELL No. :  
 API No. :  
 RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		14:00 16:00	NU STRIPPING HEAD. RU PS.
		16:00 17:30	DRILL UP TOP OF CIBP. PUSHED DOWD HOLE TO 6390'. LOST 5 BBL H2O WHEN CIBP WENT SOUTH.
		17:30 18:30	CIRCULATE BTMS UP. CAST IRON, BRASS, AND CMT IN RETURNS. NO SLIP PIECES AND NO RUBBER. GOOD GAS SHOW W/ BTMS UP. WELL DRINKING 0.1 BPM CIRC AT 3.5 BPM AT 900 PSI.
		18:30 19:00	LD 1 JT. SECURE WELL FOR NIGHT.
		19:00 07:00	SDFN.
06/16/95	6511.		OART: DRILL CMT AND CICR. SICP 0, SIDPP 30 PSI.
		07:00 07:30	SAFETY MEETING. BLEED OFF GAS PRESSURE.
		07:30 08:30	LOAD HOLE W/ 5 BW. W&R TO 6510'. TAG ONCE AT 6465' AND FELL FREE CIBP BTM HUNG IN 2ND SET PERFS.
		08:30 18:30	DRILL AT 6510'. ACTS LIKE BTM OF CIBP ON TOP OF CICR. AT END OF DAY IT APPEARS WE HAVE MADE 1' TO 6511' AND WE ARE STARTING TO TORQUE AND GET RUBBER AGAIN LIKE WE ARE INTO CICR.
		18:30 19:00	PULL 1 JT AND SECURE WELL.
		19:00 07:00	SDFN. LOST 22 BBL TODAY.
06/17/95	6602.	07:00 07:30	OART: DRILL SIDPP SICP 0. SAFETY MEETING.
		07:30 13:00	DRILL ON CICR AT 6511'. CAST, BRASS, AND RUBBER IN RETURNS. SOME PIECES OF SLIP SEGMENTS. AT 10:00 STARTED GETTING SMALL VOLUME CMT CUTTINGS BTM OF CICR APPEARS TO BE SPINNING ON CMT.
		13:00 15:00	BOWL BROKE ON MODEL E STRIPPING HEAD. STRIP OLD HEAD OFF, WAIT ON REPLACEMENT, AND INSTALL SAME.
		15:00 15:30	DRILL UP CICR AT 6511'.
		15:30 17:30	DRILL GOOD CMT TO 6602'. BIT GOT ROUGH. PICK UP OFF BTM.
		17:30 18:00	CIRCULATE BTMS UP. CAST IRON IN RETURNS. SUSPECT ADDITIONAL CIBP/CICR AT 6602'. OLD PERFS 6592'-98', 6610'-96'.
		18:00 20:00	TOOH TO INSPECT BIT.
		20:00 07:00	SECURE WELL. SDFN.

**OPERATION SUMMARY REPORT**

WELLNAME :AMOCO CHAMPLIN 846 "A" #1 (RE)  
 AFE No. :021039  
 FIELD :CAVE CREEK UTAH

WELL No. :  
 API No. :  
 RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			25.5 BW LOST TODAY.
			USED THREE RUBBERS IN STRIPPING HEAD TODAY. TOOL JT IN HEAD WHILE DRILLING CICR AT 6511'.
06/18/95	6602.	07:00 09:30	OART:TOOH SIDPP SICP 0. FINISH TOOH.
		09:30 10:30	LD AND DUMP BOOT BASKETS. LD BIT #1. 2 BROKEN TEETH, NUMEROUS CHIPPED TEETH, IN GAUGE, #1 CONE SLIGHT PLAY IN BEARING. MU TIH W/ BIT #2 8-1/2" VAREL L127 SN 28812.
		10:30 15:00	TIH DC'S AND DP.
		15:00 16:00	RIG UP PS & STRIPPING HEAD.
		16:00 19:00	DRILL ON PRESUMED CICR AT 6602'. VERY FINE METAL FLAKES, BRASS AND RUBBER IN RETURNS.
		19:00 07:00	SECURE WELL. SDFN
			BW LOST TODAY:15 BBL
06/19/95	8594.		OART:DRILL CICR SITP SICP VAC
		07:00 13:00	LOAD HOLE W/ 43 BW. BREAK CIRC. DRILL ON CICR AT 6602'. LOOSING RETURNS WHEN RUBBER OFF CICR. DRILL AHEAD PUMPING 1/2 BPM. EST 60% RETURNS PLUGGING OF W/ RUBBER UNTIL GETTING 85% RETURNS. DRILL UP CICR. DRILL UP RATTY CMT. STRINGERS TO 6790'. LOOSING 1.5 BPM. CIRC BTMS UP.
		13:00 14:00	RD PS.
		14:00 15:30	PU TIH TO 8544'.
		15:30 17:00	CIRCULATE HOLE CLEAN. LOSING 1.1 BPM CIRC AT 4.5 BPM AT 1000 PSI. SECURE WELL.
		17:00 05:00	SDFN.
			LOST 162 BW TODAY, 224 TOTAL.
06/20/95	8594.		OART: GYRO SURVEY SIDPP SICP VAC
		07:00 13:00	RU E&E WL AND RIH W/ SPERRY SUN GYRO MAKING 100' SURVEY STOPS TO 8000'. POOH.
		13:00 13:30	LOAD HOLE W/ 71 BW. STATIC 20 HRS.
		13:30 14:30	TOOH LD 17 JTS. SB 16 STDS TO 6701'.
		14:30 15:30	SPOT LCM PILL 15# GEL AND 30# CACO3 AND MICA.

## OPERATION SUMMARY REPORT

WELLNAME : AMOCO CHAMPLIN 846 "A" #1 (RE)	WELL No. :
AFE No. : 021039	API No. :
FIELD : CAVE CREEK UTAH	RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		15:30 16:00	TOOH 25 STDS.
		16:00 17:00	APPLY 250 PSI TO PILL. BLED TO 50 PSI 15 MIN. REAPPLY PRESSURE. BLED TO 50 PSI 25 MIN
		17:00 18:00	TIH 6701'
		18:00 19:00	CIRC LCM OUT AT 3 BPM 600 PSI. LOST 4 BBL IN 45 MIN. WHILE CIRC.
		19:00 21:30	TOOH W/ 108 STDS DP. SECURE WELL.
		21:30 06:00	SDFN.
		06:00 06:30	SIDPP SICP VAC. LOAD HOLE.
		06:30 07:00	TOOH.
			75 BBL LOST TODAY/302 BBL TOTAL
06/21/95	8594.		OART: FINISH TOOH TOOK 31 BW TO LOAD HOLE AT 06:00 HRS AFTER 8.5 HR SI.
		07:00 08:00	TOOH W/ 16 4-9/16" DC'S. LD BOOT BASKETS AND BIT #2. BOOT BASKETS FULL OF CAST AND BRASS.
		08:00 11:00	W.O.W.L.
		11:00 15:00	RU OWP. RIH W/ CBL/CCL/GR. PULL CBL FROM 8000' TO 5000' AND AT CMT TOP 2800'-2500'. CMT TOP RATTY AND INDISCREET MOST PROBABLY DUE TO 15 YEAR OLD DRILLING MUD BEHIND PIPE. RDWL.
		15:00 16:00	PU TIH W/ BIT, DUAL CSG SCRAPERS DRESSED FOR 9-5/8" 47#, BS, AND 16 4-9/16" SPIRAL DC'S.
		16:00 17:00	CHANGE OF PROCEDURE. TOOH SB DC'S LD CSG SCRAPERS. SECURE WELL.
		17:00 06:00	SDFN
06/22/95	8594.	06:00 07:00	RU OWP. RIH W/ 9-5/8" EZSV. SICP VAC
		07:00 09:00	RIH W/ EZSV AND SET AT 7050'. POOH. RDWL. FL @ 540'.
		09:00 11:00	TIH W/ DP TO 7050'.
		11:00 12:30	RU BJ. HOLD SAFETY MEETING. TEST P&L'S 2500 PSI. LOAD HOLE. SPOT 240 SX PACESETTER LITE BALANCE PLUG 65/35 POZ W/ 6% GEL, 0.1% ASA-301, AND 0.5% FL-52 MIXED AT 12.7 PPG, 1.84 YIELD, 9.8 GAL/SX. CALC SLURRY VOL 78.6 BBL FOR 1050' FILL IN 9-5/8" CSG. TRUCK TOTALIZER SHOWS 69 BBL-9.6 BBL SHORT. PERFS SHOULD BE COVERED BY 200'. RD BJ.

## OPERATION SUMMARY REPORT

WELLNAME : AMOCO CHAMPLIN 846 "A" #1 (RE)  
 AFE No. : 021039  
 FIELD : CAVE CREEK UTAH

WELL No. :  
 API No. :  
 RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
06/23/95	6599.	12:30 15:30	TOOH LD 38 JTS. SB 102 STDS. SECURE WELL.
		15:30 07:00	SDFN/WOC
			OART: TIH W/ BIT SICP O
		07:00 07:30	LOAD HOLE 38.25 BBL. HOLE DRANK 13.25 BBL OVER PIPE DISPLACE CALCULATED VOLUMES SHOW 5-1/2 BBL CMT LEFT ABOVE PERFS. 74' FILL UP.
		07:30 09:00	PU TIH W/ BIT #2 ON 16 4-3/4" DC'S.
		09:00 11:30	TIH TAG CMT 6212'.
		11:30 12:30	RU PS AND STRIPPING HEAD. P TEST CSG 500 PSI FOR 10 MIN.
		12:30 17:00	DRILL CEMENT 6212'-6599'. GEL FROM LCM PILL CLABBERED AND CARRYING FINES THROUGH MUD SYSTEM. 60 MESH SCREENS IN SHAKER FINEST SHAKER IS CAPABLE OF HANDLING. NOT LOOSING ANY FLUID. DRILLING 60-70 FPH.
		17:00 18:30	PULL 2 JTS. SHUT DOWN TO CHANGE OUT SWABS IN PUMP. SECURE WELL.
		18:30 07:00	SDFN
06/24/95	8000.	07:00 09:00	OART: DRILL CMT. SIDPP SICP O. CLEAN MUD TANK.
		09:00 13:30	BREAK CIRC. HOLE FULL. DRILL CMT 6599'-7050'. HOLE NOT TAKING ANY FLUID.
		13:30 14:30	DRILL CICR AT 7050' RETAINER WENT DOWN HOLE.
		14:30 15:00	CIRCULATE HOLE CLEAN.
		15:00 15:30	SET BACK PS.
		15:30 17:00	TIH PUSH JUNK TO 8000'.
		17:00 18:30	TOOH SB TO 6000'. SECURE WELL.
		18:30 07:00	SDFN
06/25/95	8000.	07:00 07:30	OART: TOOH FOR SCRAPERS. SIDPP SICP O. 0 BW TO LOAD HOLE.
		07:30 09:00	TOOH
		09:00 11:00	SB DC'S. LD BOOT BASKETS. PU BIT AND DUAL 9-5/8" 47# CSG SCRAPERS AND TIH W/ DC'S.
		11:00 14:00	TIH DID NOT FEEL ANYTHING W/ SCRAPERS.
		14:00 16:30	ROLL HOLE W/ FW.

**OPERATION SUMMARY REPORT**

WELLNAME : AMOCO CHAMPLIN 846 "A" #1 (RE)	WELL No. :
AFE No. : 021039	API No. :
FIELD : CAVE CREEK UTAH	RIG :

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 15

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		16:30 18:00	TOOH LDDP TO 6000'. SECURE WELL.
		18:00 07:00	SDFN.
06/26/95	8000.		OART: FINISH LDDP & DC. START RD EQUIP. TRUCKS SCHEDULED FOR MONDAY MORNING TO MOVE OUT RIG AND CLEAN LOCATION. SIDPP SICP 0
		07:00 12:00	LDDP & DC'S.
		12:00 13:30	NDBOPE. NU 11" 5M# BLIND FLANGE.
		13:30 16:00	CLEAN MUD TANKS AND RD ACC EQUIP.
		16:00 18:00	RD ACC EQUIP. SECURE WELL.
		18:00 07:00	SDFN
06/27/95	8000.	07:00 11:00	OART: RDMOSU RDMOSU.
			FINAL REPORT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

FIVE

06 1995

5. Lease Designation and Serial No.  
Fee

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name  
NA

8. Farm or Lease Name  
UPRC

9. Well Name  
CCD 846-A-1R

10. Field and Pool, or Wildcat  
Cave Creek

11. QQ, Sec., T., R., M., or Block and Survey or Area  
NENW Sec. 25, T5N, R7 E.

12. County or Parish  
Summit

13. State  
Utah

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1 a. Type of Work  
(X) DRILL *Re Entry* ( ) DEEPEN ( ) ~~PLUG BACK~~ *GAS & M*

b. Type of Well  
( ) Oil Well (X) Gas Well ( ) Other ( ) Single Zone ( ) Multiple Zone

2. Name of Operator  
UNION PACIFIC RESOURCES COMPANY

3. Address of Operator  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007

4. Location of Well (Report location clearly and in accordance with any State requirements)  
At Surface 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E. *NE 1/4 NW 1/4*  
At Proposed Producing Zone 2045' FNL, 460' FEL Sec. Sec. 25, T. 5 N., R. 7 E. *SE 1/4 NE 1/4*

14. Distance in miles and direction from nearest town or post office  
21 miles NE from Coalville, Utah

15. Distance from proposed location to nearest property or lease line, Ft. 707'  
(Also to nearest drilling line, if any) 640'

16. No. of acres in lease 640

17. No. of acres assigned to this well 640

18. Distance from proposed location to nearest well, drilling, completed. NA  
or applied for, on this lease, Ft.

19. Proposed Depth 12850' MD/11800' TVD

20. Rotary or cable tools Rotary

21. Elevations (Show whether DP, RT., GR., etc.) 6662' GR

22. Approx. date work will start Upon Approval

23 PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	106.5#	1438'	NA
17-1/2"	13-3/8"	68#	3376'	NA
17-1/2"	13-3/8"	72#	4766'	NA
17-1/2"	13-3/8"	88.2#	5750'	NA
12-1/4"	9-5/8"	47#	7300'	NA
8-1/2"	7"	32#	12843'	540 cf Class "G"

Union Pacific Resources Company proposes to re-enter the Champlin 846 Amoco well (API No. 43-043-30100) and drill, test and complete a horizontal well in the Phosphoria/Weber Formation. The following items are included for your review and approval:

- 1) Drill Program with formation tops, casing/cement program, mud program, anticipated gas/oil occurrences, testing program, and BOP program
  - 2) Borehole Schematic Diagram
  - 3) Directional Profile
  - 4) BOP Schematic Diagram
  - 5) Location Plat
- The drill layout for the location will be based on the Neighbor 260 rig.

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. I hereby certify that this report is true and complete to the best of my knowledge

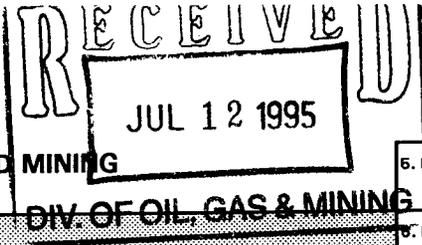
Signed: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 95-06-05

API No. 43-043-30100

Approved by *J.P. Matthews* Title: *Petroleum Engineer* Date: *6/30/95*

Conditions of approval, if any:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



6. Lease Designation and Serial No. \_\_\_\_\_  
UPRC Fee \_\_\_\_\_

8. If Indian, Allottee or Tribe Name  
NA

7. Unit Agreement Name  
NA

8. Well Name and Number  
CCD 846A-1R

9. API Well Number  
43-043-30100

10. Field and Pool, or Wildcat  
Cave Creek

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:  
OIL ( )      GAS ( X )      OTHER:

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7    MS 3006    Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages    707' FNL, 2342' FWL Section 25, T. 5 N., R. 7 E.      County    Summit

QQ, Sec., T., R., M.      NENW Section 25, T. 5 N., R. 7 E.      State    Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Test	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off Shutoff
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shutoff	<input type="checkbox"/> Other _____	
<input checked="" type="checkbox"/> Other: Change of Operatorship			

Approximate date work will start: \_\_\_\_\_

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company has purchased all of Amoco's right and title in the above referenced well and is now Operator of Record for the well.

Please see accompany Bill of Sale and Assignment covering the transfer of ownership.

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton W.F. Brazelton Title: Senior Regulatory Analyst Date: 95-07-11

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED  
JUL 12 1995  
DIV. OF OIL, GAS & MINING

6. Lease Designation and Serial No.  
UPRC Fee

8. If Indian, Allottee or Tribe Name  
NA

7. Unit Agreement Name  
NA

8. Well Name and Number  
CCD 846A-1R

9. API Well Number  
43-043-30100

10. Field and Pool, or Wildcat  
Cave Creek

SUNDRY NOTICES AND REPORTS ON WELLS

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1. Type of Well:  
OIL ( ) GAS ( X ) OTHER:

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well  
Footages 707' FNL, 2342' FWL Section 25, T. 5 N., R. 7 E. County Summit  
QQ, Sec., T., R., M. NENW Section 25, T. 5 N., R. 7 E. State Utah

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

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Test
- Multiple Completion
- Other: Change of Operatorship
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shutoff

Approximate date work will start:

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Shoot of Acidize
- Vent or Flare
- Water Shut-Off Shutoff

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company has purchased all of Amoco's right and title in the above referenced well and is now Operator of Record for the well.

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If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.  
Name/Signature: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 95-07-11

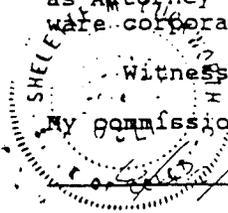
(This space for State use only)

STATE OF COLORADO )  
CITY AND : ss.  
COUNTY OF DENVER )

The foregoing instrument was acknowledged before me this  
14<sup>th</sup> day of August, 1991, by M. B. Gabe  
as Attorney-in-Fact on behalf of Amoco Production Company, a Dela-  
ware corporation.

Witness my hand and official seal.

My commission expires:



12/31/94

[Signature]  
NOTARY PUBLIC

STATE OF TEXAS )  
 : ss.  
COUNTY OF TARRANT )

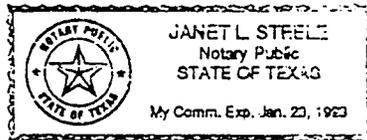
The foregoing instrument was acknowledged before me this  
28<sup>th</sup> day of August, 1991, by DALE H. BOSSERT  
as VICE PRESIDENT PRODUCTION on behalf of Union Pacific  
Resources Company.

Witness my hand and official seal.

My commission expires:

Jan. 23, 1993

[Signature]  
NOTARY PUBLIC



## LEASE SCHEDULE

EXHIBIT "A" PAGE 1 of 1 STATE OF UTAH COUNTY OF SUMMIT

AMOCO-CHAMPLIN-FAWCETT & SON WI UT /NAV/

LPN 631133---

FLAC 420276-8

LEASE NO.	LESSOR	LESSEE	DATE	DESCRIPTION	RECORDED BOOK	PAGE
LPN 602441---	Joseph O. Fawcett & Elizabeth Fawcett, husband & wife	Amoco Production Company	June 18, 1971	<u>Township 5 North, Range 7 East</u> Section 36: All	M-32	329
LPN 615845---	Champlin Petroleum Company	Amoco Production Company	October 28, 1975	<u>Township 5 North, Range 7 East</u> Section 25: W $\frac{1}{2}$ , SE $\frac{1}{4}$	M-77	169
LPN 617371---	Champlin Petroleum Company	Amoco Production Company	October 30, 1976	<u>Township 5 North, Range 7 East</u> Section 35: W $\frac{1}{2}$ , SE $\frac{1}{4}$	M-89	137

--- 116

CONTRACTS:

Operating Agreement (Cave Creek Area) dated August 16, 1978 between Amoco Production Company as Operator and Champlin Petroleum Company as Non-Operator. (C-89,402).

The rights covered hereby are LIMITED to all depths and formations lying below the base of the Nugget formation defined as the stratigraphic equivalent of 8205 feet as found in the Fawcett & Sons, Inc. #1 well.

ERR, NO...  
F Dec 10 22 91 at 10:4 : Page 10 2  
F. LYNN D. FOX, UINTEA COUNTY CLERK  
\$98.50 By [Signature]  
Indexed  Abstract  Recorded

R 51668

UINTEA COUNTY  
WYOMING

ASSIGNMENT AND BILL OF SALE

THIS ASSIGNMENT AND BILL OF SALE ("Assignment") is made this 14th day of August, 1991, and is effective at 7:00 a.m. June 1, 1991, (the "Effective Date") by and between Amoco Production Company, a Delaware corporation with an office at 1670 Broadway, Denver, Colorado 80202 (herein called "Assignor"), and Union Pacific Resources Company, with a mailing address of 801 Cherry Street, Fort Worth, Texas 76102 (herein called "Assignee").

W I T N E S S E T H:

Assignor in consideration of Ten Dollars (\$10.00) cash and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, does hereby GRANT, SELL, CONVEY, ASSIGN, and DELIVER unto Assignee all of the following:

- A. All right, title and interest of Assignor in and to the oil and gas leases described on Exhibit "A" (attached hereto and made a part hereof for all purposes), insofar as said leases cover the lands which are specifically described in Exhibit "A" opposite the separate designation of said lease, subject, however, to the depth limitations described on Exhibit "A" ("the Leases") and subject to any restrictions, exceptions, reservations, conditions, limitations, burdens, contracts, agreements and other matters applicable to such leases and interests;
- B. All right, title and interest of Assignor in, to and under, or derived from, all presently existing and valid oil, gas or mineral unitization, pooling, operating and communitization agreements, declarations and orders, and in and to the properties covered and the units created thereby, which are appurtenant to the Leases;
- C. All right, title and interest of Assignor in, to and under, or derived from, all presently existing and valid oil and gas sales, purchase, exchange and processing contracts, casing-head gas contracts, operating agreements, joint venture agreements, partnership agreements, and other contracts, agreements and instruments, insofar as the same are appurtenant to the Leases;
- D. All right, title and interest of Assignor in and to all wells, equipment, fixtures and personal property located on the lands described on Exhibit "A" which are appurtenant to the Leases.
- E. All right, title and interest of Assignor in the Wasatch Flare System being the equipment and gathering system for the Yellow Creek Deep Test System, including the surface rights in the SE/4 of Section 1, Township 5 North, Range 7 East, Summit County, Utah and all easements, rights-of-way and other interests and agreements owned or held in connection with such system.
- F. All right, title and interest of Assignor in easements, rights-of-way, permits, licenses, surface leases and other surface rights owned or held in connection with the Leases or any wells or equipment located thereon, including rights-of-way obtained in connection with a proposed gathering system from the Yellow Creek Deep Field and Cave Creek Deep Field to the Whitney Canyon Gas Plant.

All of the foregoing leases, interest, rights and properties described in paragraphs A through F. above, are herein called the "Properties" located in Uinta County, Wyoming.

To have and to hold the Properties forever, subject to the following:

1. Assignee hereby assumes and agrees to perform and be bound by all provisions of the subject leases and all contractual duties and obligations of Assignor as owner of the Properties to the extent that the same are valid and subsisting on the Effective Date. Assignee shall, at its sole expense, comply with all laws, rules, regulations, orders and ordinances (collectively the "laws") of any governmental authority claiming jurisdiction over the Leases, including but not limited to those laws pertaining to the abandonment of wells, the plugging of inactive wells and the restoration of the surface.

2. Assignor does not in any manner warrant the condition, serviceability or recoverability of the wells, equipment and personal property hereby conveyed, and Assignee accepts all such property in its present condition. Assignee hereby assumes sole and complete responsibility for the property and timely removal of said equipment and personal property from the Properties in accordance with any applicable oil and gas lease and governmental regulations pertaining thereto and, from and after the Effective Date, for any and all damages or liability arising out of or in any way connected with said equipment and its removal, use and maintenance.

3. THIS ASSIGNMENT IS MADE WITHOUT REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF TITLE, THE WARRANTY OF MERCHANTABILITY OR THE WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

4. Assignor reserves the right to use as much of the surface of the acreage as may be necessary in the conduct of operations in those zones, formations and depths not assigned to Assignee herein. Assignor further reserves the right to drill through the depths, zones and formations herein assigned to Assignee in conducting such operations in the depths, zones and formations not assigned herein. Assignor reserves the joint right to use any easements and rights of way for its operations on the land covered hereby or on other lands in the area.

5. Assignor shall execute such forms of assignment conveying Assignor's interest in the Properties as may be required by any governmental authority to conform to governmental regulation and such assignments shall not serve to enlarge or diminish the rights herein conveyed.

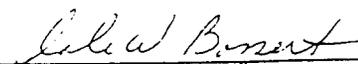
6. This assignment shall be binding upon and inure to the benefit of Assignee and Assignor and their respective successors and assigns.

Executed as of the day and year first above written.

AMOCO PRODUCTION COMPANY

By:   
Attorney-in-Fact

UNION PACIFIC RESOURCES COMPANY

By:   
Title: VICE PRESIDENT PRODUCTION

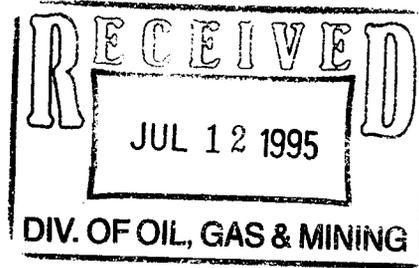


**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

July 11, 1995

Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
3 Triad Center - Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84190



ATTN: Mr. Mike Hebertson

RE: **Sundry Notice of Change of Operatorship  
UPRC CCD 846A-1R  
Section 25, T. 5 N., R. 7 E.  
Summit County, Utah**

Dear Mike:

Enclosed for your further handling is one original and one copy of a Sundry Notice of Change of Operatorship for the above referenced well. Attached to each document is a copy of the Bill of Sale and Assignment covering the purchase of the property from Amoco by Union Pacific Resources Company.

Please call me at (817) 877-7952, FAX (817) 877-7942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY

W. F. Brazelton  
Senior Regulatory Analyst

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:	
1	REC 7-PL (0)
2	LWP 8-SJ
3	DTA 9-FILE
4	VLC
5	RJF
6	LWP

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator               Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 6-1-91)

TO (new operator)	<u>UNION PACIFIC RESOURCES CO</u>	FROM (former operator)	<u>AMOCO PRODUCTION COMPANY</u>
(address)	<u>PO BOX 7 MS 2602</u>	(address)	<u>PO BOX 800</u>
	<u>FT WORTH TX 76101-0007</u>		<u>DENVER CO 80201</u>
	phone ( <u>817</u> ) <u>877-6490</u>		phone ( <u>303</u> ) <u>830-5340</u>
	account no. <u>N 9465</u>		account no. <u>N 0050</u>

Well(s) (attach additional page if needed):

Name:	<u>UPRC GCD 846-A-1R/DRL</u>	API:	<u>43-043-30100</u>	Entity:	<u>99999</u>	Sec	<u>25</u>	Twp	<u>5N</u>	Rng	<u>7E</u>	Lease Type:	<u>FEE</u>
Name:	_____	API:	_____	Entity:	_____	Sec	_____	Twp	_____	Rng	_____	Lease Type:	_____
Name:	_____	API:	_____	Entity:	_____	Sec	_____	Twp	_____	Rng	_____	Lease Type:	_____
Name:	_____	API:	_____	Entity:	_____	Sec	_____	Twp	_____	Rng	_____	Lease Type:	_____
Name:	_____	API:	_____	Entity:	_____	Sec	_____	Twp	_____	Rng	_____	Lease Type:	_____
Name:	_____	API:	_____	Entity:	_____	Sec	_____	Twp	_____	Rng	_____	Lease Type:	_____

**OPERATOR CHANGE DOCUMENTATION**

- 1 (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 7-12-95)*
- 2 (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 7-12-95)*
- N/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) \_\_\_\_ If yes, show company file number: \_\_\_\_\_.
- N/A 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 1 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(7-12-95)*
- 1 6. Cardex file has been updated for each well listed above. *7-12-95*
- 1 7. Well file labels have been updated for each well listed above. *7-12-95*
- 1 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(7-12-95)*
- 1 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- lec* 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? *(yes/no)* no (If entity assignments were changed, attach copies of Form 6, Entity Action Form)
- lec* *N/A* 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

**BOND VERIFICATION (Fee wells only)**

1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
2. A copy of this form has been placed in the new and former operators' bond files.
3. The former operator has requested a release of liability from their bond (yes/no) \_\_\_\_\_. Today's date \_\_\_\_\_ 19\_\_\_\_. If yes, division response was made by letter dated \_\_\_\_\_ 19\_\_\_\_.

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A* 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated \_\_\_\_\_ 19\_\_\_\_, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested. *No longer done per ROT*
- N/A* 2. Copies of documents have been sent to State Lands for changes involving State leases.

**FILMING**

1. All attachments to this form have been microfilmed. Date: \_\_\_\_\_ 19\_\_\_\_.

**FILING**

1. Copies of all attachments to this form have been filed in each well file.
2. The original of this form and the original attachments have been filed in the Operator Change file.

**COMMENTS**

00

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals</small>	6. Lease Designation and Serial No. <b>UPRC Fee</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
1. Type of Well: <b>OIL ( ) GAS ( X ) OTHER:</b>	7. Unit Agreement Name <b>NA</b>
2. Name of Operator <b>Union Pacific Resources Company</b>	8. Well Name and Number <b>UPRC CCD 846A-1R</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)</b>	9. API Well Number <b>43-043-30100</b>
4. Location of Well Footages <b>707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.</b> County <b>Summit</b> QQ, Sec., T., R., M. <b>NENW Sec. 25, T. 5 N., R. 7 E.</b> State <b>Utah</b>	10. Field and Pool, or Wildcat <b>Cave Creek</b>

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

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Test <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other:	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other: Weekly Progress Report
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shutoff	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off Shutoff
Approximate date work will start: <b>June 15, 1995</b>	Date of work completion _____ Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

Weekly Progress Report No. 2, Week Ending July 17, 1995

Work on milling a window in the existing casing at 7284' MD began on July 15, 1995.

Please refer to accompanying Daily Operations Summaries for detail



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton Title: Senior Regulatory Analyst Date: 95-07-18

(This space for State use only)

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 4

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
07/14/95	7284.		<p>FIRST REPORT OF OPERATIONS TO REENTER THE CHAMPLIN 846 AMOCO A #1 WELL IN THE CAVE CREEK FIELD OF SUMMIT CO., UTAH. PLANS ARE TO SIDETRACK OUT OF 9-5/8" CASING AND DIRECTIONAL DRILL THROUGH THE "PHOSPHORIA" TO A PROPOSED TD OF 11780' TVD/12550' MD.</p> <p>AFE#: 21242 API#: 43-043-30100 UPRC WI: 100%            GL: 6662.0'20.RKB TO GL:6682.0 '20. RKB TO 11" CHF:6682.0 '            SL: 707' FNL &amp; 2343' FWL OF SEC25-T5N R7E            PHOSPHORIA: 1824' FNL &amp; 840' FEL @ 11,170'            TVD OF SEC25-T5N R7E            PROPOSED BHL: 2000' FNL &amp; 460' FEL @ 11,800'            TVD OF SEC25-T5N R7E</p>
		05:00 06:00	MIRU NABORS 270
		06:00 14:00	NIPPLE UP 13 5/8X5000, THRE RAM BOP WITH 5000 PSI. ANNUALAR
		14:00 22:00	TEST PIPE RAMS, BLIND RAMS, KILL LINE AND VALVES CHOKE LINE AND VALVES, FLOOR VALVES, KELLY VALVES TO 250 AND 5000 PSI. AND ANNUALAR TO 250 AND 1500 PSI. (SEALS ON ANNUALAR FAILED)
		22:00 24:00	RIG UP OWP AND SET EZSV AT 7284'
		24:00 05:00	WAITING ON REPAIRS FOR ANNUALAR
07/15/95	7284.	05:00 15:00	WEATHER IS 55 DEG. CLEAR AND CALM WORK ON ANNUALAR (WOULD NOT COME APART)
		15:00 16:00	WAITING ON ANNUALAR, RIG UP D&S CASING PICK UP MACHINE
		16:00 18:30	PICK UP 12- 6 1/2" DRILL COLLARS AND STAND BACK IN THE DERRICK
		18:30 01:30	PICK UP 221 JTS 5" DRILL PIPE
		01:30 02:30	RIG DOWN PICK UP MACHINE
		02:30 04:30	TRIP OUT AND STAND BACK DRILL PIPE IN THE DERRICK
		04:30 05:00	CHANGE OUT ANNUALAR
07/16/95	7257.	05:00 09:00	WEATHER IS 50 DEG. CLEAR AND CALM CHANGE OUT ANNUALAR
		09:00 10:00	TEST ANNUALAR TO 250 FOR 5 MIN. 1500 FOR 15 MIN
		10:00 11:30	PICK UP SMITH INTERNATIONAL ANCKOR STOCK AND STARTING MILL AND ORIENT TO MULE SHOE SUB
		11:30 15:00	TRIP IN AND TAG EZSV AT 7278' DRILL PIPE MEASUREMENT. (SLM,BOARD 7276' SLM 7280'NO CORR)
		15:00 19:00	RIG UP SCIENTIFIC EYE AND ORIENT ANCKOR STOCK

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 4

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			TO 115 AZ, WITH BTM OF ANCKOR STOCK AT 7276' AND TOP AT 7256' DRILL PIPE MEASURMENT
		19:00 24:00	SHEAR OFF ANCKOR STOCK AND MILL FROM 7256 TO 7257' WITH STARTING MILL
		24:00 02:30	TRIP OUT
		02:30 03:30	CHANGE OUT BHA, PICK UP WINDOW MILL, AND RUN IN DRILL COLLARS
		03:30 05:00	TRIP IN (SLM)
07/17/95	7276.	05:00 07:00	WEATHER IS 55 DEG. CLEAR AND CALM TRIP IN TRI MILL( SLM 7256,BOARD 7256' NO CORR)
		07:00 12:30	MILL 7258' TO 7274'
		12:30 14:30	REAM 7258' TO 7274'
		14:30 17:30	TRIP OUT
		17:30 19:00	LAY DOWN TRI MILL, MILLS 1/2" UNDER GUAGE, PICK UP TANDEM WINDOW MILLS
		19:00 21:00	TRIP IN TO 7256'
		21:00 02:30	REAM 7256' TO 7276'
		02:30 05:00	TRIP OUT FOR BUILD ASSEMBLY
			WEATHER IS 55 DEG. CLEAR AND CALM

**CONFIDENTIAL**

**STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial No.

UPRC Fee

6. If Indian, Allottee or Tribe Name

NA

7. Unit Agreement Name

NA

8. Well Name and Number

UPRC CCD 846A-1R

9. API Well Number

43-043-30100

10. Field and Pool, or Wildcat

Cave Creek

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:

OIL ( )      GAS ( X )      OTHER:

(RE-ENTRY)

2. Name of Operator

Union Pacific Resources Company

3. Address and Telephone Number

P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007

Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages      707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.

County

Summit

QQ, Sec., T., R., M.

NENW Sec. 25, T. 5 N., R. 7 E.

State

Utah

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

**NOTICE OF INTENT**

(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandonment             | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Casing Repair           | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans         | <input type="checkbox"/> Recompletion         |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize     |
| <input type="checkbox"/> Fracture Test           | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion     | <input type="checkbox"/> Water Shutoff        |
| <input type="checkbox"/> Other:                  |   |

Approximate date work will start: June 15, 1995

**SUBSEQUENT REPORT**

(Submit Original Form Only)

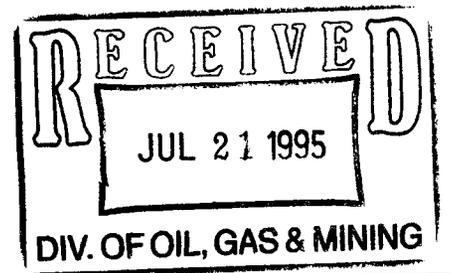
- |   |   |
|---|---|
| <input type="checkbox"/> Abandonment *                            | <input type="checkbox"/> New Construction       |
| <input type="checkbox"/> Casing Repair                            | <input type="checkbox"/> Pull or Alter Casing   |
| <input type="checkbox"/> Change of Plans                          | <input type="checkbox"/> Shoot or Acidize       |
| <input type="checkbox"/> Conversion to Injection                  | <input type="checkbox"/> Vent or Flare          |
| <input type="checkbox"/> Fracture Treat                           | <input type="checkbox"/> Water Shut-Off Shutoff |
| <input checked="" type="checkbox"/> Other: Weekly Progress Report |   |

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company completed milling a window in the existing casing in the well and commenced drilling the new lateral July 19, 1995.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton

W. F. Brazelton

Title: Senior Regulatory Analyst

Date: 95-07-20

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>	5. Lease Designation and Serial No. <b>UPRC Fee</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
1. Type of Well: <b>OIL ( ) GAS ( X ) OTHER:</b>	7. Unit Agreement Name <b>NA</b>
2. Name of Operator <b>Union Pacific Resources Company</b>	8. Well Name and Number <b>UPRC CCD 846A-1R</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)</b>	9. API Well Number <b>43-043-30100</b>
	10. Field and Pool, or Wildcat <b>Cave Creek</b>

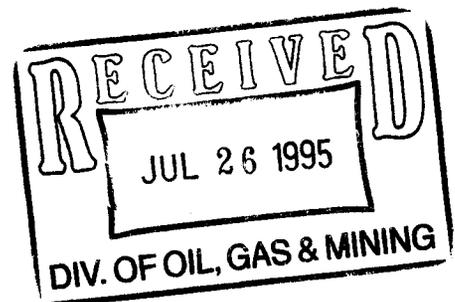
4. Location of Well  
Footages **707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.** County **Summit**  
OO, Sec., T., R., M. **NEW Sec. 25, T. 5 N., R. 7 E.** State **Utah**

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

<p style="text-align: center;"><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <p>( ) Abandonment                      ( ) New Construction ( ) Casing Repair                    ( ) Pull or Alter Casing ( ) Change of Plans                   ( ) Recompletion ( ) Conversion to Injection        ( ) Shoot or Acidize ( ) Fracture Test                    ( ) Vent or Flare ( ) Multiple Completion            ( ) Water Shutoff ( ) Other:</p> <p>Approximate date work will start: <b>June 15, 1995</b></p>	<p style="text-align: center;"><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <p>( ) Abandonment *                    ( ) New Construction ( ) Casing Repair                    ( ) Pull or Alter Casing ( ) Change of Plans                   ( ) Shoot or Acidize ( ) Conversion to Injection        ( ) Vent or Flare ( ) Fracture Treat                    ( ) Water Shut-Off Shutoff ( X ) Other: Weekly Progress Report</p> <p>Date of work completion _____</p> <p>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

**Weekly Progress Report No. 3, Week Ending July 24, 1995**  
**Actual redrill operations began July 18, 1995**  
Please refer to accompanying Daily Operations Summaries for detail



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: **W. F. Brazelton** *W. F. Brazelton* Title: **Senior Regulatory Analyst** Date: **95-07-24**

(This space for State use only)

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
07/14/95	7284.		<p>FIRST REPORT OF OPERATIONS TO REENTER THE CHAMPLIN 846 AMOCO A #1 WELL IN THE CAVE CREEK FIELD OF SUMMIT CO., UTAH. PLANS ARE TO SIDETRACK OUT OF 9-5/8" CASING AND DIRECTIONAL DRILL THROUGH THE "PHOSPHORIA" TO A PROPOSED TD OF 11780' TVD/12550' MD.</p> <p>AFE#: 21242 API#: 43-043-30100 UPRC WI: 100%            GL: 6662.0'20.RKB TO GL:6682.0 '20. RKB TO 11' CHF:6682.0 '            SL: 707' FNL &amp; 2343' FWL OF SEC25-T5N R7E            PHOSPHORIA: 1824' FNL &amp; 840' FEL @ 11,170'            TVD OF SEC25-T5N R7E            PROPOSED BHL: 2000' FNL &amp; 460' FEL @ 11,800'            TVD OF SEC25-T5N R7E</p>
		05:00 06:00	MIRU NABORS 270
		06:00 14:00	NIPPLE UP 13 5/8X5000, THRE RAM BOP WITH 5000 PSI. ANNUALAR
		14:00 22:00	TEST PIPE RAMS, BLIND RAMS, KILL LINE AND VALVES CHOKE LINE AND VALVES, FLOOR VALVES, KELLY VALVES TO 250 AND 5000 PSI. AND ANNUALAR TO 250 AND 1500 PSI. (SEALS ON ANNUALAR FAILED)
		22:00 24:00	RIG UP OWP AND SET EZSV AT 7284'
		24:00 05:00	WAITING ON REPAIRS FOR ANNUALAR
07/15/95	7284.	05:00 15:00	WEATHER IS 55 DEG. CLEAR AND CALM WORK ON ANNUALAR (WOULD NOT COME APART)
		15:00 16:00	WAITING ON ANNUALAR, RIG UP D&S CASING PICK UP MACHINE
		16:00 18:30	PICK UP 12- 6 1/2" DRILL COLLARS AND STAND BACK IN THE DERRICK
		18:30 01:30	PICK UP 221 JTS 5" DRILL PIPE
		01:30 02:30	RIG DOWN PICK UP MACHINE
		02:30 04:30	TRIP OUT AND STAND BACK DRILL PIPE IN THE DERRICK
		04:30 05:00	CHANGE OUT ANNUALAR
07/16/95	7257.	05:00 09:00	WEATHER IS 50 DEG. CLEAR AND CALM CHANGE OUT ANNUALAR
		09:00 10:00	TEST ANNUALAR TO 250 FOR 5 MIN. 1500 FOR 15 MIN
		10:00 11:30	PICK UP SMITH INTERNATIONAL ANCKOR STOCK AND STARTING MILL AND ORIENT TO MULE SHOE SUB
		11:30 15:00	TRIP IN AND TAG EZSV AT 7278' DRILL PIPE MEASUREMENT. (SLM, BOARD 7276' SLM 7280' NO CORR)
		15:00 19:00	RIG UP SCIENTIFIC EYE AND ORIENT ANCKOR STOCK

