

CONTINGENCY PLAN  
FOR  
GULF OIL CORPORATION

HALLS FEDERAL UNIT 1-13-3C  
UTAH COUNTY, UTAH

JUNE 1983

Contingency and evacuation plan for the protection of personnel and the general public while drilling and/or in the event of a disaster in the presence of H<sub>2</sub>S.

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CONTINGENCY PLAN  
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I. PURPOSE

The purpose of this plan is to Safeguard the lives of Company, contract personnel and the general public in the event of equipment failures and/or disaster occasioned by the drilling of formations which may contain H<sub>2</sub>S (Hydrogen Sulphide) and CO<sub>2</sub> (Carbon Dioxide).

Gulf Oil Corporation has inaugurated practices and specified materials to be used in drilling of wells to insure the safety of all personnel and the general public within the bounds of current knowledge and equipment available at the present time. No problems are anticipated in safely drilling wells; however, as further precaution, this contingency and evacuation plan has been prepared and adopted to provide a means of ensuring the safety of personnel and the general public, should a disaster occur.

GENERAL

DESCRIPTION OF HYDROGEN SULFIDE GAS:

H<sub>2</sub>S is a colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations or over long periods of exposure, the sense of smell may be paralyzed. H<sub>2</sub>S is extremely toxic gas that must be treated with extreme care to prevent injury to people. H<sub>2</sub>S is heavier than air (specific gravity = 1.19) and on still days tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the H<sub>2</sub>S gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

TOXICITY OF HYDROGEN SULFIDE GAS

	<u>Grains/100</u> <u>Std. Cu. Ft.</u>	
10 ppm = 1/1000 of 1%	0.65	Can Smell Safe for 8 hours exposure
100 ppm = 1/100 of 1%	6.48	Kills Smell in 3 to 15 min. May Sting Eyes and Throat
200 ppm = 2/100 of 1%	12.96	Kills Smell Shortly Stings Eyes and Throat
500 ppm = 5/100 of 1%	32.96	Losses Sense of Reasoning and Balance Respiratory Paralysis in 30 to 45 minutes Needs Prompt Artificial Resuscitation Will Become Unconscious Quickly (15 minutes Maximum)
700 ppm = 7/100 of 1%	45.36	Breathing Will Stop and Death Result if not Rescued Promptly Immediate Artificial Resuscitation
1,000 ppm = 1/10 of 1%	64.80	Unconscious at Once PERMANANT BRAIN DAMAGE MAY RESULT UNLESS RESCUED PROMPTLY

### III. TREATMENT PROCEDURES FOR H<sub>2</sub>S POISONING

- A. Remove the patient to fresh air.
- B. If breathing has ceased or is labored, begin artificial respiration immediately. NOTE: This is quickest and preferred method for clearing patient's lungs of contaminated air. However, under disaster conditions it may not be practical to move patient to fresh air. In such instances, where those rendering first aid must continue to wear masks, a resuscitator should be used.
- C. Keep at rest and prevent chilling.
- D. Get patient under physician's care as soon as possible.

### IV. RESPONSIBILITIES

#### A. Man-in-charge

To assure the proper and orderly execution of this plan, it is absolutely essential that one man be in complete charge of and responsible for its implementations. The ranking Production Department man on location will be this man.

#### B. Testing

During any testing of the well, such as drill stem test, all gas will be flared and any liquid will be put through a separator for flaring of dissolved gas.

Special procedures and contingency plan for production testing the well after releasing the rig will be established and approved prior to such testing.

#### C. Head Count

A log of company and contract personnel will be maintained in order to keep an accurate count of the number of and names of people on location at all times. This log shall be maintained as current as possible.

EXPOSURE TO H<sub>2</sub>S GAS: SYMPTOMS

H <sub>2</sub> S PER CENT (PPM)**	0-2 MINUTES	2-15 MINUTES	15-20 MINUTES	30 MINUTES 1 HOUR	1-4 HOURS	4-8 HOURS	8-48 HOURS
0.005 (50) 0.020 (100)				Mild Conjuncti- vitis; respira- tory tract irri- tation			
0.010 (100) 0.015 (150)		Coughing; irritation of eyes; loss of sense of smell	Disturbed respiration; pain in eyes Sleepiness	Throat irrita- tion	Salivation and mucuous discharge; sharp pain in eyes; coughing	Increased symptoms*	Hemorrhaging and death
0.015 (150) 0.020 (200)		Loss of sense of smell	Throat and eye irrita- tion	Throat and eye irrita- tion	Difficult breathing; blurred vision; light shy.	Serious irritating effects	Hemorrhaging and death
0.025 (250) 0.035 (350)	Irritation of eyes; loss of sense of smell	Irritation of eyes	Painful secretion of tears; weariness	Light shy; nasal catarrh pain in eyes; difficult breathing	Hemorrhage and death*		
0.035 (350) 0.045 (450)		Irritation of eyes; loss of sense of smell	Difficult respiration coughing; irritation of eyes	Increased irritation of of eyes and nasal tract; dull pain in head; weariness; light shy	Dizziness; weakness; increased irritation; death	Death*	
0.050 (500) 0.060 (600)	Coughing; collapse and unconscious- ness	Respiratory disturbances; irritation of eyes; collapse	Serious eye irritation; palpitation of heart; few cases of death*	Severe pain in eyes and head; dizziness; trem- bling of extrem- ities; great weakness and death*			
0.060 (600) 0.070 (700)	Collapse* unconscious- ness;	Collapse* unconsciousness;					
0.080 (800) 0.100 (1000) 0.150 (1500)	death*	death*					

\* Data secured from experiments of dogs which have a susceptibility similar to men. \*\* PPM - parts per million

## V. WELLSITE PROCEDURES AND PRECAUTIONS

### A. Location

1. Location shall be constructed large enough so that rig can be rigged up to take advantage of prevailing winds.
2. Mud tanks, shale shaker, degasser, solids removal equipment and reserve pit should be located downwind and away from substructure to provide for more ventilation.

### B. Blowout Preventor Requirements

The BOP hookup shall include 3 ram type, a Hydril and choke manifold, all 5000 psi W.P. minimum, which meets Gulf's specifications for H<sub>2</sub>S service. The contractor shall furnish to Gulf certification by the manufacturer and/or rental agency that the equipment is certified for H<sub>2</sub>S service. *(See drawing B on Exh. C)*.

### C. Blowout Preventor Pit Drills

Pit drills are for the purpose of acquainting each member of the drilling crew with his duties in the event an emergency arises. Drills will be held with each crew initially as frequently as required to thoroughly familiarize each man with his duties. Drills are to be held at least weekly after entering a formation known to contain H<sub>2</sub>S.

### D. Warning System

#### 1. Wind Direction

- (a) Wind socks to be installed in open area easily visible from rig.
- (b) Colored streamers will be tied to each flare.
- (c) Appropriate warning signs and flags will be placed at all entrances to the location.

#### 2. Kick Indicators

- (a) Trip tank to be used on trips to determine that the hole is being filled properly.
- (b) Flow indicator to indicate that the flow returns are neither gaining or dropping off.
- (c) Pit Volume Totalizer (PVT)

PVT continuously records pit volume and sounds alarm when a preset gain or loss in pit volume is indicated. A second monitor for the PVT will be located in the mud logging unit. Mud logging personnel will immediately notify driller of any alarm.

## V. WELLSITE PROCEDURES AND PRECAUTIONS (Cont'd.)

### 3. H<sub>2</sub>S Detection

- (a) An H<sub>2</sub>S detector will continuously monitor air from a trap at the mud shaker and bell nipple. Concentrations less than 10 PPM will be detected.
  - (b) Ample supplies of 8-hr H<sub>2</sub>S ampules will be kept on location. All personnel will attach the crushed ampule to their person in a place where a quick glance will provide warning of H<sub>2</sub>S contamination.
  - (c) A "sniffer" will also be kept available. This as well as the H<sub>2</sub>S ampules should be used to check for H<sub>2</sub>S contamination if the mud logging unit indicates the need.
4. From top of the H<sub>2</sub>S bearing formation to TD drilling engineer or foreman in charge shall consult daily with the wellsite development geologist or mud loggers for any changes in geologic markers indicating possible changes in important formation tops.

### E. Protection of Personnel

#### Training Program

1. All personnel shall be instructed in the proper use of personal safety equipment, H<sub>2</sub>S detectors and alarms, briefing areas, evacuation procedures and prevailing winds. Training of all personnel, whether regularly assigned, contract or employed on an unscheduled basis shall be carried out by the contract safety supervisor assigned to the location.
2. A drill and training session will be conducted every two weeks and recorded on the driller's log.
3. Two briefing areas will be designated for assembly of personnel during emergency conditions, located so one is up-wind of the well at all times. Personnel shall be trained to practice routine observation of wind direction.
4. The Gulf Drilling Representative shall be responsible for the overall operation of on-site safety and training programs.

#### Personnel Protective Equipment

1. All working personnel on a facility shall be equipped with proper protective-breathing apparatus. The operator shall provide such equipment for the normal number of personnel involved in the operation. The operator is not required to furnish protective-breathing equipment for service personnel, but he is required to inform service contractors of the necessity of having this equipment, when called to the location.