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			TO 115 AZ, WITH BTM OF ANCKOR STOCK AT 7276' AND TOP AT 7256' DRILL PIPE MEASUREMENT
		19:00 24:00	SHEAR OFF ANCKOR STOCK AND MILL FROM 7256 TO 7257' WITH STARTING MILL
		24:00 02:30	TRIP OUT
		02:30 03:30	CHANGE OUT BHA, PICK UP WINDOW MILL, AND RUN IN DRILL COLLARS
		03:30 05:00	TRIP IN (SLM)
07/17/95	7276.	05:00 07:00	WEATHER IS 55 DEG. CLEAR AND CALM TRIP IN TRI MILL( SLM 7256,BOARD 7256' NO CORR)
		07:00 12:30	MILL 7258' TO 7274'
		12:30 14:30	REAM 7258' TO 7274'
		14:30 17:30	TRIP OUT
		17:30 19:00	LAY DOWN TRI MILL, MILLS 1/2" UNDER GUAGE, PICK UP TANDEM WINDOW MILLS
		19:00 21:00	TRIP IN TO 7256'
		21:00 02:30	REAM 7256' TO 7276'
		02:30 05:00	TRIP OUT FOR BUILD ASSEMBLY
07/18/95	7640.		WEATHER IS 55 DEG. CLEAR AND CALM
		05:00 05:30	POOH / LD 2 JTS DP & WINDOW MILLS
		05:30 07:00	PU 9 X 6 1/2 DC'S (WAIT ON SPERRY MWD)
		07:00 09:30	PU MOTOR / MONEL DC'S / MWD
		09:30 13:00	RIH WITH DIRECTIONAL BHA (SHALLOW MWD TEST)
		13:00 15:00	DRILL SLIDE HIGH SIDE 7276 TO 7291 / 15 FT
		15:00 15:30	DRILL ROTATE 7291 TO 7297 / 6 FT
		15:30 16:00	SERVICE RIG
		16:00 16:30	DRILL ROTATE 7297 TO 7327 / 30 FT
		16:30 17:00	SURVEY 7.3 DEGREES (NO AZIMUTH DUE TO STEEL INTERFERENCE)
		17:00 18:00	DRILL ROTATE 7327 TO 7359 / 32 FT
		18:00 19:00	DRILL SLIDE TF30L 7359 TO 7380 / 21 FT
		19:00 19:30	DRILL ROTATE 7380 TO 7390 / 10 FT
		19:30 20:00	SURVEY 8.4 DEGREES S31.1E / 148.9 7338 FT
		20:00 20:30	DRILL SLIDE TF60L 7390 TO 7400 / 10 FT
		20:30 21:30	DRILL ROTATE 7400 TO 7453 / 53 FT
		21:30 22:00	DRILL SLIDE TF70L 7453 TO 7468 / 15 FT
		22:00 23:00	DRILL ROTATE 7468 TO 7484 / 16 FT

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
07/19/95	8040.	23:00 23:30	SURVEY 8.6 DEGREES S15.7E / 164.3 7369 FT SURVEY 9.6 DEGREES S37.6E / 142.4 7401 FT SURVEY 10.3 DEGREES S47.9E / 132.1 7432 FT
		23:30 04:00	DRILL ROTATE 7484 TO 7640 / 156 FT
		04:00 05:00	SURVEY ON CONNECTIONS (4 X 15 MINUTES)
		05:00 08:00	DRILL ROTATE 7640 TO 7732 / 92 FT
		08:00 08:30	SERVICE RIG
		08:30 09:30	DRILL ROTATE 7732 TO 7764 / 32 FT
		09:30 10:30	DRILL SLIDE TF60R 7764 TO 7778 / 14 FT
		10:30 13:00	DRILL ROTATE 7778 TO 7869/ 91 FT
		13:00 14:00	DRILL SLIDE TF85R 7869 TO 7877 / 8 FT
		14:00 16:30	DRILL ROTATE 7877 TO 7921/ 44 FT
		16:30 17:30	DRILL SLIDE TF80R 7921 TO 7946 / 25 FT
		17:30 18:00	DRILL ROTATE 7946 TO 7981 / 35 FT
		18:00 19:00	CUMMUTATIVE SURVEY TIME FROM 0500 HRS TO 1900 HRS
07/20/95	8170.	19:00 01:00	DRILL SLIDE TF70R 7981 TO 8011 / 30 FT
		01:00 01:30	SURVEY
		01:30 04:00	DRILL ROTATE 8011 TO 8040 / 29 FT
		04:00 05:00	POOH TO CHECK PDM / BIT (TORQUE OUT & STALLS)
		05:00 08:00	POOH TO INSPECT PDM / BIT
		08:00 09:00	WAITING ON MAGNET & PU MAGNET
		09:00 12:00	RIH WITH MAGNET
		12:00 12:30	WORK MAGNET TO RECOVER JUNK FROM BOTTOM
		12:30 16:30	POOH WITH MAGNET (RECOVERED CONE CAP & METAL) FULL RECOVERY
		16:30 17:30	PU 1.25 DEGREE MOTOR (CENTER PORTED .23 RPM/G)
		17:30 20:30	RIH WITH PDM (SHALLOW TEST AT DC'S)
		20:30 22:00	WASH DOWN FROM 7905 TO 8000 REAM UNDERGAUGE HOLE FROM 8000 TO 8040
		22:00 22:30	DRILL ROTATE 8040 TO 8042 (PATTERN BIT ON BTM)
22:30 23:30	DRILL SLIDE TF90R 8042 TO 8057 / 15 FT		
23:30 00:30	DRILL ROTATE 8057 TO 8074 / 17 FT		
00:30 02:30	DRILL SLIDE TF90R 8074 TO 8106 / 32 FT		
02:30 04:15	DRILL ROTATE 8106 TO 8170 / 64 FT		
04:15 05:00	CUMMUTATIVE SURVEY TIME FROM 0500 HRS TO 0500 HRS		
07/21/95	8375.		NOTE: LOSSING 60 TO 75 BBL / HOUR WATER TO THE FORMATION
		05:00 08:00	DRILL ROTATE 8170 TO 8229 / 59 FT (LOST 550 BBL OF WATER) 36% LOSSES

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		08:00 09:00	DRILL SLIDE TF20R 8229 TO 8234 / 6 FT (LOST 200 BBL OF WATER) 40% LOSSES
		09:00 10:00	DRILL ROTATE 8234 TO 8261 / 27 FT (LOST 200 BBL OF MUD) 38% LOSSES
		10:00 11:00	DRILL SLIDE TF05L 8261 TO 8276 / 42 FT (LOST 175 BBL OF MUD) 34% LOSSES MIX 10 PPB OF LCM (MICA/SAWDUST/WALNUTS/ CEDAR/PERMA)
		11:00 14:30	DRILL ROTATE 8276 TO 8324 / 48 FT (LOST 600 BBL OF MUD) 30% LOSSES
		14:30 15:00	SERVICE RIG (LOST 60 BBL WHILE STATIC)
		15:00 22:00	DRILL SLIDE TF15L 8324 TO 8370 / 46 FT (LOST 750 BBL OF MUD) 27% LOSSES
		22:00 23:00	DRILL ROTATE 8370 TO 8375 / 5 FT (LOST 100 BBL OF MUD) 25% LOSSES
		23:00 23:30	POOH 15 STDS (PULL PDM INTO CASING)
		23:30 02:00	MIX 200 BBL OF 35 PPB LCM PILL
		02:00 02:30	RIH 15 STDS TO TAG BOTTOM
		02:30 03:15	PUMP 150 BBL OF 35 PPB LCM PILL & 100 BBL OF FRESH MUD
		03:15 04:00	POH 15 STDS (PULL PDM INTO CASING)
		04:00 05:00	MIX 100 BBL OF 35-45 PPB LCM PILL
			NOTE: TOTAL LOSSES LAST 24 HRS 750 BBL WATER / 2235 BBL MUD
07/22/95	8454.	05:00 05:30	MIX 35 TO 45 PPB LCM PILL
		05:30 06:00	RIH TO BOTTOM AT 8375
		06:00 06:30	PUMP 35 TO 45 PPB LCM PILL
		06:30 08:00	DRILL ROTATE 8375 TO 8387 / 12 FT (2% LOSSES)
		08:00 08:30	DRILL SLIDE 8387 TO 8388 TF20L (WILL NOT SLIDE)
		08:30 09:00	DRILL ROTATE 8388 TO 8393 / 5 FT (2% LOSSES)
		09:00 11:00	DRILL SLIDE 8393 TO 8398 / 5 FT (2% LOSSES)
		11:00 14:30	POOH TO CHECK PDM / BIT
		14:30 16:00	PU/LD BHA & TOOLS (CHANGE PDM & BIT)
		16:00 17:00	RIH WITH DC'S

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		17:00 18:00	SLIP & CUT DRILL LINE
		18:00 18:30	SERVICE RIG
		18:30 19:00	SHALLOW TEST MWD EQUIPMENT
		19:00 20:00	RIH TO 8311 FT
		20:00 21:30	REAM 8311 TO 8398 / 87 FT
		21:30 01:00	DRILL SLIDE 8398 TO 8413 TF10L / 15 FT
		01:00 05:00	DRILL ROTATE 8413 TO 8454 / 41 FT
07/23/95	8540.	05:00 07:30	DRILL SLIDE 8454 TO 8464 / 10 FT TF15L WOB 40
		07:30 08:00	DRILL ROTATE 8464 TO 8468 / 4 FT
		08:00 08:30	DRILL SLIDE 8468 TO 8470 / 2 FT TF10L WOB 40
		08:30 09:00	DRILL ROTATE 8470 TO 8474 / 4 FT
		09:00 11:00	DRILL SLIDE 8474 TO 8485 / 11 FT TF30L WOB 35
		11:00 13:00	DRILL ROTATE 8485 TO 8501 / 16 FT
		13:00 15:30	DRILL SLIDE 8501 TO 8516 / 15 FT TF30L WOB 38
		15:30 17:00	DRILL ROTATE 8516 TO 8530 / 14 FT
		17:00 18:00	DRILL SLIDE 8530 TO 8532 / 2 FT TF30L WOB 45
		18:00 23:00	POOH FOR 425 PSI PRESSURE LOSS (POSSIBLE WASH) LAY DOWN STABILIZER / COULD FIND NO WASH
		23:00 24:00	SERVICE MWD TOOLS AND MAKE UP BHA
		24:00 01:00	RIH WITH DC'S AND SHALLOW TEST MWD
		01:00 03:00	RIH / KELLY UP AT 3400 / 6000 / 8500 FT
		03:00 03:30	WASH TO BOTTOM FROM 8497 TO 8534 FT / 37 FT
		03:30 05:00	DRILL SLIDE 8534 TO 8540 / 6 FT TF20L WOB 43
07/24/95	8813.	05:00 06:00	DRILL SLIDE 8540 TO 8544. TF15L WOB 45 4 FT
		06:00 07:30	DRILL ROTATE 8544 TO 8560. 16 FT
		07:30 08:30	DRILL SLIDE 8560 TO 8575. TF30L WOB 40 15 FT
		08:30 10:00	DRILL ROTATE 8575 TO 8590. 15 FT
		10:00 12:00	DRILL SLIDE 8590 TO 8607. TF30L WOB 45. 17 FT.
		12:00 12:30	DRILL ROTATE 8607 TO 8622. 15 FT
		12:30 14:30	DRILL SLIDE 8622 TO 8637. TF45L. WOB 40

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R  
AFE No. :021242  
FIELD :CAVE CREEK

WELL No. :1R  
API No. :43-043-30100  
RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 1 TO REPORT No. 11

**DATE DEPTH TIME WORK DESCRIPTION DIARY**

		14:30 15:00	SURVEY @ 8585 FT.
		15:00 17:00	DRILL ROTATE 8637 TO 8669. 32 FT
		17:00 17:30	SURVEY @ 8617 FT.
		17:30 23:00	DRILL ROTATE 8669 TO 8736. 33 FT
		23:00 23:30	SURVEY @ 8712 FT.
		23:30 03:00	DRILL ROTATE 8736 TO 8795. 59 FT
		03:00 03:30	COMMUNITIVE SURVEY TIME
		03:30 05:00	DRILL ROTATE 8795 TO 8813. 19 FT.



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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	6. If Indian, Allottee or Tribe Name NA
1. Type of Well:  OIL ( )      GAS ( X )      OTHER: <u>  </u>	7. Unit Agreement Name NA
	8. Well Name and Number UPRC CCD 846A-1R
2. Name of Operator Union Pacific Resources Company	9. API Well Number 43-043-30100
3. Address and Telephone Number P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)	10. Field and Pool, or Wildcat  Cave Creek

4. Location of Well

Footages	707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.	County	Summit
OO, Sec., T., R., M.	NENW Sec. 25, T. 5 N., R. 7 E.	State	Utah

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

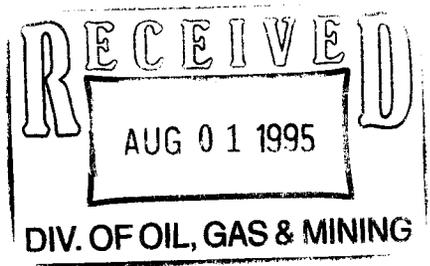
NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input type="checkbox"/> Other: _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input checked="" type="checkbox"/> Other: Weekly Progress Report
Approximate date work will start: June 15, 1995	Date of work completion _____ <small>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>

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

Weekly Progress Report No. 4, Week Ending July 31, 1995

Drilling operations on the new horizontal lateral began July 18, 1995

Please refer to accompanying Daily Operations Summaries for detail



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton Title: Senior Regulatory Analyst Date: 95-07-31

(This space for State use only)

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 18

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
07/25/95	9070.	05:00 06:00	DRILL ROTATE 8813 TO 8827. 14 FT.(LOST 250 BBL MUD @ 8817)
		06:00 06:30	COMMUNITIVE SURVEY. CHECK FOR FLOW
		06:30 11:00	DRILL ROTATE 8827 TO 8890. 63 FT.
		11:00 11:30	COMMUNITIVE SURVEY. CHECK FOR FLOW FUNCTION TEST BOP
		11:30 16:00	DRILL ROTATE 8890 TO 8953. 63 FT.
		16:00 16:30	SURVEY @ 8901
		16:30 18:00	DRILL SLIDE 8953 TO 8967. TF90L. 45 WT.
		18:00 19:00	DRILL ROTATE 8967 TO 8984. 17 FT.
		19:00 19:30	SURVEY @ 8932
		19:30 22:00	DRILL SLIDE 8984 TO 8999. TF20L. 45 WT
		22:00 23:30	DRILL ROTATE 8999 TO 9016. 17 FT
		23:30 02:00	DRILL SLIDE 9016 TO 9030. TF60L. 40 WT.
		02:00 03:00	DRILL ROTATE 9030 TO 9048. 18 FT.
		03:00 03:30	SURVEY @ 8996
07/26/95	9182.	03:30 05:00	DRILL ROTATE 9048 TO 9070. 22 FT
		05:00 06:00	DRILL ROTATE 9070 TO 9079. 9 FT.
		06:00 10:30	DRILL SLIDE 9079 TO 9103. TF80L. 40 WT.
		10:30 11:00	DRILL ROTATE 9103 TO 9110. 7 FT.
		11:00 11:30	SURVEY @ 9089. RIG SERV. FUNCTION TEST BOP
		11:30 14:00	DRILL ROTATE 9110 TO 9141. 31 FT.
		14:00 18:00	DRILL SLIDE 9141 TO 9161. TF80L. 40 WT.
		18:00 19:30	DRILL ROTATE 9161 TO 9174. 13 FT.
07/27/95	9452.	19:30 21:00	DRILL SLIDE 9174 TO 9182
		21:00 01:30	TRIP OUT W/ BHA #6
		01:30 05:00	TRIP IN W/ STABILIZED BHA #7
		05:00 05:30	TRIP IN W/ BHA # 7
		05:30 06:00	WASH/REAM 52'. 9130 TO 9182.(15' TIGHT)
		06:00 10:30	DRILL ROTATE 9182 TO 9241. 59 FT.
		10:30 11:00	SURUEY @ 9185. RIG SERVICE, FUNCTION TEST BOP

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 18

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		11:00 16:00	DRILL ROTATE 9241 TO 9319. 78 FT.
		16:00 16:30	SURVEY @ 9263
		16:30 18:30	DRILL SLIDE 9319 TO 9335. TF80L. 40 WT.
		18:30 19:00	SURVEY @ 9279
		19:00 22:00	DRILL ROTATE 9335 TO 9366. 31 FT. 40 WT.
		22:00 22:30	SURVEY @ 9310
		22:30 00:30	DRILL ROTATE 9366 TO 9398. 32 FT. 40 WT.
		00:30 01:00	SURVEY @ 9371
07/28/95	9709.	01:00 05:00	DRILL SLIDE 9398 TO 9452. 54 FT. 40 WT.
		05:00 05:30	DRILL SLIDE 9452 TO 9459. TF30L. 40 WT.
		05:30 06:00	SURVEY @ 9403
		06:00 09:00	DRILL SLIDE 9459 TO 9484. 25 FT. SLIDE 9484 TO 9490. TF H.S.
		09:00 09:30	COMMUNITIVE SURVEY
		09:30 13:00	DRILL ROTATE 9490 TO 9553. 63 FT. 42 WT.
		13:00 13:30	COMMUNITIVE SURVEY. RIG SERVICE, FUNCTION TEST BOP.
		13:30 17:00	DRILL ROTATE 9553 TO 9615. 62 FT. 42 WT.
		17:00 17:30	SURVEY @ 9528
		17:30 18:00	DRILL ROTATE 9615 TO 9625. 10 FT. 42 WT.
		18:00 22:30	DRILL SLIDE 9625 TO 9678. 53 FT. TFH.S.
		22:30 23:00	SURVEY @ 9622
		23:00 03:00	DRILL ROTATE 9678 TO 9709.
07/29/95	9798.	03:00 05:00	TRIP OUT (TORQUED DURING SLIDE & ROTATE)
		05:00 06:30	TRIP OUT W/ BIT #5. (ALL 3 CONE TIPS MISSING)
		06:30 10:30	TRIP IN W/ MAGNET
		10:30 12:00	WORK MAGNET, PUMP PILL
		12:00 16:00	TRIP OUT W/ MAGNET. (NO TIPS, ALL FILINGS)
		16:00 16:30	SERVICE RIG, FUNCTION TEST PIPE & BLIND RAMS
		16:30 18:30	TRIP IN W/ BHA. TEST MUD MOTOR.
		18:30 19:30	SLIP & CUT DRILL LINE
		19:30 21:30	TRIP IN W/ BHA #8

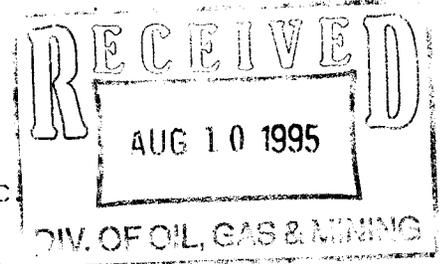
## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 12 TO REPORT No. 18

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		21:30 22:00	WASH/REAM 45' 9664 TO 9741
		22:00 00:30	DRILL ROTATE 9709 TO 9741. 32 FT. 40 WT.
		00:30 03:30	DRILL SLIDE 9741 TO 9770. TFH.S. 40 WT.
		03:30 04:00	SURVEY @ 9714
07/30/95	10078	04:00 05:00	DRILL ROTATE 9770 TO 9798. 28 FT. 40 WT
		05:00 06:00	DRILL ROTATE 9798 TO 9815. 17 FT.
		06:00 10:30	DRILL SLIDE 9815 TO 9863. TF H.S. 45-50 WT.
		10:30 11:00	SURVEY @ 9807, RIG SERVICE, FUNCTION TEST BOP
		11:00 15:00	DRILL SLIDE 9863 TO 9924. TF H.S. 45-50
		15:00 15:30	SURVEY @ 9868
		15:30 23:00	DRILL SLIDE 9924 TO 10016.TF H.S. 45
		23:00 23:30	SURVEY @ 9960
07/31/95	10162	23:30 05:00	DRILL SLIDE 10016 TO 10078. TF 30L. 45 WT.
		05:00 07:00	DRILL SLIDE 10078 TO 10090. TF30L. 45 WT.
		07:00 10:30	TRIP OUT W/ BHA #8.
		10:30 11:00	SERVICE RIG, FUNCTION TEST PIPE & BLIND RAMS & ANNULAR
		11:00 15:30	TRIP IN W/ BHA #9
		15:30 17:00	WASH/REAM 20' TO BOTTOM. ORIENT TOOL
		17:00 19:00	DRILL SLIDE 10090 TO 10110. TF30L. 45 WT.
		19:00 19:30	SURVEY @ 10089
		19:30 05:00	DRILL SLIDE 10110 TO 10152. TF30L



DOUBLE JACK TESTING & SERVICES, INC.

PHONE (307) 302-1020

B.O.P. TEST REPORT

B.O.P. TEST PERFORMED ON (DATE) 7/14/95 7/15/95

OIL COMPANY UPRC

WELL NAME & NUMBER CCO 846 AIR CAVE CREEK

SECTION 25 43-043-30100

TOWNSHIP 5N

RANGE 7E

COUNTY & STATE Summit Utah

DRILLING CONTRACTOR NABORS 270

OIL COMPANY SITE REPRESENTATIVE Doug

RIG TOOL PUSHER Pat

TESTED OUT OF EVANSTON

NOTIFIED PRIOR TO TEST

COPIES OF THIS TEST REPORT SENT TO: BLM

state

UPRC

NABORS

ORIGINAL CHART & TEST REPORT ON FILE AT:

Double Jack Testing & Ser., Inc. Inc.  
P. O. Box 2097  
Evanston, WY. 82931-2097

TESTED BY: Tom [Signature]

# Double Jack Testin & Services Inc.

FIELD TICKET  
No 11489

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390  
 Field Operations: Shoshoni, WY (307) 876-2308  
 Rock Springs, WY (307) 382-4020  
 Evanston, WY (307) 789-9213  
 Vernal, UT (801) 781-0448

DATE 7/14-7/15/95  
 OPERATOR UPRC  
 RIG NAME & NO. NABORS 270  
 WELL NAME & NO. CCD-486-AIR

COUNTY Summit STATE Utah SECTION 15 TOWNSHIP 5N RANGE 7E

Items Tested:	LOW TEST PSI	TIME HELD MINUTES	HIGHTEST PSI	TIME HELD MINUTES	
Top Pipe Rams	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	Closing Unit PSI <u>2950</u>
Bottom Pipe Rams	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	Closing Time of Rams <u>6500</u>
Blind Rams	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	Closing Time of Annular <u>13500</u>
Annular B.O.P.	<u>250</u>	<u>5min</u>	<u>1500</u>	<u>10min</u>	Closed Casing Head Valve <u>Yes</u>
Choke Manifold	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	Set Wear Sleeve <u>Yes</u>
Choke Line	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	COMMENTS
Kill Line	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Super Choke	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Upper Kelly	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Lower Kelly	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Floor Valve	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Dart Valve	<u>250</u>	<u>5min</u>	<u>5000</u>	<u>10min</u>	
Casing					

## ADDITIONAL TESTS & COMMENTS

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

TEST PLUG 10" C-22  
 RET. TOOL on location  
 TOP SUB. 4 1/2 IF  
 KELLY SUB. 4 1/2 IF  
 X-OVER SUB. 4 1/2 IF 1/2 IF Not

RATES  
 UNIT RATES 700.00 for the first 5 hrs on location 12:30-9:30pm 700.00  
 ADDITIONAL 18 hrs on location less 5 hrs 13 hrs 650.00  
 MILEAGE 50 miles round trip mileage E/Evanston shop @ 100 per 50.00  
 METHANOL \_\_\_\_\_  
 OTHER 7-15-95 50.00 per hour to retest HYDRIL 6:30-10:30 250.00

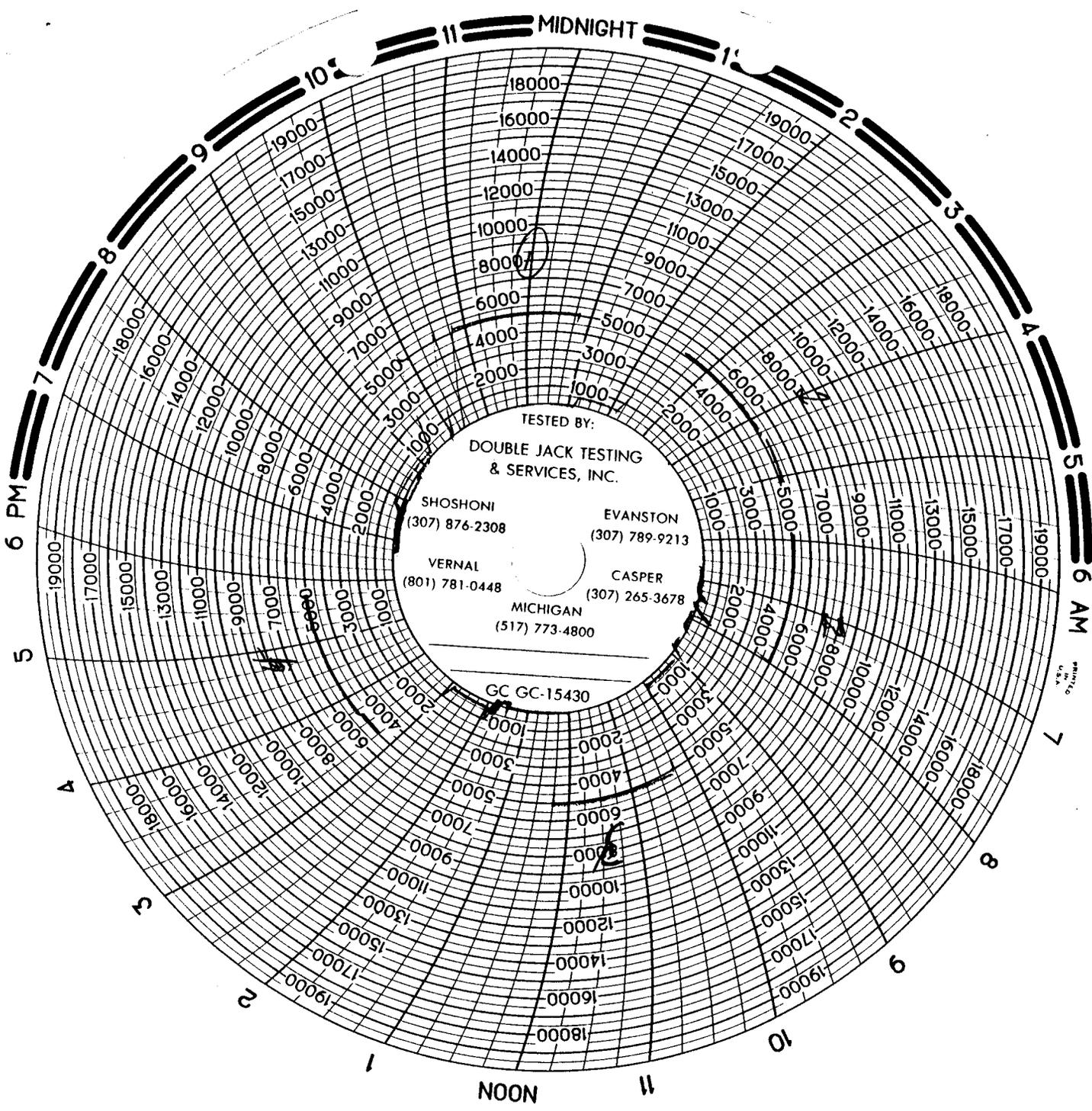
21242 PURCHASE ORDER #  
143 TESTED BY  
Clay Bruner COMPANY REPRESENTATIVE  
Tom Jiff DOUBLE JACK TESTING UNIT NUMBER  
 SUBTOTAL 1650.00  
 TAX \_\_\_\_\_  
 TOTAL \_\_\_\_\_

### NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned agree(s) to pay in either case, reasonable expense of collection including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE, the following information disclosure, under the terms of our regular accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. A LATE CHARGE will be assessed when accounts are not paid when due. THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF 21% to the previous balance in the account on the billing date. No further credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable for damages caused by acts of God, or unforeseen circumstances that could not be reasonably anticipated in performing the work done as set forth above.

DOUBLE JACK TESTING & SERVICES, INC.  
 P O BOX 2097  
 EVANSTON, WY. 82931-2097

COMPANY	LEASE AND WELL NAME #	TEST DATE	RIG NAME & #
OPRC	CCO-486-A.P	7/14/95-7/15/95	NABORS 270
TEST #	TIME	INFORMATION	
1	12:40	1st 3 outside manifold valves	
	12:45		
2	1:05	3 inside manifold valves	
	1:10		
3	5:48	TOP PIPES inside kill inside choke TSW	
	6:16		
4	6:50	TOP PIPES TSW outside kill & ACP	
	7:26		
5	7:39	TOP PIPES valve first 3 manifold & RISER DART valve	
	7:44		
6	7:58	Bottom pipes DART valve	
	8:03		
7	8:54	HYDRA 1500 PSI Blow Hydraulic seal on open side	
	8:59		
8	9:34	Blind Rams upper choke	
	9:40		
9	1:54	Upper Kelly	
	1:59		
10	7:05	<del>Blow</del> 7/15/95 Lower Kelly	
	7:10		
11	8:35	New HYDRA!	
	8:40		



TESTED BY:  
DOUBLE JACK TESTING  
& SERVICES, INC.

SHOSHONI  
(307) 876-2308

EVANSTON  
(307) 789-9213

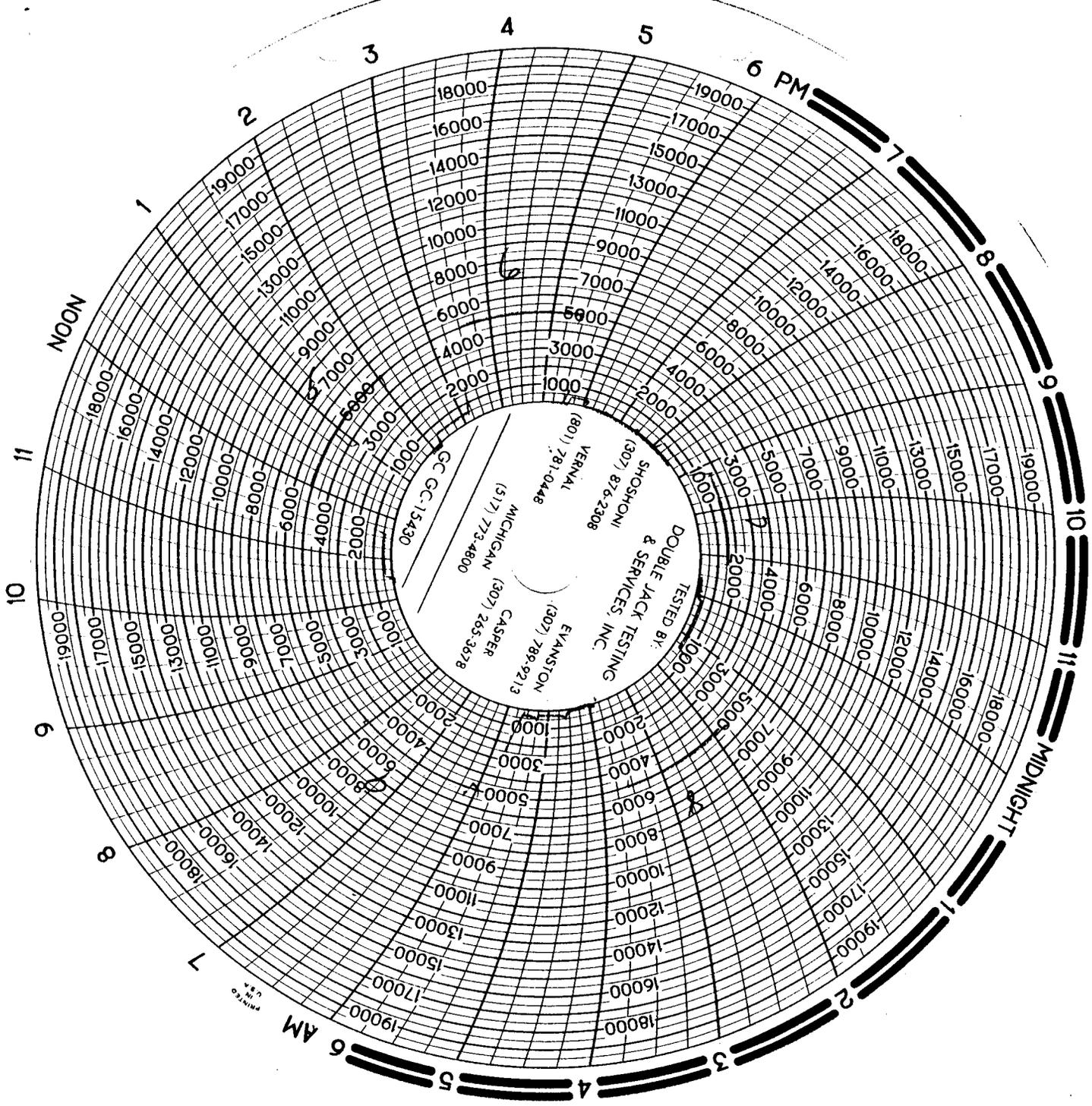
VERNAL  
(801) 781-0448

CASPER  
(307) 265-3678

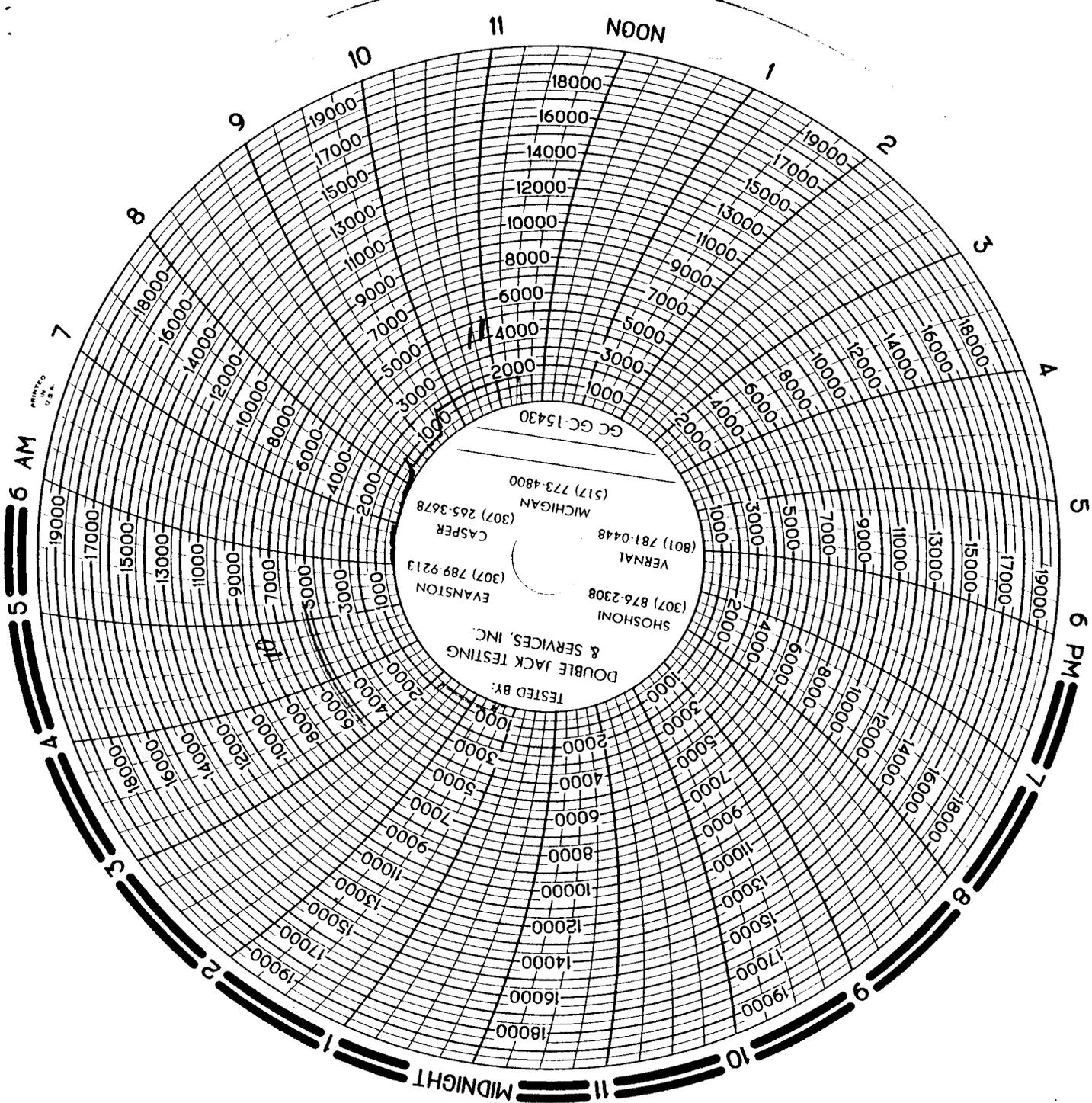
MICHIGAN  
(517) 773-4800

GC GC-15430

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TESTED BY:  
DOUBLE JACK TESTING  
& SERVICES, INC.  
EVANSTON (307) 789-9213  
SHOSHONI (307) 876-2308  
VERNAL (801) 781-0448  
CASPER (307) 265-3678  
MICHIGAN (517) 773-4800  
GC GC 15430

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	6. Lease Designation and Serial No. <b>UPRC Fee</b>
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals	6. If Indian, Allottee or Tribe Name <b>NA</b>
1. Type of Well: <b>OIL ( )      GAS ( X )      OTHER:</b>	7. Unit Agreement Name <b>NA</b>
2. Name of Operator <b>Union Pacific Resources Company</b>	8. Well Name and Number <b>UPRC CCD 846A-1R</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007</b> <b>Telephone (817) 877-6000 (Main Number)</b>	9. API Well Number <b>43-043-30100</b>
4. Location of Well	10. Field and Pool, or Wildcat <b>Cave Creek</b>

Footages <b>707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.</b>	County <b>Summit</b>	
OO, Sec., T., R., M. <b>NENW Sec. 25, T. 5 N., R. 7 E.</b>	State <b>Utah</b>	

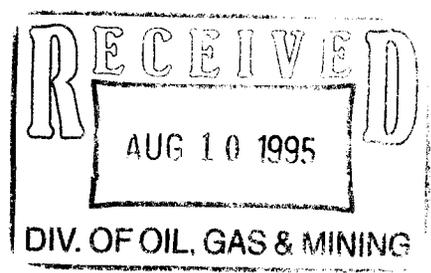
**11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

<p style="text-align: center;"><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Test</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shutoff</td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Other:</td> </tr> </table> <p>Approximate date work will start: <b>June 15, 1995</b></p>	<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Fracture Test	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shutoff	<input type="checkbox"/> Other:		<p style="text-align: center;"><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off Shutoff</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Other: Weekly Progress Report</td> </tr> </table> <p>Date of work completion _____</p> <p style="font-size: x-small;">Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off Shutoff	<input checked="" type="checkbox"/> Other: Weekly Progress Report	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction																										
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<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off Shutoff																										
<input checked="" type="checkbox"/> Other: Weekly Progress Report																											

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

Weekly Progress Report No. 5, Week Ending August 7, 1995

Please refer to accompanying Daily Operations Summaries for detail



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13. Name/Signature: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 95-08-08

(This space for State use only)

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

### SUMMARY OF OPERATIONS FROM REPORT No. 19 TO REPORT No. 25

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY		
08/01/95	10277	05:00 05:30	DRILL SLIDE 10162 TO 10169. TF30L. 45 WT. DRILL ROTATE 10169 TO 10172. 3 FT. 45 WT.		
		05:30 06:00	COMMUNITIVE SURVEY		
		06:00 11:00	DRILL ROTATE 10172 TO 10234. 24 FT. 45 WT.		
		11:00 11:30	COMMUNITIVE SURVEY, RIG SERVICE, FUNCTION TEST BOP		
		11:30 14:30	DRILL ROTATE 10234 TO 10277. 43 FT. 45 WT.		
		14:30 20:00	TRIP OUT W/BHA # 9. LAY DOWN MUD MOTOR		
		20:00 01:00	INSPECT BHA. (ALL OK)		
		01:00 04:00	TRIP IN W/BHA # 10 TO 10,000'.		
		08/02/95	10498	04:00 05:00	WASH/REAM
				05:00 07:00	WASH/REAM 10,000 TO 10277.
07:00 14:00	DRILL ROTATE 10277 TO 10359. 82 FT. 45 WT.				
14:00 14:30	COMMUNITIVE SURVEY				
14:30 16:30	DRILL ROTATE 10359 TO 10390 31 FT. 45 WT.				
16:30 17:00	DRILL SLIDE 10390 TO 10395. TF30R. 45 WT.				
17:00 19:30	DRILL ROTATE 10395 TO 10422. 27 FT. 45 WT.				
19:30 20:00	SURVEY @ 10366				
20:00 22:00	DRILL SLIDE 10422 TO 10437. TF60R. 40 WT.				
22:00 23:00	DRILL ROTATE 10437 TO 10452. 15 FT. 40 WT.				
23:00 01:00	DRILL SLIDE 10452 TO 10462. TF60R. 40 WT.				
01:00 02:30	DRILL ROTATE 10462 TO 10483. 21 FT. 40 WT.				
02:30 03:00	COMMUNITIVE SURVEY				
08/03/95	10584			03:00 05:00	DRILL SLIDE 10483 TO 10498. TF30R. 40 WT.
		05:00 07:00	DRILL SLIDE 10498 TO 10510 TF30R. 40 WT.		
		07:00 07:30	10510 TO 10514. 4 FT. WT.40		
		07:30 08:00	COMMUNITIVE SURVEY		
		08:00 09:00	DRILL SLIDE 10514 TO 10525. TFH.S. 40 WT.		
		09:00 10:30	DRILL ROTATE 10525 TO 10545. 20 FT. 40 WT.		
		10:30 12:00	FILL TRIP TANK, PUMP PILL		
		12:00 15:30	TRIP OUT W/BHA # 10		
15:30 16:00	SERVICE RIG, FUNCTION TEST BOP'S & ANNULAR				

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 19 TO REPORT No. 25

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		16:00 17:00	CHANGE OUT MUD MOTOR, PICK UP TBR.
		17:00 18:00	TRIP IN HOLE, TEST MUD MOTOR
		18:00 21:30	TRIP IN W/ BHA #11
		21:30 22:00	WASH & REAM 10407 TO 10545. 138'
		22:00 01:00	DRILL SLIDE 10545 TO 10558. TFH.S. 40 WT.
		01:00 02:30	DRILL ROTATE 10558 TO 10576. 18 FT. 40 WT.
		02:30 03:00	SURVEY @ 10520
08/04/95	10700	03:00 05:00	DRILL SLIDE 10576 TO 10584. TFH.S. 40-45 WT.
		05:00 05:30	DRILL SLIDE 10584 TO 10586. TFH.S. 40 WT.
		05:30 07:00	DRILL ROTATE 10586 TO 10607. 21 FT. 40 WT.
		07:00 10:00	DRILL SLIDE 10607 TO 10618. TFH.S. 40 WT.
		10:00 11:30	DRILL ROTATE 10618 TO 10639. 21 FT. 40 WT.
		11:30 12:00	COMMUNITIVE SURVEY
		12:00 17:00	DRILL SLIIDE 10639 TO 10700. TFH.S. 60 WT.
		17:00 24:00	TRIP OUT W/BHA # 11 DUE TO TORQUE & PSI INCREASE.
		24:00 02:00	CHANGE OUT BIT & MUD MOTOR. FUNCTION TEST BOP
		02:00 03:30	TRIP IN W/BHA # 12.
		03:30 04:00	TEST MUD MOTOR
08/05/95	10936	04:00 05:00	SLIP & CUT DRILL LINE
		05:00 07:30	TRIP IN W/BHA # 12
		07:30 08:30	WASH/REAM 10622 TO 10700.
		08:30 09:00	SERVICE RIG, FUNCTION TEST BOP, REPAIR FLOW LINE.
		09:00 11:00	DRILL SLIDE 10700 TO 10711. TFH.S. 42 WT.
		11:00 12:00	DRILL ROTATE 10711 TO 10728. 17 FT 44 WT.
		12:00 13:30	DRILL SLIDE 10728 TO 10738. TFH.S. 45 WT.
		13:30 14:30	DRILL ROTATE 10738 TO 10759. 21 FT. 44 WT
		14:30 15:00	COMMUNITIVE SURVEY
		15:00 16:00	DRILL SLIDE 10759 TO 10767. TFH.S. 45 WT.
		16:00 02:30	DRILL ROTATE 10767 TO 10912. 145 FT. 35-40WT.