## V. WELLSITE PROCEDURES AND PRECAUTIONS (Cont'd.)

### 1. (Continued)

- Light-weight, escape-type, self-contained breathing apparatus with a minimum of 5 minute's supply must be maintained at an easily accessible location for the derrickman, and at any other location where escape from an H<sub>2</sub>S atmosphere would be difficult. Additional protective breathing apparatus of the pressure-demand or continuous-flow type (full face piece supplying breathing quality air for an extended period while maintaining a slight pressure inside the system) shall be provided for all essential crew members. Such equipment will conform to Occupational Safety and Health Administration Standards 29 CFR 1910.132, Subpart I, Personal Protective Equipment, and American National Standard Practices for Respiratory Protection Z88.2.
2. Storage of protective-breathing apparatus shall be planned to assure at least one available apparatus regardless of current wind conditions. The contract safety supervisor will be responsible for maintenance of all safety equipment.
3. Each system must have an alarm signal for low air supply.
4. All personnel are to have ear plugs. Those with punctured eardrums must wear ear plugs to survive.
5. Additional personnel safety equipment must be available for use:
  - (a) Chalk boards and note pads for communication
  - (b) First-aid supplies
  - (c) Resusitators
  - (d) Litter
6. Large explosion-proof mechanical blowers shall be used to direct vapors in the desired direction as protection against calm or extremely light winds. Use of such ventilation equipment shall be provided in work areas where H<sub>2</sub>S vapors might accumulate and need to be dispersed.

### Visible Warning System

Operational danger signs shall be displayed on each entrance to the location complete with flags. The signs with flags will indicate the following conditions and requirements:

1. Green Flag - Moderate danger. When the concentration reaches 20 ppm H<sub>2</sub>S, the signs will be displayed. The detection efforts shall be intensified, and steps taken to eliminate or neutralize the condition.
2. Yellow Flag - Intermediate danger. When H<sub>2</sub>S is determined to be in the 20-100 ppm range, the flag shall be hoisted, protective breathing apparatus shall be worn by all working personnel, and all non-working personnel moved to safe areas.
3. Red Flag - Extreme danger. When H<sub>2</sub>S has exceeded 100 ppm concentration, all non-essential personnel or all personnel (as appropriate) shall be evacuated.

## V. WELLSITE PROCEDURES & PRECAUTIONS (Cont'd.)

4. During the time when the well is being production tested or when extreme danger conditions exist, the entrances to the location will be blocked and a guard posted to keep out all non-essential personnel.

### F. Communication

#### 1. Telephones

- (a) A telephone will be installed in Gulf and Tool Pushers trailers on location and mud logging unit on the same line.
2. Six (6) two-way walkie-talkie type radios will be in the Gulf trailer, prior to entering the H<sub>2</sub>S Formation, for use as a portable communication system.

### G. General

1. Flare System - Two flares shall be positioned with respect to the rig such that one or the other will be downwind of the rig at all times. The flare stacks will be a minimum of 16' in height.
  - (a) All choke manifolding, the mud gas separator vent and the degasser vent shall be tied into the flare system. The pipe to both flares will be adequate size so that minimum back pressure will be had.
  - (b) A continuous pilot fed by LPG shall be maintained at each flare.
  - (c) Backup ignition for each flare shall be provided by:
    - 1) Automatic ignitors on each flare.
    - 2) Very Pistols (one in Gulf trailer, one in tool pushers' trailer).
2. H<sub>2</sub>S is normally heavier than air and thus seeks low places. For this reason, calm days can be more dangerous than windy days since high concentrations can accumulate in the lows over a period of time.

CAUTION! If the H<sub>2</sub>S is warmer than the surrounding air (as it probably will be during the winter months) then it will rise. In this case the derrickman is vulnerable and should frequently monitor high position.

3. When H<sub>2</sub>S contamination is present, work in pairs - the buddy system - insofar as possible!

## V. WELLSITE PROCEDURES AND PRECAUTIONS (Cont'd.)

4. Absolutely no smoking when H<sub>2</sub>S contamination is present. H<sub>2</sub>S is highly flammable!

Smoking during normal operations should be allowed only in designated areas.

## VI. H<sub>2</sub>S EMERGENCY PROCEDURES

If, at any time, as much as 20 ppm of H<sub>2</sub>S is detected, the following steps will be taken:

- A. The driller shall pick up off bottom, shut down mud pumps, and put on his mask.
- B. The following personnel shall immediately put on their breathing equipment:
  1. All Personnel on the rig floor.
  2. All personnel at the mud pits.
  3. All personnel required to work below and down wind of the rig floor.
- C. The safety advisor shall notify the Gulf drilling superintendent and toolpusher of H<sub>2</sub>S on the monitoring system.
- D. The engineer shall run a sulfide determination from the mud flowline.
- E. Immediately begin to ascertain the source of the H<sub>2</sub>S and take steps to suppress the H<sub>2</sub>S. Drilling will not proceed until the source is determined and the well is circulated. Rig floor and mud pit personnel will keep breathing equipment on while monitoring this circulation, or as directed by the Gulf representative.
- F. The supervisors shall make sure all non-essential personnel are out of the potential danger areas. All persons who remain in potential danger areas must utilize the "Buddy System".
- G. Have all personnel to check their safety equipment to see that it is working properly and in the proper location.
- H. Check all gas monitoring devices and verify gas monitors with the portable hand operated H<sub>2</sub>S and gas detector units.

## VI. PROTECTION AND EVACUATION OF THE GENERAL PUBLIC

### A. Contingency Plan

1. Before reaching the top of the H<sub>2</sub>S bearing Formation, (minimum of 1000 feet above) the following measures are to be put into effect:
  - (a) A safety meeting with Gulf personnel, each crew and tool pusher and mud loggers will be held covering use of SCBA, resuscitator, first aid, etc. Notify Division Office at least 48 hours before meeting so appropriate personnel can attend meeting.
  - (b) Post in conspicuous form at telephone station the phone number of:
    1. Sheriff's Office.
    2. Ambulance Service.
    3. Hospital.
    4. Doctor's Numbers.
    5. Highway Patrol.

### B. Evacuation Plan

#### 1. Kick

Action will be withheld pending further development.

#### 2. Blowout or Imminent Blowout

If in the judgment of the man-in-charge, it is practically certain that a blowout will occur or it happens almost instantaneously, the following procedures will be put into effect:

- (a) Evacuate well site personnel.
- (b) Gulf man-in-charge will ignite well. In his absence or incapacity, the tool pusher, or subsequently the driller will be in charge.
- (c) All personnel evacuating drillsite will wear SCBA if possible.
- (d) Vehicles of key personnel will be supplied with H<sub>2</sub>S indicator ampules prior to entering the H<sub>2</sub>S formation.
- (e) If location is evacuated and/or set fire, the Gulf man-in-charge and tool pusher will remain as near location as possible to assure against flameout. Keep local authorities informed of developments and needs through telephone or mobile radio contact.

## VI. PROTECTION AND EVACUATION OF THE GENERAL PUBLIC (Cont'd.)

- (f) Notify by phone or in person all those listed on Emergency Phone Numbers list.

(See VII)

### C. Evacuation of General Public

1. Although there are no residents within a 2 mile radius of the location, it is possible that hunters or fishermen may be in the area at times. Before drilling into the Phosphoria Formation, a check will be made to determine if anyone is present in the area and if so, alert them as to the potential danger.
2. The Highway Patrol Office and County Sheriff's Office will be requested to help in stopping unnecessary traffic moving toward the location.
3. General
  - (a) Gulf desires to cooperate with these authorities to the fullest extent and will exert every effort by careful advice to such authorities to prevent panic or the spread of wild rumors.

Since it is desirable to have one Company source of information in such instances, we will attempt to have the Gulf Public Relations Coordinator at the disaster as soon as possible. The man-in-charge will keep the Public Relations Coordinator fully informed at all times and will be responsible for obtaining such information as he may require.

Until such time as the Public Relations Coordinator has arrived, Gulf personnel will cooperate with and provide such information to civil authorities as they might require.

- (b) Since one of the products of the combustion of hydrogen sulfide gas is sulphur dioxide ( $SO_2$ ), under certain conditions, this gas may be equally as dangerous as  $H_2S$ . A "sniffer" type device, which determines the per cent of  $SO_2$  in air and concentrations in PPM, will be at hand upon entering the top of the  $H_2S$  Formation. Although normal air movement is sufficient to dilute this material to safe levels, the  $SO_2$  detector should be utilized to check concentrations in the proximity of the well once every 8 hr. shift. Also, if any low areas are suspected of having high concentrations, personnel should be made aware of these areas if they are found to have hazardous concentrations.
    - (c) In the event it is necessary to evacuate any local residents, it is the responsibility of the man-in-charge to see to it that they find suitable housing such as a nearby motel.