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

### SUMMARY OF OPERATIONS FROM REPORT No. 19 TO REPORT No. 25

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		02:30 03:00	COMMUNITIVE SURVEY
08/06/95	11162	03:00 05:00	DRILL ROTATE 10912 TO 10936. 24 FT. 40 WT.
		05:00 06:30	DRILL SLIDE 10936 TO 10952. TF30L. 45 WT.
		06:30 08:00	DRILL ROTATE 10952 TO 10976. 24 FT. 45 WT.
		08:00 08:30	COMMUNITIVE SURVEY
		08:30 09:30	DRILL SLIDE 10976 TO 10983. TF15L. 45 WT.
		09:30 11:00	DRILL ROTATE 10983 TO 11007. 24 FT. 45 WT.
		11:00 12:30	DRILL SLIDE 11007 TO 11017. TF30L. 45 WT.
		12:30 14:00	DRILL ROTATE 11017 TO 11038. 21 FT. 45 WT.
		14:00 15:30	DRILL SLIDE 11038 TO 11050. TF30L. 45 WT.
		15:30 17:00	DRILL ROTATE 11050 TO 11069. 19 FT. 45 WT.
		17:00 19:30	DRILL SLIDE 11069 TO 11084. TF30L. 45 WT.
		19:30 20:30	DRILL ROTATE 11084 TO 11100. 16 FT. 45 WT.
		20:30 21:00	SURVEY @ 11048
		21:00 23:00	DRILL SLIDE 11100 TO 11115. TF30L. 45 WT.
23:00 24:30	DRILL ROTATE 11115 TO 11131. 16 FT. 45 WT.		
24:30 01:00	COMMUNITIVE SURVEY		
08/07/95	11240	01:00 03:30	DRILL SLIDE 11131 TO 11152. TF30L. 45 WT.
		03:30 05:00	DRILL ROTATE 11152 TO 11162. 10 FT. 45 WT.
		05:00 08:00	DRILL SLIDE 11162 TO 11182. TFH.S. 45 WT.
		08:00 13:00	TRIP OUT W/ BIT # 10.
		13:00 14:00	CHANGE OUT MUD MOTOR, PICKUP BIT # 11.
		14:00 15:00	TRIP IN W/ BIT # 11.
		15:00 16:30	TRIP IN W/ DRILL PIPE
		16:30 19:30	LAY DOWN 50 JTS. DP. PICKUP X95
		19:30 20:30	TRIP IN W/ DRILL PIPE
		20:30 21:00	WASH 40 FT TO BOTTOM
		21:00 03:00	DRILL SLIDE 11182 TO 11227. TFH.S. 45 WT.
03:00 03:30	COMMUNITIVE SURVEY		
03:30 05:00	DRILL SLIDE 11227 TO 11240. TF50L. 45 WT.		

OPERATOR Union Pacific Resources  
 ADDRESS P.O. Box 7, MS 2603  
Fort Worth, TX 76101

OPERATOR ACCT. NO. 11 9465

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG			
D	1390	→	4304330100	CCD 846 A-1R	NE NW	25	5N	7E	Summit	(11-16-79) 7-8-95	
WELL 1 COMMENTS: <u>Redrill in Cave Creek Deep Field through Phosphoria</u>											
* <u>Current entity No. (if there is one) is unknown - previously operated by Amoco as</u> <u>OPC 846 amoco A #1</u>											
WELL 2 COMMENTS: <u>Entity previously added 7-19-95. J</u> <u>lee</u>											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

- ACTION CODES (See instructions on back of form)
- A - Establish new entity for new well (single well only)
  - B - Add new well to existing entity (group or unit well)
  - C - Re-assign well from one existing entity to another existing entity
  - D - Re-assign well from one existing entity to a new entity
  - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

AUG 14 1995

Carolyn Gluman  
 Signature  
Production Clerk  
 Title  
 Date  
 Phone No. (817) 877-6467

ENTITY ACTION FORM - FORM 6

ADDRESS \_\_\_\_\_

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
B	99999	1390	43-043-30100	UPRC CCD 846-A-1R	NENW	25	5N	7E	SUMMIT	7-12-95	
WELL 1 COMMENTS: *RE-ENTRY; ENTITY ADDED 7-19-95.											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)  
A - Establish new entity for new well (single well only)  
B - Add new well to existing entity (group or unit well)  
C - Re-assign well from one existing entity to another existing entity  
D - Re-assign well from one existing entity to a new entity  
E - Other (explain in comments section)

*lc*  
LISHA CORDOVA (DOGM)  
Signature  
ADMIN. ANALYST 7-19-95  
Title Date  
Phone No. ( ) \_\_\_\_\_

NOTE: Use COMMENT section to explain why each Action Code was selected.

**CONFIDENTIAL**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: UPRC

Well Name: UPRC CCD 846-A-1R (RE-ENTRY)

Api No. 43-043-30100

Section 25 Township 5N Range 7E County SUMMIT

Drilling Contractor NABORS

Rig # 270

SPUDDED: Date 7/12/95

Time \_\_\_\_\_

How ROTARY

Drilling will commence \_\_\_\_\_

Reported by DOUG BRUNNER

Telephone # 1-801-640-2984

Date: 7/12/95 Signed: JLT

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:

OIL ( ) GAS ( X ) OTHER:

2. Name of Operator

Union Pacific Resources Company

3. Address and Telephone Number

P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.  
QQ, Sec., T., R., M. NENW Sec. 25, T. 5 N., R. 7 E.

County

Summit

State

Utah

5. Lease Designation and Serial No.

UPRC Fee

6. If Indian, Allotee or Tribe Name

NA

7. Unit Agreement Name

NA

8. Well Name and Number

UPRC CCD 846A-1R

9. API Well Number

43-043-30100

10. Field and Pool, or Wildcat

Cave Creek

11

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

NOTICE OF INTENT

(Submit in Duplicate)

- ( ) Abandonment
- ( ) Casing Repair
- ( ) Change of Plans
- ( ) Conversion to Injection
- ( ) Fracture Test
- ( ) Multiple Completion
- ( ) Other:
- ( ) New Construction
- ( ) Pull or Alter Casing
- ( ) Recompletion
- ( ) Shoot or Acidize
- ( ) Vent or Flare
- ( ) Water Shutoff

Approximate date work will start:

SUBSEQUENT REPORT

(Submit Original Form Only)

- ( ) Abandonment \*
- ( ) Casing Repair
- ( ) Change of Plans
- ( ) Conversion to Injection
- ( ) Fracture Treat
- ( X ) Other: Weekly Progress Report
- ( ) New Construction
- ( ) Pull or Alter Casing
- ( ) Shoot of Acidize
- ( ) Vent or Flare
- ( ) Water Shut-Off Shutoff

Date of work completion \_\_\_\_\_

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

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

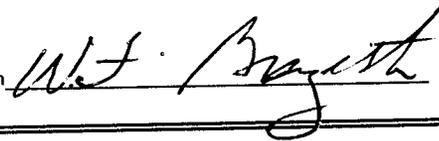
Weekly Progress Report No. 6, Week Ending August 14, 1995

Please refer to accompanying Daily Operations Summaries for detail

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton



Title: Senior Regulatory Analyst

Date: 95-0814

(This space for State use only)

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 26 TO REPORT No. 32

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
08/08/95	11506	05:00 09:00	DRILL ROTATE 11240 TO 11290. 50 FT. 45 WT.
		09:00 09:30	COMMUNITIVE SURVEY
		09:30 11:30	DRILL ROTATE 11290 TO 11322. 32 FT. 45 WT.
		11:30 12:00	SURVEY @ 11270
		12:00 13:30	DRILL SLIDE 11322 TO 11334. TF60L. 45 WT.
		13:30 14:30	DRILL ROTATE 11334 TO 11353. 19 FT. 45 WT.
		14:30 16:00	DRILL SLIDE 11353 TO 11363. TF35L. 45 WT.
		16:00 17:30	DRILL ROTATE 11363 TO 11384. 21 FT. 45 WT.
		17:30 19:30	DRILL SLIDE 11384 TO 11396. TF HS. 45 WT.
		19:30 20:30	DRILL ROTATE 11396 TO 11415. 19 FT. 45 WT.
		20:30 22:00	DRILL SLIDE 11415 TO 11425. TF HS. 45 WT.
		22:00 23:30	DRILL ROTATE 11425 TO 11447. 22 FT. 45 WT.
		23:30 24:00	COMMUNITIVE SURVEY
		24:00 01:30	DRILL SLIDE 11447 TO 11459. TF60. 45 WT.
08/09/95	11588	01:30 05:00	DRILL ROTATE 11459 TO 11506. 47 FT. 45 WT.
		05:00 07:00	DRILL SLIDE 11506 TO 11522. TF60L. 45 WT.
		07:00 08:30	DRILL ROTATE 11522 TO 11539. 17 FT. 45 WT.
		08:30 09:00	COMMUNITIVE SURVEY. RIG SERVICE, FUNCTION TEST BOP & ANNULAR.
		09:00 11:30	DRILL SLIDE 11539 TO 11554. TF60L. 45 WT.
		11:30 13:00	DRILL ROTATE 11554 TO 11571. 17 FT. 45 WT.
		13:00 15:00	DRILL SLIDE 11571 TO 11586. TF60L. 45 WT.
		15:00 15:30	DRILL ROTATE 11586 TO 11588. 2 FT. 45 WT. (MUD MOTOR STALLED)
		15:30 16:00	PUMP PILL, FILL TRIP TANK
		16:00 22:30	TRIP OUT W/ BIT # 11. SLM
08/10/95	11705	22:30 23:30	CHANGE OUT MUD MOTOR, DRESS MWD.
		23:30 05:00	PULL WEAR BUSHING, TEST PIPE RAMS, BLIND RAMS, KILL LINE, CHOKE LINE, CHOKE, MANIFOLD, FLOOR VALVES, & KELLY VALVE 250 & 5000. HYDRIL 250 & 1500. RIG DOWN DOUBLE JACK
		05:00 06:30	TEST BOPS
		06:30 11:30	NIPPLE UP ROTATING HEAD.

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

### SUMMARY OF OPERATIONS FROM REPORT No. 26 TO REPORT No. 32

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		11:30 12:00	RETEST HYDRILL TO 250 & 1500 - OK
		12:00 14:30	WAITING ON MOTOR. (RECHARGE ACCUMILATOR & H2S TRAINING)
		14:30 15:00	PICKUP DUAL POWER 3 STAGE 1.5 DEGREE MOTOR
		15:00 15:30	TRIP IN W/ BHA #13. TEST MOTOR.
		15:30 19:30	TRIP IN W/ DRILL PIPE, INSTALL ROTATING RUBBER.
		19:30 20:00	WASH 22 FT TO BOTTOM.
		20:00 20:30	DRILL SLIDE 11588 TO 11598. TF HS. 45 WT.
		20:30 22:00	DRILL ROTATE 11598 TO 11613. 15 FT. 45 WT.
		22:00 23:00	DRILL SLIDE 11613 TO 11630. TFHS. 45 WT
		23:00 24:00	DRILL ROTATE 11630 TO 11644. 14 FT. 45 WT.
		24:00 24:30	COMMUTATIVE SURVEY
08/11/95	11838	24:30 05:00	DRILL ROTATE 11644 TO 11705
		05:00 05:30	DRILL SLIDE 11705 TO 11714. TF30L. 45 WT.
		05:30 07:00	DRILL ROTATE 11714 TO 11736. 22 FT. 45 WT.
		07:00 07:30	SERVICE RIG, FUNCTION TEST BOP & HYDRIL
		07:30 13:00	DRILL ROTATE 11736 TO 11782. 46 FT. 45 WT.
		13:00 23:00	TRIP OUT W/ BIT # 12.
		23:00 23:30	WASH & REAM 60' TO BOTTOM
		23:30 03:30	DRILL ROTATE 11782 TO 11829. 47 FT. 45 WT.
		03:30 04:00	COMMUTATIVE SURVEY
08/12/95	12086	04:00 05:00	DRILL ROTATE 11829 TO 11838. 9 FT. 45 WT.
		05:00 07:30	DRILL ROTATE 11838 TO 11861. 23 FT. 45 WT.
		07:30 08:00	SERVICE RIG, FUNCTION TEST BOP & ANNULAR
		08:00 13:00	DRILL ROTATE 11861 TO 11924. 63 FT. 45 WT.
		13:00 13:30	COMMUTATIVE SURVEY
		13:30 14:30	DRILL SLIDE 11924 TO 11933. TF170L. 45 WT.
		14:30 15:30	DRILL ROTATE 11933 TO 11955. 22 FT. 45 WT.
		15:30 17:00	DRILL SLIDE 11955 TO 11963. TF170L. 45 WT.
		17:00 18:30	DRILL ROTATE 11963 TO 11987. 24 FT. 45 WT.
		18:30 19:00	COMMUTATIVE SURVEY

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 26 TO REPORT No. 32

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		19:00 20:00	DRILL SLIDE 11987 TO 11999. TF170L. 45 WT.
		20:00 24:00	DRILL ROTATE 11999 TO 12050. 51 FT. 45 WT.
		24:00 24:30	SURVEY @ 11988
		24:30 05:00	DRILL ROTATE 12050 TO 12086. 36 FT. 45 WT.
08/13/95	12203	05:00 08:00	PHOSPHORIA TOP 11785. LOST 100 BBLs. MUD W/9.4 DROPPED WT. TO 9.3 FROM 11980 TO 11998 DRILL ROTATE 12086 TO 12110. 24 FT. 45 WT.
		08:00 08:30	COMMUTATIVE SURVEY
		08:30 09:30	DRILL SLIDE 12110 TO 12115. TF180. 45 WT.
		09:30 10:00	WORK STUCK BHA @ 12115 FT.
		10:00 16:30	TRIP OUT W/BIT #13. SLM (NO CHANGE). CHANGE OUT MUD MOTOR & BIT.
		16:30 17:30	TRIP IN W/ BIT # 14.
		17:30 18:30	TEST MUD MOTOR
		18:30 21:30	TRIP IN W/ DRILL PIPE
		21:30 22:30	WASH & REAM 80' TO BOTTOM. (TIGHT HOLE)
		22:30 23:00	DRILL SLIDE 12115 TO 12127. TF180. 45 WT.
		23:00 24:00	DRILL ROTATE 12127 TO 12142. 15 FT. 45 WT.
		24:00 24:30	COMMUTATIVE SURVEY
		24:30 01:00	DRILL SLIDE 12142 TO 12149. TF 180. 45 WT.
08/14/95	12400	01:00 05:00	DRILL ROTATE 12149 TO 12203. 54 FT. 45 WT.
		05:00 07:00	DRILL ROTATE 12203 TO 12236. 33 FT. 45 WT.
		07:00 07:30	SURVEY @ 12174'
		07:30 11:30	DRILL ROTATE 12236 TO 12299. 63 FT. 45 WT
		11:30 12:00	COMMUTATIVE SURVEY, RIG SERVICE, FUNCTION TEST BOP & ANNULAR
		12:00 13:00	DRILL ROTATE 12299 TO 12314. 15 FT. 45 WT.
		13:00 13:30	BOP & H2S DRILL, 45 SEC. ALL PERSONEL MASKUP. 1 MIN. 37 SEC. WELL SHUT IN & SECURE 3 MIN. 56 SEC. ALL PERSONEL AT BREIFING AREA
		13:30 15:00	DRILL SLIDE 12314 TO 12319. TF180. 45 WT.
		15:00 15:30	WORK STUCK PIPE FREE. (WALL STUCK)

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R	WELL No. :1R
AFE No. :021242	API No. :43-043-30100
FIELD :CAVE CREEK	RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 26 TO REPORT No. 32

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
		15:30 03:00	DRILL ROTATE 12319 TO 12393. 64 FT. 25 WT.
		03:00 03:30	COMMUTATIVE SURVEY
		03:30 05:00	DRILL ROTATE 12393 TO 12400. 7FT. 25 WT.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No. UPRC Fee
6. If Indian, Allottee or Tribe Name NA
7. Unit Agreement Name NA
8. Well Name and Number UPRC CCD 846A-1R
9. API Well Number 43-043-30100
10. Field and Pool, or Wildcat Cave Creek

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals

1. Type of Well:  
OIL ( )      GAS ( X )      OTHER: RE-ENTRY

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages	707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.	County	Summit
QQ, Sec., T., R., M.	NENW Sec. 25, T. 5 N., R. 7 E.	State	Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Test <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other:	<input type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input checked="" type="checkbox"/> Other: Weekly Progress Report
<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shutoff	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off Shutoff
Approximate date work will start:	Date of work completion _____
	Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

Weekly Progress Report No. 7, Week Ending August 21, 1995

Please refer to accompanying Daily Operations Summaries for detail

1995 08 25

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton W.F. Brazelton Title: Senior Regulatory Analyst Date: 95-08-21

(This space for State use only)

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

### SUMMARY OF OPERATIONS FROM REPORT No. 33 TO REPORT No. 39

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
08/15/95	12490	05:00 08:00	DRILL ROTATE 12400 TO 12423. 23 FT. 25 WT.
		08:00 08:30	SERVICE RIG,FUNCTION TEST BOP & HYDRIL
		08:30 09:30	CIRCULATE BOTTOMS UP TO CLEAR WELL BORE (GAS)
		09:30 15:00	TRIP OUT W/ BIT # 14
		15:00 16:30	LAY DOWN MWD & MUD MOTOR, PICKUP NEW MOTOR
		16:30 20:30	TRIP IN W/ DRILL COLLARS, TEST MOTOR. TRIP
		08/16/95	12543
05:00 09:00	DRILL ROTATE 12490 TO 12543. 53 FT. 25 WT. TD @ 09:00 HRS 08/15/95		
09:00 12:00	CIRCULATE FOR SAMPLES & CLEAR WELL BORE (GAS)		
12:00 16:30	SHORT TRIP TO CASING. (165 JTS.)		
16:30 20:00	CIRCULATE TO CLEAR WELL BORE. MIX 50 SACKS LUBRAGLIDE BEADS IN 420 BBLs MUD. PUMP PILL DROP SURVEY, PUMP DOWN		
20:00 20:30	TRIP OUT FOR LOGS. SLM		
02:00 03:30	LAY DOWN MUD MOTOR & MONEL COLLARS		
08/17/95	12543	03:30 05:00	RIG UP WESTERN ATLAS, RUN IN HOLE FOR RUN #1 (LOGGERS ON LOCATION @ 23:00 HRS 08/15/95)
		05:00 07:30	RUN IN W/ LOG # 1, WAIT ON WT. & DEPTH INDIC.
		07:30 15:30	LOGGING 12543 TO WINDOW. RUN #1. DIL, SONIC, FDC, CNL, GR, & ALC. TIGHT @ 8882'
		15:30 21:00	LOGGING, RUN #2. CYBIL, DIPMETER. TOOLS STOPPED @ 8860'. PULL OUT, RUN CYBIL ONLY. STOPPED @ 8860'. PULL OUT, RUN BOTH W/HOLE FINDER. STOPPED @ 8860. PULL OUT, LAY DOWN.
		21:00 23:00	TRIP IN HOLE.
		23:00 24:00	SLIP & CUT DRILL LINE. FILL DRILL PIPE
		24:00 00:30	TRIP IN HOLE TO 8,000'. WELL FLOWING
		00:30 01:30	CIRCULATE OUT BUBBLE. CHECK FOR FLOW
		01:30 03:00	TRIP IN TO 12493
		03:00 03:30	WASH/REAM 12493 TO 12543
08/18/95	12543	03:30 05:00	CIRCULATE TO CLEAR WELL BORE. COND. TO LOG MIX AND PUMP 20 SACKS LUBRI GLIDE, PUMP PILL
		05:00 06:00	
		06:00 12:00	TRIP OUT FOR LOGGING RUN # 2
		12:00 20:00	LOGGING, RUN # 2. DIPMETER TD TO 8800'. CYBIL TD TO 11500. RIG DOWN LOGGERS

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 33 TO REPORT No. 39

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
08/19/95	12543	20:00 00:30	TRIP IN, CIRC. @ 7100 FT. TO CLEAR CASING
		00:30 01:00	WASH/REAM 12484 TO 12543.
		01:00 04:00	CIRCULATE TO CLEAR WELL BORE. PUMP PILL (LAY DOWN EQUIP ON LOC. @ 02:00. RIG UP)
		04:00 05:00	LAY DOWN DRILL PIPE
		05:00 17:30	LAY DOWN DRILL PIPE & DRILL COLLARS
		17:30 19:00	PULL WEAR BUSHING, INSTALL 7" RAMS
08/20/95	12543	19:00 20:00	TEST 7" RAMS, 250 TO 1000 PSI. 15 MIN. OK
		20:00 05:00	RIG UP CASING TOOLS, RUN 209 JTS. 7" 32# AB MOD. L-80 CASING.
		05:00 08:30	RUN 79 JTS. 7-5/8" 39# L-80 SLX CASING TOTAL CSG. IN HOLE - 209 JTS. 7" (9051.09), 79 JTS. 7-5/8" (3492.35)
		08:30 13:30	RIG UP TO CIRC. CASING & CIRC. FOR CEMENT
		13:30 16:30	CEMENT W/ 570 SX "G" W/ .75% CF-14A, & .19% TF-4, DISPLACE W/ 474 BBLs., 21% KCL @ 9.45 LB/GAL. BUMP PLUG W/ 1900 PSI. PLUG DOWN & HELD @ 15:20 08/19/95. RIG DOWN B J
		16:30 24:30	WAIT ON CEMENT. MONITOR ANNULAS, FILLED W/ MUD @ 1 HR. 36 BBLs. 2 HRS. 17 BBLs. 3 HRS. 11 BBLs. 4 HRS. 7.5 BBLs. SWITCHED TO WATER. ANNULUS TOOK 19.3 BBLs IN 4 HRS.
08/21/95	12543	24:30 03:00	RIG UP DOUBLE JACK WENCHES, ND BOP.
		03:00 05:00	CUT OFF CASING, DRESS CASING STUB
		05:00 16:00	DRESS CASING STUB, NIPPLE UP TUBING SPOOL, TEST SEAL TO 5000 PSI. 15 MIN.
		16:00 19:00	NIPPLE UP BOP
		19:00 24:00	CHANGE PIPE RAMS, LAY DOWN KELLY, PICK UP 3-1/2" KELLY, RIG UP 3-1/2" TOOLS.
		24:00 05:00	SET CUP PLUG, TEST TBG SPOOL SEAL 250 TO 5000. 15 MIN. OK. TEST CHOKE, CHOKE LINE, CHOKE VALVES, KILL LINE, 250 TO 5000. 15 MIN REPAIR WEEP HOLE ON BOP.(COULD NOT REACH UTAH OIL & GAS & MINING COMM. PHONE BUSY)

CONFIDENTIAL

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.</small>	5. Lease Designation and Serial No. <b>UPRC Fee</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
1. Type of Well: <b>OIL ( ) GAS (X) OTHER:</b>	7. Unit Agreement Name <b>NA</b>
2. Name of Operator <b>Union Pacific Resources Company (RE-ENTRY)</b>	8. Well Name and Number <b>UPRC CCD 846A-1R</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)</b>	9. API Well Number <b>43-043-30100</b>
4. Location of Well <b>Footages 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E. County Summit QQ, Sec., T., R., M. NENW Sec. 25, T. 5 N., R. 7 E. State Utah</b>	10. Field and Pool, or Wildcat <b>Cave Creek</b>

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

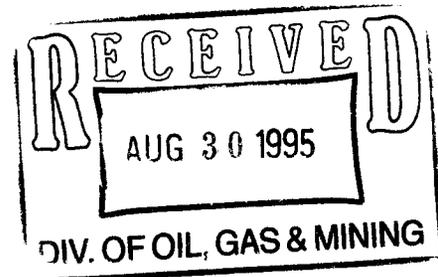
<p style="text-align: center;"><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <p>( ) Abandonment                      ( ) New Construction  ( ) Casing Repair                      ( ) Pull or Alter Casing  ( ) Change of Plans                      ( ) Recompletion  ( ) Conversion to Injection              ( ) Shoot or Acidize  ( ) Fracture Test                      ( ) Vent or Flare  ( ) Multiple Completion              ( ) Water Shutoff  ( ) Other:</p> <p>Approximate date work will start:</p>	<p style="text-align: center;"><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <p>( ) Abandonment *                      ( ) New Construction  ( ) Casing Repair                      ( ) Pull or Alter Casing  ( ) Change of Plans                      ( ) Shoot or Acidize  ( ) Conversion to Injection              ( ) Vent or Flare  ( ) Fracture Treat                      ( ) Water Shut-Off Shutoff  ( X ) Other: Weekly Progress Report</p> <p>Date of work completion _____</p> <p><small>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small></p>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Weekly Progress Report No. 8, Week Ending August 28, 1995

Well reached Total depth (12,543' MD) August 16 1995; rig released August 28, 1995

Please refer to accompanying Daily Operations Summaries for detail



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton W.F. Brazelton Title: Senior Regulatory Analyst Date: 95-08-29

(This space for State use only)

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 40 TO REPORT No. 46

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
08/22/95	12543	05:00 06:00	TEST PIPE & BLIND RAMS 250 TO 5000. UPPER & LOWER KELLY VALVES 250 TO 5000.
		06:00 21:00	RIG UP AMERICAN PIPE HANDELERS, PICK UP 10 4-1/2" DRILL COLLARS AND 217 JTS 3.5" E DRILL PIPE, & 174 JTS. 3.5 X-95. TAG CEMENT AT 12486.
		21:00 23:00	DRILL CEMENT/FLOAT 12486 TO 12532 FT
		23:00 00:30	CIRCULATE BOTTOMS UP TO CLEAN CASG.
		00:30 02:00	TEST CASING TO 4,000 PSI. DROPPED 200 PSI IN 35 MIN. TO 3800 PSI.
		02:00 05:00	TRIP OUT W/ 3-1/2, BREAKING EACH CONN. SLM
08/23/95	12543		NOTE: ANNULUS HAS SLIGHT BLOW.
		05:00 09:30	POOH 3 1/2 DRILL STRING TO RUN GR CBL LOGS WITH OILWELL PERFORATORS UNTORQUE ALL CONNECTIONS TO PREPARE FOR LAY DOWN FROM MOUSE HOLE
		09:30 15:30	RUN GR CBL WITH NO PRESSURE & PRESSURE PASS WITH 500 PSI LOGGED FROM 12540 TO 9100 FEET (OWP DEPTH) CEMENT BOND GOOD WITH CEMENT TOP APROX. 9975 FEET RKB
			NOTE: CROSS OVER TO VAM ACE THERAD FROM PRODUCTION PACKERS ARE NOT AVAILABLE AND ETA OF EQUIPMENT APROX. LATE AFTERNOON TODAY
		15:30 23:00	RIH WITH 3 1/2 DRILL STRING AND RETORQUE ALL CONNECTIONS
		23:00 01:30	CIRCULATE CASING CLEAN FROM 12536 FEET WITH 21% KCL BRINE
08/24/95	12543	01:30 05:00	LAY DOWN 3 1/2 RENTAL DRILL PIPE STRING TO RUN PRODUCTION PACKERS
		05:00 10:30	LD 3 1/2 DRILL PIPE & 4 3/4 DRILL COLLARS
		10:30 11:30	RD LAYDOWN MACHINE
		11:30 13:00	PULL WEAR BUSHING FROM FMC TUBING SPOOL (HAD TROUBLE PULLING BUSHING)
		13:00 02:30	WAITING ON CROSSOVER FROM BAKER PAKER TO VAM ACE THREAD
		02:30 03:30	MAKE UP PACKER ASSEMBLY #1 AS FOLLOWS 7" BAKER ISOLATION PACKER MODEL F-1 / 8' MILLOUT EXTENTION / CROSSOVER TO VAM ACE / 10' X 3 1/2" 10.2# L-80 VAM ACE PUP JT. / 3 1/2" OTIS X LINE (2.750" ID) NIPPLE / 6' X 3 1/2" 10.2#

## OPERATION SUMMARY REPORT

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 40 TO REPORT No. 46

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			L80 VAM ACE PUP JT. / WIRELINE REENTRY GUIDE
		03:30 04:15	PU AND MAKE UP PACKER ASSEMBLY / WIRELINE SETTING TOOLS
		04:15 05:00	WIRELINE PACKER INTO PLACE (PROJECTED SETTING DEPTH 12,335' DIL LOG)
08/25/95	12543	05:00 08:00	WIRELINE SET PACKER #1 AT 12335 FT RKB
		08:00 10:30	MAKE UP PACKER ASSEMBLY #2 AS FOLLOWS 7" BAKER ISOLATION PACKER MODEL F-1 / 20' SEAL BORE EXTENTION / 1 JOINT OF 3 1/2 10.2# VAM ACE TUBING / OTIS X NIPPLE (2.750" ID) / 1 JOINT OF 3 1/2" 10.2# VAM ACE TUBING / WIRE LINE REENTRY GUIDE
		10:30 14:45	WIRELINE SET PACKER #2 AT 11600 FT RKB (LOG OFF TO VERIFY DEPTH)
		14:45 15:30	POOH W/ WIRELINE AND RIG OUT OILWELL PERFORATORS
		15:30 16:30	RIG UP AMERICAN TORQUE TURN EQUIPMENT AND CAMPBELL NITROGEN TUBING TESTERS (VAM ACE CONNECTION HAND ON LOCATION)
		16:30 19:00	PICK UP AND MAKE UP 20' SEAL BORE ASSEMBLY / 1 JOINT OF 3 1/2 10.2# VAM ACE TUBING / 3 1/2 OTIS X NIPPLE (2.750" ID) W/ 10' FLOW PUP ABOVE AND BELOW / FOLLOWED BY 3 1/2 TUBING
		19:00 05:00	RUN 3 1/2" 10.2# L80 VAM ACE TUBING AND TEST EACH JOINT CONNECTION TO 5000 PSI WITH NITROGEN
08/26/95	12543	05:00 10:00	RUN 3 1/2" 10.2# VAM ACE TUBING TORQUED TO 3470 FT # OPTIMUM PRESSURE TEST EACH JOINT OUT OF SLIPS WITH NITROGEN
		10:00 11:00	WAITING ON TENTION SPOOL FOR STAINLESS TUBING
		11:00 13:00	RIG UP TENTION SPOOLER AND EQUIPMENT TO RUN 3 1/2" VAM ACE TUBING WITH 3/8" STAINLESS LINE UNDER 3500 PSI PRESSURE
		13:00 15:00	FILL 3500 FT OF 3/8 STAINLESS LINE WITH DIESEL AND PRESSURE TEST TO 4000 PSI
		15:00 23:30	RUN 3000 FT OF 3 1/2" 10.2# L80 VAM ACE TUBING WITH 3000 FT OF 3/8" STAINLESS TUBING UNDER 3500 PSI PRESSURE AND INSTALL RUBBER STAND OFF BANDS EVERY JOINT
		23:30 00:30	MULE SHOE HANGING UP ON LAST CASING COLLAR HAD TO WORK PAST
		00:30 01:30	WORK SEALS INTO POLISHED BORE AND TEST TO 500 PSI W/ 5M #

**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R  
 AFE No. :021242  
 FIELD :CAVE CREEK

WELL No. :1R  
 API No. :43-043-30100  
 RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 40 TO REPORT No. 46

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
08/27/95	12543	01:30 02:00	LAY DOWN 2 JOINTS TO SPACE OUT AND INSTALL TUBING HANGER WITH FMC (PUP LENGTHS BTM TO TOP : 10' / 2' / 10')
		02:00 03:45	CIRCULATE 375 BARRELS OF PACKER FLUID TO ANNULUS WHILE W.O. 10' PUP JOINT (110 GALLONS OF CRW132F IN 375 BARRELS / 5000 PPM OF CRW132F)
		03:45 05:00	PICK UP AND TORQUE PUP JOINTS 1 JOINT BELOW TUBING HANGER WORK SEALS BACK INTO POLISHED BORE AND LAND HANGER WITH 6,000# COMPRESSION
		05:00 08:00	CUT STAINLESS LINE AND THREAD THREW TUBING HANGER PRESSURE TEST ADAPTERS TO 5000 PSI FOR 15 MINUTES AND PRESSURE TEST INJECTION LINE TO 4000 PSI FOR 30 MINUTES WITH NO LEAKS
		08:00 09:45	WORK SEALS BACK INTO POLISHED BORE AND LAND TUBING HANGER INTO TUBING SPOOL WITH 6000# COMPRESSION ON BAKER F1 PACKER
		09:45 10:15	TEST PACKER SEALS AND TUBING HANGER TO 4000 PSI FOR 30 MINUTES (LOST 30 PSI) BLEED BACK PRESSURE SLOW
		10:15 14:30	NIPPLE DOWN FLOW TEE, HYDRIL, DOUBLE GATE, KILL LINES, BLEED LINES AND DRILLING SPOOL
		14:30 18:00	NIPPLE UP BLANK FMC WELLHEAD AND PRESSURE TEST ASSEMBLY TO 5000 PSI FOR 30 MINUTES (NO LOSS)
		18:00 20:30	PRESSURE TUBING ANNULUS TO 1000 PSI AND INJECT INHIBITED FLUID DOWN 7 5/8" ANNULUS AT 375 PSI TO ESTABLISH FEED RATE FOR CEMENTING
		20:30 23:00	DUMP AND CLEAN ALL MUD TANKS
08/28/95	12543	23:00 03:00	LOAD OUT 5 TRUCKS OF 3 1/2" DRILL STRING AND 6 TRUCKS OF RENTAL EQUIPMENT, RIG OUT GAS BUSTER AND RIG OUT PVT EQUIPMENT
		03:00 05:00	RIG DOWN NABORS 270
		05:00 07:00	TEAR OUT NABOURS #270
		07:00 11:00	CLEAN OUT MUD PUMPS / MUD TANKS / MUD EQUIPMENT
		11:00 14:00	TEAR OUT AND LOAD OUT ALL REMAINING RENTAL EQUIPMENT ALL RENTAL EQUIPMENT OFF RENT AND RELEASED
14:00 16:00	RIG UP BJ CEMENTERS AND PUMP FRESH WATER DOWN BACKSIDE OF 7" CASING FOLLOWED BY 10 BARRELS SAAP WASH FOLLOWED BY 69 BARRELS OF 12# PREMIUM LITE + 2% 2-3 FOLLOWED BY 10.2 BARRELS OF 15.8 # CLASS G NEAT FOLLOWED BY 20.8 BARRELS OF FRESH WATER TO DISPLACE CEMENT TO		

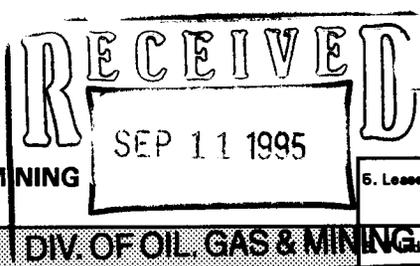
**OPERATION SUMMARY REPORT**

WELLNAME :UPRC CCD 846 A #1R	WELL No. :1R
AFE No. :021242	API No. :43-043-30100
FIELD :CAVE CREEK	RIG :NABORS 270

SUMMARY OF OPERATIONS FROM REPORT No. 40 TO REPORT No. 46

DATE	DEPTH	TIME	WORK DESCRIPTION DIARY
			1000 FEET RKB / SHUT WELL IN OVER NIGHT WITH 250 PSI ON 7 5/8" CASING ANNULUS
		16:00 05:00	TEAR OUT NABOURS RIG #270 RIG RACKED ON LOCATION WAITING FOR NEW LOCATION RIG RELEASED AT 16:00 HOURS 08/28/1995
			FINAL ESTIMATED DHC: \$1,010,000 (36 DAYS) FINAL ESTIMATED CWC: \$1,965,000 (46 DAYS)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



5. Lease Designation and Serial No.  
Fee

6. Land Allotment, Allottee or Tribe Name  
NA

7. Unit Agreement Name  
NA

8. Well Name and Number  
CCD846A-1R

9. API Well Number  
43-043-30100

10. Field and Pool, or Wildcat  
Cave Creek

DIV. OF OIL, GAS & MINING  
SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well:  
OIL ( ) GAS (X) OTHER: (RE-ENTRY)

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

4. Location of Well  
Footages 707' FNL, 2342' FWL Sec. 25, T. 5 N., R. 7 E.  
County Summit  
QQ, Sec., T., R., M. NENW Sec. 25, T. 5 N., R. 7 E.  
State Utah

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

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

( ) Abandonment ( ) New Construction  
 ( ) Casing Repair ( ) Pull or Alter Casing  
 ( ) Change of Plans ( ) Recompletion  
 ( ) Conversion to Injection ( ) Shoot or Acidize  
 ( ) Fracture Test ( ) Vent or Flare  
 ( ) Multiple Completion ( ) Water Shutoff  
 (X) Other: Sundry Request

Approximate date work will start: Upon Approval

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

( ) Abandonment \* ( ) New Construction  
 ( ) Casing Repair ( ) Pull or Alter Casing  
 ( ) Change of Plans ( ) Shoot or Acidize  
 ( ) Conversion to Injection ( ) Vent or Flare  
 ( ) Fracture Treat ( ) Water Shut-Off Shutoff  
 ( ) Other \_\_\_\_\_

Date of work completion \_\_\_\_\_

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

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

As requested, Union Pacific Resources Company (UPRC) submits this Sundry Notice to outline the conditions under which verbal permission was given by the Utah Division of Oil, Gas and Mining on September 6, 1995, to a request to move semi-dry cuttings from the UPRC YCS 30-1H well, located in Section 30, T. 14 N., R. 121., Uinta County, Wyoming, to the above referenced well. The cuttings will be permanently buried in the CCD846A-1R lined reserve pit when it is no longer needed and is closed. The YCS 30-1H cuttings, estimated at 750 barrels (3,930 cubic feet) will only be moved to the CCD846A-1R reserve pit until such time as arrangements for their disposal in the State of Wyoming can be made. The cuttings will be deposited in a lined reserve pit which UPRC is presently constructing in Uinta County, Wyoming.

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.  
Name/Signature: W. F. Brazelton *W. F. Brazelton* Title: Senior Regulatory Analyst Date: 95-09-07

(This space for State use only)  
*Attached conditions*

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 9-12-95  
BY: [Signature]

**Utah Division of Oil, Gas and Mining**

Attachment to **Sundry Notice and Report on Wells**  
dated September 7, 1995.

Subject: Request of Union Pacific Resources Co. for permission  
to transport and dispose of cuttings into reserve pit.

**CCD846A-1R** well, sec. 25, T5N, R7E, Summit, County.  
API = 43-043-30100

This is a temporary approval to transport cuttings from the  
YCS 30-1H well in Wyoming to the subject location in Utah.  
UPRC will still be required to meet recommended cleanup  
levels when the subject well location is abandoned.



RECEIVED

OCT 16 1995

DOUBLE JACK TESTING & SERVICES, INC.

B.O.B. test report

DIV. OF OIL, GAS & MINING

B.O.B. test performed on (date) 8/9/95

oil company C.P.R.C.

well name & number CCD. 846A #1

section 25

township 5N

range 7E

county Summit Utah

drilling contractor Nabors 270

oil company site representative Skave Dave

rig tool bushet Pat

tested out of EVANSTON

Notified pilot to test Yes

Copies of this test report sent to: Blm

State

UPRC

Nabors

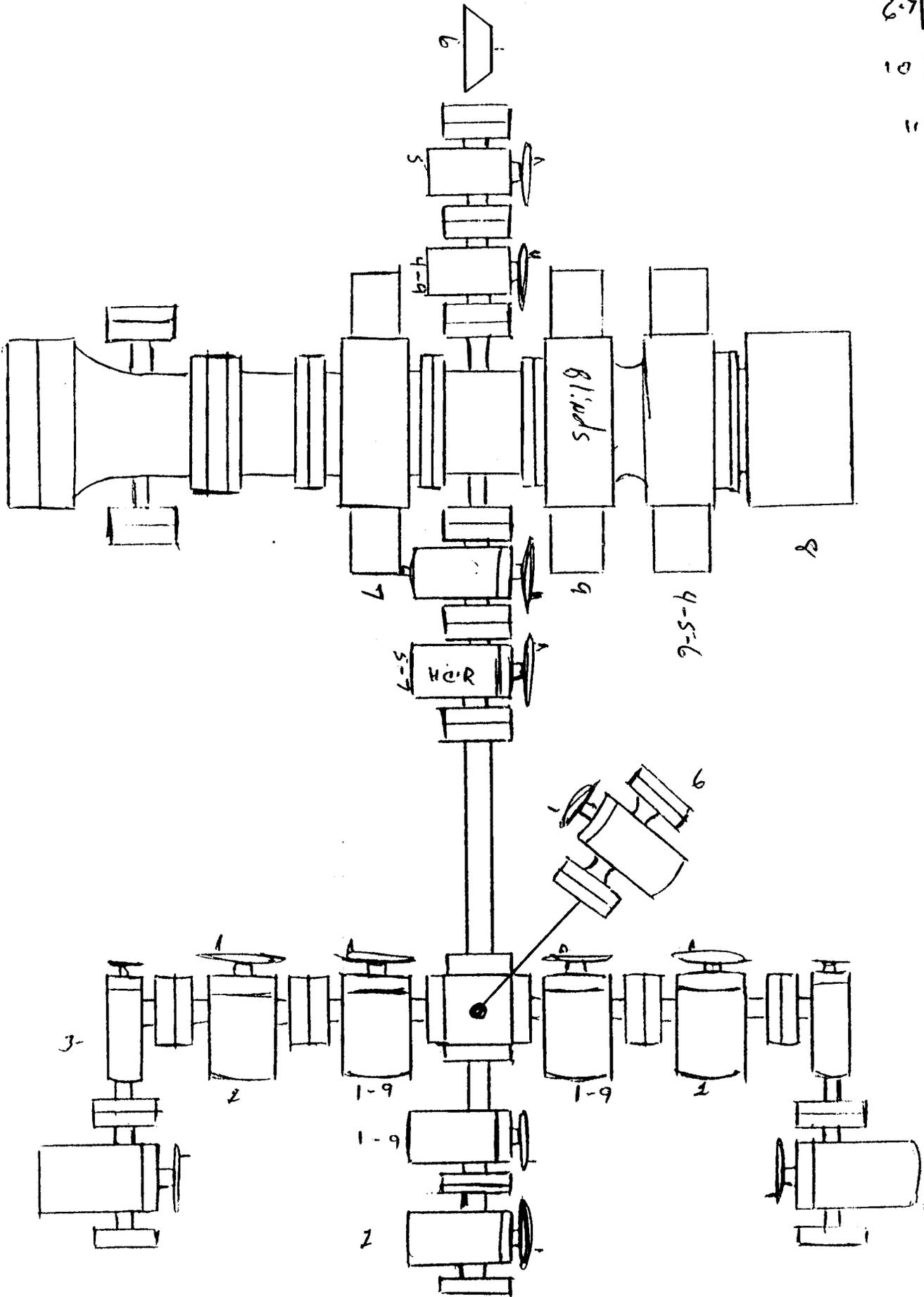
original chart & test report on file at: \_\_\_\_\_

Below

tested by: Double Jack Testing & Services, Inc.  
108 Parkview Road  
P.O. Box 2097  
Evanston, Wyoming 82930



- 4-5 TEW
- 6-7 DARL
- 10 LOW-R
- 11 up



# Double Jack Testir & Services Inc.

FIELD TICKET  
No 11487

Accounting Office: P.O. Box 516 Shoshoni, WY 82649 • (307) 876-9390  
 Field Operations: Shoshoni, WY (307) 876-2308  
 Rock Springs, WY (307) 382-4020  
 Evanston, WY (307) 789-9213  
 Vernal, UT (801) 781-0448

DATE 8/9/95  
 OPERATOR U.P.R.C.  
 RIG NAME & NO. NABORS 270  
 WELL NAME & NO. CCO. 846A #1R

COUNTY Summit STATE UTAH SECTION 25 TOWNSHIP 5N RANGE 7E

Items Tested:	LOW TEST PSI	TIME HELD MINUTES	HIGHTEST PSI	TIME HELD MINUTES	
Top Pipe Rams	<u>250</u>	<u>5 MIN</u>	<u>5000</u>	<u>10 MIN</u>	Closing Unit PSI <u>3000</u>
Bottom Pipe Rams	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	Closing Time of Rams <u>65cc</u>
Blind Rams	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	Closing Time of Annular <u>165cc</u>
Annular B.O.P.	<u>250</u>	<u>5</u>	<u>2500</u>	<u>10</u>	Closed Casing Head Valve <u>Yes</u>
Choke Manifold	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	Set Wear Sleeve <u>Yes</u>
Choke Line	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	COMMENTS
Kill Line	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Super Choke	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Upper Kelly	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Lower Kelly	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Floor Valve	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Dart Valve	<u>250</u>	<u>5</u>	<u>5000</u>	<u>10</u>	
Casing					

## ADDITIONAL TESTS & COMMENTS

✓ Pre-charge on all roomy bottles & filled all to 1100 psi ± 15 lower standard

○ 1100 ○ 1100 ○ 1100 ○ 1100 ○ 1100 ○ 1100 11 Bottles in system

○ 1100 ○ 0 ○ 1100 ○ 1100 ○ 1100 ○ 1100 psi

Roomy DRILL START PST 2900

Pipes close 6 sec 2250 psi Repump 3:07

Pipes close 6 sec 1900 psi

H-Drill close 16 sec 1200 psi

H-CR close 15 sec 1200

Pipes open 7 sec 1100 psi

TEST PLUG 10" C-22

RET. TOOL ON Location

TOP SUB. 4 1/2 EF

KELLY SUB. 4 1/2 EF

X-OVER SUB. XH 10 EF

### RATES

UNIT RATES 700.00 for the first 8 hrs on location 9:00pm - 5:00am

ADDITIONAL 6 HRS on location after 8:00 5:00 11:00 30.00

MILEAGE 30 Miles Round Trip from Evanston shop @ 1.00 per

METHANOL

OTHER

AFO # 021242  
 1000 piff

PURCHASE ORDER #

TESTED BY

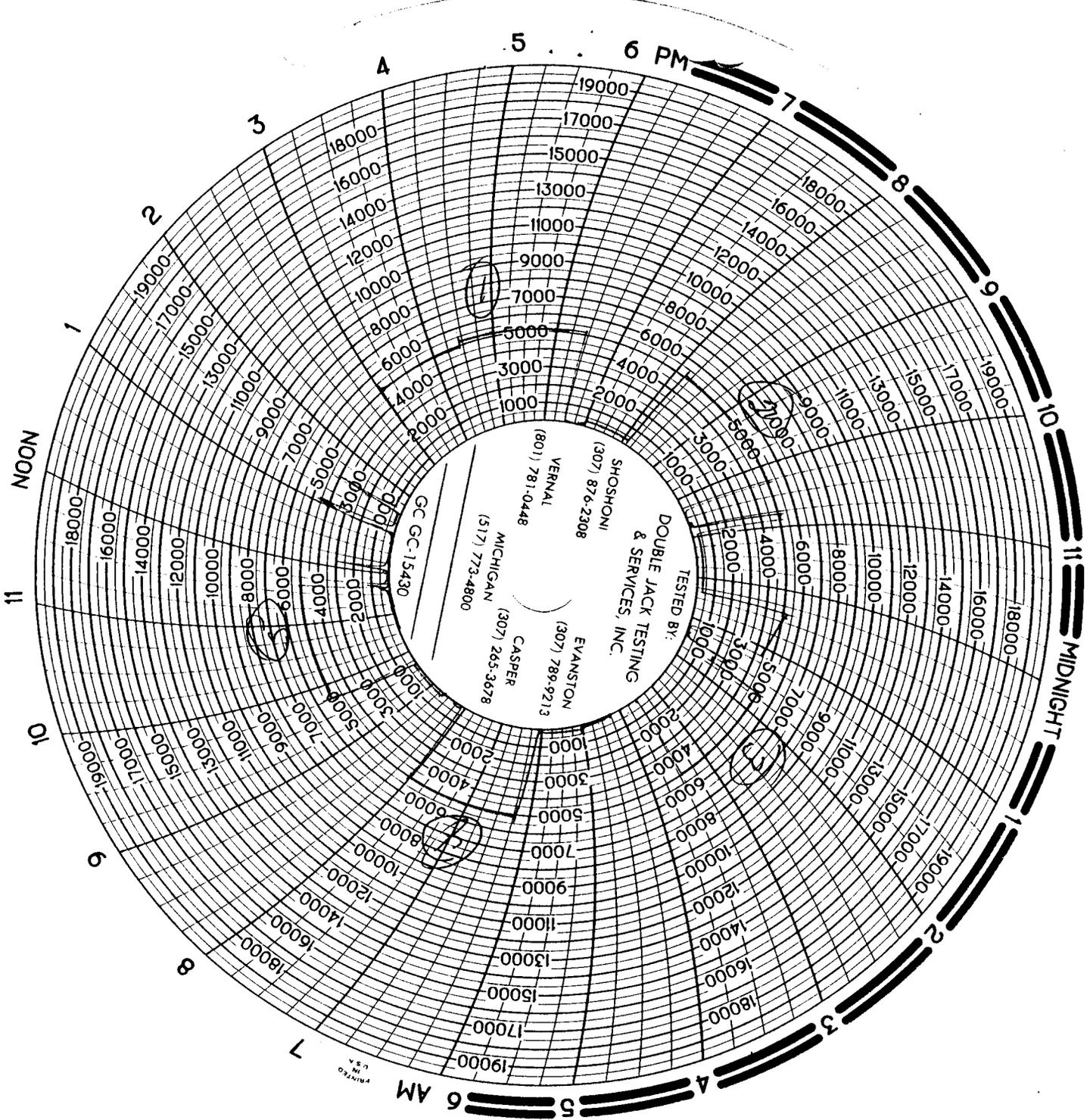
143

COMPANY REPRESENTATIVE

DOUBLE JACK TESTING UNIT NUM

### NOTICE TO ALL CUSTOMERS

If this account shall not be paid when due and it is placed with an attorney for collection, or if suit be instituted for collection, the undersigned including attorney's fees and court cost in compliance with TRUTH IN LENDING AND THE UNIFORM CONSUMER CREDIT CODE accounts, all amounts for service due and payable within THIRTY (30) DAYS from the receipt of an invoice for such services. A LATE THE LATE CHARGE is computed by a "periodic rate" 1-3/4% PER MONTH which is an ANNUAL PERCENTAGE RATE OF 21% t credit can be extended on unpaid delinquent accounts until the delinquent account is paid in full. The contractor will not be held liable that could not be reasonably anticipated in performing the work done as set forth above.

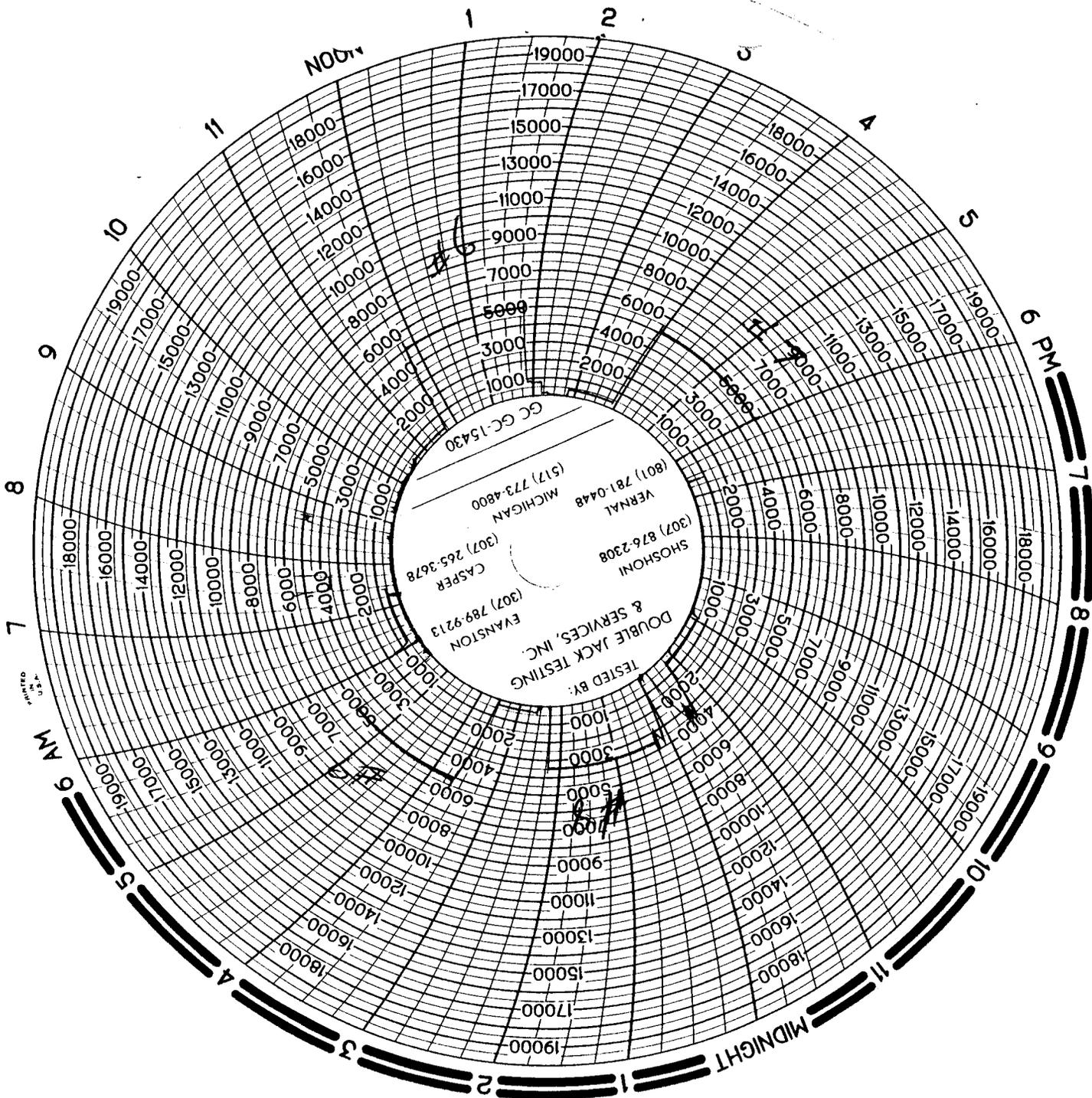


TESTED BY:  
**DOUBLE JACK TESTING & SERVICES, INC.**

SHOSHONI (307) 876-2308  
VERNAL (801) 781-0448  
EVANSTON (307) 786-9213  
MICHIGAN (517) 773-4800  
CASPER (307) 265-3678

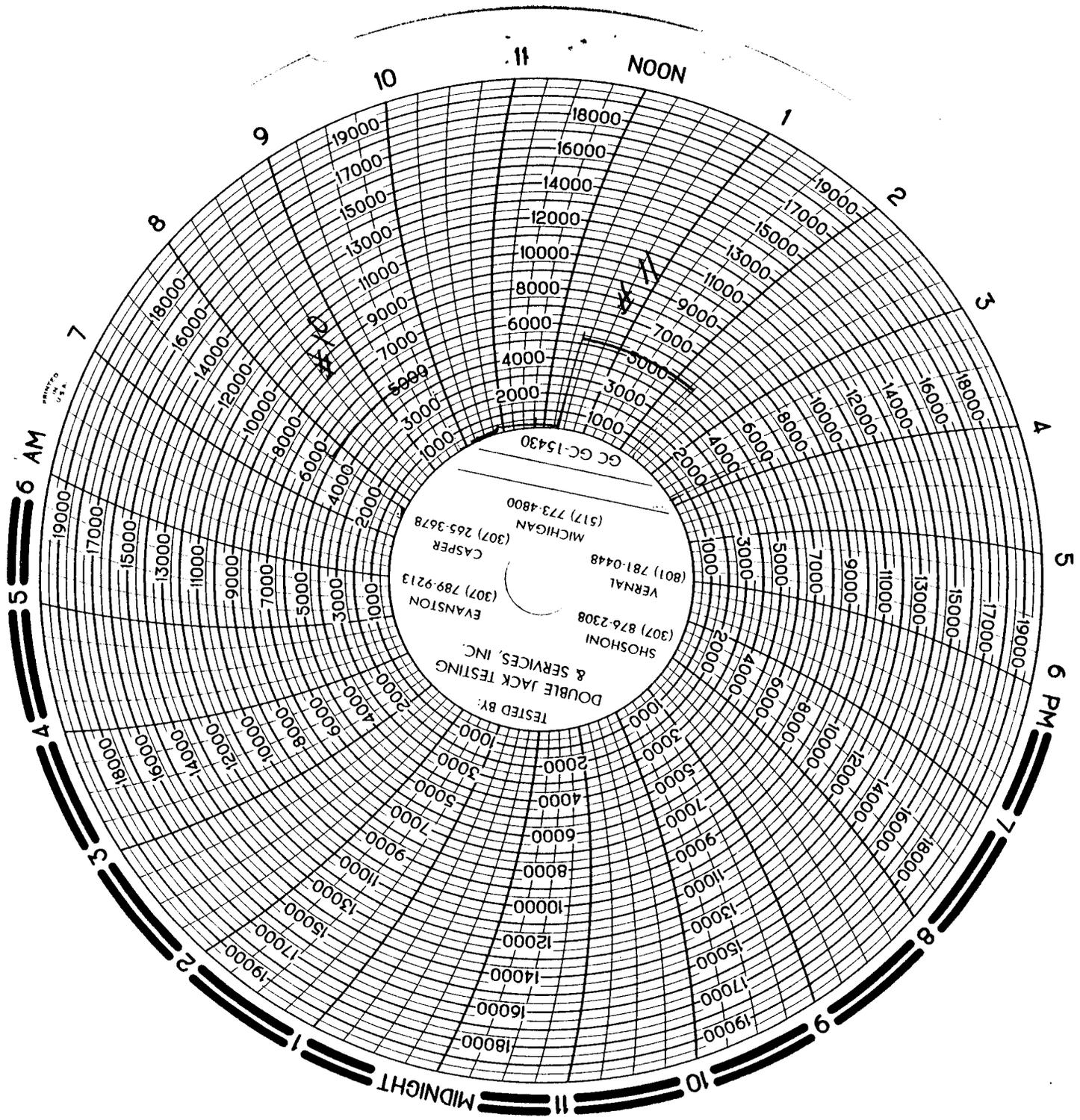
GC GC-15430

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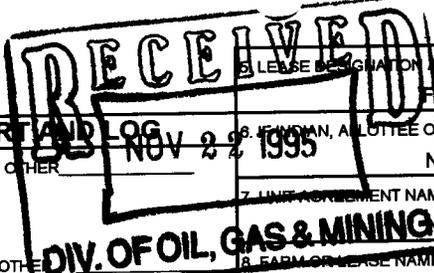
TESTED BY:  
DOUBLE JACK TESTING  
& SERVICES, INC.  
EVANSTON (307) 789-9213  
CASPER (307) 265-3678  
SHOSHONI (307) 876-2308  
VERNAL (801) 781-0448  
MICHIGAN (517) 773-4800  
GC GC-15430

MADE IN U.S.A.



PRINTED IN U.S.A.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



LESSOR DESIGNATION AND SERIAL No.

Fee

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. INDIAN, ALLOTTEE OR TRIBAL NAME

NA

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

1 a. TYPE OF WELL ( ) OIL WELL (X) GAS WELL ( ) DRY ( ) OTHER

b. TYPE OF COMPLETION

(RE-ENTRY)

( ) NEW WELL ( ) WORKOVER (X) DEEPEN ( ) PLUG BACK ( ) DIFF. RESV. ( ) OTHER

2. NAME OF OPERATOR

UNION PACIFIC RESOURCES COMPANY

3. ADDRESS OF OPERATOR

P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007

(817) 877-7952

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At Surface 707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.

At Proposed Producing Zone 1857' FNL, 4518' FWL Sec. 25, T. 5 N., R. 7 E.

At Total Depth: 2018' FNL, 493' FEL  
Sec. 25, T. 5 N., R. 7 E.

14. API NUMBER

43-043-30100

DATE ASSIGNED

15. SPUD DATE

95-07-14

16. DATE TD REACHED

95-08-16

17. DATE COMPL. (Ready to prod.)

950901

or (Plug & Abd.)

18. ELEVATIONS (DF, RKB, RT, GL, etc.)

GR - 6662'; KB - 6682' MSL

19. ELEV. CASINGHEAD

20. TOTAL DEPTH (MD & TVD)

12543' MD/11787' TVD

21. PLUG BACK TD, MD & TVD

NA

22. IF MULTIPLE COMPL.,

HOW MANY

NA

23. INTERVAL

DRILLED BY

Rotary?

Yes

Cable Tools?

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD)

PHOSPHORIA 11860' (Top) 12315' (Bottom); WEBER 12465' (Top) 12535' (Bottom)

25. WAS DIRECTIONAL SURVEY

MADE? Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

DIL, SONIC, FCD, CNL, GR, ALC, CYBIL, DIP METER

27. WAS WELL CORED? ( ) Yes (X) No (Submit Analysis)

DRILL STEM TEST? ( ) Yes (X) No (See Reverse Side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	106.5	1438'			
13-3/8"	68, 72, 88	3376', 4766', 5750'			
9-5/8"	40, 43.5, 47	7256'			
7-5/8", 7"	39, 32	3492', 12538'		570 SX CLASS "G"	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
NA				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
3-1/2"	11602'	11602'
		12336'

31. PERFORATION RECORD (Interval, size, and number)

PHOSPHORIA, 11860'-90'; 11910'-30'; 11970'-12210';  
12240'-12315'; 2SPF  
WEBER, 12465'-12535'; 2SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
95-26-95 951102	FLOWING	PRODUCING					
DATE OF TEST	HOURS TESTED	COKE SIZE	PROD'N FOR TEST PERIOD	OIL--BBL.	GAS--MCF	WATER--BBL.	GAS - OIL RATIO
95-10-24	24	48/64	402	402	20.6	2.2	5124:1
FLOW. TBG PRESSURE	CSG PRESSURE	CALCULATED	OIL--BBL.	GAS--MCF	WATER--BBL.	OIL GRAVITY - API (CORR.)	
2600		24-HOUR RATE	402	20	--		

per W.F. Brazelton 11-30-95

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

FLARED

TEST WITNESSED BY

PAUL SMITH, UPRC

35. LIST OF ATTACHMENTS

36. I hereby certify that this report is true and complete to the best of my knowledge

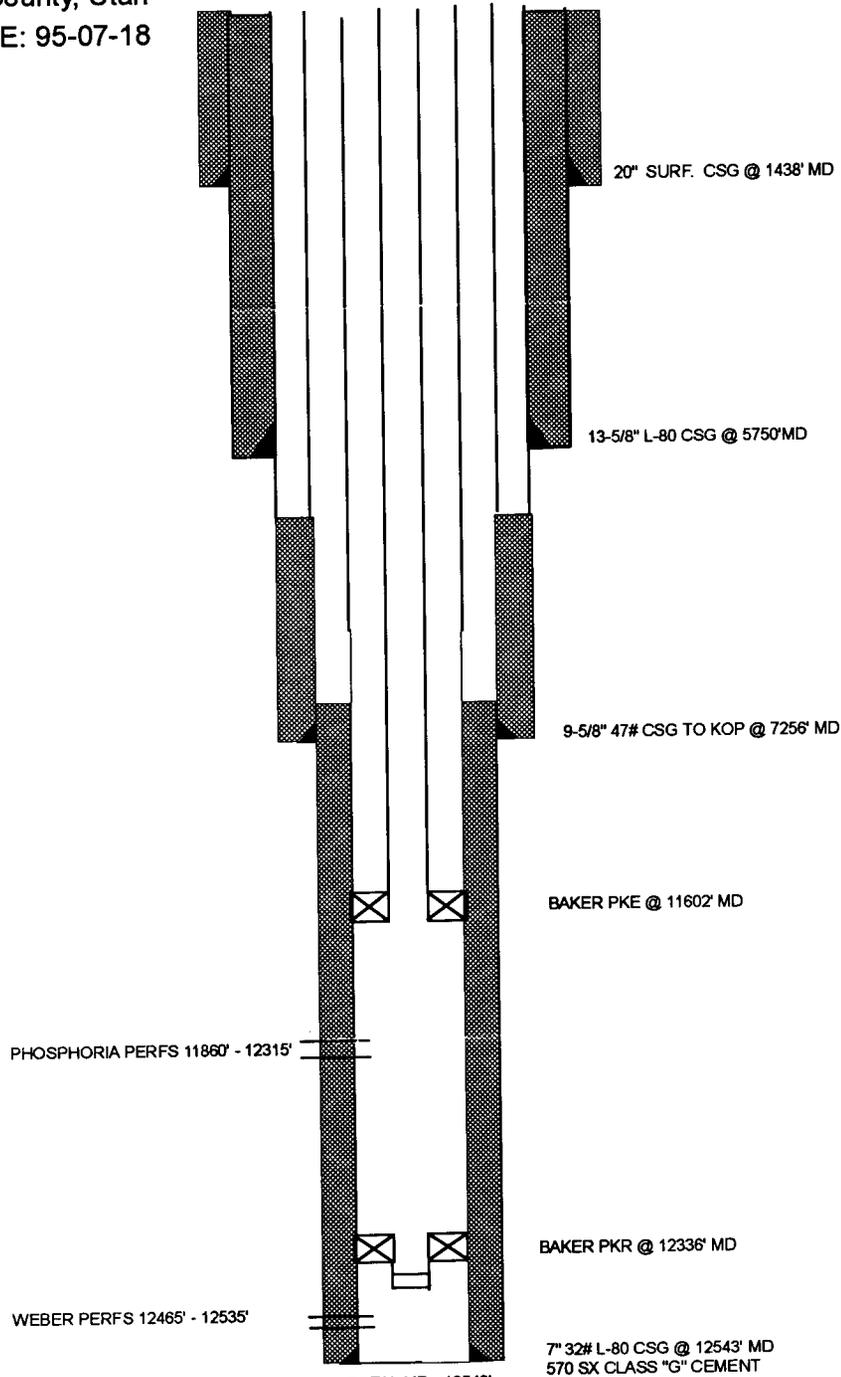
Signed: W. F. Brazelton

Title: Senior Regulatory Analyst

Date: 95-11-17

WELL: UPRC CCD 846A-1R (Redrill)  
SL: 707' FNL, 2342' FWL Sec. 25, T5N, R7E  
BHL: 2018' FNL, 4840' FWL Sec. 25, T5N, R7E  
San Juan County, Utah  
SPUD DATE: 95-07-18

DATE: 95-11-17  
BY: WFB  
FIELD: Cave Creek Deep



TOTAL MD - 12543'  
TOTAL VERTICAL DEPTH - 11787'

UNION PACIFIC RESOURCES COMPANY



**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

November 30, 1995

Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
3 Triad Center - Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84190

ATTN: Ms. Debra Falconey

RE: **Revised Completion Report  
UPRC CCD 846A-1R  
Section 25, T. 5 N., R. 7 E., SLM  
Summit County, Utah**

Dear Ms. Falconey:

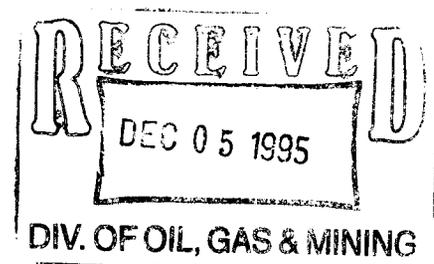
I am enclosing one revised original completion report for the above referenced well located in Summit County, Utah. I have corrected the mistakes in the dates of completion and first production. I apologize for any inconvenience that the mistakes in the report sent to you earlier may have caused.

Please call me at (817) 877-7952, FAX (817) 87707942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY

W. F. Brazelton  
Senior Regulatory Analyst



Union Pacific Resources Company  
P.O. Box 7  
Fort Worth, Texas 76101-0007  
817 / 877-6000  
TWX 910 893 5024  
Telex 758-447

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

DEC 05 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL No.  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBAL NAME  
NA

7. UNIT AGREEMENT NAME  
NA

8. FARM OR LEASE NAME  
UPRC Fee

9. WELL NAME  
UPRC CCD 846A-1R

10. FIELD AND POOL, OR WILDCAT  
CAVE CREEK DEEP

11. QQ, SEC., T., R., M., OR BLOCK AND SURVEY  
OR AREA  
NENW Sec. 25, T. 5 N., R. 7 E.

1 a. TYPE OF WELL ( ) OIL WELL (X) GAS WELL ( ) DRY ( ) OTHER

b. TYPE OF COMPLETION  
( ) NEW WELL ( ) WORKOVER (X) DEEPEN ( ) PLUG BACK (X) DIFF. RESV. ( ) OTHER

2. NAME OF OPERATOR  
UNION PACIFIC RESOURCES COMPANY

3. ADDRESS OF OPERATOR  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At Surface 707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.  
At Proposed Producing Zone 1857' FNL, 4518' FWL Sec. 25, T. 5 N., R. 7 E.

At Total Depth: 2018' FNL, 493' FEL Sec. 25, T. 5 N., R. 7 E.

14. API NUMBER 43-043-30100 DATE ASSIGNED

12. COUNTY Summit 13. STATE Utah

15. SPUD DATE 95-07-14 16. DATE TD REACHED 95-08-16 17. DATE COMPL. (Ready to prod.) 95-09-01 or (Plug & Abd.) 18. ELEVATIONS (DF, RKB, RT, GL, etc.) GR - 6662'; KB - 6682' MSL 19. ELEV. CASINGHEAD

20. TOTAL DEPTH (MD & TVD) 12543' MD/11787' TVD 21. PLUG BACK TD, MD & TVD NA 22. IF MULTIPLE COMPL., HOW MANY NA 23. INTERVAL DRILLED BY Rotary? Yes Cable Tools? Yes

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD & TVD) PHOSPHORIA 11860' (Top) 12315' (Bottom); WEBER 12465' (Top) 12535' (Bottom) (PSPR) 25. WAS DIRECTIONAL SURVEY MADE? Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, SONIC, FCD, CNL, GR, ALC, CYBIL, DIP METER 27. WAS WELL CORED? ( ) Yes (X) No (Submit Analysis) DRILL STEM TEST? ( ) Yes (X) No (See Reverse Side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	106.5	1438'			
13-3/8"	68, 72, 88	3376', 4766', 5750'			
9-5/8"	40, 43.5, 47	7256'			
7-5/8", 7"	39, 32	3492', 12538'		570 SX CLASS "G"	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA					3-1/2"	11602'	11602'
							12336'

31. PERFORATION RECORD (Interval, size, and number) PHOSPHORIA, 11860'-90'; 11910'-30'; 11970'-12210'; 12240'-12315'; 2SPF WEBER, 12465'-12535'; 2SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
95-11-02	FLOWING 2.0 bbl MCF	PRODUCING
DATE OF TEST 95-10-24 HOURS TESTED 24 COKE SIZE 48/64	PROD'N FOR TEST PERIOD OIL-BBL 402 GAS-MCF 20.6 WATER-BBL 2.2	GAS - OIL RATIO 5124:1
FLOW. TBG PRESSURE 2600	CSG PRESSURE CALCULATED 24-HOUR RATE OIL-BBL 402 GAS-MCF 20 WATER-BBL --	OIL GRAVITY - API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) FLARED TEST WITNESSED BY PAUL SMITH, UPRC

35. LIST OF ATTACHMENTS

36. I hereby certify that this report is true and complete to the best of my knowledge  
Signed: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 95-11-17

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEM 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completions), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s), and name(s) 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.

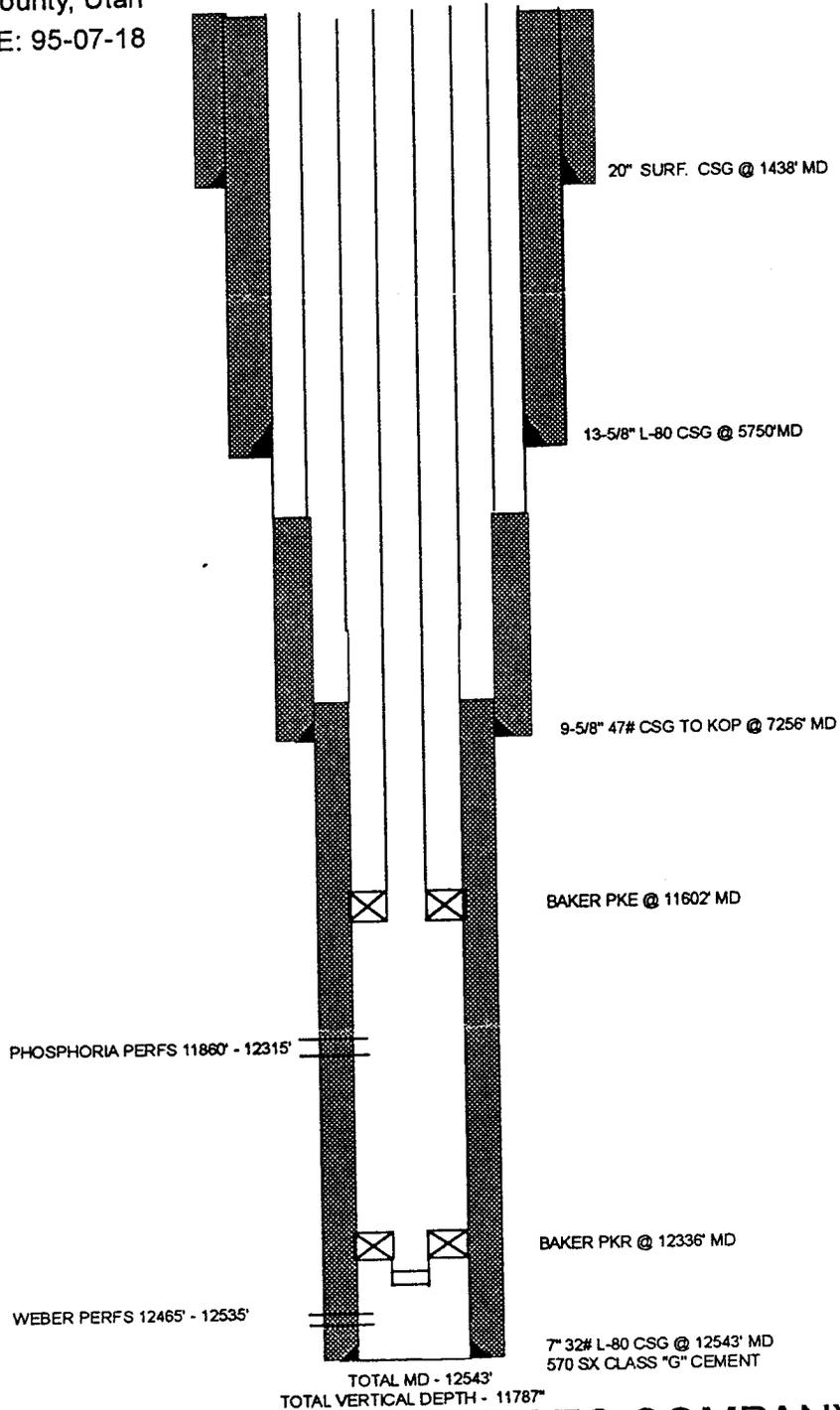
ITEM 33: Submit a separate completion report on this for each interval to be separately produced (see instruction for items 22 and 24 above).

37. SUMMARY OF PORUS ZONES:		38. GEOLOGIC MARKERS			
Formation	Top	Bottom	Description, contents, etc	Top	
				Measured Depth	True Vertical Depth
				3824'	3824'
				4968'	4968'
				10731'	10703'
				7308'	7297'
				8320'	8275'
				9400'	9190'
				10840'	10371'
				11530'	10950'
				11790'	11165'
				12340'	11720'

RECEIVED  
DEC 05 1995  
DIV. OF OIL, GAS & MINING

WELL: UPRC CCD 846A-1R (Redrill)  
SL: 707' FNL, 2342' FWL Sec. 25, T5N, R7E  
BHL: 2018' FNL, 4840' FWL Sec. 25, T5N, R7E  
San Juan County, Utah  
SPUD DATE: 95-07-18

DATE: 95-11-17  
BY: WFB  
FIELD: Cave Creek Deep



UNION PACIFIC RESOURCES COMPANY



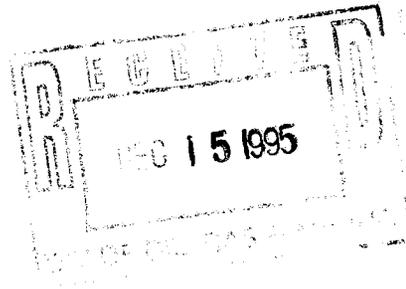
**Union Pacific  
Resources**

A Subsidiary of Union Pacific Corporation

**CONFIDENTIAL**

December 12, 1995

Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
3 Triad Center - Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84190



ATTN: Ms. Vicki Dyson

RE: **Electric/Gamma Ray Log Submittal**  
**UPRC CCD 846A-1R**  
**Section 25, T. 5 N., R. 7 E., SLM**  
**Summit County, Utah**  
*CONF SGW*

Dear Ms. Dyson: *43 043 30/00*

Enclosed please find the follow logs from the above referenced well located in Summit County, Utah.

1. Long Spaced Borehole Compensated Acoustilog/Gamma Ray Caliper ✓
2. Compensated Z-Densilog/Neutron/Gamma Ray ✓
3. Dual Induction Focused/Gamma Ray ✓

Union Pacific Resources Company respectfully requests that these logs be held "**Company Confidential**" for the maximum time allowable.

Please call me at (817) 877-7952, FAX (817) 87707942, if you have any questions or need additional information.

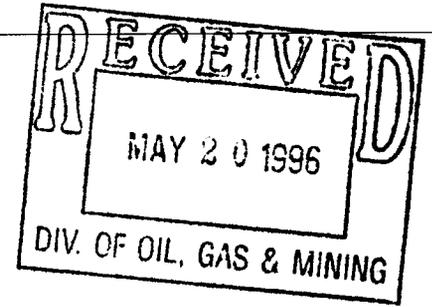
Yours truly,

UNION PACIFIC RESOURCES COMPANY

*W. F. Brazelton*

W. F. Brazelton  
Senior Regulatory Analyst

May 14, 1996



Division of Oil, Gas and Mining  
Utah Department of Natural Resources  
3 Triad Center - Suite 350  
355 West North Temple Street  
Salt Lake City, Utah 84190

ATTN: Mr. Frank Matthews

RE: **Measure-While-Drilling (MWD) Survey**  
**UPRC CCD 846A-1R**  
**Section 25, T. 5 N., R. 7 E., SLM**  
**Summit County, Utah**

*43 043 30100*

**CONFIDENTIAL**

Dear Frank:

Enclosed please find a copy of the final daily drilling report, dated September 16, 1995, for the above referenced well located in Summit County, Utah. The report contains the MWD survey for the well which shows the bottom-hole location at a measured depth of 12,543 feet. True vertical depth for the well is 11,787 feet. The bottom-hole location is 1,310.72 feet south and 2,497.49 feet west of the surface location (707 feet FNL, 2,342 feet FWL Section 25, T. 5 N., R. 7 E.) Please excuse my oversight in not including the survey with the completion report for the well when it was submitted.

Please call me at (817) 877-7952, FAX (817) 87707942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY

W. F. Brazelton  
Senior Regulatory Analyst

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING (OGM)  
ON-SITE PREDRILL EVALUATION AND REVIEW

OPERATOR: Union Pacific Resources Company

WELL NO: UPRC CCD 846-A-1R (Re-Entry) LEASE NO: Fee

API NUMBER: 43 - 043 - 30100 LEASE TYPE: STATE      FEE Y

PROPOSED LOCATION: CONFIDENTIAL

SURFACE: 707 FNL 2300 FWL

SURFACE: QTR/QTR: NE NW SEC: 25 TWP: 5 N RNG: 7 E

BOTTOM HOLE: 2045 FNL 460 FEL DIRECTIONAL HOLE

BOTTOM HOLE: QTR/QTR: SE NE SEC: 25 TWP: 5 N RNG: 7 E

COUNTY: Summit FIELD: CODE/NAME: Cave Creek 515

GPS COORDINATES: 4554398 N 491472 E

SURFACE OWNER: Fawcett SURFACE AGREEMENT (Y/N): Y

LOCATION AND SITING:

Y Plat      R649-2-3. Unit:     

Y Bond Sta      Fee X      R649-3-2. General

Number: 888994 X R649-3-3. Exception

N Potash (Y/N)      UCA 40-6-6. Drilling Unit

N Oil Shale (Y/N) Cause No:     

Y Water Permit      Date:     

N RDCC Review     

ARCHEOLOGICAL AND PALEONTOLOGY SURVEY RECEIVED: (Y/N) NA

SITE PROBLEMS: None

*RE-ENTRY* CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 10-1-96

Onsite Participants: Jim Thompson, Mike Hebertson DOGM  
Dale Wickersham, UPRC

Regional Setting/Topography: The well is in the Overthrust Belt Area of northern Utah near the Wyoming border. The area is dominated by mountainous terrain and high plains meadows of sage and grasses.

**DRILLING PROGRAM:**

1. Surface Formation and Estimated Tops/Geologic Markers

The surface formation is the Fowkes formation tops are as follows:

	TVD	MD
Preuss	3824	3824
Twin Creek	4968	4968
Nugget	7304	7304
Ankerah	8283	8316
Thaynes	9193	9447
Woodside	10483	11127
Phosphoria	11223	12097
Weber	11693	12693
TD	11800	12843

2. Estimated Depths of Anticipated Water, Oil, Gas or other Mineral Bearing Zones

Substance	Formation	Depth
Oil/Gas	Twin Creek	5634
Oil/Gas	Phosphoria	11223
Oil/Gas	Weber	11683

All fresh water sands encountered during drilling shall be recorded and reported to the Division on Form 7.

3. Well Control Equipment & Testing Procedures  
5000 LB rated pipe and blind rams, with a drilling spool, an annular preventer rated to 3000 LBS.  
See diagram attached.

4. Proposed Casing and Cementing Program

*Surface Casing	20"	106.5#	1438'
*Intermediate	13 3/8"	68# 72# & 88#	5750'
*Intermediate	9 5/8"	47#	7300'
Production	7"	32#	12843'

\*All casing is currently in place. New 7" production casing will be cemented with 540 cu.ft. Class G + additives.

5. Mud Program and Circulating Medium - include mud components and weights, when drilling with air also include length and location of bleed line  
LSND system from 7,300'-12,843'. Self-contained system.

6. Coring, Logging, and Testing Program  
No coring or testing anticipated.  
Logging:  
DIL-SONIC-GR TO 7300' (WHIPSTOCK POINT)  
FDC-CNL-GR & DIPMETER TO 7300'
7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards, also list anticipated lost circulation zones, abnormal temperature zones and possible hydrogen sulfide bearing zones  
An H2S contingency plan submitted.

**SURFACE USE PLAN:**

Current Surface Use: Wellsite. General area is grasslands utilized in sheep ranching.

Proposed Surface Disturbance: The existing well site and access roads will be utilized. The well site will be extended to the southwest about 75 feet and will be adjacent to the road. It will also be extended to the east in order to accommodate the mud system.

1. Existing Roads  
Ranch exit 189 from Interstate 80. Existing roads will be used.
2. Planned Access Roads - include length of new road, length of existing road to be upgraded, maximum disturbed and travel surface widths, maximum grades, turnouts, surface materials, drainage, cattleguards  
Existing roads will be used in accessing the well site. An emergency escape road will be constructed to the southwest (into the prevailing wind direction.)
3. Location of existing wells within one-mile radius of proposed location, include water, injection, producing, drilling with present status of each well  
See Appendix A to H2S contingency plan.
4. Location of Production Facilities and Pipelines
5. Location and Type of Water Supply (include Division of Water Rights approval or identifying number)  
Water will be purchased from the local landowner (Fawcett).
6. Source of Construction Material  
No new material will be required. In place native material will be used in road and drill site construction.

7. Waste Management Plan  
See APD attachments.
8. Ancillary Facilities  
None
9. Well Site Layout  
See APD attachments.
10. Surface Restoration Plans  
See APD attachments.

**ENVIRONMENTAL PARAMETERS:**

Affected Floodplain and/or Wetlands:

Is a 404 dredge and fill permit required? (Any activity which will change the bottom elevation of the "waters of the United States" including wetlands, natural and artificially created waters, and even some drainages may require a permit from the Army Corps of Engineers) Not Required.

Flora/Fauna:

Briefly describe the flora found on the proposed site and the fauna evidenced or sighted on or near the proposed location Open grazing range cattle, deer, elk (possible), Sage Brush and range grasses.