## VII. PHONE NUMBERS

Sheriff's Office, Utah County	(801) 374-2211
Fire Warden, Utah County	(801) 373-5510
Highway Patrol	(801) 224-2441
Ambulance: Alpine Aviation Inc.	(801) 373-1508
Hospital, Raleigh Hills	(801) 261-1771
Hospital, Utah Valley (Emergency)	(801) 377-2250
Clinic, Utah Valley Pain (Emergency)	(801) 373-2838
Doctors:	
Leonard H. Foote	(801) 798-2422
Preston G. Hughes	(801) 798-3363
Thomas R. Judd	(801) 798-8671
Oil & Gas Operations Supervisor Salt Lake City, Utah	(801) 524-4590
U. S. Forest Service Spanish Fork, Utah	(801) 798-3571
Utah Oil & Gas Commission Salt Lake City, Utah	(801) 533-5771

EMERGENCY NUMBERS

Gulf Oil Exploration and Production Co.  
Div. Of Gulf Oil Corp.

851 Werner Ct.  
P.O. Box 2619  
Casper, Wyoming 82602

Office: Operator (307) 235-1311

Dick Smith

Office:

(307) 237-0173

Home:

(307) 235-0877

Charlie Cortez

Office:

(307) 237-0174

Home:

(307) 265-8831

Andy Rike

Office:

(307) 237-0172

Home:

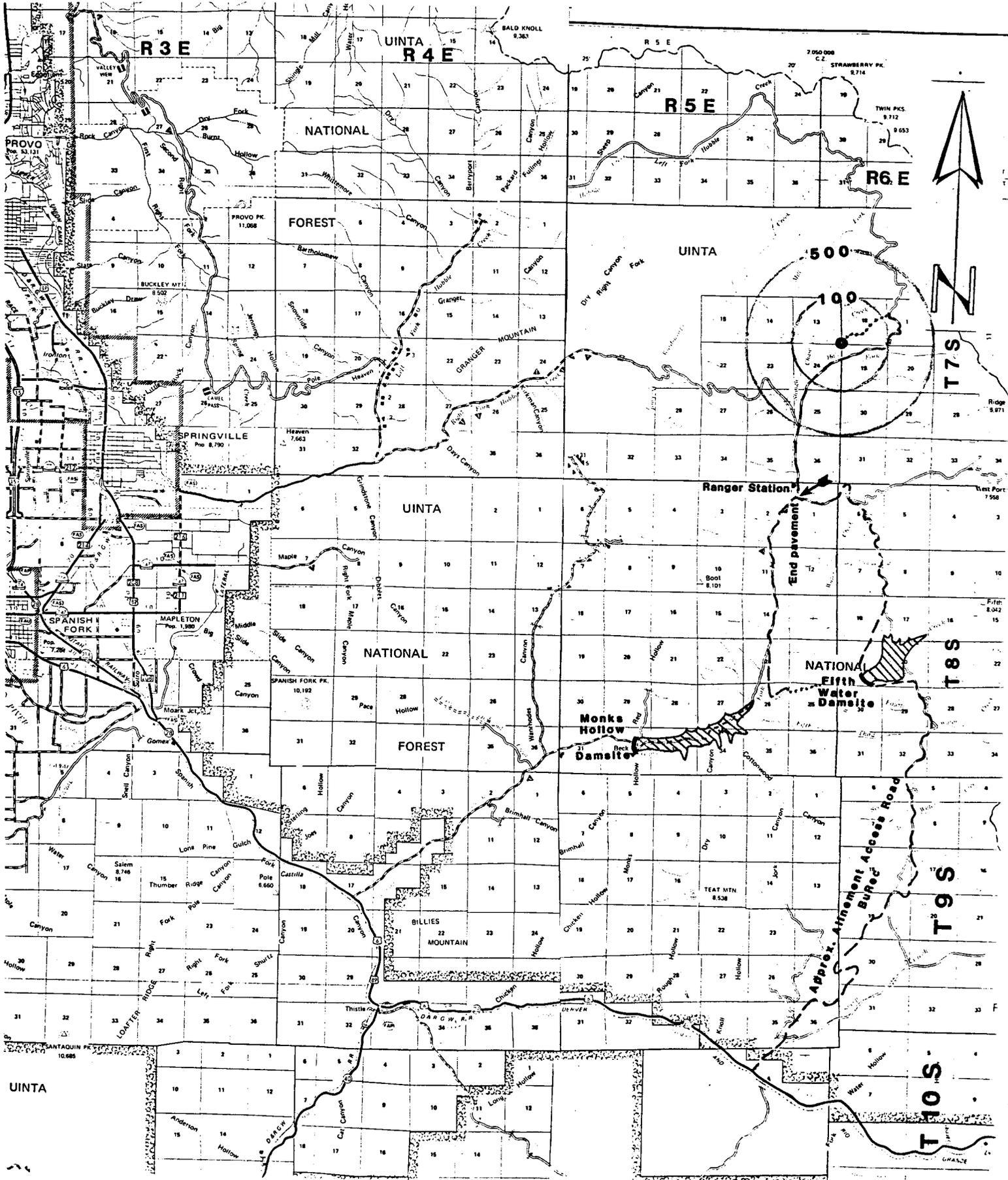
(307) 265-1070

ON THE RIG

MOBILE UNIT #

Drilling Company

Advisor, Safety



R 3 E

UINTA R 4 E

R 5 E

R 6 E

NATIONAL FOREST

PROVO PK. 11,066

SPRINGVILLE Pop. 8,790

SPANISH FORK Pop. 7,786

MAPLETON Pop. 1,380

SPANISH FORK PK. 10,182

UINTA

NATIONAL FOREST

UINTA

UINTA

500

100

Ranger Station

End pavement

NATIONAL Fifth Water Dam Site

Monks Hollow Beck Dam Site

Approx. Attnement Access Road

T 7 S

T 8 S

T 9 S

T 10 S



West Port. 7,566

F. H. 8,042

DENVER

GRACE

R 5 E

R 6 E



S 21 T 7 S

7735x

Creek

Proposed road

18

Excavation stockpile area

7873x

Fork

Chase

A

B

7780

7400

U N T A

Halls

7600

7400

7000

19

24

# CONVERSION FACTORS FOR H<sub>2</sub>S IN NATURAL GAS

GIVEN	REQUIRED		
	Grains per 100 Cu. ft.	Parts per Million	Mol Percent
Grains Per 100 ft. <sup>3</sup>	—	Grains ÷ (0.05341 x S.G.)	Grains x 0.00159
Parts Per Million	PPM x 0.05341 x S.G.	—	PPM x Sp. Gr. ÷ 1.177 x 10 <sup>4</sup>
Mol Percent	Mo. % ÷ 0.0015908	(Mol % x 1.177 x 10 <sup>4</sup> ) ÷ Sp. Gr.	—

## EXAMPLE (0.6 SPECIFIC GRAVITY GAS)

1 Grain / 100 ft. <sup>3</sup>	—	1 - (0.05341 x 0.6) = 31.20	1 x 0.00159 = 0.00159
1 Part / Million	1 x 0.05341 x 0.6 = 0.032	—	1 x 0.6 ÷ 1.177 x 10 <sup>4</sup> = 5.1 x 10 <sup>-5</sup>
1 Mol %	$\frac{1}{0.0015908} = 628.6$	1 x 1.177 x 10 <sup>4</sup> ÷ 0.6 = 19,617	—

## EXAMPLE (0.7 SPECIFIC GRAVITY GAS)

1 Grain / 100 ft. <sup>3</sup>	—	1 ÷ (0.05341 x 0.7) = 26.75	1 x 0.00159 = 0.00159
1 Part / Million	1 x 0.05341 x 0.7 = 0.037	—	1 x 0.7 ÷ 1.177 x 10 <sup>4</sup> = 5.9 x 10 <sup>-5</sup>
1 Mol %	1 ÷ 0.0015908 = 628.6	1 x 1.177 x 10 <sup>4</sup> ÷ 0.7 = 16,814.	—

## EXAMPLE (0.8 SPECIFIC GRAVITY GAS)

1 Grain / 100 ft. <sup>3</sup>	—	1 ÷ (0.05341 x 0.8) = 23.40	1 x 0.00159 = 0.00159
1 Part / Million	1 x 0.05341 x 0.8 = 0.043	—	1 x 0.8 ÷ 1.177 x 10 <sup>4</sup> = 6.8 x 10 <sup>-5</sup>
1 Mol %	1 ÷ 0.0015908 = 628.6	1 x 1.177 x 10 <sup>4</sup> ÷ 0.8 = 14,713	—

To Cedar Fort  
T 5 S

20'

T 6 S

T 7 S

T 8 S

T 9 S

40 00  
112° 00'