**SURFACE GEOLOGY**

Soil Type and Characteristics: sandy clay and gravel.

Surface Formation & Characteristics: Fowkes Formation - a conglomerate that decomposes to sandy clay and pebbles redish brown in color.

Erosion/Sedimentation/Stability: The pipeline construction has caused minor erosion on the right-of-way access on the southeast corner of the location. No problems are anticipated

Paleontological Potential Observed: None observed.

**RESERVE PIT**

Characteristics: The reserve pit for the closed system will be about 40 X 50 X 12 and be used for cuttings only. The mud system will be self-contained.

Lining (Site ranking form attached): A liner will be required because of the pipeline on the south of the pad.

OTHER OBSERVATIONS

Cultural Resources/Archaeology (if proposed location is on State land, has an archaeology clearance been obtained?): \_\_\_\_\_  
No cultural resources will be impacted.

Comments: \_\_\_\_\_

J. Thompson/M. Hebertson

27-June-1995

OGM Representative

Date and Time

WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/21/96

API NO. ASSIGNED: 43-043-30100

WELL NAME: CCD 846-A 1R-H (2nd RE-ENTRY)  
 OPERATOR: UNION PACIFIC RESOURCES (N9465)

PROPOSED LOCATION:  
 NENW 25 - T05N - R07E  
 SURFACE: 0707-FNL-2343-FWL  
 BOTTOM: 2400-FSL-0900-FEL  
 SUMMIT COUNTY  
 CAVE CREEK FIELD (515)

INSPECT LOCATION BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FEE  
 LEASE NUMBER: PATENTED

PROPOSED PRODUCING FORMATION: PSPR

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Federal  State  Fee   
 (Number \_\_\_\_\_)
- Potash (Y/N)
- Oil shale (Y/N)
- Water permit  
 (Number \_\_\_\_\_)
- RDCC Review (Y/N)  
 (Date: \_\_\_\_\_)

LOCATION AND SITING:

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

COMMENTS: R649-3-11

STIPULATIONS: \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

5. Lease Designation and Serial No.  
**FEE**

6. If Indian, Allottee or Tribe Name  
**NA**

7. Unit Agreement Name  
**NA**

8. Farm or Lease Name  
**UPRC**

9. Well Name  
**CCD 846-A 1R-H**

10. Field and Pool, or Wildcat  
**CAVE CREEK**

11. QQ, Sec., T., R., M., or Block and Survey or Area  
**(NE/4NW/4) Sec. 25, T. 5 N., R. 7 E.**

1 a. Type of Work  
 RE-DRILL       DEEPEN       PLUG BACK

b. Type of Well  
 Oil Well     Gas Well     Other       Single Zone       Multiple Zone

2. Name of Operator  
**UNION PACIFIC RESOURCES COMPANY**

3. Address of Operator  
**P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007**

4. Location of Well (Report location clearly and in accordance with any State requirements)  
At Surface    **707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E., SLBM**  
  
At Proposed Producing Zone    **(NE/4SE/4) 2400' FSL, 900' FEL Sec. 25, T. 5 N., R. 7 E., SLBM**

CONFIDENTIAL

12. County or Parish  
**Summit**

13. State  
**Utah**

15. Distance from proposed location to nearest property or lease line, Ft.    **707'**  
(Also to nearest drilling line, if any)

16. No. of acres in lease    **640**

17. No. of acres assigned to this well    **640**

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

19. Proposed Depth    **12,543' MD**

20. Rotary or cable tools  
**Rotary**

21. Elevations (Show whether DP, RT., GR., etc.)  
**6662' MSL (GR); 6682' MSL (KB)**

22. Approx. date work will start  
**Upon Approval**

23. **PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
26"	20"	106.5	1438'	NA
17-1/2"	13-3/8"	68	K-55 3376'	NA
17-1/2"	13-3/8"	72	L-80 4766'	NA
17-1/2"	13-3/8"	88.2	L-80 5750'	NA
12-1/4"	9-5/8"	40, 43.5, 47	SS-95 7300'	NA
8-1/2"	7-5/8"	39	L-80 3492'	NA
8-1/2"	7"	32	L-80 3492'-12538'	NA
	4-1/2" Liner	11.6	L-80 12543'	Will not be cemented

Union Pacific Resources Company (UPRC) proposes to re-enter the existing wellbore of the above referenced well, mill a window in the 7" CSG and drill, test and complete a horizontal lateral in the Phosphoria Formation. Anticipated bottom-hole location for the Phosphoria lateral is 2400' FSL, 900' FEL Sec. 25, T. 5 N., R. 7 E. Please refer to the accompanying Drilling Procedure for details. Operations with regard to drilling and operating of this well will be conducted under State-wide Bond No. 2447222

Please consider all submittals pertaining to this well as "COMPANY CONFIDENTIAL".  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942.  
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. I hereby certify that this report is true and complete to the best of my knowledge

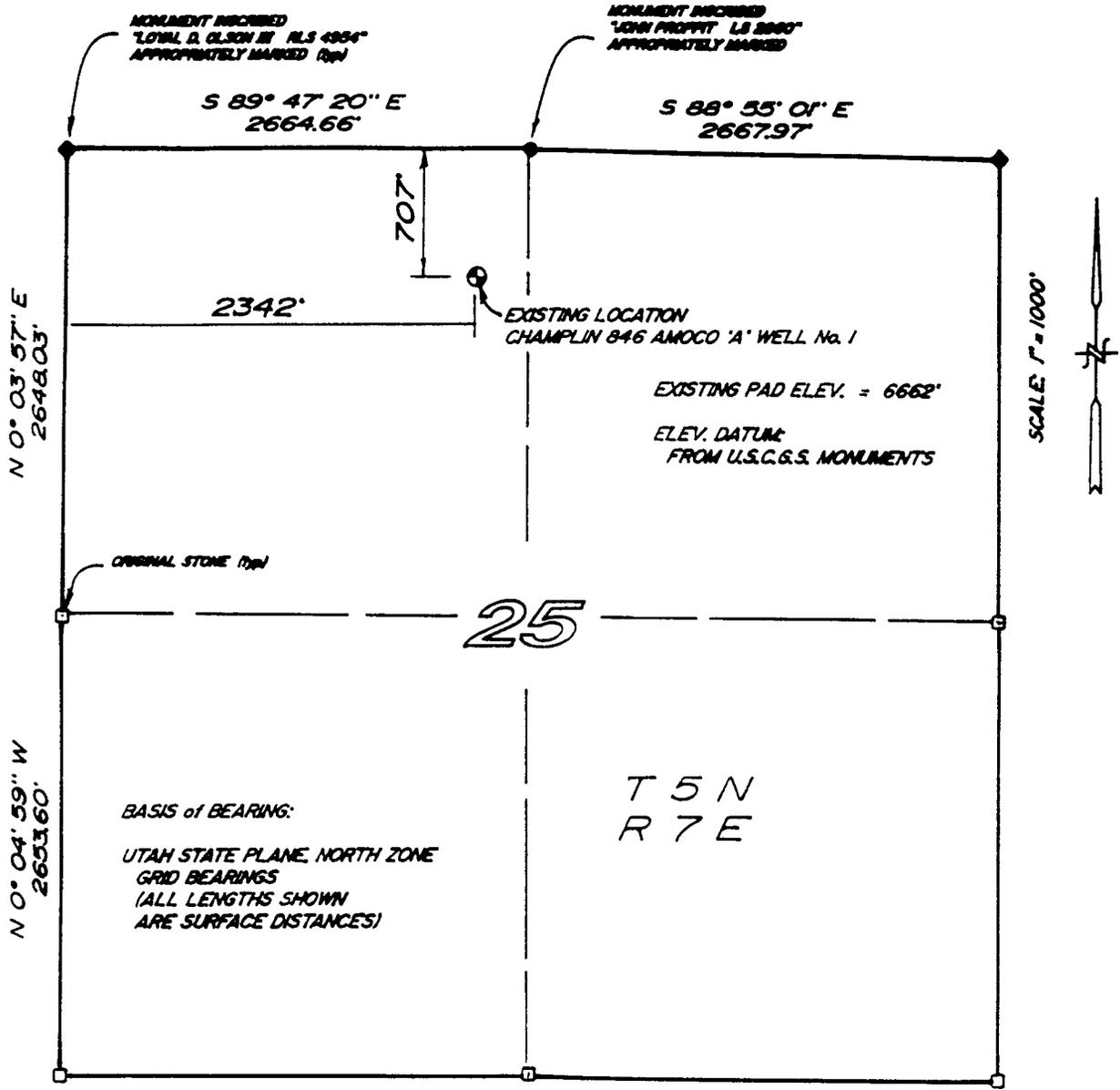
Signed: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 12-24-96

API No. 43-043-30100

Approved by: *J.P. Matthews* Title: Reservoir Engineer Date: 1/6/97

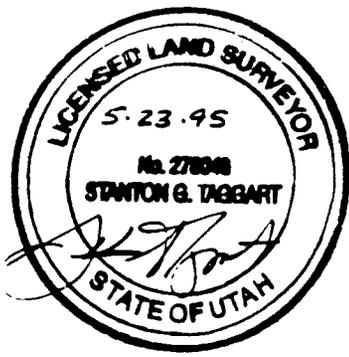
Conditions of approval, if any:  
(3/89)

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



# LOCATION MAP

SURVEYED UNDER MY DIRECTION  
MAY 22, 1995.



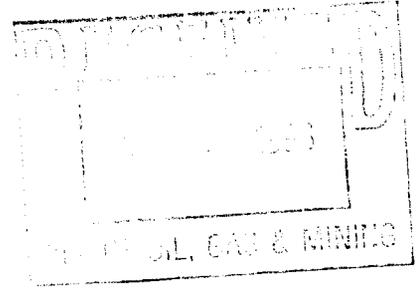
**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602  
DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13



December 24, 1996

Division of Oil Gas and Mining  
Utah Department of Natural Resources  
1594 West North Temple - Suite 1210  
P. O. Box 14581  
Salt Lake City, Utah 84114-5801



ATTN: Mr. Frank Matthews

**RE: Application For Permit To Drill (APD)  
UPRC CCD 846A 1R-H  
Section 25, T. 5 N., R. 7 E.,  
Summit County, Utah**

Dear Mr. Matthews:

Enclosed please find one original and one copy of the APD, with attachments, for a re-entry of the above referenced well located in Summit County, Utah. Union Pacific Resources Company proposes to re-enter the existing well bore and drill, test and complete a horizontal lateral in the Phosphoria Formation. Anticipated bottom-hole formation for the well is 2,400' FSL, 900' FEL of Section 25, T. 5 N., R. 7 E., Summit County, Utah

Please call me at (817) 877-7952, FAX (817) 877-7942, if you have any questions or need additional information.

Yours truly,

UNION PACIFIC RESOURCES COMPANY

A handwritten signature in cursive script, appearing to read 'W. F. Brazelton'.

W. F. Brazelton  
Senior Regulatory Analyst



# Union Pacific Resources

A Subsidiary of Union Pacific Corporation

## INTER-OFFICE CORRESPONDENCE

TO: OVERTHRUST DRILLING FOREMEN

OFFICE:

FROM: W. E. Charles

DATE: 10-14-96

SUBJECT: DRILLING PROCEDURE:

WELL: CAVE CREEK 846 A-1R H  
COUNTY: Summit County, Utah  
AFE:  
GWC:  
API NO: 43-043-30100

PROPOSED MD @ TD:  
PROPOSED TVD @ TD:  
GROUND ELEVATION: 6662'  
KB ELEVATION: 6682'

LOCATION: SUBJECT WELL WILL BE REDRILLED WITH A HORIZONTAL LATERAL IN THE PHOSPHORIA FORMATION AT 11700' TVD.

SURFACE LOCATION: 707' FNL & 2343' FWL OF SECTION 25-T5N-R7W  
BOTTOMHOLE LOCATION: 2400' FSL & 900' FEL OF SECTION 25-T5N-R7W

### PROPOSED DIRECTIONAL PROGRAM

It is UPRG's intent to reenter the subject well and, after first plugging back, redrill the well with a horizontal lateral in the Phosphoria formation.

Operations will include the following:

1. Secure the well and bleed off all pressure vessels. Load the tubing with water. Via slickline, retrieve the tubing plug currently set in the "X" nipple at 12354' (nipple is located in tailpipe below the lower production packer). Set a tubing plug in the seating nipple at 11655' (nipple is located in the tailpipe below the upper production packer). Nipple up and test BOP's. Move in and rig up SST Rig #56. Rig up H2S safety equipment.
2. Pull and lay down 2-7/8" 7.7# L-80 tubing. Run in with 3-1/2" X-95 workstring and mill/recover the Baker F-1 packer at 11601'. Run in hole with retainer and pipe; set cement retainer at 12330' (5' above lower production packer at 12335'). Establish injection rate and pump 400 sx cement below retainer. Squeeze perfs at 12465'-12535'. Do not overdisplace the retainer.
3. Trip for a bit and scraper. Run in hole and establish PBT. Pull out of hole. Run in hole with second retainer and set at 11600'. Establish injection rate and pump 400 sx cement below retainer. Squeeze perfs at 11860'-12315'. Do not overdisplace the retainer. Test the casing and plug to 1500 psi. Pull out of hole.
4. Run in with bit and scraper; establish PBT. Pull out of hole. Rig up Schlumberger and run a correlation GR-collar log. Wireline set a Baker Model DW-1 whipstock packer at 11350' in the 7" 32# L-80 casing. Avoid casing couplings. Run in hole with gyro and determine

orientation of packer lug. Adjust orienting keyslot on whip so that when latched the face direction will be to the hole's highside. Run in hole with whip, latch assembly, and starting mill.

5. Latch whip to packer and test with 10000 lb overpull. Continue overpull to shear starting mill. Mill starting lug. Trip for window mill. Mill/polish window. **THE METAL MUNCHER MILLS ARE CAPABLE OF MILLING MORE METAL THAN MANY CIRCULATING SYSTEMS ARE ABLE TO CIRCULATE OUT. PUMP FREQUENT HI VIS PILLS! USE DITCH MAGNETS.**
6. Run in hole with Anadrill directional motor and MWD tool. Casing exit will be KOP. Build angle to 90° at 14°/100' to intercept Phosphoria target at 11700' TVD. Hole direction will be 166°.
7. Drill horizontal hole to aforementioned BHL. Severe to total lost circulation is likely. Do not attempt to cure hole. If returns are obtained, route fluid through Norward separation unit whereby gas is vented through a scrubber.
8. No logs at TD are planned Run a 4-1/2" pre-perfed 11.6# L-80 liner in hole with 75' overlap up in the 7" casing. Pull out of hole; lay down drillpipe. Production tubing and downhole tools will be run with the drilling rig. Land tubing, nipple down BOP's, land tree.
9. Open well and reestablish production.

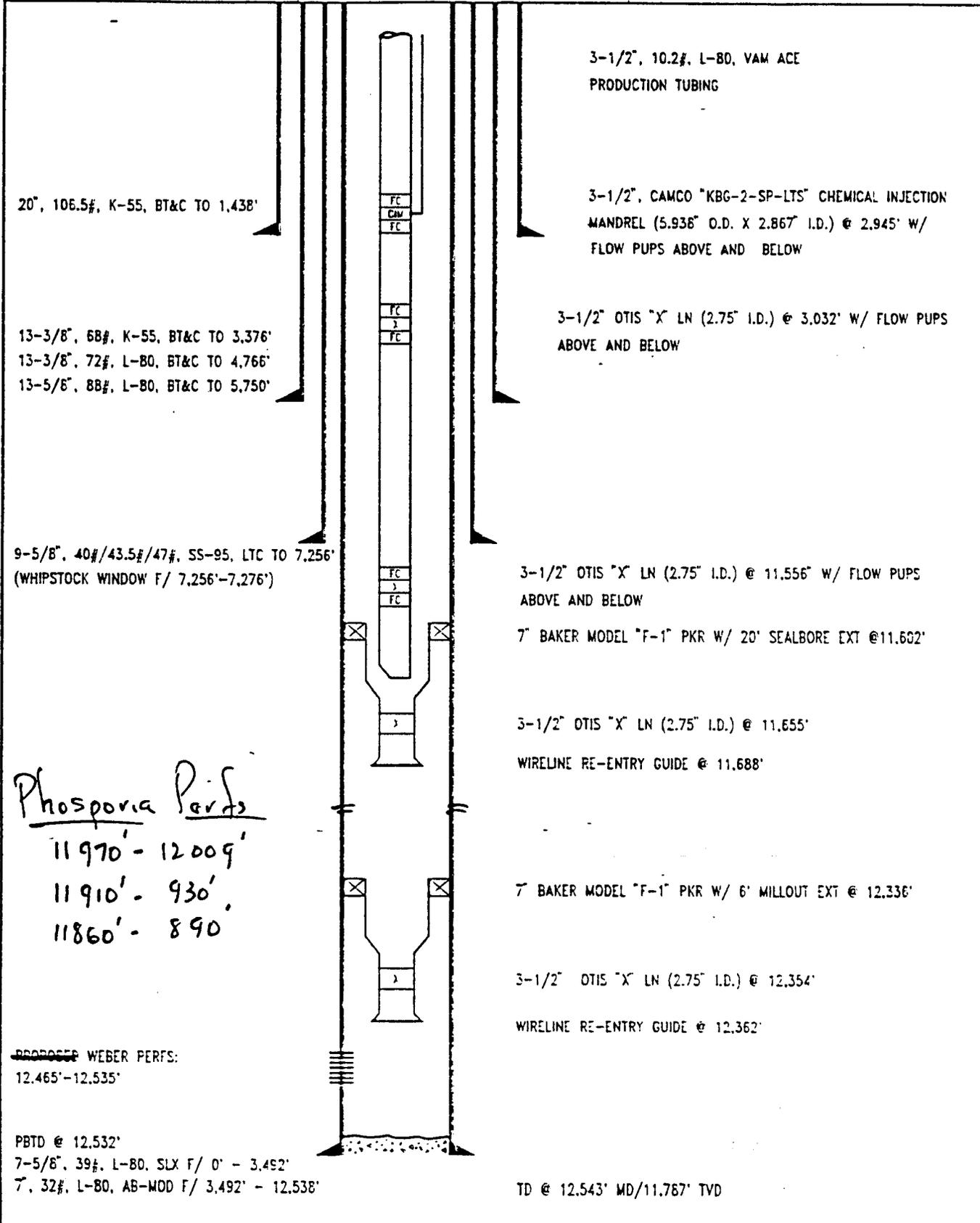
SIDETRACK POINT (MD).....	11350 '
BUILD RATE .....	14°/100 '
TOTAL VERTICAL SECTION .....	2238 '
TERMINAL HOLE ANGLE .....	90 °
HOLE DIRECTION .....	166.1 °

# UNION PACIFIC RESOURCES COMPANY FINAL WELLBORE COMPLETION SCHEMATIC

SL: 707' FNL & 2,343' FWL  
SEC: 25, T5N, R7E  
BHL: 2,018' FNL & 493' FEL  
SEC: 25, T5N, R7E

CCD 846 "A" #1R  
CAVE CREEK FIELD

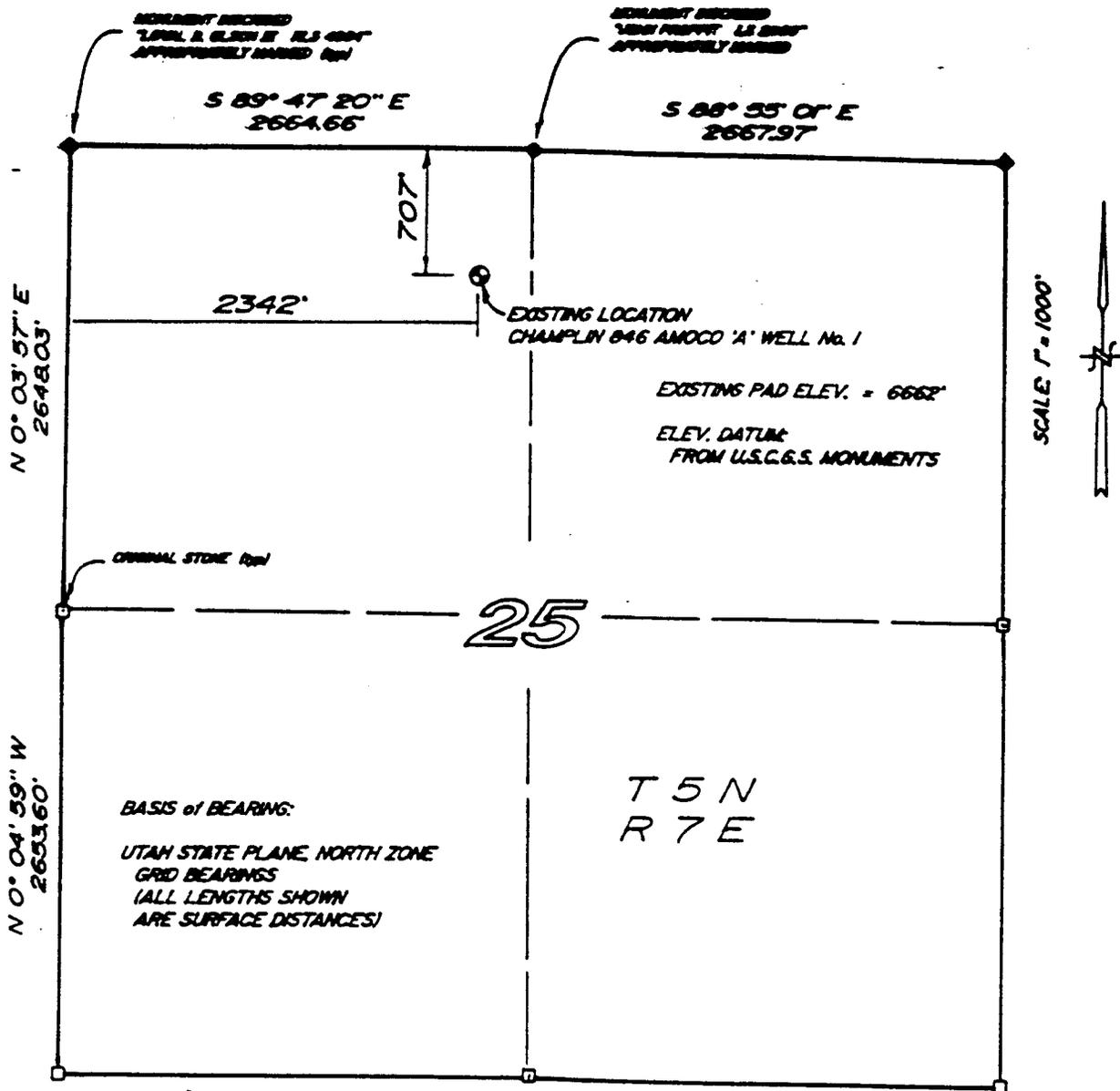
SUMMIT COUNTY, UTAH  
GROUND ELEVATION: 6,662'



UNION PACIFIC RESOURCE CO  
CAVE CREEK DEEP 846A-1R

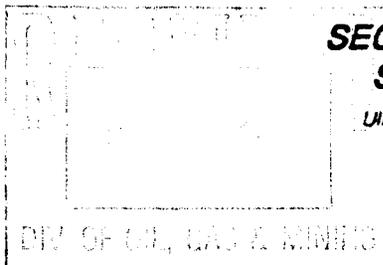
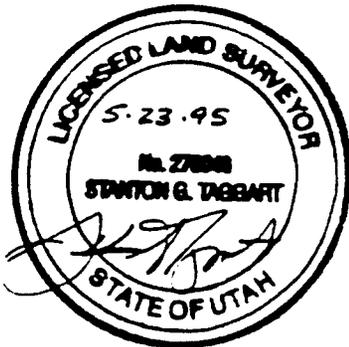
34	1-JT 3-1/2" VAM ACE TUBING	DEPTH= 23.23
33	22' FT. SPACE OUT SUBS O.D. 3.950 I.D. 2.922 LENGTH 22.96'	DEPTH= 55.35
32	3/8" OD CONTROL LINE I.D. .065 316 S.S. LENGTH 2944.93'	
31	89 JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 2856.68"	DEPTH= 78.31
30	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 2934.99
29	3-1/2" CAMCO CHEMICAL INJECTION MANDREL O.D. 5.938 I.D. 2.867 LENGTH 5.70'	DEPTH= 2944.93
28	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 2950.63
27	2 JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 61.19'	DEPTH= 2960.57
26	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 3021.76
25	OTIS "X-LINE" "R" NIPPLE O.D. 3.815 I.D. 2.750 LENGTH 1.18'	DEPTH= 3031.70
24	FLOW COUPLING O.D. 3.995 I.D. 2.750 LENGTH 9.93'	DEPTH= 3032.88
23	JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 8503.27'	DEPTH= 3042.82
22	FLOW COUPLING O.D. 3.94 I.D. 2.750 LENGTH 9.23'	DEPTH= 11546.09
21	OTIS "X-LINE" NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.18'	DEPTH= 11555.97
20	FLOW COUPLING O.D. 4.000 I.D. 2.750 LENGTH 9.92'	DEPTH= 11557.15
19	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.10'	DEPTH= 11567.07
18	BAKER "L-22 LTSA W/ 3 K-RYTE & 3- DEBRIES BARRIER W/ 13' 1-10" SPACER TUBES W/ 1/2 M.S. O.D. 3.920 I.D. 2.922 LENGTH 21.36' LOC. = .83'	DEPTH= 11599.17
17	BAKER MODEL "F-1" RPP W/ 70 HD PE SIZE 83-40 O.D. 5.687 I.D. 4.000 LENGTH 1.61'	DEPTH= 11601.61
16	PACKER SET AT 11,600.00 BY O.W.P. W/L CO. X-OVER FM/83-40 TO SBE O.D. 5.685 I.D. 4.000 LENGTH .55'	DEPTH= 11602.16
15	BAKER SBE 80-40 F/ 83-40 RPP O.D. 5.000 I.D. 4.000 LENGTH 9.43'	DEPTH= 11611.59
14	BAKER CONCENTRIC COUPLING O.D. 5.685 I.D. 4.000 LENGTH .55'	DEPTH= 11612.14
13	BAKER SBE 80-40 F/ 83-40 RPP O.D. 5.000 I.D. 4.000 LENGTH 9.35'	DEPTH= 11621.49
12	X-OVER FM/ SBE TO 3-1/2" VAM ACE O.D. 5.685 I.D. 2.94 LENGTH .68'	DEPTH= 11622.17
11	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.10'	DEPTH= 11654.27
10	OTIS "X" LINE NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.19'	DEPTH= 11655.46
9	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.14'	DEPTH= 11687.60
8	BAKER 3-1/2" VAM ACE WLEG O.D. 3.815 I.D. 2.922 LENGTH .75'	DEPTH= 11688.35
7	BAKER MODEL "F-1" RPP W/ 70 HD PE SIZE 83-40 O.D. 5.687 I.D. 4.000 LENGTH 2.33'	DEPTH= 12,335.00
	PACKER SET AT 12,335.00' BY O.W.P. W/L CO.	
6	BAKER MOE F/ 83-40 F-1 RPP O.D. 5.570 I.D. 4.535 LENGTH 5.47'	DEPTH= 12,337.33
5	X-OVER F/ MOE TO 3-1/2" VAM ACE PIN O.D. 5.575 I.D. 2.820 LENGTH .75'	DEPTH= 12,342.80
4	3-1/2" VAM ACE 10.2# L-80 TBG SUB 10' O.D. 3.950 I.D. 2.922 LENGTH 10.43'	DEPTH= 12,343.55
3	OTIS "X" LINE NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.19'	DEPTH= 12,353.98
2	3-1/2" VAM ACE 10.2# L-80 TBG SUB 6' O.D. 3.950 I.D. 2.922 LENGTH 6.31'	DEPTH= 12,355.17
1	BAKER WLEG F/ 3-1/2" VAM ACE O.D. 3.815 I.D. 2.922 LENGTH .75'	DEPTH= 12,361.48
		DEPTH= 12,362.23

PREPARED BY BURL CLARK FOR MR. STEVE MACINTOSH



## LOCATION MAP

SURVEYED UNDER MY DIRECTION  
MAY 22, 1995.



**MAP to ACCOMPANY**  
**APPLICATION for PERMIT to DRILL**  
**CHAMPLIN 846 AMOCO 'A'**  
**WELL No. 1**  
**707 FNL 2342 FWL**  
**SECTION 25, T5N, R7E, SLBM**  
**SUMMIT COUNTY, UTAH**

UNTA ENGINEERING & SURVEYING, INC.  
 808 MAIN STREET  
 EVANSTON, WYOMING 82930  
 (307) 789-3602

DATE: 04/20/95 JOB #: 85-28-13  
 DISK #: 116-A FILE: 85-28-13

# SURVEYS of Existing Hole

Today's Date: 11/21/96

## PERC DIRECTIONAL REPORT

WELLNAME: UPRC CCD 846 A #1R	WELL ID NO.: 01109
FIELD: CAVE CREEK	API NO.: 43-043-30100
AFE NO.: 021242	

SURVEY TYPE: <u>MWD-1</u>	MD: <u>7.200</u>	ANGLE: <u>5.30</u>	AZIMUTH: <u>136.35</u>	TVD: <u>7.193.00</u>
	N/S: <u>-156.11</u>	E/W: <u>155.38</u>	VS: <u>209.44</u>	TARGET: <u>115.00</u>

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
7,200	5.30	136.35	7,193	-156.11	155.38	209.44	
7,432	10.60	137.90	7,423	-179.71	177.10	236.45	2.29
7,463	10.90	125.40	7,453	-183.53	181.40	241.96	7.57
7,495	11.50	121.50	7,485	-186.95	186.58	248.11	3.02
7,526	11.90	123.20	7,515	-190.31	191.89	254.34	1.70
7,556	12.40	122.50	7,544	-193.73	197.20	260.60	1.74
7,587	13.10	120.40	7,574	-197.30	203.04	267.40	2.71
7,618	13.50	117.50	7,605	-200.75	209.28	274.51	2.51
7,649	14.00	118.10	7,635	-204.19	215.79	281.87	1.68
7,670	14.20	114.70	7,655	-206.46	220.37	286.98	4.06
7,712	14.50	113.30	7,696	-210.89	229.88	297.39	1.09
7,776	15.40	112.60	7,758	-217.13	245.09	313.89	1.43
7,807	16.20	111.60	7,787	-220.30	252.91	322.32	2.73
7,869	16.60	109.80	7,847	-226.48	269.28	339.77	1.04
7,899	17.10	110.70	7,876	-229.50	277.44	348.44	1.88
7,929	17.70	108.70	7,904	-232.52	285.89	357.37	2.82
7,959	17.80	110.20	7,933	-235.56	294.51	366.47	1.56
7,990	17.90	109.30	7,962	-238.77	303.45	375.93	0.95
8,022	18.50	109.30	7,993	-242.08	312.89	385.88	1.87
8,054	19.00	112.60	8,023	-245.76	322.49	396.13	3.66
8,085	19.50	113.70	8,052	-249.77	331.88	406.35	1.99
8,117	20.20	119.00	8,082	-254.60	341.61	417.20	6.03
8,145	19.70	123.60	8,109	-259.56	349.77	426.69	5.88
8,177	20.00	124.20	8,139	-265.62	358.79	437.42	1.13
8,209	20.50	124.60	8,169	-271.87	367.92	448.35	1.62
8,242	21.70	123.20	8,200	-278.50	377.79	460.09	3.94
8,272	22.40	121.60	8,227	-284.53	387.29	471.26	3.07
8,303	23.00	119.80	8,256	-290.63	397.58	483.16	2.96
8,335	24.40	120.40	8,285	-297.09	408.71	495.97	4.44
8,370	24.20	119.30	8,317	-304.25	421.20	510.32	1.41
8,402	25.60	117.20	8,346	-310.63	433.07	523.77	5.17
8,429	26.20	119.20	8,371	-316.20	443.46	535.54	3.92
8,585	29.30	119.70	8,509	-351.92	506.69	607.95	1.99
8,617	30.70	117.90	8,536	-359.62	520.72	623.91	5.20
8,648	31.80	118.00	8,563	-367.16	534.92	639.97	3.55
8,712	32.20	118.40	8,617	-383.19	564.81	673.83	0.71
8,743	32.60	116.80	8,643	-390.88	579.53	690.43	3.05
8,775	32.80	117.80	8,670	-398.81	594.89	707.70	1.80
8,806	33.10	117.40	8,696	-406.62	609.83	724.54	1.20
8,838	33.20	117.90	8,723	-414.74	625.33	742.02	0.91
8,869	33.20	118.60	8,749	-422.78	640.29	758.97	1.24
8,901	33.10	118.60	8,776	-431.15	655.65	776.43	0.31
8,932	32.70	118.10	8,802	-439.15	670.47	793.24	1.56
8,964	33.10	118.80	8,829	-447.43	685.75	810.59	1.72
8,996	34.00	118.60	8,855	-455.92	701.26	828.24	2.83
9,027	34.10	117.90	8,881	-464.14	716.55	845.57	1.30
9,058	34.10	117.90	8,907	-472.27	731.91	862.93	0.00
9,089	34.40	117.40	8,932	-480.37	747.37	880.36	1.33
9,122	34.70	116.50	8,959	-488.85	764.05	899.06	1.79
9,153	35.50	114.20	8,985	-496.48	780.16	916.88	4.99
9,185	35.90	112.50	9,011	-503.88	797.30	935.55	3.34
9,216	35.90	112.90	9,036	-510.89	814.07	953.71	0.76
9,248	35.80	114.20	9,062	-518.38	831.25	972.44	2.40
9,279	35.30	113.90	9,087	-525.72	847.71	990.46	1.71
9,310	35.20	114.10	9,112	-533.00	864.05	1,008.35	0.49

**PERC DIRECTIONAL REPORT**

WELLNAME: UPRC CCD 846 A #1R  
 FIELD: CAVE CREEK  
 AFE NO.: 021242  
 WELL ID NO.: 01109  
 API NO.: 43-043-30100

SURVEY TYPE : MWD-1 MD : 7.200 ANGLE : 5.30 AZIMUTH : 136.35 TVD : 7.193.00  
 N/S : -156.11 E/W : 155.38 Vs : 209.44 TARGET : 115.00

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
9,371	34.40	112.00	9,162	-546.63	896.08	1,043.14	2.36
9,466	34.60	110.80	9,241	-566.27	946.18	1,096.84	0.75
9,559	34.50	112.30	9,317	-585.64	995.23	1,149.49	0.92
9,622	33.30	111.70	9,370	-598.80	1,027.81	1,184.57	1.98
9,654	33.60	111.80	9,396	-605.34	1,044.19	1,202.18	0.95
9,685	33.40	111.20	9,422	-611.61	1,060.11	1,219.26	1.25
9,714	33.30	111.90	9,446	-617.47	1,074.94	1,235.18	1.37
9,746	33.10	111.90	9,473	-624.00	1,091.20	1,252.67	0.63
9,777	32.80	111.70	9,499	-630.26	1,106.85	1,269.51	1.03
9,807	32.20	112.30	9,525	-636.30	1,121.80	1,285.60	2.27
9,838	31.90	112.70	9,551	-642.60	1,136.99	1,302.04	1.19
9,868	32.10	113.50	9,576	-648.83	1,151.62	1,317.93	1.56
9,899	32.40	113.90	9,602	-655.48	1,166.76	1,334.47	1.19
9,929	32.60	113.70	9,628	-661.99	1,181.51	1,350.58	0.76
9,960	32.80	114.30	9,654	-668.80	1,196.81	1,367.33	1.23
9,991	32.80	114.40	9,680	-675.72	1,212.11	1,384.12	0.17
10,058	32.20	115.40	9,736	-690.88	1,244.76	1,420.11	1.20
10,089	32.60	115.30	9,763	-697.99	1,259.77	1,436.73	1.30
10,120	35.40	113.20	9,788	-705.10	1,275.58	1,454.05	9.79
10,151	38.50	112.00	9,813	-712.25	1,292.78	1,472.67	10.27
10,182	41.00	111.40	9,837	-719.58	1,311.20	1,492.46	8.16
10,212	40.30	111.70	9,860	-726.75	1,329.38	1,511.96	2.42
10,240	40.60	109.30	9,881	-733.11	1,346.39	1,530.07	5.66
10,272	40.40	109.50	9,905	-740.02	1,365.99	1,550.75	0.75
10,303	40.00	109.70	9,929	-746.73	1,384.84	1,570.68	1.36
10,334	39.10	110.50	9,953	-753.51	1,403.38	1,590.34	3.34
10,366	38.30	109.70	9,978	-760.39	1,422.17	1,610.28	2.95
10,396	37.30	110.70	10,002	-766.73	1,439.42	1,628.60	3.91
10,427	36.70	110.90	10,026	-773.36	1,456.86	1,647.20	1.97
10,458	36.10	111.20	10,051	-779.97	1,474.03	1,665.56	2.02
10,489	35.50	113.10	10,076	-786.80	1,490.83	1,683.66	4.07
10,520	35.10	113.90	10,102	-793.94	1,507.26	1,701.57	1.97
10,551	34.20	114.40	10,127	-801.15	1,523.34	1,719.20	3.04
10,583	33.40	114.40	10,154	-808.51	1,539.55	1,737.00	2.50
10,614	32.90	114.00	10,180	-815.46	1,555.01	1,753.95	1.76
10,769	32.80	117.40	10,310	-851.90	1,630.75	1,837.99	1.19
10,799	33.30	116.90	10,335	-859.37	1,645.31	1,854.34	1.90
10,830	33.40	117.40	10,361	-867.14	1,660.47	1,871.37	0.94
10,861	32.90	117.60	10,387	-874.97	1,675.51	1,888.30	1.65
10,892	32.20	117.70	10,413	-882.71	1,690.28	1,904.96	2.26
10,924	31.90	117.40	10,440	-890.57	1,705.34	1,921.93	1.06
10,955	31.80	118.30	10,467	-898.21	1,719.80	1,938.27	1.57
10,986	31.60	119.00	10,493	-906.02	1,734.09	1,954.52	1.35
11,017	31.40	119.00	10,519	-913.87	1,748.26	1,970.68	0.65
11,048	31.40	119.30	10,546	-921.74	1,762.37	1,986.79	0.50
11,079	31.30	119.00	10,572	-929.59	1,776.45	2,002.88	0.60
11,110	31.20	120.00	10,599	-937.51	1,790.45	2,018.91	1.70
11,144	30.90	120.70	10,628	-946.37	1,805.58	2,036.37	1.38
11,175	31.20	122.50	10,655	-954.75	1,819.20	2,052.25	3.15
11,207	32.90	122.10	10,682	-963.82	1,833.55	2,069.09	5.35
11,238	34.50	120.40	10,707	-972.74	1,848.26	2,086.19	5.99
11,270	34.70	120.50	10,734	-981.95	1,863.92	2,104.28	0.65
11,301	34.30	120.20	10,759	-990.82	1,879.08	2,121.76	1.40
11,322	34.00	119.70	10,777	-996.71	1,889.29	2,133.50	1.96
11,362	33.90	119.30	10,810	-1,007.71	1,908.73	2,155.77	0.61

**PERC**

**DIRECTIONAL REPORT**

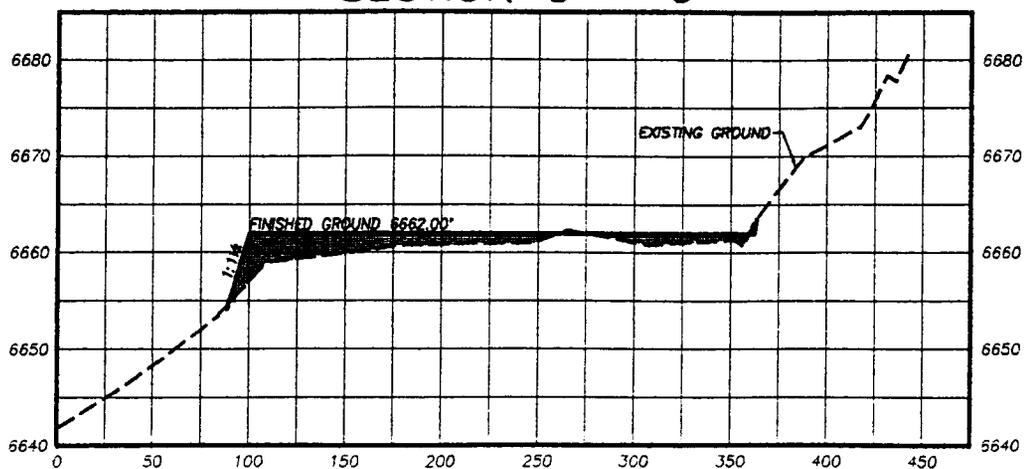
WELLNAME: UPRC CCD 846 A #1R  
 FIELD: CAVE CREEK  
 AFE NO.: 021242

WELL ID NO.: 01109  
 API NO.: 43-043-30100

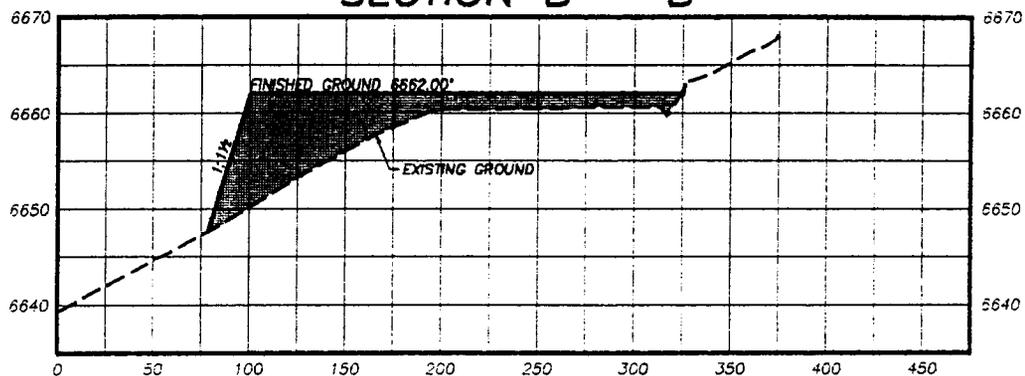
SURVEY TYPE : MWD-1 MD : 7.200 ANGLE : 5.30 AZIMUTH : 136.35 TVD : 7.193.00  
 N/S : -156.11 E/W : 155.38 V/S : 209.44 TARGET : 115.00

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
11,425	34.20	120.20	10,862	-1,025.21	1,939.36	2,190.93	0.93
11,455	34.20	120.50	10,887	-1,033.73	1,953.91	2,207.72	0.56
11,487	33.90	121.30	10,913	-1,042.93	1,969.28	2,225.54	1.68
11,519	34.00	120.90	10,940	-1,052.16	1,984.58	2,243.31	0.76
11,549	34.30	119.50	10,965	-1,060.63	1,999.14	2,260.08	2.80
11,582	34.60	117.40	10,992	-1,069.52	2,015.55	2,278.71	3.71
11,613	34.80	116.70	11,017	-1,077.55	2,031.27	2,296.35	1.44
11,644	34.60	116.30	11,043	-1,085.42	2,047.06	2,313.99	0.98
11,674	34.80	116.50	11,068	-1,093.02	2,062.36	2,331.06	0.77
11,706	35.40	116.50	11,094	-1,101.23	2,078.83	2,349.45	1.88
11,736	35.30	115.80	11,118	-1,108.88	2,094.41	2,366.81	1.39
11,767	35.50	116.30	11,144	-1,116.76	2,110.54	2,384.76	1.14
11,799	35.40	116.90	11,170	-1,125.07	2,127.13	2,403.31	1.13
11,830	35.60	116.50	11,195	-1,133.16	2,143.22	2,421.31	0.99
11,862	36.00	117.40	11,221	-1,141.65	2,159.90	2,440.02	2.07
11,893	36.10	116.70	11,246	-1,149.94	2,176.15	2,458.25	1.37
11,925	36.00	116.20	11,272	-1,158.33	2,193.01	2,477.07	0.97
11,957	35.70	115.80	11,298	-1,166.55	2,209.85	2,495.81	1.19
11,988	35.40	116.30	11,323	-1,174.46	2,226.05	2,513.83	1.35
12,019	35.50	115.60	11,348	-1,182.33	2,242.21	2,531.81	1.35
12,048	35.70	114.90	11,372	-1,189.53	2,257.48	2,548.69	1.57
12,080	35.80	115.10	11,398	-1,197.43	2,274.43	2,567.39	0.48
12,111	35.30	114.70	11,423	-1,205.02	2,290.77	2,585.41	1.78
12,140	34.30	115.50	11,447	-1,212.04	2,305.76	2,601.96	3.79
12,174	33.80	115.30	11,475	-1,220.20	2,322.96	2,621.00	1.51
12,205	33.60	116.20	11,501	-1,227.68	2,338.45	2,638.19	1.74
12,237	33.30	115.80	11,527	-1,235.41	2,354.30	2,655.83	1.16
12,268	33.00	116.30	11,553	-1,242.85	2,369.53	2,672.78	1.31
12,300	32.80	116.60	11,580	-1,250.59	2,385.10	2,690.15	0.81
12,331	32.60	115.10	11,606	-1,257.90	2,400.17	2,706.90	2.69
12,361	32.10	116.70	11,632	-1,264.91	2,414.61	2,722.95	3.30
12,498	31.00	120.00	11,748	-1,298.91	2,477.69	2,794.49	1.49
12,543	30.68	121.67	11,787	-1,310.73	2,497.49	2,817.43	2.03

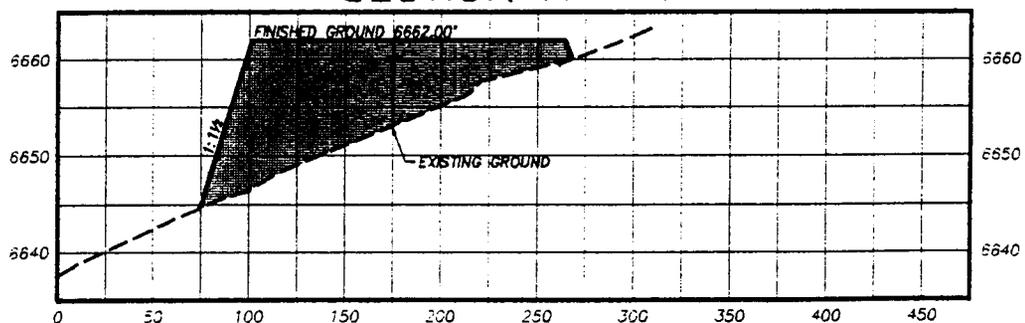
### SECTION C - C



### SECTION B - B



### SECTION A - A



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 08/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN BY: Brent Sanders

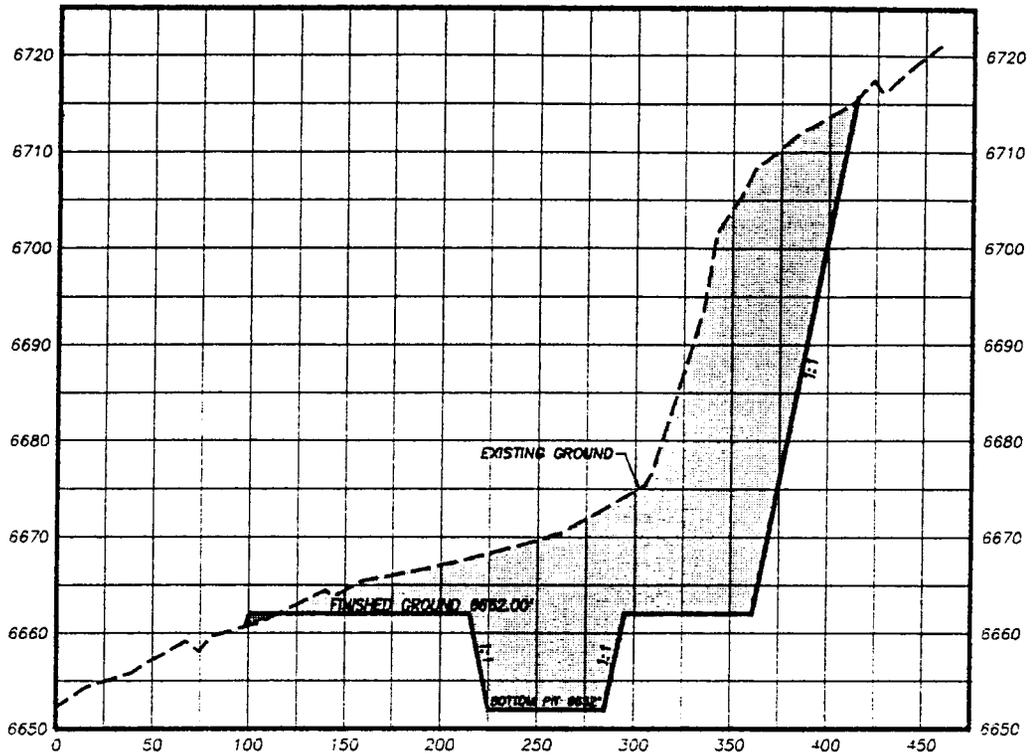
SHEET 3 OF 5

**SCALE:**

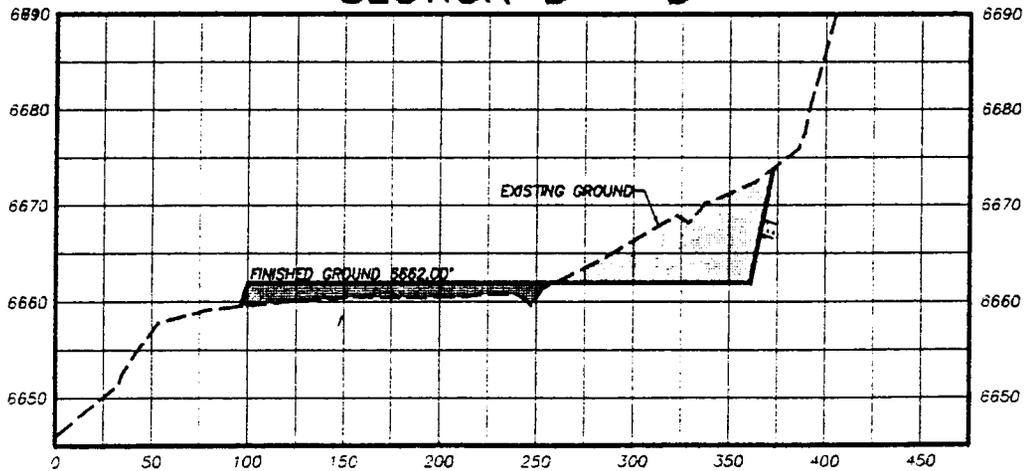
HORIZ: 1" = 100'  
VERT: 1" = 20'

ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

SECTION E - E



SECTION D - D



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

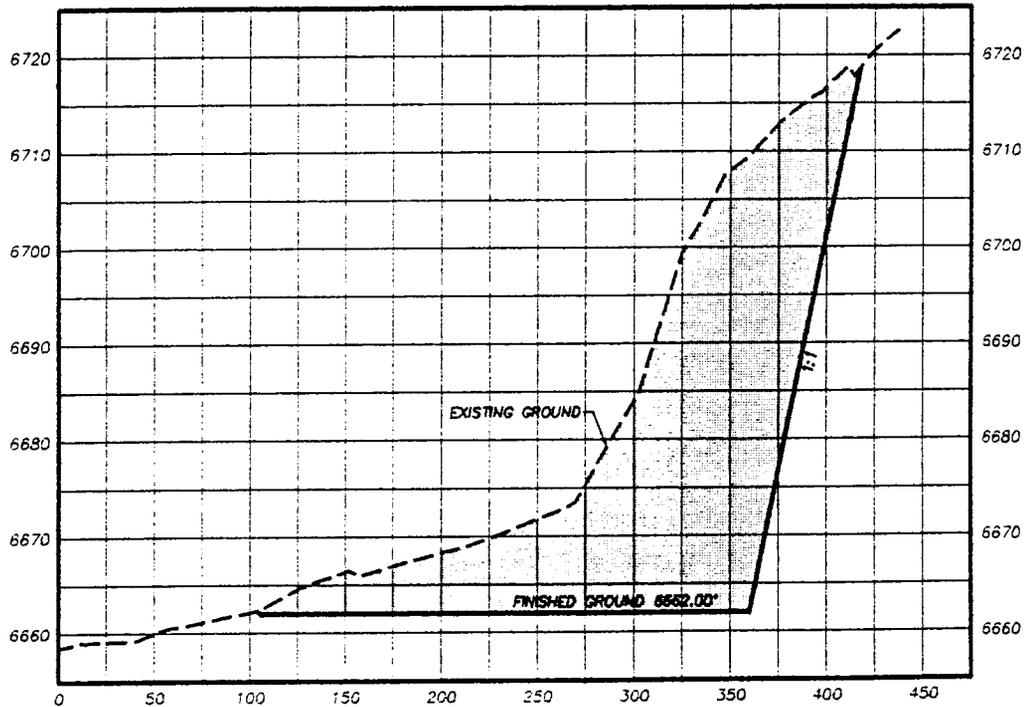
SCALE:  
HORIZ: 1" = 100'  
VERT: 1" = 20'

ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1

DRAWN BY: Brent Sanders

SHEET 4 OF 5

SECTION F - F



**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 06/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

SCALE:  
HORIZ: 1" = 100'  
VERT: 1" = 20'  
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1.5 : 1



INTER-OFFICE CORRESPONDENCE

TO: OVERTHRUST DRILLING FOREMEN

OFFICE:

FROM: W. E. Charles

DATE: 10-14-96

SUBJECT: DRILLING PROCEDURE:

WELL: CAVE CREEK 846 A-1R H  
COUNTY: Summit County, Utah  
AFE:  
CWC:  
API NO: 43-043-30100

PROPOSED MD @ TD:  
PROPOSED TVD @ TD:  
GROUND ELEVATION: 6662'  
KB ELEVATION: 6682'

LOCATION: SUBJECT WELL WILL BE REDRILLED WITH A HORIZONTAL LATERAL IN THE PHOSPHORIA FORMATION AT 11700' TVD.

SURFACE LOCATION: 707' FNL & 2343' FWL OF SECTION 25-T5N-R7W  
BOTTOMHOLE LOCATION: 2400' FSL & 900' FEL OF SECTION 25-T5N-R7W

**PROPOSED DIRECTIONAL PROGRAM**

It is UPRG's intent to reenter the subject well and, after first plugging back, redrill the well with a horizontal lateral in the Phosphoria formation.

Operations will include the following:

1. Secure the well and bleed off all pressure vessels. Load the tubing with water. Via slickline, retrieve the tubing plug currently set in the "X" nipple at 12354' (nipple is located in tailpipe below the lower production packer). Set a tubing plug in the seating nipple at 11655' (nipple is located in the tailpipe below the upper production packer). Nipple up and test BOP's. Move in and rig up SST Rig #56. Rig up H2S safety equipment.
2. Pull and lay down 2-7/8" 7.7# L-80 tubing. Run in with 3-1/2" X-95 workstring and mill/recover the Baker F-1 packer at 11601'. Run in hole with retainer and pipe; set cement retainer at 12330' (5' above lower production packer at 12335'). Establish injection rate and pump 400 sx cement below retainer. Squeeze perfs at 12465'-12535'. Do not overdisplace the retainer.
3. Trip for a bit and scraper. Run in hole and establish PBSD. Pull out of hole. Run in hole with second retainer and set at 11600'. Establish injection rate and pump 400 sx cement below retainer. Squeeze perfs at 11860'-12315'. Do not overdisplace the retainer. Test the casing and plug to 1500 psi. Pull out of hole.
4. Run in with bit and scraper; establish PBSD. Pull out of hole. Rig up Schlumberger and run a correlation GR-collar log. Wireline set a Baker Model DW-1 whipstock packer at 11350' in the 7" 32# L-80 casing. Avoid casing couplings. Run in hole with gyro and determine

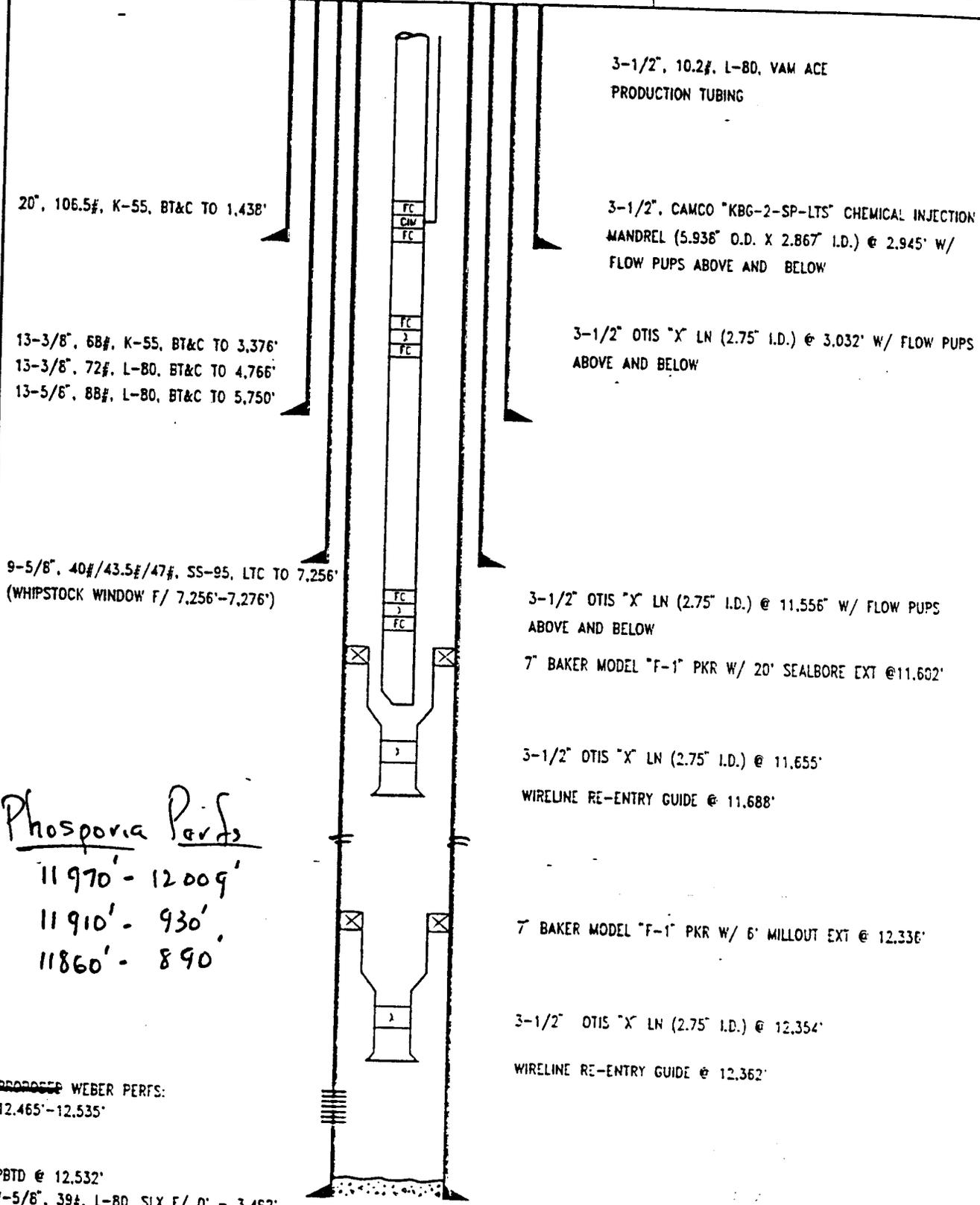
orientat of packer lug. Adjust orienti keyslot on whip so that when latched the face direction will be to the hole's highside. Run in hole with whip, latch assembly, and starting mill.

5. Latch whip to packer and test with 10000 lb overpull. Continue overpull to shear starting mill. Mill starting lug. Trip for window mill. Mill/polish window. **THE METAL MUNCHER MILLS ARE CAPABLE OF MILLING MORE METAL THAN MANY CIRCULATING SYSTEMS ARE ABLE TO CIRCULATE OUT. PUMP FREQUENT HI VIS PILLS! USE DITCH MAGNETS.**
6. Run in hole with Anadrill directional motor and MWD tool. Casing exit will be KOP. Build angle to 90° at 14°/100' to intercept Phosphoria target at 11700' TVD. Hole direction will be 166°.
7. Drill horizontal hole to aforementioned BHL. Severe to total lost circulation is likely. Do not attempt to cure hole. If returns are obtained, route fluid through Norward separation unit whereby gas is vented through a scrubber.
8. No logs at TD are planned Run a 4-1/2" pre-perfed 11.6# L-80 liner in hole with 75' overlap up in the 7" casing. Pull out of hole; lay down drillpipe. Production tubing and downhole tools will be run with the drilling rig. Land tubing, nipple down BOP's, land tree.
9. Open well and reestablish production.

SIDETRACK POINT (MD).....	11350 '
BUILD RATE .....	14°/100 '
TOTAL VERTICAL SECTION .....	2238 '
TERMINAL HOLE ANGLE .....	90 °
HOLE DIRECTION .....	166.1 °

# UNIC PACIFIC RESOURCES COMPANY FINAL WELLBORE COMPLETION SCHEMATIC

SL: 707' FNL & 2,343' FWL SEC: 25, T5N, R7E	CCD 846 "A" #1R	SUMMIT COUNTY, UTAH
BHL: 2,018' FNL & 493' FEL SEC: 25, T5N, R7E	CAVE CREEK FIELD	GROUND ELEVATION: 6,662'



20", 106.5#, K-55, BT&C TO 1,438'

13-3/8", 68#, K-55, BT&C TO 3,376'  
 13-3/8", 72#, L-80, BT&C TO 4,766'  
 13-5/8", 88#, L-80, BT&C TO 5,750'

9-5/8", 40#/43.5#/47#, SS-95, LTC TO 7,256'  
 (WHIPSTOCK WINDOW F/ 7,256'-7,276')

*Phosporia Perfs*

11970' - 12009'  
 11910' - 930'  
 11860' - 890'

~~PROPOSED~~ WEBER PERFS:  
 12,465' - 12,535'

PBTD @ 12,532'  
 7-5/8", 39#, L-80, SLX F/ O' - 3,492'  
 7", 32#, L-80, AB-MOD F/ 3,492' - 12,538'

3-1/2", 10.2#, L-80, VAM ACE  
 PRODUCTION TUBING

3-1/2", CAMCO "K86-2-SP-LTS" CHEMICAL INJECTION  
 MANDREL (5.938" O.D. X 2.867" I.D.) @ 2,945' W/  
 FLOW PUPS ABOVE AND BELOW

3-1/2" OTIS "X" LN (2.75" I.D.) @ 3,032' W/ FLOW PUPS  
 ABOVE AND BELOW

3-1/2" OTIS "X" LN (2.75" I.D.) @ 11,556' W/ FLOW PUPS  
 ABOVE AND BELOW

7" BAKER MODEL "F-1" PKR W/ 20' SEALBORE EXT @ 11,602'

3-1/2" OTIS "X" LN (2.75" I.D.) @ 11,655'

WIRELINE RE-ENTRY GUIDE @ 11,688'

7" BAKER MODEL "F-1" PKR W/ 6' MILLOUT EXT @ 12,336'

3-1/2" OTIS "X" LN (2.75" I.D.) @ 12,354'

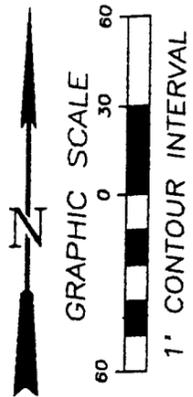
WIRELINE RE-ENTRY GUIDE @ 12,362'

TD @ 12,543' MD/11,767' TVD

**UNION PACIFIC SOURCE CO**  
CAVE CREEK DEEP 846A-1R

34	1-JT 3-1/2" VAM ACE TUBING	DEPTH= 23.23
33	22' FT. SPACE OUT SUBS O.D. 3.950 I.D. 2.922 LENGTH 22.96'	DEPTH= 55.35
32	3/8" OD CONTROL LINE I.D. .065 316 S.S. LENGTH 2944.93'	
31	89 JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 2856.68'	DEPTH= 78.31
30	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 2934.99
29	3-1/2" CAMCO CHEMICAL INJECTION MANDREL O.D. 5.938 I.D. 2.867 LENGTH 5.70'	DEPTH= 2944.93
28	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 2950.63
27	2 JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 61.19'	DEPTH= 2960.57
26	FLOW COUPLING O.D. 3.985 I.D. 2.750 LENGTH 9.94'	DEPTH= 3021.76
25	OTIS "X-LINE" "R" NIPPLE O.D. 3.815 I.D. 2.750 LENGTH 1.18'	DEPTH= 3031.70
24	FLOW COUPLING O.D. 3.995 I.D. 2.750 LENGTH 9.93'	DEPTH= 3032.88
23	JTS 3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 8503.27'	DEPTH= 3042.82
22	FLOW COUPLING O.D. 3.94 I.D. 2.750 LENGTH 9.23'	DEPTH= 11546.09
21	OTIS "X-LINE" NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.18'	DEPTH= 11555.97
20	FLOW COUPLING O.D. 4.000 I.D. 2.750 LENGTH 9.92'	DEPTH= 11557.15
19	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.10'	DEPTH= 11567.07
18	BAKER 'L-22 LTSA W/ 3 K-RYTE & 3- DEBRIES BARRIER W/ 13' 1-10" SPACER TUBES W/ 1/2 M.S. O.D. 3.920 I.D. 2.922 LENGTH 21.36 LOC. = .83'	DEPTH= 11599.17
17	BAKER MODEL "F-1" RPP W/ 70 HD PE SIZE 83-40 O.D. 5.687 I.D. 4.000 LENGTH 1.61' PACKER SET AT 11,600.00 BY O.W.P. W/L CO.	DEPTH= 11601.61
16	X-OVER FM/83-40 TO SBE O.D. 5.685 I.D. 4.000 LENGTH .55'	DEPTH= 11602.16
15	BAKER SBE 80-40 F/ 83-40 RPP O.D. 5.000 I.D. 4.000 LENGTH 9.43'	DEPTH= 11611.59
14	BAKER CONCENTRIC COUPLING O.D. 5.685 I.D. 4.000 LENGTH .55'	DEPTH= 11612.14
13	BAKER SBE 80-40 F/ 83-40 RPP O.D. 5.000 I.D. 4.000 LENGTH 9.35'	DEPTH= 11621.49
12	X-OVER FM/ SBE TO 3-1/2" VAM ACE O.D. 5.685 I.D. 2.94 LENGTH .68'	DEPTH= 11622.17
11	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.10'	DEPTH= 11654.27
10	OTIS "X" LINE NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.19'	DEPTH= 11655.46
9	3-1/2" VAM ACE 10.2# L-80 TUBING O.D. 3.950 I.D. 2.922 LENGTH 32.14'	DEPTH= 11687.60
8	BAKER 3-1/2" VAM ACE WLEG O.D. 3.815 I.D. 2.922 LENGTH .75'	DEPTH= 11688.35
7	BAKER MODEL "F-1" RPP W/70 HD PE SIZE 83-40 O.D. 5.687 I.D. 4.00 LENGTH 2.33' PACKER SET AT 12,335.00' BY O.W.P. W/L CO.	DEPTH= 12,335.00
6	BAKER MOE F/ 83-40 F-1 RPP O.D. 5.570 I.D. 4.535 LENGTH 5.47'	DEPTH= 12,337.33
5	X-OVER F/ MOE TO 3-1/2" VAM ACE PIN O.D. 5.575 I.D. 2.820 LENGTH .75'	DEPTH= 12,342.80
4	3-1/2" VAM ACE 10.2# L-80 TBG SUB 10' O.D. 3.950 I.D. 2.922 LENGTH 10.43'	DEPTH= 12,343.55
3	OTIS "X" LINE NIPPLE "R" O.D. 3.815 I.D. 2.750 LENGTH 1.19'	DEPTH= 12,353.98
2	3-1/2" VAM ACE 10.2# L-80 TBG SUB 6' O.D. 3.950 I.D. 2.922 LENGTH 6.31'	DEPTH= 12,355.17
1	BAKER WLEG F/ 3-1/2" VAM ACE O.D. 3.815 I.D. 2.922 LENGTH .75'	DEPTH= 12,361.48
		DEPTH= 12,362.23

PREPARED BY BURL CLARK FOR MR. STEVE MACINTOSH



**NOTE:**

THE LOCATION OF THE W.G.S. PIPELINE IS TO BE MARKED PRIOR TO CONSTRUCTION.

**BASIS OF ELEVATION:**  
ELEVATIONS BASED ON U.S.G.S. MONUMENTS  
FINISHED PAD ELEVATION TO BE 6662.00'

**QUANTITIES**

EXCAVATION EXCLUDING PIT = 15,822 C.Y.  
EMBANKMENT = 8,947 C.Y.  
SPOIL = 6,875 C.Y.  
TOPSOIL = 2,145 C.Y.

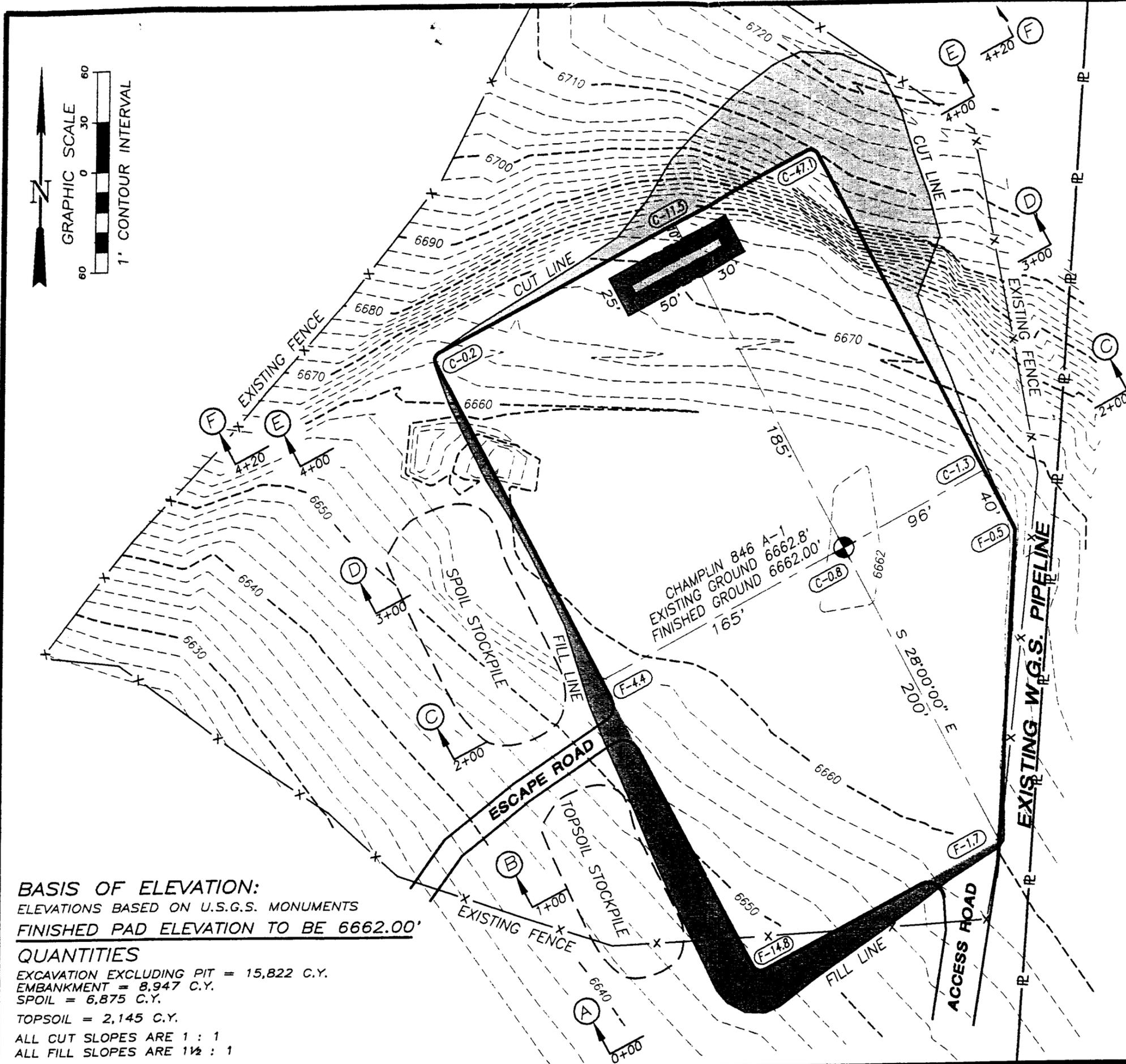
ALL CUT SLOPES ARE 1 : 1  
ALL FILL SLOPES ARE 1½ : 1

**MAP to ACCOMPANY  
APPLICATION for PERMIT to DRILL  
CHAMPLIN 846 AMOCO 'A'  
WELL No. 1  
707 FNL 2342 FWL  
SECTION 25, T5N, R7E, SLBM  
SUMMIT COUNTY, UTAH**

UINTA ENGINEERING & SURVEYING, INC.  
808 MAIN STREET  
EVANSTON, WYOMING 82930  
(307) 789-3602

DATE: 08/20/95 JOB #: 95-26-13  
DISK #: 116-A FILE: 95-26-13

DRAWN BY: Brent Sanders SHEET 2 OF 5





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

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

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

January 6, 1997

Union Pacific Resources Company  
P.O. Box 7 MS 3006  
Ft. Worth, Texas 76101-0007

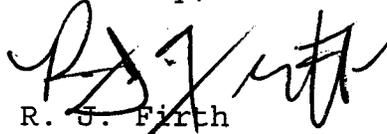
Re: UPRC CCD 846-A 1R-H (Re-entry) Well, 2400' FSL, 900' FEL,  
NE NW, Sec. 25, T. 5 N., R. 7 E., Summit County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to re-enter and drill a horizontal lateral in the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-043-30100.

Sincerely,

  
R. S. Firth  
Associate Director

lwp

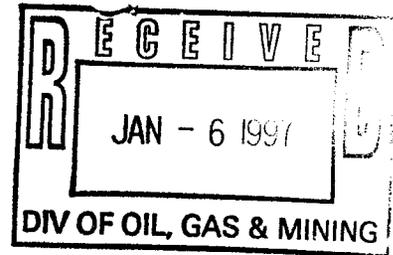
Enclosures

cc: Summit County Assessor  
Bureau of Land Management, State Office

Operator: Union Pacific Resources Company  
Well Name & Number: UPRC CCD 846-A 1R-H (Re-entry)  
API Number: 43-043-30100  
Lease: FEE  
Location: NE NW Sec. 25 T. 5 N. R. 7 E.

### Conditions of Approval

1. General  
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.
2. Notification Requirements  
Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5336.  
  
Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews at (801)538-5334 or Mike Hebertson at (801)538-5333.
3. Reporting Requirements  
All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.
4. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, submittal of a complete angular deviation and directional survey report is required.



January 3, 1997

Division of Oil Gas and Mining  
Utah Department of Natural Resources  
1594 West North Temple - Suite 1210  
P. O. Box 14581  
Salt Lake City, Utah 84114-5801

ATTN: Mr. Frank Matthews

**RE: Request For Approval of Directional Drilling  
UPRC CCD 846A 1R-H  
Section 25, T. 5 N., R. 7 E.,  
Summit County, Utah**

Dear Mr. Matthews:

Under R649-3-11 of The Oil and Gas Conservation General Rules, July 30, 1996, Union Pacific Resources Company (UPRC) requests approval to directionally drill the CCD 846A 1R-H located in Section 25, T. 5 N., R. 7 E., Summit County, Utah. An Application For Permit To Drill (APD) dated December 24, 1996, was submitted for the well which will be a horizontal test in the Phosphoria Formation. UPRC is the sole working interest owner in the lease, consequently notices are not necessary. A plat showing the surface location and proposed bottom-hole location for the well is included. The bottom-hole will be no closer than 460' to the exterior boundaries of Section 25.

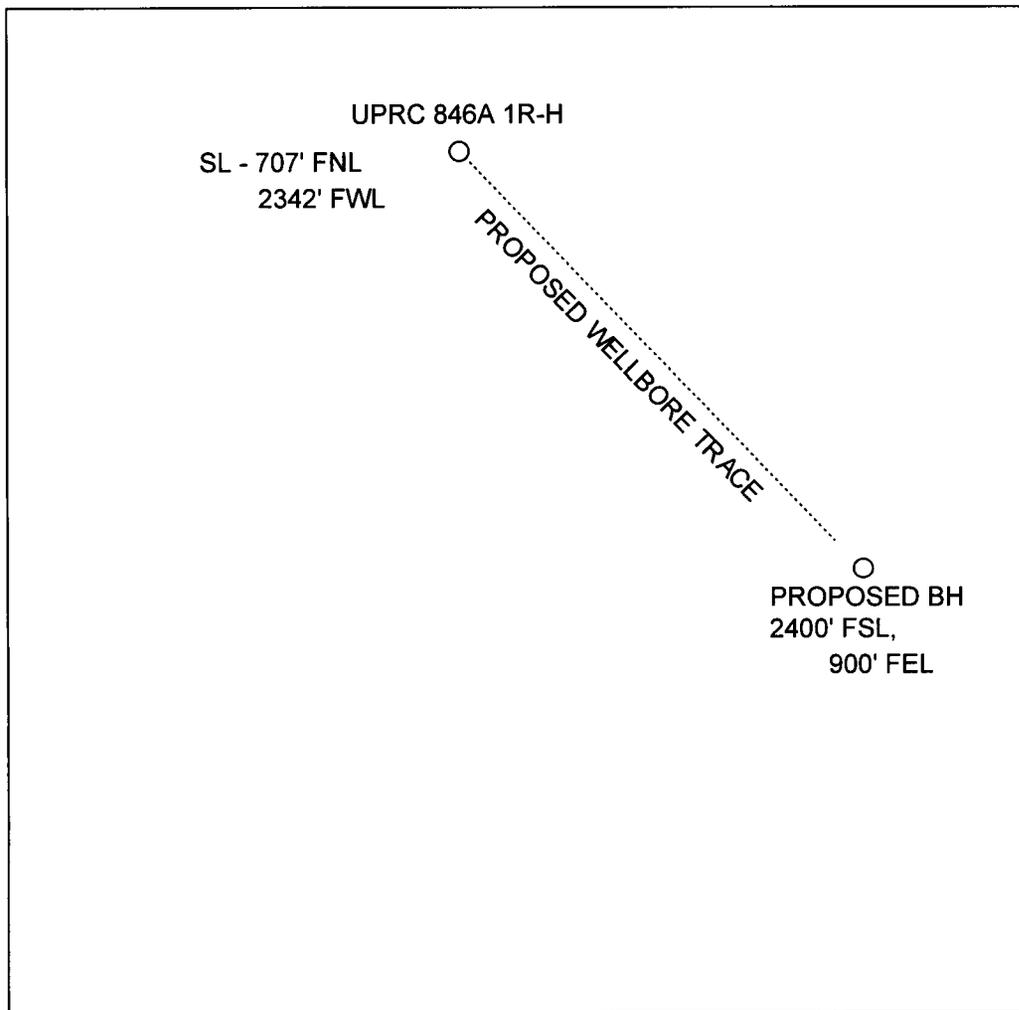
Please call me at (817) 877-7952, FAX (817) 877-7942, if you have any questions or need additional information.

Yours truly,

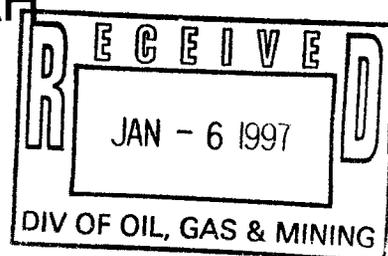
UNION PACIFIC RESOURCES COMPANY

A handwritten signature in cursive script, appearing to read 'W. F. Brazelton'.

W. F. Brazelton  
Senior Regulatory Analyst



UPRC 846A 1R-H  
SECTION 25, T. 5 N., R. 7 E.  
SUMMIT COUNTY, UTAH  
SCALE: 1" = 1,000'



UNION PACIFIC RESOURCES COMPANY

**STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial No. <b>Fee</b>
6. If Indian, Allottee or Tribe Name <b>NA</b>
7. Unit Agreement Name <b>NA</b>
8. Well Name and Number <b>UPRC CCD 846A-1RH</b>
9. API Well Number <b>43-043-30100</b>
10. Field and Pool, or Wildcat <b>Cave Creek</b>

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:  
 OIL ( )    GAS ( X )    OTHER: ( )    INJ. ( )

2. Name of Operator  
**Union Pacific Resources Company**

3. Address and Telephone Number  
**P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007**  
**Telephone (817) 877-6000 (Main Number)**

4. Location of Well

Footages    **707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.**    County    **Summit**

QQ, Sec., T., R., M., (NE/4NW/4) Sec. 25, T. 5 N., R. 7 E.    State    **Utah**

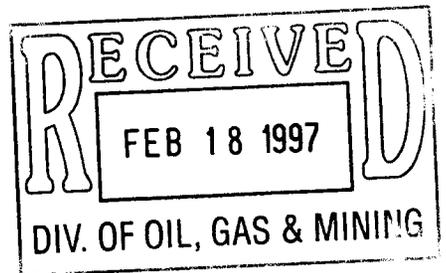
**11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input type="checkbox"/> Other:	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input checked="" type="checkbox"/> Other: Sundry Spud Notice
Approximate date work will start: <b>Upon Approval</b>	Date of work completion _____ Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

Please be advised that Union Pacific Resources Company spudded the re-entry on the above referenced well on February 12, 1997

**CONFIDENTIAL**



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
 If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: **W. F. Brazelton** *W. F. Brazelton* Title: **Senior Regulatory Analyst** Date: **97-02-14**

(This space for State use only)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No. Fee
6. If Indian, Allottee or Tribe Name NA
7. Unit Agreement Name NA
8. Well Name and Number UPRC CCD 846A-1RH
9. API Well Number 43-043-30100
10. Field and Pool, or Wildcat Cave Creek

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals

1. Type of Well:  
OIL ( ) GAS ( X ) OTHER: ( ) INJ. ( )

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6000 (Main Number)

**CONFIDENTIAL**

4. Location of Well  
Footages 707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E. County Summit  
QQ, Sec., T., R., M., (NE/4NW/4) Sec. 25, T. 5 N., R. 7 E. State Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
( ) Abandonment	( ) Abandonment *
( ) Casing Repair	( ) Casing Repair
( ) Change of Plans	( ) Change of Plans
( ) Conversion to Injection	( ) Conversion to Injection
( ) Fracture Test	( ) Fracture Treat
( ) Multiple Completion	( X ) Other: Weekly Progress Report
( ) Other:	
( ) New Construction	( ) New Construction
( ) Pull or Alter Casing	( ) Pull or Alter Casing
( ) Recompletion	( ) Shoot of Acidize
( ) Shoot or Acidize	( ) Vent or Flare
( ) Vent or Flare	( ) Water Shut-Off Shutoff
( ) Water Shutoff	

Approximate date work will start: Upon Approval

Date of work completion \_\_\_\_\_

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

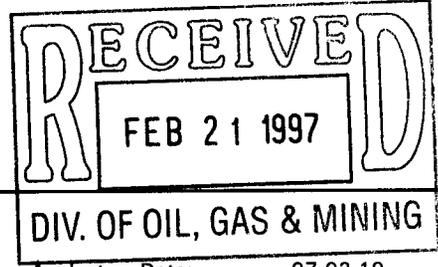
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

Weekly Progress Report No. 1, Week Ending February 15, 1997

Re-entry spudded February 12, 1997; well depth February 15, 1997 - 12543' MD; preparing to mill window in existing casing.

Please refer to accompanying Daily Operations Summaries for detail.

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942



13. Name/Signature: W. F. Brazelton *W.F. Brazelton* Title: Senior Regulatory Analyst Date: 97-02-19

(This space for State use only)



<b>WELLNAME :</b> UPRC CCD 846 A #1RH	<b>AFE No. :</b> A3700
<b>RIG NAME :</b> SST #56	<b>WELL ID No. :</b> 01109
<b>FIELD :</b> CAVE CREEK	<b>API No. :</b> 43-043-30100
<b>EVENT No. :</b> 2	<b>EVENT DESC. :</b> PLUGBACK EXISTING FORMATIONS

<b>DATE :</b> 2/12/97	<b>DSS :</b> 1	<b>DEPTH :</b> 12,543.00	<b>MUD WT :</b> 8.33	<b>CUM COST TO DATE :</b>
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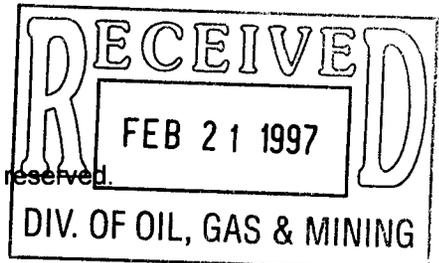
Hours	PH	OP	ACT	Activity Description
23.00	A	RU	RU	FIRST REPORT - AFE # A3700 IN THE AMT. OF \$950M TO REDRILL THE CAVE CREEK DEEP 846 A-1R WITH A HORIZONTAL LATERAL IN THE PHOSPHORIA FORMATION TO A PTD OF 12589'. SURF. LOC. IS 707' FNL, 2343' FWL, SEC. 25, T5N, R7W, SUMMIT COUNTY, UT. API# 43-043-30100. GL. ELEV. 6662' (RKB 6682').
1.00	D	OT	OT	MIRU/RDMO - FINISH RU. RIG ON DAYWORK @ 0400 HRS. 02/12/97. RU TO KILL WELL - ND CHOKE ON TREE, NU CHECK VALVE & LINES, RU HOT OILER TO KILL WELL AS TUBING PRESSURE 3100 PSI - UPPER LIMIT ON RIG PUMP LINERS. RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \ \ COMPUTER #3 RU 02/12/97 \ ON LOC. 1 DAY TO DATE \ \ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 22 DEG. F., NO NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK.