R 1 W  
To Elberta

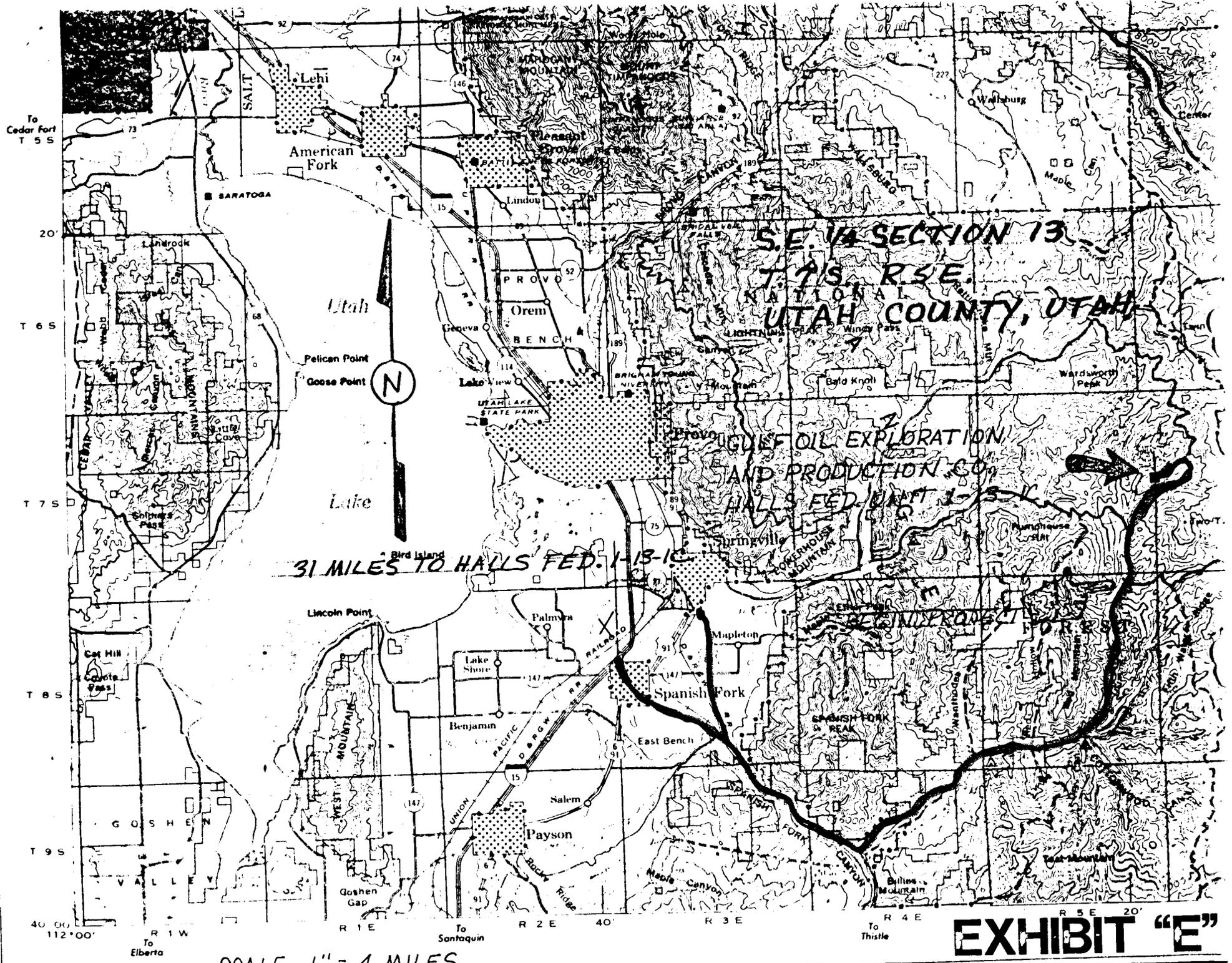
To Santaquin

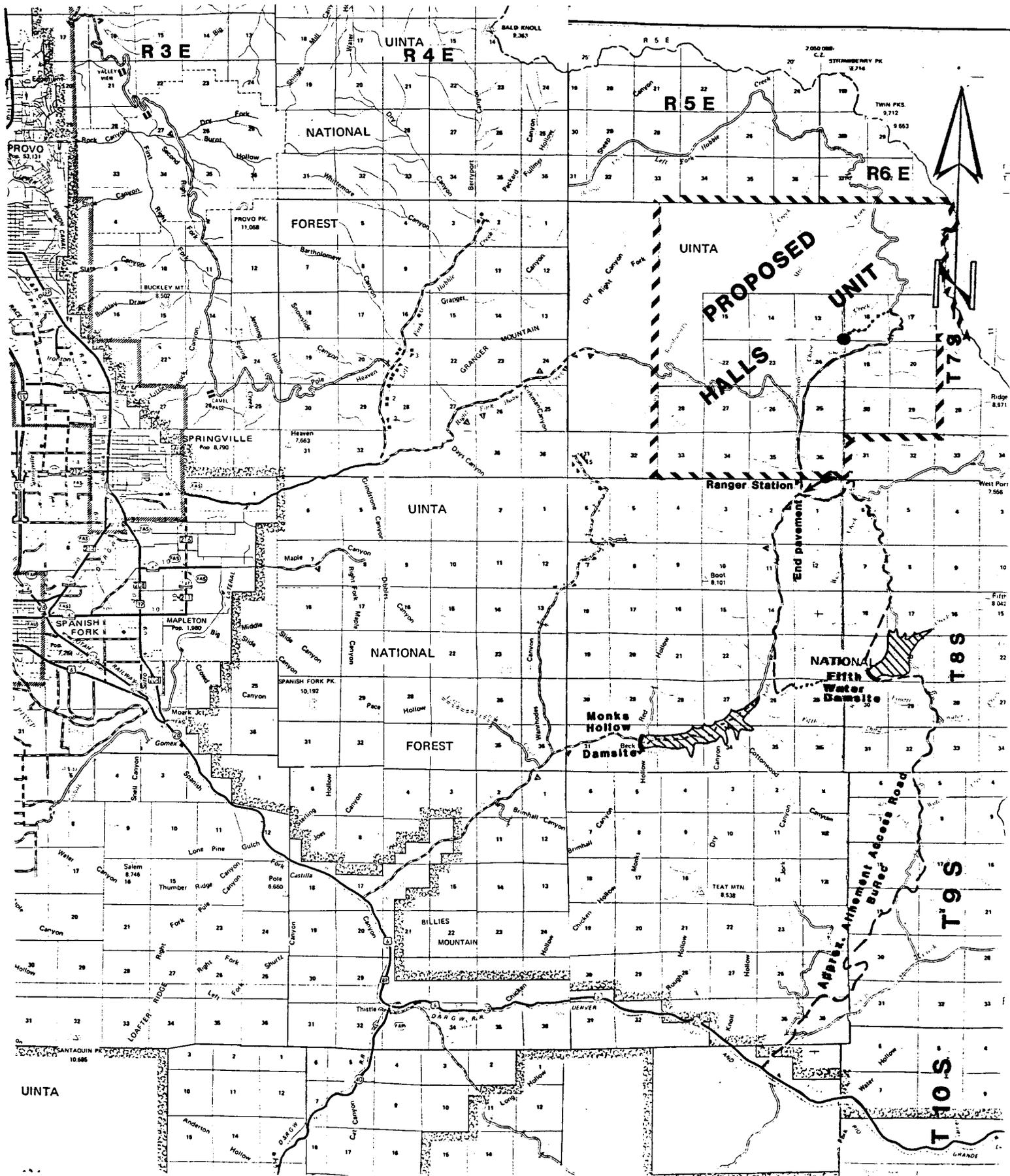
To Thistle

R 5 E 20'

SCALE 1" = 4 MILES

**EXHIBIT "E"**





R3E

UINTA  
R4E

R5E

R6E

NATIONAL

FOREST

PROPOSED  
HALLS UNIT

Ranger Station

UINTA

NATIONAL

NATIONAL  
Fifth  
water  
Dam Site

FOREST

Monks  
Hollow  
Dam Site

BILLIES  
MOUNTAIN

T78S

T79S

T8S  
T9S  
T10S

PROVO

SPRINGVILLE

SPANISH FORK

MAPLETON

UINTA

GRAND

BALD KNOLL  
9,361'