<b>DATE :</b> 2/13/97	<b>DSS :</b> 2	<b>DEPTH :</b> 12,543.00	<b>MUD WT :</b> 9.30	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
5.50	D	DI	DI	RU HOT OILER, AND KILL LINE, PUMP DWN TBG. @ 3500#, 35 BBL @ 1 1/2 BBL. MIN. CHANGE OVER TO RIG PUMP, PUMP 74 BBL. @ 2 BBL. MIN. PIPE ON SUCK, BUT NOT VAER MUCH AFTER 3 MIN. STARTED FLOWING BACK. BACK PRESSURE VALVE NOT HOLDING.
2.50	D	OT	OT	WO XO FROM 3 1/2" 5M# TO 2 7/8" 8 RND. LUBE OUT BP VALVE, PUMP 109 BBL. WATER DWN TBG. PIPE ON SUCK, DRY ROD IN BP VALVE
5.00	D	NU	NU	ND TREE, BP VALVE NOT SET, WELL FLOWING BACK ABOUT 5 GAL IN 2 MIN. PULL BP VALVE, SET ANOTHER ONE. NU BOP
5.00	D	TB	TB	TEST BOP STACK, CHOKE MANIFOLD, AND FLOOR VALVES 250 LOW, AND 5000 HIGH, TEST ANNULAR TO 250 LOW AND 3500LOW.
6.00	D	OT	OT	NU ROTATING HEAD WHILE MIXING BRINE TO KILL TBG. HAD BRINE TO 9.3 PPG, 4" HOSE BLEW OFF OF CAMLOCK FITTIN, LOST 220 BBL. ON LOCATION, TRIED TO CONTAIN ON LOCATION AS BEST WE COULD, WILL HAVE TO SEE WHAT IT LOOKS LIKE AFTER DAYLIGHT. RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \ \ COMPUTER #3 RU 02/12/97 \ ON LOC. 1 DAY TO DATE \ \ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 08 DEG. F., TR NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. ***** NOTE *****HAD SPILLOF 220 BBL. BRINE WATER

<b>DATE :</b> 2/14/97	<b>DSS :</b> 3	<b>DEPTH :</b> 12,543.00	<b>MUD WT :</b> 9.10	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
3.50	D	OT	OT	MIXING BRINE TO KILL TBG.
2.00	D	OT	OT	PUMP ON TBG, TO 2900# W/ RIG PUMP. CALLED AND WO HOT OILER,
2.50	D	OT	OT	RU HOT OILER, LOAD 50 BBL. OF 9.3 PPG BRINE ON IM, PUMP DWN TBG. TOOK 3800# TO PUMP DWN TBG. PRESSURE @ 1200# AFTER 50 BBL.
2.50	D	OT	OT	XO TO RIG PUMP, PUMP ANOTHER 170 BBL. WITH RIG PUMP, TBG. ON SUCK AT SHUT DWN.
6.50	D	OT	OT	PULLED TO TBG. HANGER, LD TIW JT. PULL HANGER, AND PREP METH. LINE TO PULL TBG, PULL TBG.
3.50	D	CA	CA	WELL STARTED FLOWING UP TBG. PU TIW PUMPED 92 BBL. 9.3 PPG BRINE DWN TBG. CLOSE TIW VALVE. BUILD VOLUME, AND PUMP 394 BBL. DWN BACK SIDE. HAD 1400# ON STAND PIPE @ 60 STKS. WHEN WE FIRST STARTED PUMPING. HADAS MUCH AS 400 PPM H2S IN METH. LINE WHEN WE BROKE IT OFF, HAD TO BLED PRESSURE FOR ABOUT 15 MIN.
2.50	D	TR	TR	PULLING TBG.
0.50	D	CA	CA	TBG. STARTED BLOWING, SHUT DWN AND PUMP 15 BBL. DWN TBG.
0.50	D	TR	TR	CONTINUE PULLING TBG. RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \ \ COMPUTER #3 RU 02/12/97 \ ON LOC. 1 DAY TO DATE \ \ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 08 DEG. F., TR NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000. REPORTED SPILL TO:UTAH DEPT. NAT. RES. 801-538-5340, GILL HUNT PHONE MAIL @ 16:40COMP. EMER. MGNT. 801-538-3400 JERRY NORTON @ 16:45US DEP. ENV. QUALITY 801-877-6316 MIKE ZUCKER @ 16:55UPR ENV.SVS. FAXED TO 817-877-6316 @ 18:00



**PERC OPERATIONS SUMMARY REPORT**

<b>WELLNAME :</b> UPRC CCD 846 A #1RH	<b>AFE No. :</b> A3700
<b>RIG NAME :</b> SST #56	<b>WELL ID No. :</b> 01109
<b>FIELD :</b> CAVE CREEK	<b>API No. :</b> 43-043-30100
<b>EVENT No. :</b> 2	<b>EVENT DESC. :</b> PLUGBACK EXISTING FORMATIONS

**DATE :** 2/15/97      **DSS :** 4      **DEPTH :** 12,543.00      **MUD WT :** 9.30      **CUM COST TO DATE :**

<u>Hours</u>	<u>PH</u>	<u>OP</u>	<u>ACT</u>	<u>Activity Description</u>
2.50	D	TR	TR	CONTINUE PULLING TBG., LD SEAL ASSM.
2.50	D	LD	LD	RU LD MACHINE, LOD PIPE RACKS, STRAP PIPE
1.50	D	CA	CA	CHECK PRESSURE UNDER BLINDS, 100#, PUMP DWN CSG. 200 BBL., AND CONTINUE TO PUMP 1 BBL. MIN. @ 9.3 PPG.
17.50	D	LD	LD	PU 3 1/2' 13.3# X95 DP, W/ BIT AND CSG SCRAPER RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \\ COMPUTER #3 RU 02/12/97 \ ON LOC. 1 DAY TO DATE \\ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 30 DEG. F., NO NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000.

**STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial No. <p align="center">Fee</p>
6. If Indian, Allottee or Tribe Name <p align="center">NA</p>
7. Unit Agreement Name <p align="center">NA</p>
8. Well Name and Number <p align="center">UPRC CCD 846A-1RH</p>
9. API Well Number <p align="center">43-043-30100</p>
10. Field and Pool, or Wildcat <p align="center">Cave Creek</p>

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:  
 OIL ( )    GAS ( X )    OTHER: ( )    INJ. ( )

2. Name of Operator  
 Union Pacific Resources Company

3. Address and Telephone Number  
 P. O. Box 7    MS 3006    Fort Worth, Texas 76101-0007  
 Telephone (817) 877-6000 (Main Number)

**CONFIDENTIAL**

4. Location of Well

Footages    707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.                      County    Summit

                  QQ, Sec., T., R., M., (NE/4NW/4) Sec. 25, T. 5 N., R. 7 E.                      State    Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input checked="" type="checkbox"/> Other: Weekly Progress Report  Date of work completion _____  Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.
Approximate date work will start: Upon Approval	

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

Weekly Progress Report No. 2, Week Ending February 22, 1997

Re-entry spudded February 12, 1997; well depth February 22, 1997 - 11489' MD; drilling new Phosphoria Formation lateral.

Please refer to accompanying Daily Operations Summaries for detail.

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
 If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton  Title: Senior Regulatory Analyst    Date: 97-02-24

(This space for State use only)

**PERC OPERATIONS SUMMARY REPORT**

<b>WELLNAME :</b> UPRC CCD 846 A #1RH	<b>AFE No. :</b> A3700
<b>RIG NAME :</b> SST #56	<b>WELL ID No. :</b> 01109
<b>FIELD :</b> CAVE CREEK	<b>API No. :</b> 43-043-30100
<b>EVENT No. :</b> 2	<b>EVENT DESC. :</b> PLUGBACK EXISTING FORMATIONS

<b>DATE :</b> 2/16/97	<b>DSS :</b> 5	<b>DEPTH :</b> 12,543.00	<b>MUD WT :</b> 9.30	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
1.00	D	RS	RS	RD LD MACHINE
4.50	D	TR	TR	TOH W/ BIT AND SCRAPER
0.50	D	OT	OT	TEST UPPER KELLEY VALVE
4.00	D	TR	TR	TIH, W/ BAKER CICR. SET RETAINER.
3.00	D	RS	RS	RU DS, TEST LINES TO 5M#, TEST DP TO 4M#, TEST CSG. TO 4M#, STARTED MIXING CEMENT, NOTICED PRESSURE BUILDING ON BS THE SAME AS ON TBG, SHUT DWN, STING OUT, AND STING BACK INTO RETAINER, PRESSURES BUILDING ON BS THE SAME AS BEFORE, STING OUT AND TECT CSG. TO 4M# LOST 300# 1N 5 MIN.
5.50	D	RS	RS	RD DS. FILL MUD TANKS, TOH
4.50	D	TR	TR	PU BIT SUB, BIT, AND TIH
1.00	D	OT	OT	CHASE RETAINER DWN. HOLE. TO TOP OF PERM. PACKER @ 11594' RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \ \ \ COMPUTER #3 RU 02/12/97 \ ON LOC. 5 DAY TO DATE \ \ \ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 26 DEG. F., NO NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000.

<b>DATE :</b> 2/17/97	<b>DSS :</b> 6	<b>DEPTH :</b> 12,543.00	<b>MUD WT :</b> 9.20	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
6.50	D	DP	DP	DRILL BACKER CICR, NEVER DID DRILL UP, BUT COULD PUMP PAST IT @ 3 BBL/MIN @ 1900#
2.50	D	TR	TR	TOH TO PU BAKER CICR
5.00	D	TR	TR	TIH W/ RETAINER, SET @ 11448'
0.50	D	TC	TC	RU DS, TEST BS, TO 4M#, LOST 100# IN 5 MIN., CLOSE VALVE ON RETAINER, TEST DP TO 4M#, LOOSING 100#/MIN. NO COMM. W/ BS, STING OUT, EST. INJ. RATE, 3 BBL./MIN. @ 2025#
1.50	D	CM	CM	MIX AND PUMP 400 SX. OF "G" W/ .1% D65 AND .25% D-800, WT. 15.8 PPG, YEILD 1.15, 82 BBL. CEMENT, DISPLACE W/ 74 BBL. WATER, PRESSURE INCREASING TO 4M#, @ 1 1/2 BBL. MIN, BROKE BACK TO 3500 @ 70 BBL. STING OUT @ 2800#
4.00	D	TR	TR	TOH, LD BAKER CICR, STINGER
0.50	D	SR	SR	SERVICE RIG CHECK BOP
1.00	D	TR	TR	PU WINDOW MILL, CSG. SCRAPER, BIT SUB AND TIH
1.00	K	RR	RR	CHANGE OUT HYD. HOSE ON SPINNERS
1.50	D	TR	TR	TIH RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \ \ \ COMPUTER #3 RU 02/12/97 \ ON LOC. 6 DAY TO DATE \ \ \ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 31 DEG. F., NO NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000.

**PERC**

<b>WELLNAME :</b> UPRC CCD 846 A #1RH	<b>AFE No. :</b> A3700
<b>RIG NAME :</b> SST #56	<b>WELL ID No. :</b> 01109
<b>FIELD :</b> CAVE CREEK	<b>API No. :</b> 43-043-30100
<b>EVENT No. :</b> 2	<b>EVENT DESC. :</b> PLUGBACK EXISTING FORMATIONS

<b>DATE :</b> 2/18/97	<b>DSS :</b> 7	<b>DEPTH :</b> 11,448.00	<b>MUD WT :</b> 9.20	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
2.00	D	TR	TR	TIH , TAG UP @ 11439', CIGR SET @ 11448', ONLY 10' OF CEMENT ON TOP OF RETAINER.
1.00	D	CA	CA	CIRCULATE TO BALANCE FLUID IN HOLE.
4.00	D	TR	TR	TOH
8.00	D	WY	WY	RU SWS, RIH W/ 6" GAUGE RING, AND JUNK BASKET W/ CCL, POOH, PU TIW WHIP STOCK PACKER, RIH, SET PACKER @ 11353' AS CORALATED TO OWP CBL CCL DATED 8-22-95, PU AND RIH W/ BAKER HUGHES INTEQ GYRO TO ORIENT KEY SLOT IN PACKER, POOH, RD SWS AND BAKER. SET WHIP STOCK STINGER @ 193 DEG. TO RIGHT OF HIGH SIDE
1.00	D	BH	BH	PU WHIP STOCK, TIH
1.00	D	TR	TR	TIH W/ WHIP STOCK AND 20 STANDS DP
1.00	D	SL	SL	SLIP & CUT DRILL LINE
6.00	D	TR	TR	TIH @ 3 MIN. STAND AS PER WEATHERFORD INSTRUCTIONS RIG FUEL DELS. / 24 HRS.: 7500 GALS. / CUM.: 7500 GALS. \\ COMPUTER #3 RU 02/12/97 \ ON LOC. 6 DAY TO DATE \\ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 31 DEG. F., 4" NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000.

<b>DATE :</b> 2/19/97	<b>DSS :</b> 8	<b>DEPTH :</b> 11,337.00	<b>MUD WT :</b> 8.60	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
1.00	D	TR	TR	TIH @ 3 MIN. STAND AS PER WEATHERFORD INSTRUCTIONS, SHEAR OFF WHIP STOCK @ 25M#
2.00	D	CA	CA	CIRCULATE AND LOCATE TOP OF WHIPSTOCK LUG.@ 11326
3.75	C	MI	MI	MILL LUG OFF WHIPSTOCK, AND 24" W/ STARTING MILL
1.25	D	CA	CA	PUMP HIGH VIS SWEEP, AND CIRC. BOTTOMS UP/ LOTS OF METAL WITH SWEEP
4.00	D	TR	TR	TOH F/ WINDOW MILL
3.25	D	TR	TR	PU WINDOW MILL, WATERMELON MILL, AND TIH
3.00	D	CA	CA	MIX FRESH WATER MUD
5.75	D	MI	MI	MILLING 11329-11337 1.4' HR. LOW TORQUE, CLEANING DITCH MAGNETS EA 1/2 HR. RIG FUEL DELS. / 24 HRS.: 0 GALS. / CUM.: 7500 GALS. \\ COMPUTER #3 RU 02/12/97 \ ON LOC. 7 DAY TO DATE \\ WEATHER: CLOUDY, 0-5 MPH WINDS/SW, 26 DEG. F., NO NEW SNOW LAST 24 HRS. / LOC. & ACCESS: FROZEN MUD & ICE-OK. EVANSTON CITY WATER METER READING @ 1900 HR. 2/13/97 = 89437000.

<b>DATE :</b> 2/20/97	<b>DSS :</b> 9	<b>DEPTH :</b> 11,347.00	<b>MUD WT :</b> 8.90	<b>CUM COST TO DATE :</b>
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Hours	PH	OP	ACT	Activity Description
5.75	D	MC	MC	MILL/CUT SECT. OR WINDOW - CONT'D MILLING WINDOW 11337-11342'. SMALL AMOUNT OF METAL CUTTINGS COMING OVER SHAKER. PUMPING GEL SWEEPS FROM TIME TO TIME TO CLEAN HOLE, NO INCREASE IN METAL OVER SHAKER W/LAST SWEEP.
0.75	D	DR	DR	DRILL ROTATE 11342-11343' - DRILL 1' PAST BASE OF WHIPSTOCK W/WINDOW MILLING BHA. WORK BHA THROUGH WINDOW W/PUMPS OFF - NO TIGHT SPOTS.
1.50	D	CA	CA	CIRCULATE - BOTTOMS UP, NO GAS.
4.75	D	TR	TR	TRIP - TOO H FOR WINDOW - POLISHING BHA. NO TIGHT SPOTS.
0.25	D	OT	OT	SAFETY MEETING - BOTH CREWS, BACKING TRUCKS & FORKLIFT ON LOCATION, PREVENTION OF DAMAGE TO SURFACE FACILITIES, USING TORCHES - HOT WORK PERMITS.
1.00	D	BH	BH	PU/LD BHA & TOOLS - LD WINDOW MILL (1/8" UNDER GUAGE), WATERMELON MILL (1/16" UNDER GUAGE), & DP WOBBLER JT. (SLIGHT WEAR ON OD). PU NEW 6" WINDOW MILL, 2 NEW 6" STRING MILLS & 4 3/4" SPIRAL DC.
3.00	D	TR	TR	TRIP - TIH, NO TIGHT SPOTS, TU @ 11329'.
3.50	D	MC	MC	MILL/CUT SECT. OR WINDOW - REAM WINDOW W/POLISHING MILL BHA 11329-11343'.
3.50	D	DR	DR	DRILL ROTATE 11343-11347' - DRILL AHEAD W/POLISHING BHA TO WORK STRING MILLS THROUGH WINDOW. NO OBSERVABLE FLUID LOSS TO FORM. LAST 24 HRS. HOLE STANDING FULL W/PUMPS OFF. TOTAL MUD LOST TO FORM. / 24 HRS.: 0 BBLs. / CUM.: 0 BBLs. \\ RUNNING RETS. THROUGH NORWARD LINE HTR. TO KEEP FLUID IN MUD TANKS WARM. DRLG. / 24 HRS.: 4.25 HRS. / CUM.: 4.25 HRS. \\ RIG FUEL DELS. / 24 HRS.: 7572 GALS. / CUM.: 15072 GALS. \\ COMPUTER #3 RU 02/12/97 \ ON LOC. 9 DAYS TO DATE \\ WEATHER: CLOUDY, CALM, 26 DEG. F., 1" NEW SNOW. LAST 24 HRS. / LOC. & ACCESS: SNOW OVER DEEP MUD-RUTTED. HAVING SOME DIFFICULTY MOVING AROUND EQUIPMENT & MATERIAL.

**PERC OPERATIONS SUMMARY REPORT**

WELLNAME : UPRC CCD 846 A #1RH	AFE No. : A3700
RIG NAME : SST #56	WELL ID No. : 01109
FIELD : CAVE CREEK	API No. : 43-043-30100
EVENT No. : 2	EVENT DESC. : PLUGBACK EXISTING FORMATIONS

DATE : 2/21/97	DSS : 10	DEPTH : 11,380.00	MUD WT : 8.90	CUM COST TO DATE :
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Hours	PH	OP	ACT	Activity Description
4.25	D	DR	DR	DRILL ROTATE 11347-11349' - CONT'D DRLG. AHEAD W/POLISHING BHA TO WORK STRING MILLS THROUGH WINDOW. PUMP HIGH VIS GEL/POLY SWEEP, WORK BHA THROUGH WINDOW SEVERAL TIMES W/PUMPS ON & OFF W/NO PROBLEM. NOTE: TOP OF WIN. @ 11326', TOP OF WHIPSTK. @ 11329', BASE OF WHIPSTK. (KOP) @ 11342'.
1.50	D	CA	CA	CIRCULATE - BOTTOMS UP, NO GAS.
3.75	D	TR	TR	TRIP - TOOH TO PU DIRECTIONAL TOOLS, NO TIGHT SPOTS.
1.50	D	BH	BH	PU/LD BHA & TOOLS - LD WINDOW POLISHING BHA & DP WOBBLER JT. (WINDOW MILL & WATERMELON MILLS ALL GUAGED 6"). PU MUD MOTOR, ADJUST ANGLE TO 2.38 DEG., ORIENT W/MWD TOOL, INSTALL BIT, RIH W/BHA, TEST MOTOR & MWD TOOL - OK.
4.75	D	TR	TR	TRIP - TIH, NO TIGHT SPOTS. (H2S ALARMS WENT OFF 10 STDS. OFF BOT. WELL SEC. - ALL PERS. TO BA IN 4MINS. NO H2S PRESENT, ALARM TRACED TO BAD DETECTOR ON FLOOR - REPLACED).
1.75	D	CA	CA	CIRCULATE - LINE UP CHK. MAN. & VALVES TO CIRC. THROUGH PRESS. TANK, BEG. TO FILL PRESS. TANK, CHK. FOR LEAKS (INSTALL NEW ROT. HD. RBBR.).
6.50	D	DS	DS	DRILL SLIDE 11349-11380' - 31 1/4" 4.8 FPH @ 80-90R. TAKE MWD SUR. @ 11311' ON CONN. @ 11359' BIT DEPTH - NOT USED - ABOVE TIE-IN PT., INC. 34.4 DEG., CHKS. OK W/SURVS. IN ORIG. HOLE. PUMP PRESS.: 2050 # (OFF BOT.), 2150 # (SLDG.) \\\ DRLG. W/100% RETS. TOT. MUD LOST TO FORM. / 24 HRS.: 0 BBLs. / CUM.: 0 BBLs. \\\ NO SHOWS LAST 24 HRS. \\\ TRACE OF MET. IN CTTNGS. \\\ NO TIGHT CONNS. \\\ ADDING AMMONIUM THIOCYANATE TO DRLG. FLUID AS TRACER (1SK./1000 BBLs.) \\\ 2 PPB ZINC CARB. IN MUD AS AN H2S SCAV. \\\ ANADRILL MWD TRAILER CELL PHONE #: 307/389-3026 \\\ MUD LOGGER RU ON LOC. @ 1600 HRS. 02/20/97, IN OPER. @ 2230 HRS. 02/20/97 \\\ ANADRILL PERS. & EQUIP'T ON LOC. @ 1100 HRS. 02/18/97, TOOLS THROUGH ROT. TABLE @ 1600 HRS. 02/20/97 \\\ TOOL INTERVALS: BIT TO GR = 37', BIT TO SURVEY = 48'.

DATE : 2/22/97	DSS : 11	DEPTH : 11,489.00	MUD WT : 8.90	CUM COST TO DATE :
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Hours	PH	OP	ACT	Activity Description
23.00	D	DS	DS	DRILL & SURVEY 11380-11489'
0.75	D	SU	SU	- DRILL SLIDE - 109 1/4" 4.7 FPH
0.25	D	OT	OT	- MWD SURVEYS
				- H2S DRILL - WELL SEC. / ALL PERS. TO BA IN 3.5 MINS.
				SLIDE:11380-92' @ 80-90R SLIDE:11392-457' @ 75-80R SLIDE:11457-89' @ 40-60R
				PUMP PRESS.: 2000 # (OFF BOTTOM), 2200 # (SLIDING) \\\ DRLG. W/100% RETURNS. TOT. MUD LOST TO FORM. / 24 HRS.: 0 BBLs. / CUM.: 0 BBLs. \\\ NO SIG. SHOWS LAST 24 HRS. \\\ TRACE OF METAL IN CUTTINGS \\\ NO TIGHT CONNS. \\\ ADDING AMMONIUM THIOCYANATE TO MUD FLUID AS A TRACER (1SK./1000 BBLs.) \\\ ADDING CORR. INHIB. TO PROTECT STRING \\\ 2 PPB ZINC CARBONATE IN MUD AS AN H2S SCAV. \\\ AZ. READINGS ON SURVEYS @ 11344' & 11376' ARE INTERPLOATED ESTIMATES DUE TO CLOSE PROXIMITY & INFLUENCE OF CASING.
				DRLG. / 24 HRS.: 23.0 HRS. / CUM.: 37.0 HRS. \\\ MTR. SN A1416 / 29.5 HRS. DRLG. / 32.0 HRS. ON PUMP \\\ MWD TOOL / 32.0 HRS. ON PUMP / 37.0 HRS. IN HOLE (BATTERIES ON) \\\ ROT. HEAD: 19.25 ROT. HRS. ON BEARING \\\ ROT. HD. RBBR. #2 STABBED TOT. 31.5 HRS. \\\ RIG FUEL DELS. / 24 HRS.: 0 GALS. / CUM.: 15072 GALS. \\\ CORR. RING #F08 @ TOP OF BHA; IN @ 1600 HRS. 02/20/97 @ 11349', 37.0 CUM. HRS. OF EXP. / CORR. RING #F46 @ SAVER SUB; IN @ 1630 HRS. 02/20/97 @ 11349'; 26.5 CUM. HRS. OF EXP. \\\ COMPUTER #3 RU 02/12/97 \ ON LOC. 11 DAYS TO DATE \\\ CITY WATER METER READING @ 0500 HRS. 02/22/97: 8943700 GALS. \\\ BACTERIA CHECK ON DRILLING FLUID SAMPLE TAKEN 02/20/97 NEG. AFTER 24 HRS. \\\ WEATHER: CLEAR, CALM, 20 DEG. F., NO NEW SNOW. LAST 24 HRS. / LOC. & ACCESS: VERY MUDDY - HAVING TROUBLE MOVING AROUND EQUIP'T & MATERIAL ON LOC.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

Rec'd 3.18.97

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>						5. LEASE DESIGNATION AND SERIAL No. <b>Fee</b>		
1 a. TYPE OF WELL (X) OIL WELL ( ) GAS WELL ( ) DRY ( ) OTHER _____						6. IF INDIAN, ALLOTTEE OR TRIBAL NAME <b>NA</b>		
b. TYPE OF COMPLETION ( ) NEW WELL ( ) WORKOVER ( ) DEEPEN (X) PLUG BACK (X) DIFF. RESV. ( ) OTHER _____						7. UNIT AGREEMENT NAME <b>NA</b>		
2. NAME OF OPERATOR <b>UNION PACIFIC RESOURCES COMPANY</b>						8. FARM OR LEASE NAME <b>UPRC</b>		
3. ADDRESS OF OPERATOR <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007</b>						9. WELL NAME <b>CCD 846-A 1RH</b>		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At Surface <b>707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.</b>						10. FIELD AND POOL, OR WILDCAT <b>Cave Creek (Deep)</b>		
At Proposed Producing Zone <b>2178' FNL, 4401' FWL Sec. 25, T. 5 N., R. 7 E.</b>						11. QQ, SEC., T., R., M., OR BLOCK AND SURVEY OR AREA <b>NENE Sec. 25, T. 5 N., R. 7 E.</b>		
At Total Depth: <b>2858' FNL, 4464' FWL Sec. 25, T. 5 N., R. 2 E.</b>		14. API NUMBER <b>43-043-30100</b>		DATE ASSIGNED		12. COUNTY <b>Summit</b>	13. STATE <b>Utah</b>	
15. SPUD DATE <b>97-02-12</b>	16. DATE TD REACHED <b>96-03-09</b>	17. DATE COMPL. (Ready to prod.) <b>97-03-10</b> or (Plug & Abd.)		18. ELEVATIONS (DF, RKB, RT, GL, etc.) <b>GR - 6662' MSL; KB - 6682' MSL</b>		19. ELEV. CASINGHEAD		
20. TOTAL DEPTH (MD & TVD) <b>12653' MD/11261' TVD</b>		21. PLUG BACK TD, MD & TVD <b>11439' MD/TVD</b>		22. IF MULTIPLE COMPL., HOW MANY? <b>NA</b>		23. INTERVAL DRILLED BY Rotary? Cable Tools? <b>Yes</b>		
24. PRODUCING INTERVAL(S) OF THIS COMPLETION - TOP, BOTTOM, NAME, (MD & TVD) <b>Phosphoria Fm. (Top) 11952' MD/11115' TVD - (Bottom) 12653' MD/1121' TVD Lateral ends in Phosphoria Fm.</b>						25. WAS DIRECTIONAL SURVEY MADE? <b>Yes</b>		
26. TYPE ELECTRIC AND OTHER LOGS RUN				27. WAS WELL CORED? ( ) Yes (X) No (Submit Analysis) DRILL STEM TEST? ( ) Yes (X) No (See Reverse Side)				
<b>28. CASING RECORD (Report all strings set in well)</b>								
CASING SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)		HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"		105.5		1438'		26"	NA	
13-3/8"		68; 72		5750'		17-1/2"	NA	
9-5/8"		40; 43.5; 47		7300'		12-1/4"	NA	
7-5/8"; 7"		39; 32		12538'		8-1/2"	NA	
29. LINER RECORD				30. TUBING RECORD				
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
4-1/2"	11239'	12639'	NA		3-1/2"	11070'	11070'	
31. PERFORATION RECORD (Interval, size, and number) <b>4-1/2" Pre-perforated liner, 11943' - 12639'</b>				32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED				
<b>33. PRODUCTION</b>								
DATE FIRST PRODUCTION <b>NA</b>		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) <b>Electric submersible pump</b>				WELL STATUS (Producing or shut-in) <b>Shut in per Mr. Brazelton</b> <b>Recovering water lost during drilling</b>		
DATE OF TEST <b>NA</b>	HOURS TESTED	COKE SIZE	PROD'N FOR TEST PERIOD	OIL--BBL.	GAS--MCF	WATER--BBL.	GAS - OIL RATIO	
FLOW. TBG PRESSURE		CSG 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.) <b>None</b>						TEST WITNESSED BY <b>NA</b>		
35. LIST OF ATTACHMENTS <b>Borehole Schematic Diagram</b>								
36. I hereby certify that this report is true and complete to the best of my knowledge								
Signed: <b>W. F. Brazelton</b>				Title: <b>Senior Regulatory Analyst</b>		Date: <b>97-03-11</b>		

CONFIDENTIAL

CONFIDENTIAL PERIOD EXPIRES ON 4/16/98

CONFIDENTIAL

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEM 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completions), so state in Item 22,

and in Item 24 show the producing interval, or intervals, top(s), bottom(s), and name(s) 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.

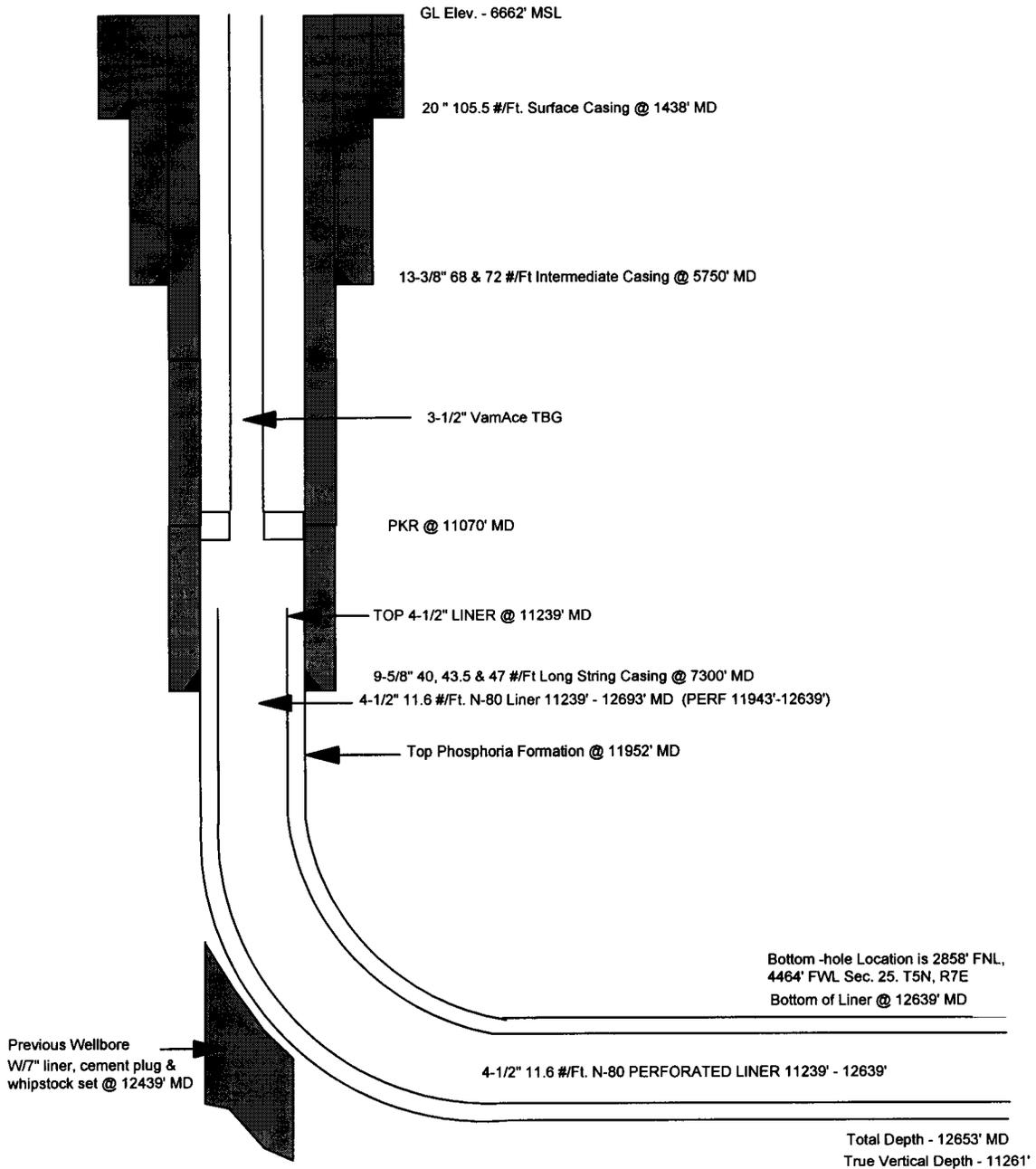
ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this for each interval to be separately produced (see instruction for Items 22 and 24 above).

38. GEOLOGIC MARKERS					
Formation	Top	Bottom	Description, contents, etc	Top	
				Measured Depth	True Vertical Depth
			Phosphoria	11952'	11114'

WELL NAME: UPRC CCD 8401-1RH  
Surf. Loc. : NE/4NW/4 Sec. 25, T. 5 N., R. 7 E.  
B-H LOC. - NE/4SE/4 Sec. 25, T. 5 N., R. 7 E.  
Summit County, UTAH  
API No. 43-043-30100

DATE: 97-03-11  
BY: WFB  
FIELD: Cave Creek Deep  
SPUD DATE: 97-02-12



UNION PACIFIC RESOURCES COMPANY

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No.	Fee
6. If Indian, Allottee or Tribe Name	NA
7. Unit Agreement Name	NA
8. Well Name and Number	UPRC CCD 846A-1RH
9. API Well Number	43-043-30100
10. Field and Pool, or Wildcat	Cave Creek

**SUNDRY NOTICES AND REPORTS ON WELLS**  
 Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
 Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals

1. Type of Well:  
 OIL ( ) GAS (X) OTHER: ( ) INJ. ( )

2. Name of Operator  
 Union Pacific Resources Company

3. Address and Telephone Number  
 P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
 Telephone (817) 877-6000 (Main Number)

4. Location of Well

Footages 707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E. County Summit  
 QQ, Sec., T., R., M., (NE/4NW/4) Sec. 25, T. 5 N., R. 7 E. State Utah

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

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
( ) Abandonment	( ) Abandonment *
( ) Casing Repair	( ) Casing Repair
( ) Change of Plans	( ) Change of Plans
( ) Conversion to Injection	( ) Conversion to Injection
( ) Fracture Test	( ) Fracture Treat
( ) Multiple Completion	( X ) Other: Notice of First Production
( ) Other:	
( ) New Construction	( ) New Construction
( ) Pull or Alter Casing	( ) Pull or Alter Casing
( ) Recompletion	( ) Shoot of Acidize
( ) Shoot or Acidize	( ) Vent or Flare
( ) Vent or Flare	( ) Water Shut-Off Shutoff
( ) Water Shutoff	

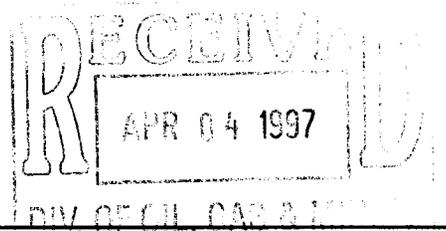
Approximate date work will start: \_\_\_\_\_

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company has began recovering production from the above referenced well. Test data indicates the following results: 1.7 MMCFD, 768 BWPD, 120 BCPD.  
 The well has been tied into the pipeline and was put to sales effective March 25, 1997.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
 If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13. Name/Signature: W. F. Brazelton *W. F. Brazelton* Title: Senior Regulatory Analyst Date: 97-04-01

(This space for State use only)

43-043-30100

**OVERTHRUST TEAM DISTRIBUTION SHEET**

**FROM:** W. F. (Bill) Brazelton  
MS 3006  
EXT. 7952

**DATE:** 97-04-01  
**NEED BY:** 97-04-01  
**FED. EXP.:** ~~16 PM~~  
**REG. MAIL:** X

**SUBJEC:** Sundry Notice of First Sales  
**WELL:** CCD 846 A-1RH  
**COUNTY:** Summit County, Utah

4-1-97 LFH

\_\_\_\_ Carolyn Fluman  
MS 2602 Ext. 6467

\_\_\_\_ Lance Cook  
MS 3703 Ext. 6727

\_\_\_\_ W. E. Charles  
MS 3605 Ext. 7678

\_\_\_\_ W.F.B.  
MS 3006 Ext. 7952

\_\_\_\_ Charlene Cooper-Day  
MS 3803 Ext. 7452

\_\_\_\_ Julia Martinez  
MS 3706 Ext. 7956

✓ \_\_\_\_ Jerry Wristers  
MS 3703 Ext. 6789

\_\_\_\_ Record Center MS A106

\_\_\_\_ Addressee

✓ \_\_\_\_ Regulatory File

✓ \_\_\_\_ Viewstar

*Orig* \_\_\_\_ Mike Hebertson  
Utah Department of Natural Resources  
Division of Oil, Gas, & Mining  
1594 West North Temple - Suite 1210  
Salt Lake City, Utah 84114-5801  
(801) 538-5340  
(801) 359-3940 (Fax)

\_\_\_\_ Robert Larsen  
Bureau of Land Management  
PO Box 7  
435 North Main  
Monticello, UT 84535  
(801) 587-2141  
Fax (801) 587-2564

\_\_\_\_ Marty Talbott  
Union Pacific Resources Company  
4940 East Chalk Creek Road  
Coalville, UT 84017-0527  
(801) 336-5631  
✓ (801) 336-5635 (Fax)

\_\_\_\_ Gary Torres  
Bureau of Land Management  
PO Box 970  
82 East Dogwood  
Moab, UT 84532  
(801) 259-6111

\_\_\_\_ Pete Straub  
Union Pacific Resources Company  
86 Allegiance Circle  
Evanston, WY 82930  
(307) 789-1573  
(307) 789-1576 (Fax)

\_\_\_\_ Marty Talbott  
Union Pacific Resources  
2515 Foothill  
Rock Springs, WY 82901  
(307) 352-6023  
8-352-6023  
Fax (307) 352-6071

FORM 9

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL ( ) GAS (X) OTHER: ( ) INJ. ( )		5. Lease Designation and Serial No. Fee
2. Name of Operator Union Pacific Resources Company		6. If Indian, Allottee or Tribe Name NA
3. Address and Telephone Number P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-6000 (Main Number)		7. Unit Agreement Name NA
4. Location of Well Footages 707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E. County Summit OO. Sec. T., R., M., (NE/4NW/4) Sec. 25, T. 5 N., R. 7 E. State Utah		8. Well Name and Number UPRC CCD 846A-1RH
		9. API Well Number 43-043-30100
		10. Field and Pool, or Wildcat Cave Creek

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

**NOTICE OF INTENT**

(Submit in Duplicate)

- ( ) Abandonment
- ( ) Casing Repair
- ( ) Change of Plans
- ( ) Conversion to Injection
- ( ) Fracture Test
- ( ) Multiple Completion
- ( ) Other:
- ( ) New Construction
- ( ) Pull or Alter Casing
- ( ) Recompletion
- ( ) Shoot or Acidize
- ( ) Vent or Flare
- ( ) Water Shutoff

Approximate date work will start:

**SUBSEQUENT REPORT**

(Submit Original Form Only)

- ( ) Abandonment
- ( ) Casing Repair
- ( ) Change of Plans
- ( ) Conversion to Injection
- ( ) Fracture Test
- (X) Other: Notice of First Production
- ( ) New Construction
- ( ) Pull or Alter Casing
- ( ) Shoot or Acidize
- ( ) Vent or Flare
- ( ) Water Shut-Off Shutoff

Date of work completion \_\_\_\_\_

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

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

Please be advised that Union Pacific Resources Company has began recovering production from the above referenced well. Test data indicates the following results: 1.7 MMCFD, 768 BWPD, 120 BCPD.  
The well has been tied into the pipeline and was put to sales effective March 25, 1997.

PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
If additional information is needed, please contact the undersigned at (817) 877-7952, FAX (817) 877-7942

13.

Name/Signature: W. F. Brazelton

Title: Senior Regulatory Analyst

Date:

97-04-01

(This space for State use only)



UNION PACIFIC RESOURCES COMPANY  
P. O. Box 7, MS 3006  
Fort Worth, Texas 76101-0007  
FAX (817) 877-7942

## **FACSIMILE TRANSMISSION**

To: Christin Rosbeck

Date: 97-05-15

Location DOGM - SLC, Utah

From: W. F. (Bill) Brazelton

Time:

Phone Number: (817) 877-7952

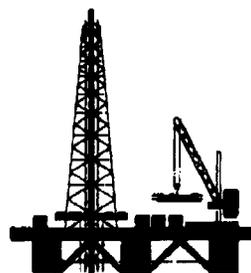
FAX Number (817) 877-7942

FAX No. (801) 359-3940

Number of Pages 2 + Cover

Accompanying fax indicates that the notice of first sales for the CCD 846A-1RH was submitted on April 1, 1997. Let me know if you need a hard copy to followup.

W. F. (Bill) Brazelton  
Senior Regulatory Analyst



If you have any questions, please contact Bill Brazelton at (817) 877-7952

The information contained in this facsimile is privileged and confidential, and is intended only for the use of the individual named above and others who have been specifically authorized to receive such. If the recipient is not the intended recipient, you are hereby notified that any dissemination, distribution, or copy of this communication is strictly prohibited.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals</small>	5. Lease Designation and Serial No. <b>Fee</b>
	6. If Indian, Allottee or Tribe Name <b>NA</b>
1. Type of Well: <b>OIL ( X ) GAS ( ) OTHER: ( ) INJ. ( )</b>	7. Unit Agreement Name <b>NA</b>
	8. Well Name and Number <b>CCD 846-A 1RH</b>
2. Name of Operator <b>Union Pacific Resources Company</b>	9. API Well Number <b>43-043-30100</b>
3. Address and Telephone Number <b>P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007 Telephone (817) 877-7664</b>	10. Field and Pool, or Wildcat <b>Cave Creek Deep</b>

4. Location of Well  
 Footages **707' FNL, 2343' FWL Sec. 25, T. 5 N., R. 7 E.** County **Summit**  
 QQ, Sec., T., R., M. **(NE/4NW/4) Sec. 25, T. 5 N., R. 7 E.** State **Utah**

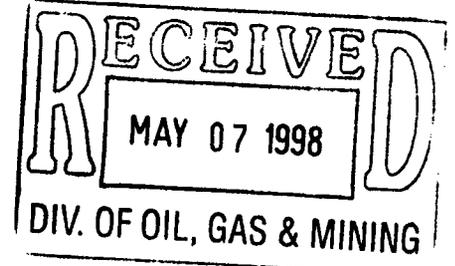
11 **CK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input type="checkbox"/> Other: _____	<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input type="checkbox"/> Other _____  Date of work completion _____  <small>Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>
Approximate date work will start: Upon Approval	

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

Union Pacific Resources Company proposes to plug and abandon the above referenced well per the attached procedure.