7,050 OMB  
C.Z.  
STRAWBERRY PK  
E.714

TWIN PKS  
9,712  
9,653

PROVO PK  
11,068

BUCKLEY MT.  
8,502

CAMEL  
PASS  
7,663

SPANISH FORK PK.  
10,192

POLE  
5,660

CASTILLA

TEAT MTN  
8,538

SANTOQUIN PEAK  
10,685

Ridge  
8,871

West Port  
7,568

Fifth  
8,042

LOAFER ROAD

Appex. Attachment Access Road  
Bulged

VALLEY VIEW

Salem  
8,748

Thumber Ridge

Right Fork

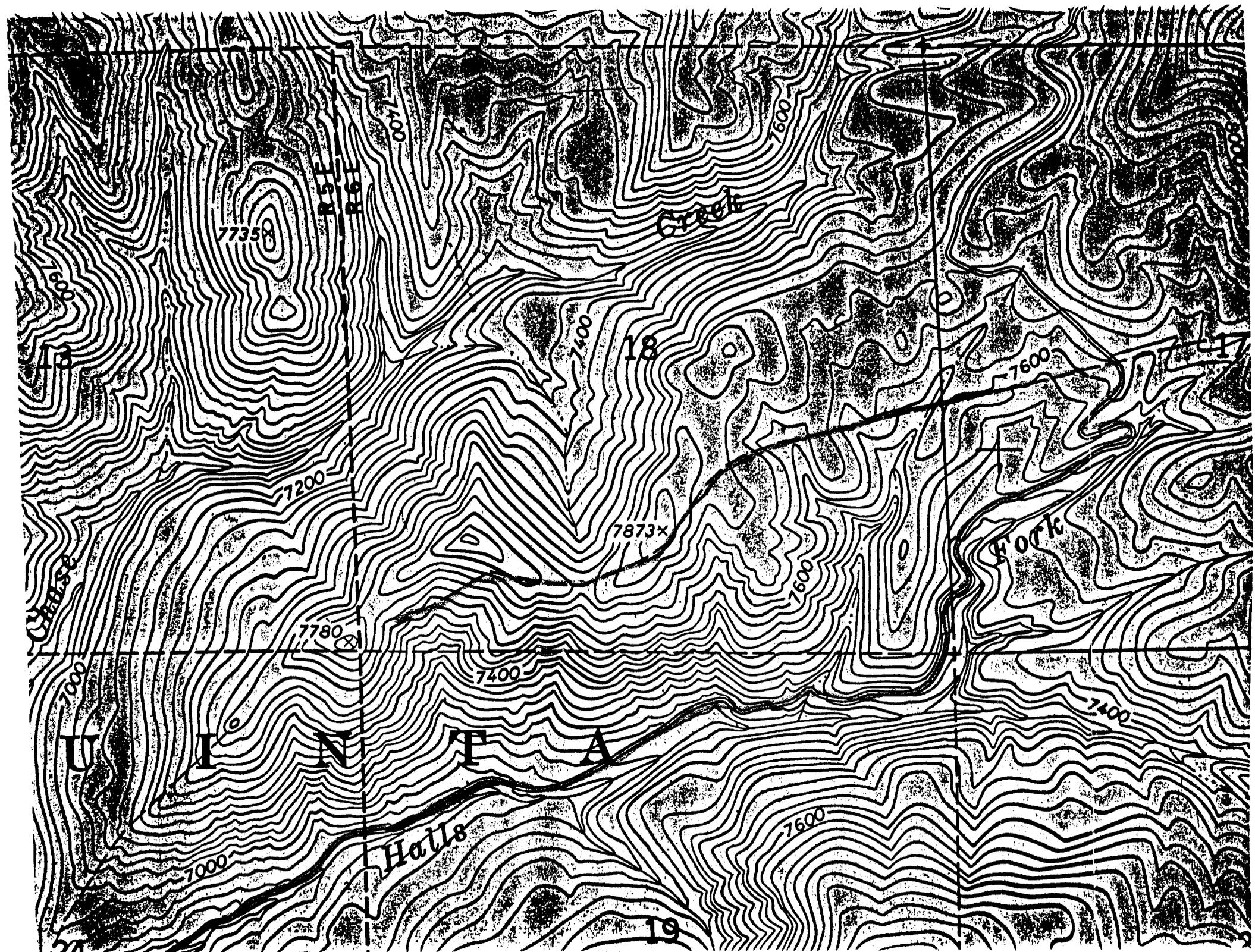
Left Fork

Anderson

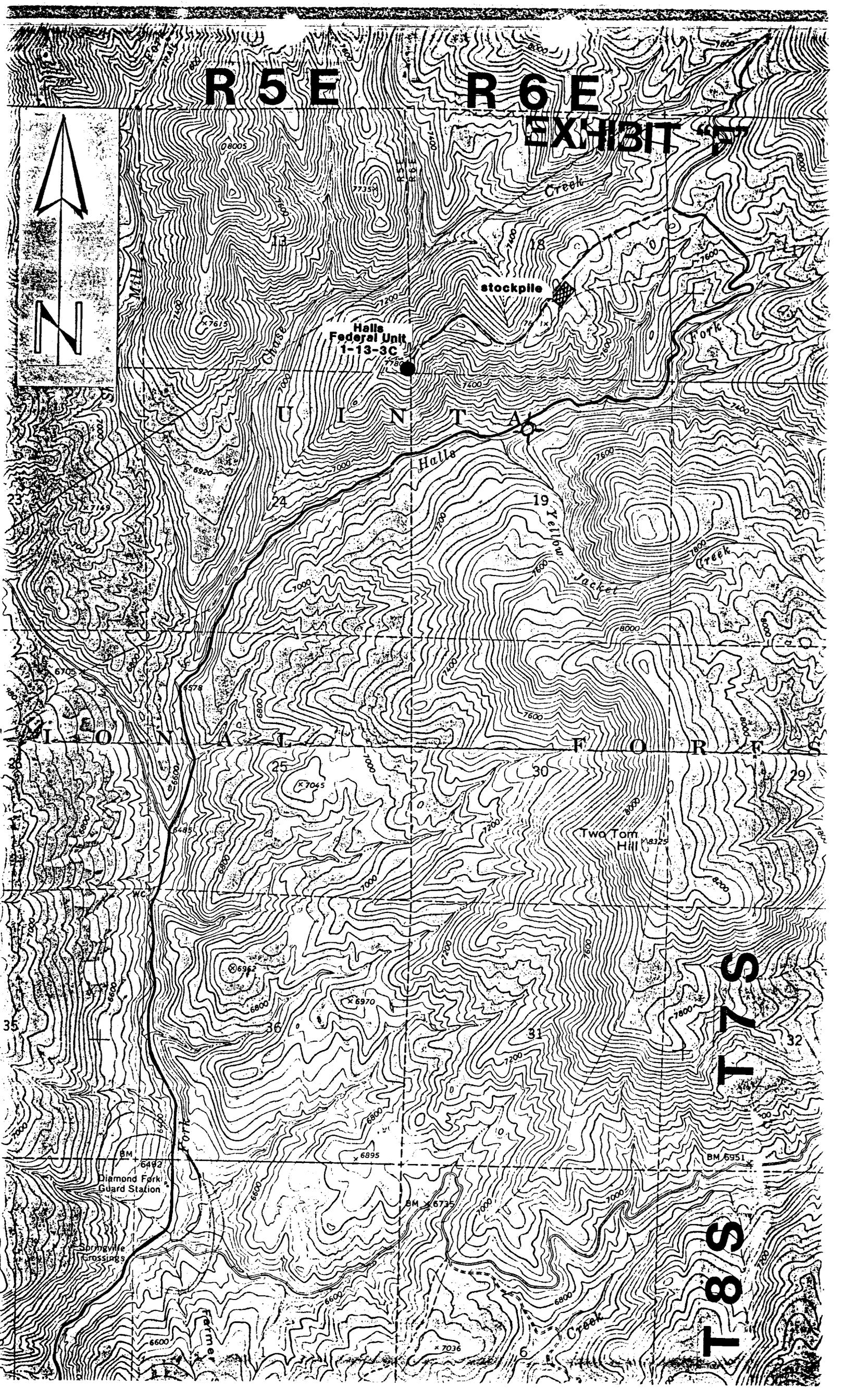
Anderton

Anderton

Thistle



# R 5 E R 6 E EXHIBIT 'A'



Halls  
Federal Unit  
1-13-3C

stockpile

Halls

Yellow  
Jacket

Two Tom  
Hill

Diamond Fork  
Guard Station

Springville  
Crossings

T 17 S  
T 18 S

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK   
 b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
 Gulf Oil Corporation (ATTN: W. L. Rohrer)

3. ADDRESS OF OPERATOR  
 P.O. Box 2619, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 115' FSL and 145' FEL  
 At proposed prod. zone SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 13

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 18 miles E NE of Spanish Fork, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 115'  
 16. NO. OF ACRES IN LEASE 1920

17. NO. OF ACRES ASSIGNED TO THIS WELL 40  
 18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA  
 19. PROPOSED DEPTH 12,500' *Approved*

20. ROTARY OR CABLE TOOLS Rotary  
 21. ELEVATIONS (Show whether DF, RT, GR, etc.) Ground  
 22. APPROX. DATE WORK WILL START\* September 1, 1983

5. LEASE DESIGNATION AND SERIAL NO. U-29759  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 7. UNIT AGREEMENT NAME ~~Halls Unit~~  
 8. FARM OR LEASE NAME  
 9. WELL NO.  
 10. FIELD AND POOL, OR WILDCAT ~~Halls Federal Unit~~ 1-13-3C  
 Wildcat   
 11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 13, T. 7S., R. 5E., SLM  
 12. COUNTY OR PARISH Utah  
 13. STATE Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	94# H-40 STC	60'	110 sacks
17 1/2"	13 3/8"	54.5# K-55 STC	1,000'	900 sacks
12 1/4"	9 5/8"	40# K-55 STC	5,000'	900 sacks
8 1/2"	7"	29# L-80 LTC	12,500'	700 sacks

Drill 24" hole for conductor to 60' set 94# H-40 STC with 110 sacks; drill 17 1/2" hole for 13 3/8" casing to 1000' set 54.5# K-55 STC with 900 sacks; drill 12 1/4" hole for 9 5/8" casing to 5,000' set 40# K-55 STC with 900 sacks; drill 8 1/2" hole for 7" casing, if productive, to 12,500' set 29# L-80 LTC with 700 sacks.

Exhibits:

- "A" Survey Plat
- "B" Ten-point compliance program
- "C" BOP diagram
- "D" Multi-point requirements
- "E" County Map
- "F" Topographic map
- "G" Drill pad layout
- "H" Road center line survey

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.

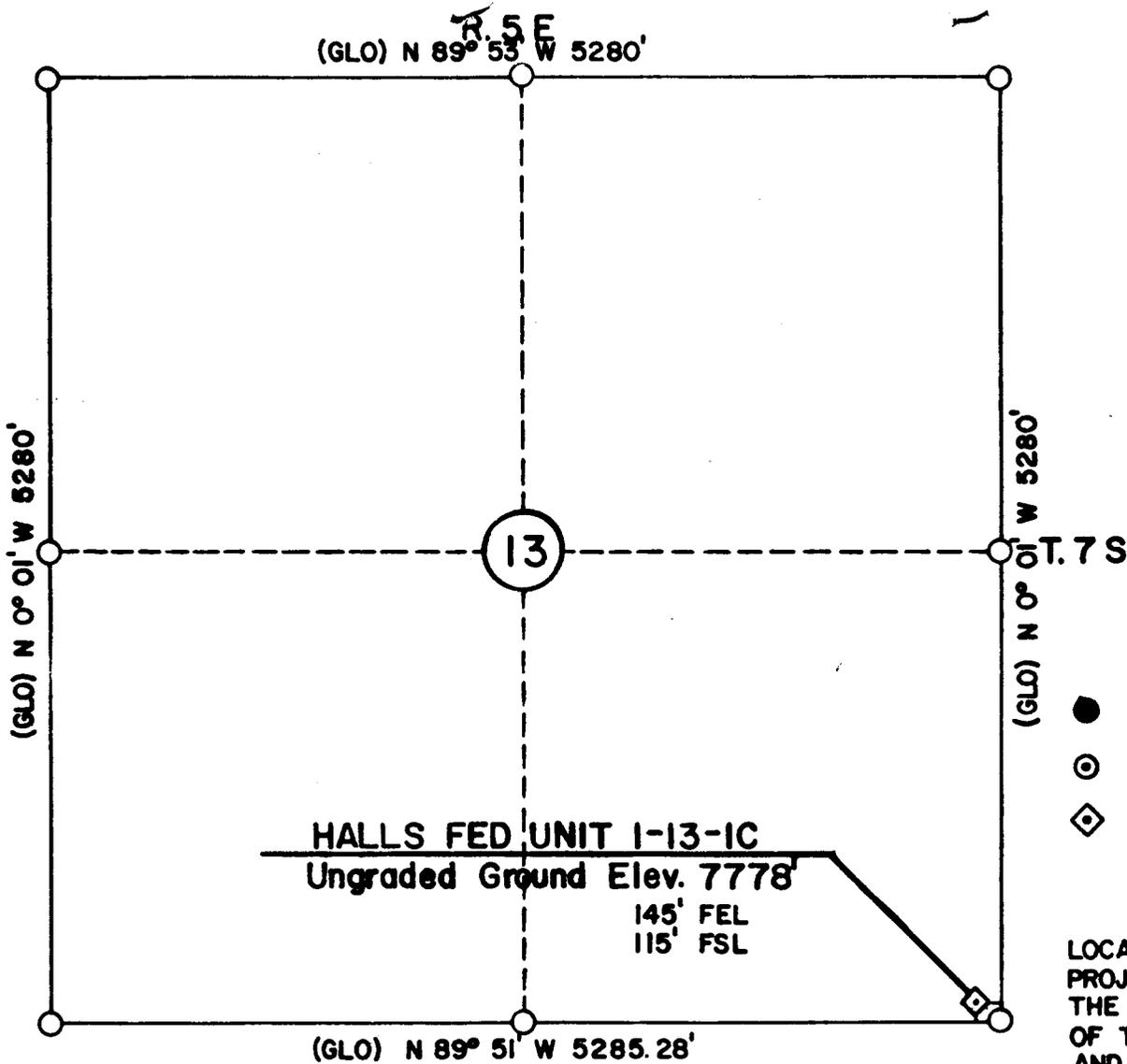
24. SIGNATURE *Richard C. Smith* R. C. Smith TITLE Area Drilling Supt. DATE August 2, 1983

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:



SCALE 1"=1000'

—NOTES—

- FOUND CORNER
- ⊙ PROPORTIONED CORNER
- ◇ WELL LOCATION

LOCATION IS PROJECTED FROM THE TOWNSHIP CORNER OF T.7S and T.8S AND R.5E and R.6E USING GLO CALLS

STATE OF UTAH )  
 COUNTY OF UTAH ) ss CERTIFICATE OF SURVEYOR

I, DICK R. GRIFFIN of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey under my supervision on July 11, 1983, and that it shows correctly the drilling location of HALLS FED. UNIT 1-13-1C for GULF OIL & EXPLOR. CO. as staked on the ground during said survey.

*Dick R. Griffin*  
 \_\_\_\_\_  
 DICK R. GRIFFIN UTAH R.L.S. 5120

**EXHIBIT "A"**

MAP SHOWING DRILLING  
 LOCATION OF THE  
**HALLS FED UNIT**  
**1-13-1C**  
 SE 1/4 Section 13  
 T7S, R5E of the  
 SALT LAKE BASE and MERIDIAN  
 UTAH COUNTY, UTAH

D.R. GRIFFIN AND ASSOCIATES, INC.  
 P.O. BOX 1059  
 ROCK SPRINGS, WY. 82901  
 (307) 362-5028

JOB NO. 789

# Gulf Oil Exploration and Production Company

P. O. Box 2619  
Casper, WY 82602

September 7, 1983

State of Utah  
Dept. of Natural Resources  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Gulf Oil Corporation  
Halls Federal Unit 1-13-3C  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Sec. 13, T.7S., R.5E.  
Utah County, Utah

Dear Sir:

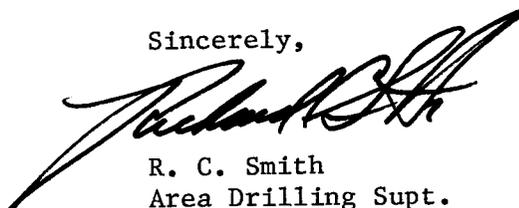
As required by Rule C-4, we are enclosing for the referenced well, three copies of the Application for Permit to Drill, survey plats and BOP diagrams for your further handling. A copy of the Federal APD, NTL-6 and construction packet accompanies this submittal for your files.

A federal unit agreement for this area has received preliminary approval. Since the agreement is not yet final, application is here made for spacing exception in accordance with Rule C-3(c) based on topography. Examination of Exhibits "F", "G" and sheet 17 (construction diagrams) of the Federal packet shows that the topography precludes a drilling location being placed on the standard spacing pattern.

A copy of the Designation of Operator from Natural Gas Corporation is attached and approval by Amoco indicated below. Approval by the State of Utah is requested.

Please direct inquiry or response to the attention of W. L. Rohrer (307) 235-1311.

Sincerely,



R. C. Smith  
Area Drilling Supt.

WLR/jsh  
Enclosures

Spacing request approved:

*RB Giles 9/15/83*

Robert Covlin  
Amoco Production Co.  
1670 Broadway  
Denver, CO 80202



A DIVISION OF GULF OIL CORPORATION

TELEPHONE: (307) 235-1311

11

9

U-31564

GULF OIL CORPORATION, ET AL  
1-31-86

12

2

U-29759

NATURAL GAS CORPORATION  
OF CALIFORNIA  
5-31-85

7  
(628)

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U-29761

1 37.02 |  
GULF OIL CORPORATION, ET AL  
5-31-85

GULF OIL  
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U-31564

GULF OIL CORPORATION, ET AL  
1-31-86

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U-29759

GULF OIL CORPORATION, ET AL  
8-31-86

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18  
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U-29762

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AMOCO PRODUCTION COMPANY  
9-30-92

NATURAL  
OF  
5

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U-31564

GULF OIL CORPORATION, ET AL  
8-31-85

24

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U-34144

GULF OIL CORPORATION, ET AL  
8-31-86

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AMOCO PRODUCTION COMPANY  
9-30-92

NATURAL  
OF  
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U-34144

GULF OIL CORPORATION, ET AL  
8-31-85

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GULF OIL CORPORATION, ET AL  
8-31-86

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AMOCO PRODUCTION COMPANY  
9-30-92

NATURAL  
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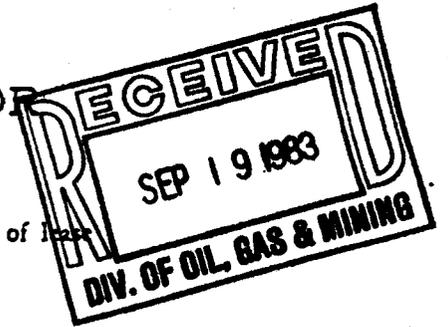
30  
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U-51181

# DESIGNATION OF OPERATOR



The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:  
SERIAL No.: U-29759

and hereby designates Gulf Oil Exploration and Production Company  
Post Office Box 2619  
NAME: Casper, Wyoming 82602  
ADDRESS:

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 7 South, Range 5 East  
Sec. 13:SE/4  
Utah County, Utah

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST: Natural Gas Corporation of California

By: \_\_\_\_\_

By: C. T. Clark  
(Signature of lessee)

C. T. Clark, Jr. Attorney-in-Fact  
7800 East Union Ave., #800  
Denver, Colorado 80237

August 5, 1983

(Date)

(Address)

## ROADWAY ENVIRONMENTAL CONSIDERATIONS

New road construction in Section 18, T.7S., R.6E., Utah County, Utah, is designed to reduce the environmental impacts on the traversed area to the greatest extent possible within practical limitations. These mitigating aspects are briefly summarized as follows:

1. Departure from the existing road in SW $\frac{1}{4}$  NW $\frac{1}{4}$  Section 17 is on a southwest declining ridgetop extending to the proposed drill site. Therefore no new switchback road is necessary to gain the elevation needed to access the drillsite.
2. The existence of broad ridge slopes relate to strong subgrade stability and indicates a minimum of disturbance will be needed for roadway construction over the first 0.6 mile.
3. This first 0.6 mile of the proposed roadway takes advantage of open areas as much as possible which results in the least disturbance of trees.
4. Near the C S $\frac{1}{2}$  Section 18 and southwestward the roadway would hold near the 7,800 foot topographic contour along the north side of the ridge to avoid steep inclines, existing fence line and visual impacts from the south approach.
5. Recognizing the steepness of hillsides, avoidance of the south facing slope in the SW $\frac{1}{4}$  Section 18 minimizes the possibility of destabilizing that slope which could compound road maintenance along Halls Fork. However to the contrary, the south-facing slopes tend to dry more rapidly and be somewhat less steep than north-facing slopes. There is another factor which tends to equalize the roadway routing choice. That is, the north-facing slopes generally are more densely forested which in turn results in hillside stability. It does however mean removal of more trees per lineal construction distance.
6. The reason for a steeper north slope and more trees is due to a longer moisture retention time which could be considered a drawback for the north routing. Adequate drainage design will diminish water saturation. Also, since drilling operations are planned to extend into mid-winter, it will be necessary to have snow removal equipment which will significantly alleviate moisture retention problems.
7. Excessive snow berms along a south slope roadway would likely result in snow slides because of the more open slopes. Such slides would again result in higher maintenance along Halls Fork.
8. Although a camp is proposed at the drill site which will reduce the amount of traffic to and from the site, access will be needed throughout the operations.

WLR/jsh

5/17/83

F. No archeological, historical or cultural sites occur in the nearby area.

G. All proposed surface disturbance will be on lands under the jurisdiction of the Forest Service.

12. Lessee's or Operator's Representative:

Charlie B. Cortez  
Gulf Oil Explor. & Prod. Co.  
P.O. Box 2619  
Casper, Wyoming 82602  
Ph 307-235-1311

Richard C. Smith  
Area Drlg. Supt.  
Gulf Oil Corp.  
P.O. Box 2619  
Casper, Wyoming 82602  
Ph 307-235-1311

13. Certification

I hereby certify that I, or other company personnel, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge true and correct; and, that the work associated with the operations proposed herein will be performed by GULF OIL CORPORATION and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

  
Name W. L. Rohrer

Date August 2, 1983

Permit & Claim Agent  
Title \_\_\_\_\_

- D. Restoration activities will begin within 90 days after completion of the well and when restoration activities have been completed, the location site will be re-seeded with a seed mixture recommended by the Forest Service, at such time as the moisture content of the soil is adequate for germination. Gulf Oil Corporation, as operator, and any subsequent operator covenants and agrees that all of said cleanup and restoration activities will be done and performed in a diligent and workmanlike manner, in strict conformation with the above mentioned Items #7 and #10.
- E. Steepness of terrain precludes replacement and re-shaping of the area to original contour as doing so would result in mudflows during the rainy season. Therefore it is suggested that stockpiled topsoil be spread over the disturbed area and over the excavation stockpile. [The drill pad area could be converted to a picnic area overlook.] Revegetation will proceed more rapidly if the new road is closed to vehicular access for 2 or 3 years.

11. Other Information

- A. The area is located in the Uintah National Forest in the Wasatch Mountains. Surface elevations in the general vicinity range from 6300 feet near the Diamond Fork Guard Station to 8326 feet on Two Tom Hill. Perennial streams occur south (Halls Fork) and north (Chase Creek) of the ridge on which the well location is sited. Slope gradients generally range from 10% to 60% and consist of clay-shale dominating thin interbeds, generally less than 2' thick, of fine grained sandstone. The location site is a narrow ridge which drops off sharply to the north and south.
- B. There doesn't appear to be any significant soil development except on broader benching areas, as bedrock appears at the surface on steeper slopes.
- C. Vegetation on the steep slopes is chiefly scrub-oak and pine. Most of the latter would not constitute saw timber. A more complete identification of vegetation appears in the archeological report.
- D. Fauna observed by the archeological crew include deer, procupine, weasel, grouse, hare, and rodents.
- E. The nearest dwelling appears to be the Diamond Fork Guard Station which is probably occupied seasonally.

- E. The burn pit will be fenced on all four sides and covered with a small mesh wire to prevent any flammable materials from escaping and creating a fire hazard and all flammable materials will be burned and then removed or buried upon completion of the well.
- F. All camp effluent will be processed in a sanitation system. Discharge will be transferred to the reserve pit as a clear, odorless liquid to be used as supplemental drilling fluid.

#### 8. Ancillary Facilities

A camp facility will be moved onto location during the drilling or completion of the well.

#### 9. Well Site Layout

- A. Drilling pad layout (with cuts and fills) and cross sections are shown on Exhibit "G".
- B. Rig orientation, access road, reserve pits, pipe racks, and living facilities are shown on Exhibit "G". The soil stockpile is shown on Exhibit "F" and "H".
- C. The reserve pits will be lined.

#### 10. Plans for Restoration of Surface

- A. The topsoil will be stripped and stockpiled (see Exhibit "F"). When all drilling and production activities have been completed, the pits will be filled and stockpiled topsoil will be spread over the disturbed area.
- B. Any drainages re-routed during construction activities will be restored to their original line of flow as nearly as possible. Fences around pits will be removed upon completion of drilling activities and all waste contained in the burn or trash pits will be removed or buried.
- C. The reserve pit will be completely fenced and wired with overhead wire and flagging will be installed if there is oil or fluid in the pits and then allowed to completely dry or pumped out for disposal at an approved disposal site. When re-shaping of the area occurs, following drilling and/or production cessation, dried waste material from the reserve pits will be buried or removed from the location. The reserve pit liner will be folded inwards upon itself to contain drill cuttings and avoid containment of precipitation prior to burial.

5. Water Supply

- A. Water to be used in the drilling of this well will be hauled by truck, over existing roads, from a small reservoir to be constructed on Halls Fork near the common corner of Sections 17, 18, 19 & 20. This water will be hauled approximately 2.5 miles to the location site. Inquiry with the State Engineers' Office indicated the surface water in the stated vicinity had not been claimed as of 3/2/83.
- B. A water well maybe drilled on the drill site location if there is assurance of supply.

6. Source of Construction Materials

- A. Native soil from the drill site will be used to construct the location.
- B. No construction materials, other than borrow material from the drill site, will be obtained from Federal or indian lands.
- C. Construction material needed for road improvement will be acquired from a private source. (See 4.C)
- D. No new access road will be required for construction material.

7. Handling Waste Disposals

- A. One-half of the lined reserve pit will be used as a fresh water storage area during the drilling of this well and the other one-half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.
- B. The pits will have wire and overhead flagging, as required, to protect water fowl, wildlife and domestic animals.
- C. At the onset of drilling, the reserve pits will be fenced on three sides and at the time the drilling activities are completed it will be fenced on the fourth side and allowed to dry completely prior to the time that back-filling and reclamation activities are commenced.
- D. When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements in Item #10 will be followed.

- F. A gate or cattleguard may be needed at the junction of the new and existing roads.
- G. Center-line of this new road will be surveyed and flagged at the time of location staking. Copies of the road survey accompany this application.

3. Location of Existing Wells

All existing wells known in the area are shown directly on Exhibit "F" within the one-mile radius.

- 1. Water wells: none
- 2. Abandoned wells: one
- 3. Temporarily abandoned wells: none
- 4. Disposal wells: none
- 5. Drilling wells: none
- 6. Producing wells: none
- 7. Shut-in wells: none
- 8. Injection wells: none
- 9. Monitoring or observation wells: none

4. Location of Existing and Proposed Facilities

There are no existing batteries, production facilities, oil gathering lines, or other flowlines.

It is contemplated that, in the event of production, all new facilities will be accommodated on the proposed drill pad on the solid base of cut and not located on the fill areas.

- A. No additional flagging will be necessary since all producing facilities will be on the drill pad.
- B. If production is obtained, the unused areas will be restored as later described. Production facilities will be contained within the proposed drill pad area until such time as flowlines are constructed.
- C. Concrete and gravel, as needed, will be purchased from private sources. If suitable gravel is available on Federal lands the appropriate application will be filed should it be needed.
- D. All pits will be fenced to minimize any hazard to domestic animals and other animals that graze in the area. Wire mesh covering or overhead flagging will be installed on pits, in the event water or other fluids are produced.
- E. Rehabilitation, whether the well is productive or dry, will be accomplished as soon as possible in those areas already described, and in accordance with the requirements of Items 7 and 10, following.

- (e) Widen sharp curves, where practical, to provide a minimum turning radius of 100 feet.
- (f) Provide a turn around near the common corner of Sections 17, 18, 19 & 20 for truck access to a temporary dam to be constructed in that vicinity to supply water for well if flow there is adequate.
- (g) To avoid damage to that part of the Diamond Fork Road with asphalt surface, weights of drilling components will be reduced to be well below State axle weight limits. Trucks will follow center line of road with flag vehicles in front and back in accordance with recommendations by the Utah County Engineer. Mobilization will occur during late summer or early fall when there is the least possibility for roadway damage.