We will appreciate your earliest attention to, and approval of, this request.



PLEASE CONSIDER ALL SUBMITTALS PERTAINING TO THIS WELL AS "COMPANY CONFIDENTIAL"  
 If additional information is needed, please contact the undersigned at (817) 877-7664, FAX (817) 877-7942

13.

Name/Signature: David S. Petrie Title: Regulatory Advisor Date: 98-05-05

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

(This space for State use only)

DATE: 6-3-98  
 BY: D. Petrie

UNION PACIFIC RESOURCES  
CCD 846 A#1RH  
API# 49-043-30100  
SE/NW 1/4 SEC 25 T5N R7E  
SUMMIT COUNTY, UTAH  
P&A PROCEDURE - 04/29/98

PERTINENT DATA

GL: 6662'  
KB: 6682'  
Surface Casing: 20" 106.5# K-55 Cemented to surface.  
Intermediate #1: 13 3/8" & 13 5/8" 88.2#, 72.0#, & 68.0# Set @ 5750'. Cement volues UK.  
Intermediate #2: 9 5/8" 47.0# set @ 7256 Cement volumes UK.  
Production Casing: #3: 7 5/8" 39# SLX @ 3500' & 7" 32# AB Modified. @ 12543' cemented w/  
470 sx. "G" cmt top on CBL dated 8/22/95 9490'  
Production Liner: 4 1/2" 11.6# Hung off W/ a Baker Mod. F-1 retainer prod. pkr @ 11,236' - 4  
1/2" 11.6# J-55 @ 11942' - 4 1/2" 11.6# N-80 to 12639' MD. Open hole  
completion. KOP = 11,322'  
Tubing: 3 1/2" 10.2# L-80 VAM ACE. Baker "F-1" hydraulic set production packer  
@ 11070' EOTP @ 11,164'. 2.750.X Line SN's @ 11,128', 11,026' & 3120'.  
Camco SPM 3003'.  
Pkr Fluid: FW w/ 1 ppb zinc Chelate & 1.5% Champion R2383 O2 scav, biocide, and  
corrosion inhibitor.  
Phosphoria Perorations: 11943' - 12639' 4 1/2" Perfed. Liner  
PBTD: 12,639'

PROCEDURE

1. Remove production equipment and fence as needed.
2. Test anchors.
3. Ru slick line unit w/ sour service lub. Test lub. To 5000 psi. Set pump through plug in R nipple @ 11,128'. Bleed off plug to verify it is holding.
4. MIRU workover rig w/ sub, flat tank, pump, cat walk, 2 sets pipe racks. Sub must be capable of standing over 17' BOP stack. RU Norward 30' flare stack and 2 phase low pressure separator w/ sealed tank w/ ammonia scrubber. Set 2-400 bbl working tanks.

NOTE: Notify UDNR Division of Oil Gas and Mining 24 hrs. Prior to commencing plugging operations. Or BOP Tests. 801-538-5334

NOTE: Check pressures on all csg. Strings and bleed off as necessary.

5. Load tbg. W/ FW. Set BPV.

22. RIH w/ 80' of 1" TBG. Fill 7" csg and all annuluses w 70' cmt.

23. Erect 4" X 10' dry hole marker w/ at least 6' of marker above GL. Marker must have the following information on it: Operator, well name, well location, date plugged. Marker should have a 1/2" needle valve tapped into it so that it can be checked for pressure at a future date.

24. Clean and reclaim location

**NOTE:** Will have **H2S Safety supervision** on location 24 hrs. A day while P & A operation is in progress, contingency plan is in effect at all times as per WGS policy.

Well ID Number : 01109      AFE Number : A7015      Event# : 3      Report # : 1      DSS :      Depth : 11.448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL, SDFN . . .

**MUD PROPERTIES**

Weight :	Visc. :	Gels :	PV/YP :	WL :	Cake :
HTHPWL :	PH :	PF/MF :	CI :	Sand :	Solids :
Elec Stab :	K+ :	LCM :	MBT :	OWR :	Ca :
Low Gravity % :			BKGD Gas :	Trip Gas :	Conn Gas :

**MUD/ADDITIVES**

Daily / Cum Mud Lost to Hole : 0 bbls.      Daily / Cum Mud Cost : \$0 / \$0  
 Daily / Cum Water Lost to Hole : 0 bbls.

**PUMPS**

PUMP #1 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0      Std Pipe : 0      psi  
 PUMP #2 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0  
 Jet Vel. : 0.0      AV (DP) : 0.0      AV (DC) : 0.0      PSI Drop : 0.0      Bit HP : 0.0 psi ( 0% )      Bit HHP : 0.0

**BIT RUN DATA**

Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

**SURVEYS (SIDE TRACK)**

MD	Angle	TVD	Dir.	V. Sect.	+N-S	+E-W	D. L.

**BHA**

Qty	Description	O.D.	Length

Total BHA Length : 0.00

**LAST CASING / BOP**

Size : 7.000      Wt. : 32.00      Grade : L-80      Connection : LTC      Depth : 12.538      FIT : 0.00  
 Last BOP Test Date :      Accidents : N      Pollution :

HRS	OP	ACT	ACTIVITY LAST 24 HOURS
10.00	OT	OT	ARRIVE LOCATION WITH IMS, AND HALCO SLICK LINE, HOLD SAFETY MEETING. REMOVE TREE BLANKETS AND PUT THEM INSIDE HEATER HOUSE. ND TREE CAP, NU LUBE FLANGE. PU 2.749" GR, TEST LUBE TO 4M# WITH MEOH PUMP. RIH TO 3120', STACKED OUT, POOH, PU 2.7375" GR, RIH TO 3120', WORK THRU , ALSO 11020', AND 11127', SET PLUG @ 11127', POOH. OPEN TBG PRESSURE 2800# UP TO PORTABLE FLARE STACK, AND BLEED TO -0- PSI. 13:15- 16:15, 3 HRS. SECURE WELL, AND SDFN.

**COST SUMMARY**

Code	Description	Costs
3005	COMPLETION RIG	2,415
3006	CONTRACT SUPERVISION	600
4503	SURFACE TOOLS & SVCS	375
5006	COMMUNICATIONS	75
5099	GATE GUARD	300
5099	SERVICES-INTERMOUNTAI	615
7006	HALCO SLICK LINE	10,735
7504	CONTINGENCY @ 5%	756

10.00 = Total Hours Today      Foreman : COOPER/ST. PIERRE

Daily Total Cost ;      \$15.871  
 Cumulative Cost to Date      \$15.871



Well ID Number : 01109      AFE Number : A7015      Event# : 3      Report #: 2      DSS : 1      Depth : 11.448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL SDFN ...

MUD PROPERTIES

Weight :	Visc. :	Gels :	PV/YP :	WL :	Cake :
HTHPWL :	PH :	PF/MF :	Cl :	Sand :	Solids :
Elec Stab :	K+ :	LCM :	MBT :	OWR :	Ca :
Low Gravity % :			BKGD Gas :	Trip Gas :	Conn Gas :

MUD ADDITIVES

Daily / Cum Mud Lost to Hole :	0	bbls.	Daily / Cum Mud Cost :	\$0	/ \$0
Daily / Cum Water Lost to Hole :	0	bbls.			

PUMPS

PUMP #1 :	Liner Size :	0.000	Stroke Length :	0.00	SPM :	0	GPM :	0	Std Pipe :	0	psi
PUMP #2 :	Liner Size :	0.000	Stroke Length :	0.00	SPM :	0	GPM :	0			
Jet Vel. :	0.0	AV (DP) :	0.0	AV (DC) :	0.0	PSI Drop :	0.0	Bit HP :	0.0	psi ( 0% )	Bit HHP : 0.0

BIT RUN DATA

Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

SURVEYS - SIDETRACKS

MD	Angle	TVD	Dir.	V. Sect.	+N-S	+E-W	D. L.

BHA

Qty	Description	O.D.	Length
Total BHA Length :			0.00

LAST CASING / BOP

Size : 7.000      Wt. : 32.00      Grade : L-80      Connection : LTC      Depth : 12.538      FIT : 0.00  
 Last BOP Test Date :      Accidents : N      Pollution :

ACTIVITY LAST 24 HOURS

HRS	OP	ACT	ACTIVITY LAST 24 HOURS
13.00	OT	OT	ARRIVE LOCATION, HOLD SAFETY MEETING. CHECK PRESSURES. SITP 100#. RU HB&R HOTOILER, AND DENNIES WATER SERVICE. ND TREE CAP, NU 3 1/8" 5M# X 2 7/8" 8 RD. FLANGE, PUMP 150 BBL OF WATER DOWN TBG. SET FMC BPV. SHUT IN. SET MATS. FINISH MIRU KEY ROCKIES RIG 370, ND TREE, NU BOPE.  NOTE: WHILE NU BOP, TAILING IN DOUBLE GATE WITH FORKLIFT AND CHAIN, CHAIN CAME LOOSE AND LET BOP SWING INTO EXTENDED NECK TBG. HANGER BENDING IT. I DONT THINK THERE IS ANY IT US REPAIRABLE.

COST SUMMARY

Code	Description	Costs
3005	COMPLETION RIG	3,610
3006	CONTRACT SUPERVISION	600
3505	WATER	660
4503	SURFACE TOOLS & SVCS	1,330
5006	COMMUNICATIONS	75
5099	GATE GUARD	300
5099	SERVICES-FMC	667
5099	SERVICES-INTERMOUNTAI	538
7009	HOT OIL	339
7504	CONTINGENCY @ 5%	406

13.00 = Total Hours Today      Foreman : COOPER/ST. PIERRE      Daily Total Cost : \$8,525      Cumulative Cost to Date : \$24,396

Well ID Number : Q1109      AFE Number : A7015      Event# : 3      Report # : 3      DSS : 2      Depth : 11.448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL, SDFN...

**MUD PROPERTIES**

Weight : HTHPWL :	Visc. : PH :	Gels : PF/MF :	PV/YP : CI :	WL : Sand :	Cake : Solids :
Elec Stab : Low Gravity % :	K+ :	LCM :	MBT :	OWR :	Ca :
			BKGD Gas :	Trip Gas :	Conn Gas :

**MUD ADDITIVES**

Daily / Cum Mud Lost to Hole : 0      bbls.      Daily / Cum Mud Cost :      \$0 / \$0  
 Daily / Cum Water Lost to Hole : 0      bbls.

**PUMPS**

PUMP #1 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0      Std Pipe : 0      psi  
 PUMP #2 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0  
 Jet Vel. : 0.0      AV (DP) : 0.0      AV (DC) : 0.0      PSI Drop : 0.0      Bit HP : 0.0 psi ( 0% )      Bit HHP : 0.0

**BIT RUN DATA**

Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

**SURVEYS, SIDETRACKS**

MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D. L.

**BHA**

Qty	Description	O.D.	Length
Total BHA Length :			<u>0.00</u>

**LAST CASING/BOP**

Size : 7.000      Wt. : 32.00      Grade : L-80      Connection : LTC      Depth : 12.538      FIT : 0.00  
 Last BOP Test Date :      Accidents : N      Pollution :

**ACTIVITY LAST 24 HOURS**

HRS	OP	ACT	ACTIVITY LAST 24 HOURS
14.50	OR	OR	ARRIVE LOCATION, HOLD SAFETY MEETING. STRING BACK TO SINGLE FAST.SET LAST FRAC TANK.RU DOUBLE JACK, TEST BOPE, 5M# HIGH, 300 LOW, TEST ANNULAR TO 3500 HIGH, 300 LOW. UNABLE TO TEST BLINDS, OR LOWER PIPES, WILL DO THIS WHEN WE GET 3 1/2" TBG. LAID DOWN. RU WESTATES CASING TONGS AND LD MACHINE. PULL OUT OF SEAL BORE, LD EXTENDED NECK HANGER, AND SEND INTO WGS FOR SHIPMENT TO OKC. LD 12 JTS., WELL FLOWING. PUMP 120 BBL OF WATER DOWN BACK SIDE. LD 30 JTS. WELL FLOWING. PUMP 80 BBL DOWN TBG, AND 40 BBL DOWN BACK SIDE. LD 50 JTS. OF 3 1/2" 10.2# L-80 VAM ACE, 2- 10' FLOW COUPLINGS, AND MEOH INJECTION MANDREL. SECURE WELL, SDFN.

**COST SUMMARY**

Code	Description	Costs
3001	MOBIDE-MOB	2,898
3005	COMPLETION RIG	3,914
3006	CONTRACT SUPERVISION	600
3505	WATER	820
4503	SURFACE TOOLS & SVCS	1,330
5006	COMMUNICATIONS	75
5099	GATE GUARD	300
5099	SERVICES-FMC	814
5099	SERVICES-INTERMOUNTAI	624
5503	TRANSPORTATION LAND	120
7005	PACKER FLUIDS	1,803
7006	HALCO SLICK LINE	2,514
7504	CONTINGENCY @ 5%	791

14.50 = Total Hours Today      Foreman : COOPER/ST. PIERRE

Daily Total Cost ;      \$16,603  
 Cumulative Cost to Date      \$40,999

Well ID Number : 01109      AFE Number : A7015      Event# : 3      Report #: 4      DSS : 3      Depth : 11,448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL SDFN . . .

MUD PROPERTIES					
Weight :	Visc. :	Gels :	PV/YP :	WL :	Cake :
HTHPWL :	PH :	PF/MF :	CI :	Sand :	Solids :
Elec Stab :	K+ :	LCM :	MBT :	OWR :	Ca :
Low Gravity % :			BKGD Gas :	Trip Gas :	Conn Gas :

MUD/ADDITIVES					
Daily / Cum Mud Lost to Hole :	0	bbls.	Daily / Cum Mud Cost :	\$0	/ \$0
Daily / Cum Water Lost to Hole :	0	bbls.			

PUMPS					
PUMP #1 :	Liner Size : 0.000	Stroke Length : 0.00	SPM : 0	GPM : 0	Std Pipe : 0 psi
PUMP #2 :	Liner Size : 0.000	Stroke Length : 0.00	SPM : 0	GPM : 0	
Jet Vel. : 0.0	AV (DP) : 0.0	AV (DC) : 0.0	PSI Drop : 0.0	Bit HP : 0.0 psi ( 0% )	Bit HHP : 0.0

BIT RUN DATA																							
Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

SURVEYS SIDETRACK							
MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D. L.

BHA			
Qty	Description	O.D.	Length
Total BHA Length :			0.00

LAST CASING / BOP					
Size :	7.000	Wt. : 32.00	Grade : L-80	Connection : LTC	Depth : 12.538
Last BOP Test Date :		Accidents : N	Pollution :		FIT : 0.00

HRS	OP	ACT	ACTIVITY LAST 24 HOURS
14.50	OT	OT	ARRIVE LOCATION. CHECK PRESSURES, SICP = 600 PSI, SITP = 380 PSI. HOLD SAFETY MEETING. PUMP 120 BBL WATER DOWN BACK SIDE, PUMP 80 BBL DOWN TBG.RU TO LD TBG. DOUBLE BACK, CHANGE ELEVATORS. LD 251 JTS. 3 1/2" 10.7# L-80 VAM ACE. 4- 10' FLOW COUPLINGS, 2- OTIS X NIPPLES, WHILE PUMPING 3/4 BPM OF WATER DOWN BACK SIDE. LOAD OUT AND SEND 343 JTS. OF TBG. 6- 3 1/2" FLOW COUPLINGS. AND 2 BAKER X- NIPPLES TO TUBOSCOPE FOR CLEANING AND INSPECTION, ALL WITH THREAD PROTECTORS. RU OWP, PU 5.835" GR, AND JUNK BASKET. NU LUBE AND TEST TO 2M#, RIH TO 11050', POOH, NOTHING IN JUNK BASKET. PU 7" HALCO EZSV OWP, RIH AND SET @ 11025', POOH, RD OWP, SECURE WELL, AND SDFN.

COST SUMMARY		
Code	Description	Costs
3001	MOB/DE-MOB	4,135
3005	COMPLETION RIG	3,673
3006	CONTRACT SUPERVISION	600
3505	WATER	760
4503	SURFACE TOOLS & SVCS	1,330
5006	COMMUNICATIONS	75
5099	GATE GUARD	300
5099	NORWARD	950
5099	SERVICES-INTERMOUNTAI	816
5503	TRANSPORTATION LAND	665
7006	OWP	7,474
7504	CONTINGENCY @ 5%	1,039

14.50 = Total Hours Today      Foreman : COOPER/ST. PIERRE      Daily Total Cost : \$21,817      Cumulative Cost to Date : \$62,816

Well ID Number : 01109      AFE Number : A7015      Event# : 3      Report #: 5      DSS : 4      Depth : 11.448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL, SDFN ...

MUD PROPERTIES

Weight :	Visc. :	Gels :	PV/YP :	WL :	Cake :
HTHPWL :	PH :	PF/MF :	CI :	Sand :	Solids :
Elec Stab :	K+ :	LCM :	MBT :	OWR :	Ca :
Low Gravity % :			BKGD Gas :	Trip Gas :	Conn Gas :

MUD ADDITIVES

Daily / Cum Mud Lost to Hole : 0 bbls.      Daily / Cum Mud Cost : \$0 / \$0  
 Daily / Cum Water Lost to Hole : 0 bbls.

PUMPS

PUMP #1 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0      Std Pipe : 0      psi  
 PUMP #2 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0  
 Jet Vel. : 0.0      AV (DP) : 0.0      AV (DC) : 0.0      PSI Drop : 0.0      Bit HP : 0.0 psi ( 0% )      Bit HHP : 0.0

BIT RUN DATA

Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

SURVEYS / SIDETRACK

MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D. L.

BHA

Qty	Description	O.D.	Length

Total BHA Length : 0.00

LAST CASING / BOP

Size : 7.000      Wt. : 32.00      Grade : L-80      Connection : LTC      Depth : 12.538      FIT : 0.00  
 Last BOP Test Date :      Accidents : N      Pollution :

HRS	OP	ACT	ACTIVITY LAST 24 HOURS
12.00	OT	OT	ARRIVE LOCATION. CHECK PRESSURE, SICP 1480 PSI ( SWEET GAS), BLEED OFF THROUGH NORWARD FLARE STACK. RU LD MACHINE, PU 351 JTS 2 7/8" 6.5# L-80 EUE 8 RD. 11040' W/ 16' OF PUPS. STING INTO CICR. RU DS, TEST LINES TO 5M#. TEST BACK SIDE TO 2M#, AND SHUT IN W/ SAME AND MONITOR. PUMP 10 BBL OF WATER, 340* SX. OF "G" W/ 1% D-85, .15% B-71, AND .7% B-14, MIXED @ 15.8 PPG, YEILD 1.15, 69.6 BBL OF SLURRY. DISPLACE W/ 59 BBL OF WATER. LD PUPS AND 5 JTS OF TBG. AND REVERSE OUT W/ 70 BBL OF WATER, REVERSED OUT 1 BBL OF CEMENT. SOPT 135 BBL OF PACKER FLUID, WT. 8.7 PPG W/ SALT, 1 PPB KNOCK OUT 1200 (ZINC CHELATE), AND 1.5% CHAMPION R2383. LD 5 JTS TBG. AND SECURE WELL, SDFN.

COST SUMMARY		
Code	Description	Costs
3005	COMPLETION RIG	3,169
3006	CONTRACT SUPERVISION	600
4503	SURFACE TOOLS & SVCS	1,330
5004	CSG/TUBING CREW SVCS	6,426
5006	COMMUNICATIONS	75
5099	GATE GUARD	300
5099	SERVICES-INTERMOUNTAI	624
7504	CONTINGENCY @ 5%	626

Daily Total Cost ;      \$13,150  
 Cumulative Cost to Date      \$75,966

12.00 = Total Hours Today      Foreman : COOPER/ST. PIERRE

Well ID Number : 01109      AFE Number : A7015      Event# : 3      Report # : 6      DSS : 5      Depth : 11.448  
 Contractor : KEY ROCKIES      Rig Name : RIG 370      Footage : 0  
 AFE TD/DHC/CWC : 12.550 /      /      OART : SECURE WELL, SDFN...

**MUD PROPERTIES**

Weight : HTHPWL :	Visc. : PH :	Gels : PF/MF :	PV/YP : CI :	WL : Sand :	Cake : Solids :
Elec Stab :	K+ :	LCM :	MBT :	OWR :	Ca :
Low Gravity % :			BKGD Gas :	Trip Gas :	Conn Gas :

**MUD ADDITIVES**

Daily / Cum Mud Lost to Hole : 0 bbls.      Daily / Cum Mud Cost : \$0 / \$0  
 Daily / Cum Water Lost to Hole : 0 bbls.

**PUMPS**

PUMP #1 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0      Std Pipe : 0      psi  
 PUMP #2 :      Liner Size : 0.000      Stroke Length : 0.00      SPM : 0      GPM : 0  
 Jet Vel. : 0.0      AV (DP) : 0.0      AV (DC) : 0.0      PSI Drop : 0.0      Bit HP : 0.0 psi ( 0% )      Bit HHP : 0.0

**BIT RUN DATA**

Run	Bit#	Size	Mfg.	Model	Bit In	Bit Out	I	O	D	L	B	G	O	R	J1	J2	J3	WOB	RPM	Ftg.	Hrs.	ROP	

Pick Up Wt. :      Slack Off Wt. :      Rot Wt. :      Torque :

**SURVEYS SIDETRACK#**

MD	Angle	TVD	Dir.	V. Sect.	+N/-S	+E/-W	D. L.

**BHA**

Qty	Description	O.D.	Length

Total BHA Length : 0.00

**LAST CASING / BOP**

Size : 7.000      Wt. : 32.00      Grade : L-80      Connection : LTC      Depth : 12.538      FIT : 0.00  
 Last BOP Test Date :      Accidents : N      Pollution :

**ACTIVITY LAST 24 HOURS**

HRS	OP	ACT
9.00	OT	OT

ARRIVE LOCATION. CHECK PRESSURES. SICP 150 PSI. BLEED OFF TO NORWARD FLARE STACK. (SWEET GAS). LD TBG TO 3500' RU DS. PUMP 10 BBL OF WATER, 35 SX. OF "G" W. 1% D-85, AND .15% B-71. 15.8 PPG, 1.15 YEILD 7 BBL OF SLURRY. PLUG FROM 3500' TO 7150, LD TBG TO 3500', PLUG #3 3500- 3300 SAME CEMENT. PLUG # 4 200'- 32', 35 SX. "G" W 2% CACL2. CLEAN CHOKE MANIFOLD AND BOP VALVES, RD DS, LD 7 JTS. TBG. RD TO MO, SECURE WELL, SDF SUNDAY.

*PEA for this well*

**COST SUMMARY**

Code	Description	Costs
3005	COMPLETION RIG	2,791
3006	CONTRACT SUPERVISION	600
4503	SURFACE TOOLS & SVCS	1,330
5004	CSG/TUBING CREW SVCS	5,594
5006	COMMUNICATIONS	75
5010	ANCHOR HANDLING	749
5011	TUBULAR INSPECTION/VA	2,757
5099	GATE GUARD	300
5099	NORWARD	1,727
5099	SERVICES-INTERMOUNTAI	624
6006	SQUEEZE/PLUGS	15,349
7006	HALCO EZSV CICR & SERVI	3,600
7504	CONTINGENCY @ 5%	1,775

Daily Total Cost ; \$37,271  
 Cumulative Cost to Date \$113,237

9.00 = Total Hours Today      Foreman : COOPER/ST. PIERRE

**DAILY COMPLETION AND WORKOVER REPORT**

01109

**UPRC CCD 846 A #1RH**

**EVENT#: 3**

**COMP#: 03**

**DATE: 6/15/98**

Rig Name : RIG 370  
 Business Unit : LAND GRANT  
 Field Name : CAVE CREEK

API No : 43-043-30100  
 Team : OVERTHRUST  
 Lease :

Drig Rep : COOPER/ST. PIERRE

Start Date : 6/8/98 Days on Location : 7 MD : 11,448 TVD : 10,865 PBTD :  
 Job Descrip : P&A WELL KB :  
 Mud Type : Weight : PV/YP : 1 WL :

AFE No : A7015 Auth Cost : UPRC W.I.%:

Casing Name	OD Size	Wt.	Grade	Conn	Wellbore Item	OD Size	Wt.	Grade	Conn	Depth	Length
INTERMEDIATE#1	9.625	47.00	SS-95	LTC							
PRODUCTION	7.000	32.00	L-80	LTC							
PRODUCTION	7.625	39.00	L-80	H-SL							

Zone# Rpt Date Start Depth End Depth Density Phasing Hole Size

**Simulation Data**

Zone Nbr. : Rpt Date : Job Date : % Complete : % Contractor :  
 Job Description :  
 ACID TREATMENT : Type : Volume : ISIP : 5 min : psi Min. psi  
 Max psi : Min psi : Avg psi : Max Rate : Min Rate : Avg Rate :  
 FRACTURE TREATMENT : Vol. : # Prop. : Frac Grad :  
 Max psi : Min psi : Avg Psi : Max Rate : Min Rate : Avg Rate :  
 ISIP : 5 min : psi Min. psi Max Sd : Gas Type : Volume : Units :

Fluid Type Gel Load Dirty Amt Clean Amt Sand Tbg Psi Conc. Csg Psi

**11.50** ARRIVE LOCATION. HOLD SAFETY MEETING. START TO RIG DOWN, MOVE SUB. AND MAT. CHECK PRESSURE ON 13 3/8" 7 5/8" ANNULAS, ON A VACCUM. ND TBG. HEAD. LOAD OUT TREE, TBG. HEAD FOR OKC. LOAD OUT 3 1/2" SEAL ASS'Y. FOR BAKER (EVANSTON), AND CHEMICAL INJECTION MANDREL TO WGS YARD FOR SHIPPMENT TO CAMCO HOUSTON. FINNISH RD. LOAD OUT 222 JTS. OF 2 7/8" 6.5# L-80 EUE 8 RD. AND SHIP TO ICO (CASPER). LOAD OUT ALL WEATHERFORD RENTALS AND RETURN TO EVANSTON. HAUL OFF 4 LOADS 400 BBL. OF WATER TO CARPENTER DISPOSAL. SITLL HAVE 3-4 LOADS OF RIG ON LOCATION, AND 5 FRAC TANKS AND 500 BBL OF WATER TO DISPOSE OF.

Code	Description	Cost
3005	COMPLETION RIG	\$3,168.00
7504	CONTINGENCY @ 5%	
3006	CONTRACT SUPERVISION	\$600.00
4503	SURFACE TOOLS & SVCS	\$1,330.00
5099	SERVICES-INTERMOUNTAIN SAFE	\$624.00
7006	OWP	
5099	GATE GUARD	\$300.00
5006	COMMUNICATIONS	\$75.00
5099	SERVICES-FMC	
7009	HOT OIL	
3505	WATER	\$310.00
7005	PACKER FLUIDS	\$3,027.00
3001	MOBIDE-MOB	
5503	TRANSPORTATION LAND	
5099	NORWARD	\$1,283.00
5004	CSG/TUBING CREW SVCS	
5011	TUBULAR INSPECTION/TESTING	\$273.00

Total Daily Cost : **\$10,990**

Cumulative Cost to Date : **\$124,227**

Time : 17:00 Temp : 58 Winds : 3 / 5 Waves : 1

Fluid Lost to Formation (bbls) : Daily : Cumulative : 0.0

**DAILY COMPLETION AND WORKOVER REPORT**

01109

UPRC CCD 846 A #1RH

EVENT#: 3

COMP#: 03

DATE: 6/16/98

Rig Name : RIG 370 API No : 43-043-30100  
 Business Unit : LAND GRANT Team : OVERTHRUST  
 Field Name : CAVE CREEK Lease : \_\_\_\_\_ Orig Rep : COOPER/ST. PIERRE

Start Date : 6/8/98 Days on Location : 8 MD : 11.448 TVD : 10.865 PBD : \_\_\_\_\_  
 Job Descrip : P&A WELL KB : \_\_\_\_\_  
 Mud Type : \_\_\_\_\_ Weight : \_\_\_\_\_ PV/YP : / WL : \_\_\_\_\_

AFE No : A7015 Auth Cost : \_\_\_\_\_ UPRC W.I.%: \_\_\_\_\_

Casing Name	OD Size	Wt.	Grade	Conn	Wellbore Item	OD Size	Wt.	Grade	Conn	Depth	Length
INTERMEDIATE#1	9.625	47.00	SS-95	LTC							
PRODUCTION	7.000	32.00	L-80	LTC							
PRODUCTION	7.625	39.00	L-80	H-SL							

Zone# Rpt Date Start Depth End Depth Density Phasing Hole Size

Zone Nbr. :	Rpt Date :	Job Date :	% Complete :	% Contractor :
Job Description :				
ACID TREATMENT : Type :	Volume :	ISIP :	5 min :	psi Min. psi
Max psi :	Min psi :	Avg psi :	Max Rate :	Min Rate :
FRACTURE TREATMENT : Vol. :	# Prop. :	Frac Grad :	Min Rate :	Avg Rate :
Max psi :	Min psi :	Avg Psi :	Max Rate :	Min Rate :
ISIP :	5 min :	psi Min. psi	Max Sd :	Gas Type : Volume : Units :

Fluid Type Gel Load Dirty Amt Clean Amt Sand Tbg Psi Conc. Csg Psi

11.00 ARRIVE LOCATION. HOLD SAFETY MEETING. FINISH RDMO, FINISH HAULING FLUIDS TO CARPENTER DISPOSAL, HAUL OFF 4- FRAC TANKS. 1- LEFT ON LOCATION, WILL GET IT FIRST CHANCE. ALL RENTALS RELEASED. REPORTS SUSPENDED UNTIL TOP OUT.

Code	Description	Cost
3005	COMPLETION RIG	\$1,027.00
7504	CONTINGENCY @ 5%	\$268.00
3006	CONTRACT SUPERVISION	\$600.00
4503	SURFACE TOOLS & SVCS	\$1,330.00
5099	SERVICES-INTERMOUNTAIN SAFE	\$624.00
7006	OWP	
5099	GATE GUARD	\$300.00
5006	COMMUNICATIONS	\$75.00
5099	SERVICES-FMC	
7009	HOT OIL	
3505	WATER	
7005	PACKER FLUIDS	
3001	MOBIDE-MOB	
5503	TRANSPORTATION LAND	
5099	NORWARD	\$561.00
5004	CSG/TUBING CREW SVCS	
5011	TUBULAR INSPECTION/TESTING	
5009	DOUBLE JACK TESTING	\$840.00

Total Daily Cost : \$5,625

Cumulative Cost to Date : \$129,852

Time : 17:00 Temp : 45 Winds : / Waves : /

Fluid Lost to Formation (bbls) : Daily : \_\_\_\_\_ Cumulative : 0.0

**DAILY COMPLETION AND WORKOVER REPORT**

01109

UPRC CCD 846 A #1RH

EVENT#: 3

COMP#: 03

DATE: 6/22/98

Rig Name : **RIG 370**  
 Business Unit : **LAND GRANT**  
 Field Name : **CAVE CREEK**

API No : **43-043-30100**  
 Team : **QVERTHRUST**  
 Lease :

Drig Rep : **COOPER/ST. PIERRE**

Start Date : **6/8/98** Days on Location : **2** MD : **11,448** TVD : **10,865** PBTD :  
 Job Descrip : **P&A WELL** Mud Type : Weight : PV/YP : / KB :  
 WL :

AFE No : **A7015**

Auth Cost :

UPRC W.I.%:

Casing Name	OD Size	Wt.	Grade	Conn
INTERMEDIATE#1	9.625	47.00	SS-95	LTC
PRODUCTION	7.000	32.00	L-80	LTC
PRODUCTION	7.625	39.00	L-80	H-SL

Wellbore Item	OD Size	Wt.	Grade	Conn	Depth	Length
---------------	---------	-----	-------	------	-------	--------

Zone# Rpt Date Start Depth End Depth Density Phasing Hole Size

Zone Nbr. : Rpt Date : Job Date : % Complete : % Contractor :

Job Description :  
 ACID TREATMENT : Type : Volume : ISIP : 5 min : psi Min. psi  
 Max psi : Min psi : Avg psi : Max Rate : Min Rate : Avg Rate :  
 FRACTURE TREATMENT : Vol. : # Prop : Frac Grad :  
 Max psi : Min psi : Avg Psi : Max Rate : Min Rate : Avg Rate :  
 ISIP : 5 min : psi Min. psi Max Sd : Gas Type : Volume : Units :

Fluid Type Gel Load Dirty Amt Clean Amt Sand Tbg Psi Conc. Csq Psi

3.00 ARRIVE LOCATION. HOLD SAFETY MEETING. RU DS, SHORT TRUCKING, AND DENNIES WATER SERVICE. PU 60'OF 1" LINE PIPE. LOAD 7 5/8", MIX AND PUMP 10 BBL OF CEMENT, FILLED ALL ANNULASES WITH THE 10 BBL. WASH UP AND RD DS, SHORT TRUCKING, AND DENNIES WATER SERVICE. PLUGS IN PLACE AND P&A COMPLETE, WELL TURNED TO ELKHORN CONSTRUCTION FOR DRY HOLE MARKER. MIXED A TOTAL OF 50 SX. OF CEMENT, "G" W/ 2 % CACL2, WT = 15.8 PPG. YEILD = 1.15.

\*\*\*\*\*FINAL REPORT\*\*\*\*\*

Date	Description	Cost
7504	CONTINGENCY @ 5%	\$980.00
3006	CONTRACT SUPERVISION	\$600.00
5099	GATE GUARD	
7009	HOT OIL	
3505	WATER DISPOSAL	\$3,076.00
3505	WATER	\$215.00
3001	MOBIDE-MOB	\$9,701.00
5503	TRANSPORTATION LAND	\$2,995.00
5011	TUBULAR INSPECTION/TESTING	
5099	SERVICES-BOOM TRUCK	\$285.00
6006	SQUEEZE/PLUGS DS	\$2,725.00

Total Daily Cost : **\$20,577**

Cumulative Cost to Date : **\$150,429**

Time : **17:00** Temp : **75** Winds : / Waves : /

Fluid Lost to Formation (bbls) : Daily : Cumulative : **0.0**

# Cementing Service Report

**Schlumberger**  
Dowell

Customer Union Pacific Resources, Inc		Job Number 20086086	
Well Cave Creek Deep 846A 1RH Cave Creek Deep 846A 1	Location (legal) Cave Creek	Dowell Location Rock Springs, WY	Job Start 6/23/98
Field Cave Creek	Formation Name/Type	Deviation 0	Bit Size 0 in
County Summit	State/Province Utah	BHP 0 psi	BHST 0 °F
Rig Name	Drilled For Oil	Service Via Land	BHCT 0 °F
Offshore Zone	Well Class Old	Well Type Rigless	Pore Press. Gradient 0 psi/ft
Drilling Fluid Type	Max Density 0 lb/gal	Plastic Viscosity 0 cp	Casing/Liner Depth, ft   Size, in   Weight, lb/ft   Grade   Thread
Service Line Cementing	Job Type Plug & Abandon		Tubing/Drill Pipe Depth, ft   Size, in   Weight, lb/ft   Grade   Thread
Max. Allowed Tubing Pressure 0 psi	Max. Allowed Ann. Pressure 0 psi	WellHead Connection	Perforations/Open Hole Top, ft   Bottom, ft   spf   No. of Shots   Total Interval
Service Instructions Perform top out down one inch pipe per customers instruction Load Neat cement with S1 on side			Treat Down None
			Displacement 0 bbl
			Packer Type None
			Packer Depth 0 ft
			Tubing Vol. 0 bbl
			Casing Vol. 0 bbl
			Annular Vol. 0 bbl
			OpenHole Vol 20 bbl
Casing/Tubing Secured <input type="checkbox"/>	1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>		Casing Tools
Lift Pressure: <input type="checkbox"/> psi			Squeeze Job
Pipe Rotated <input type="checkbox"/>	Pipe Reciprocated <input type="checkbox"/>		Shoe Type:
No. Centralizers: 0	Top Plugs: 0	Bottom Plugs: 0	Squeeze Type
Cement Head Type:			Shoe Depth: 0 ft
Job Scheduled For: 6/19/98	Arrived on Location: 6/22/98 8:00	Leave Location: 6/22/98 10:00	Tool Type:
			Stage Tool Type:
			Tool Depth: 0 ft
			Stage Tool Depth: 0 ft
			Tail Pipe Size: 0 in
			Collar Type:
			Tail Pipe Depth: 0 ft
			Collar Depth: ft
			Sqz Total Vol: 0 bbl

Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bpm			
8:41	0	0	0	0	0	0	START EDT
8:41	0	0	0	0	0	0	START ACQUISITION
8:41	0	8.144	4283	0	0	0	
8:42	0	0	0	0	0	0	PAUSE EDT
8:42	0	0	0	0	0	0	PAUSE ACQUISITION
8:51	0	8.413	2.936	2.729	0	0	RESTART AFTER PAUSE
8:51	0	0	0	0	0	0	RESTART AFTER PAUSE
8:52	2394	8.397	3.494	0	0	0	
8:53	2394	8.486	2.919	0	0	0	
8:53	2394	8.525	6.484	0	0	0	
8:54	7473	8.433	51.12	1.094	0	0	
8:54	1.297	8.42	53.5	1.099	0	0	
8:55	1.847	8.408	50.14	1.098	0	0	
8:55	2.396	8.409	47.37	1.094	0	0	
8:56	2.944	8.398	46.44	1.092	0	0	
8:56	3.493	8.4	45.98	1.098	0	0	
8:57	4.041	8.402	45.13	1.091	0	0	
8:57	4.588	8.402	43.03	1.091	0	0	
8:58	5.136	8.403	45.43	1.097	0	0	
8:58	5.683	8.403	44.82	1.092	0	0	
8:59	6.23	8.41	42.3	1.09	0	0	
8:59	6.777	8.413	41.9	1.089	0	0	



Well		Field			Service Date	Customer	Job Number
Deep 846A 1RH #Cave Creek Deep		Cave Creek				Union Pacific Resources, Inc	20066086
Time	CumVol	Density	Pressure U1	TotFlowrate	Message		
24 hr clock	bbl	ppg	psi	bpm			
9:26	23.79	15.81	4.357	0	0	0	
9:27	23.79	15.81	3.412	0	0	0	
9:27	0	0	0	0	0	0	PAUSE EDT
9:27	0	0	0	0	0	0	PAUSE ACQUISITION
9:45	0	0	0	0	0	0	STOP EDT
Post Job Summary							
Average Pump Rates, bpm				Volume of Fluid Injected, bbl			
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2
1	0	0	1	10	0	0	0
Treating Pressure Summary, psi				Breakdown Fluid			
Maximum	Final	Average	Bump Plug to	Breakdown	Type	Volume	Density
0	0	0	0	0		0 bbl	0 lb/gal
Avg. N2 Percent		Designed Slurry Volume		Displacement		Cement Circulated to Surface? Volume 0 bbl	
0 %		0 bbl		10 bbl		Washed Thru Fert To 0 ft	
Customer or Authorized Representative				Dowell Supervisor			
Bobby Cooper-				Timothy Stroth			
				<input type="checkbox"/> CirculationLost		<input checked="" type="checkbox"/> Job Completed	

**STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial No.	Fee
6. If Indian, Allotee or Tribe Name	NA
7. Unit Agreement Name	NA
8. Well Name and Number	CCD 846-A 1RH
9. API Well Number	43-043-30100
10. Field and Pool, or Wildcat	Cave Creek Deep

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well: OIL (  ) GAS ( ) OTHER: ( ) INJ. ( )

2. Name of Operator  
Union Pacific Resources Company

3. Address and Telephone Number  
P. O. Box 7 MS 3006 Fort Worth, Texas 76101-0007  
Telephone (817) 877-6739

4. Location of Well

Footages	707' FNL, 2343' FwL	County	Summit
QQ, Sec., T., R., M.	(NENW) Sec. 25, T5N-R7E	State	Utah

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Recompletion	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input checked="" type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Test	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off Shutoff
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shutoff	<input type="checkbox"/> Other _____	
<input type="checkbox"/> Other:			

Approximate date work will start: Upon Approval

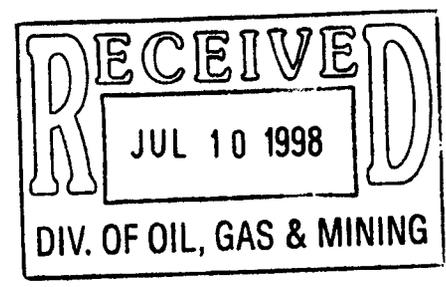
Date of work completion \_\_\_\_\_

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

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

Union Pacific Resources Company has plugged the subject well as outlined in the attached procedures. Cementing reports are attached.

*6.8.98 PA date*



13. Name/Signature: Dorothy Moravek. *Dmoravek* Title: Regulatory Analyst Date: 7/9/98

(This space for State use only)

**STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING**

5. Lease Designation and Serial No. Fee
6. If Indian, Allottee or Tribe Name NA
7. Unit Agreement Name NA
8. Well Name and Number CCD 846-A 1RH
9. API Well Number 43-043-30100
10. Field and Pool, or Wildcat Cave Creek Deep

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well:  
OIL (  )    GAS (    )    OTHER: (    ) INJ. (    )

2. Name of Operator  
**Union Pacific Resources Company**

3. Address and Telephone Number  
P. O. Box 7    MS 3006    Fort Worth, Texas 76101-0007  
Telephone (817) 321-6739

4. Location of Well

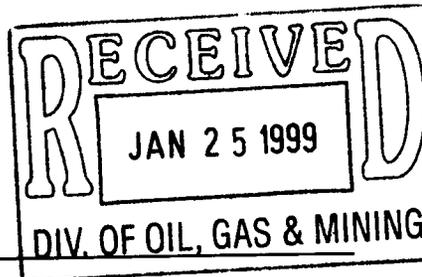
Footages	707' FNL, 2343' FwL	County	Summit
QQ, Sec., T., R., M.	(NENW) Sec. 25, T5N-R7E	State	Utah

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

NOTICE OF INTENT <small>(Submit in Duplicate)</small>	SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Test <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shutoff <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot of Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off Shutoff <input type="checkbox"/> Other _____
Approximate date work will start: Upon Approval	Date of work completion _____ Report results of Multiple Completions and Reclamations to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.

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

As advised by sundry on 7/9/98, Union Pacific Resources Company has plugged the subject well. The location has been reclaimed and is ready for inspection and release from Bond.



13. Name/Signature: Dorothy Moravek. *D Moravek* Title: Regulatory Analyst Date: 1/21/99

(This space for State use only)