## 2. Planned Access Roads

- A. New road construction will approximate 1.2 miles and traverse Section 18 principally along the ridge line. The eastern 1/2 mile of the road will use 4" of <2" mesh gravel for a finish grade 14' wide. One turnout will be provided at the junction with the existing road.
- B. Beginning at the proposed location of the excavation stockpile as shown on Exhibit "F" and traversing the remaining distance to the drill pad (approximately 3800 feet to the location). The road will be constructed to a finished dual lane travel width of 28 feet to permit passage of construction equipment to and from the excavation stockpile area. Four inches of <2" mesh gravel is planned for this section of the access road. No turnouts will be needed along this part of the road.
- C. Maximum grade is expected to approximate 10%.
- D. Culverts or other drainage will be installed where necessary.
- E. Large trees will be avoided if practical detour is available. Scrub oak and other evergreens will be cut to recommended lengths as specified by the Forest Service, and stacked at an area specified by the Forest Service for disposal after construction is completed. Clearing the prepared roadway should precede construction activity in the immediate area. Branches would be stockpiled in an open area where burning could be done under safe weather conditions.

## MULTI-POINT REQUIREMENTS TO ACCOMPANY APD

Attached to Form 9-331C  
Company: Gulf Oil Corporation  
Well: Hall Federal Unit 1-13-3C  
Well Location: 120' FSL, 126' FEL  
Section 13, T.7S., R.5E.  
County: Utah State: Utah

### 1. Existing Roads

- A. The proposed well site and elevation plat is shown as Exhibit "A".
- B. Location is about 18 miles E NE of Spanish Fork, Utah as shown by the county map (Exhibit "E").
- C. An access road of about 1.2 miles will be needed to reach the location from the existing road as shown in Exhibit "F".
- D. This is a wildcat well. All existing known roads within the two mile radius are shown on Exhibits "E" & "F".
- E. N.A.
- F. Upgrading will be necessary on the existing roads. The roads will be maintained as necessary for all weather use.

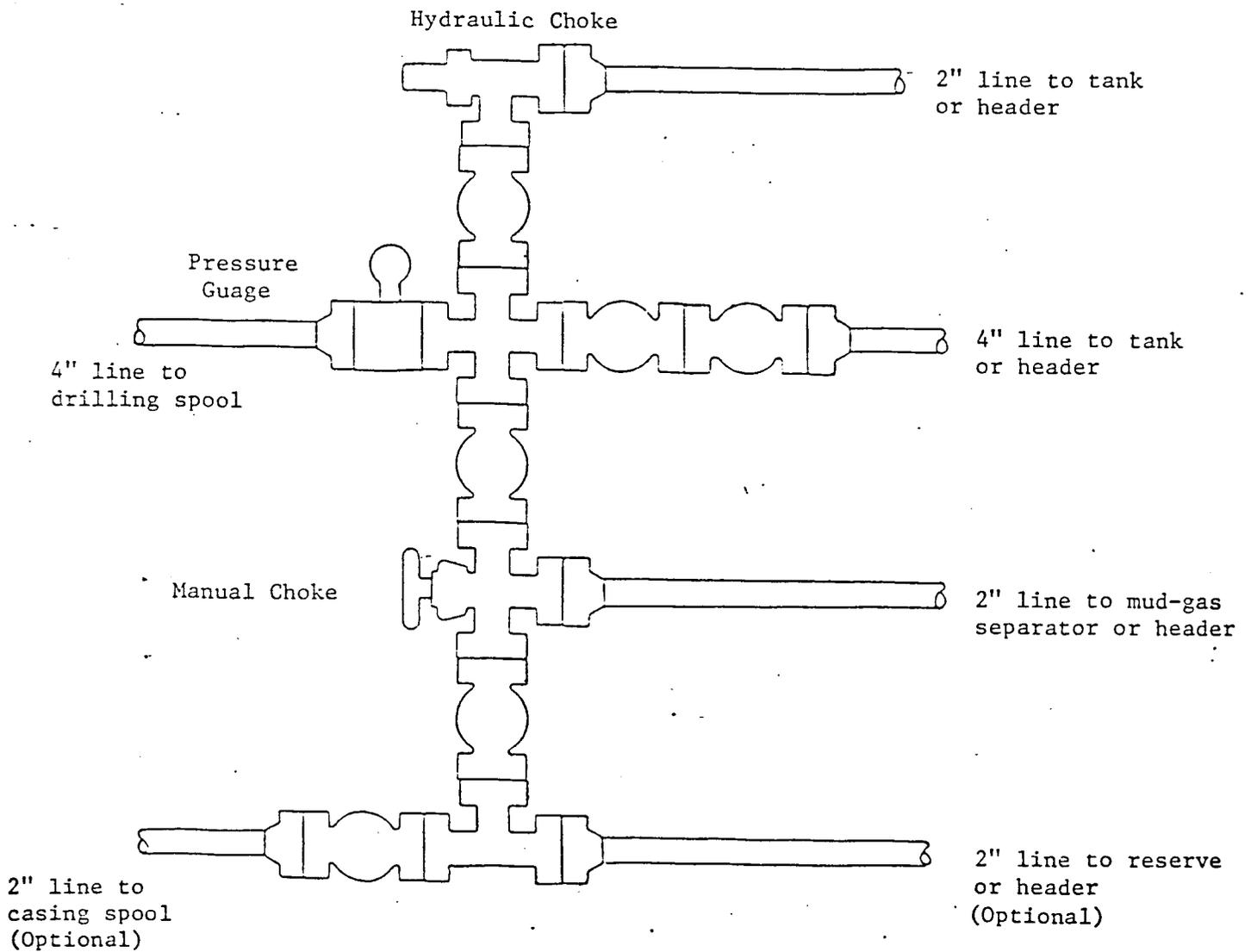
The Forest Service considers the existing road upgrading as "single-lane with turnouts reconstruction." Upgrading plans are, beginning at the Diamond Fork Ranger Station, as follows:

- (a) Surveyor and Gulf representative will traverse road with Forest Service Engineer to determine size and mark locations of culverts to be installed and locations of turnouts to be constructed.
- (b) Implace a 12" lift of pitrun for subgrade with a 4" gravel surface (<2") for a travel surface 14' wide through local soft spots where necessary. Such lift is for those areas where existing road is not situated on a firm surface.
- (c) Where existing road traverses a firm bedrock surface implace 4" of <2" gravel and make other improvements where necessary.
- (d) If practical, construct turnouts every 1000 feet. Each turnout to have a 10-foot wide travel surface 80 to 100 feet long. (This length and width will facilitate passage of construction equipment and meld with longrange Forest Service plans for a dual lane road.)

# CHOKE MANIFOLD

(Minimum Assembly)

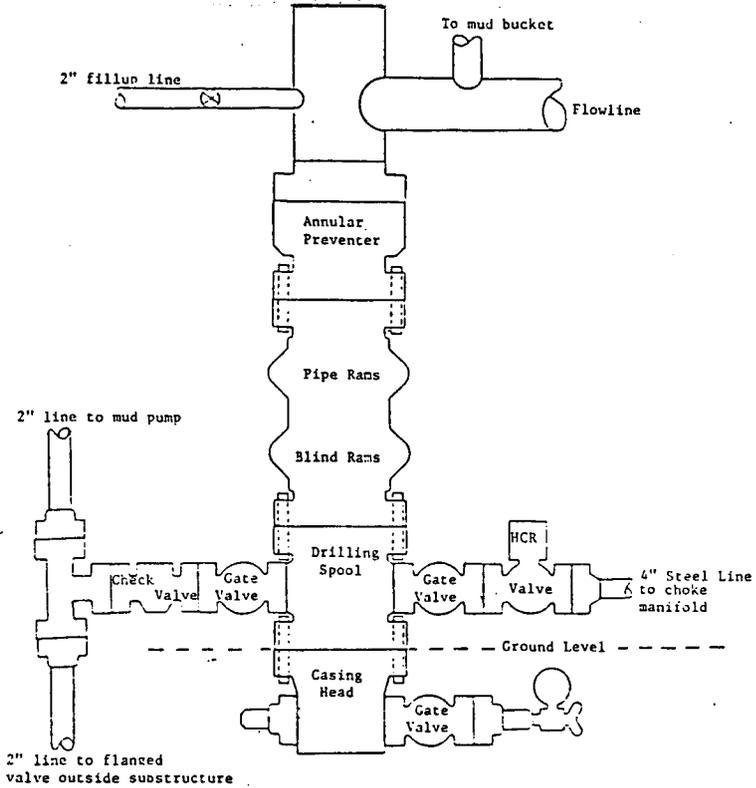
A 3,000 psi manifold will be used for 13 3/8" casing hook up.  
A 10,000 psi manifold will be used for 9 5/8" casing hook up.



BLOWOUT PREVENTER DRAWING

3000 PSI WORKING PRESSURE BOP HOOK-UP  
 SERIES 900 FLANGES OR BETTER (MINIMUM ASSEMBLY)

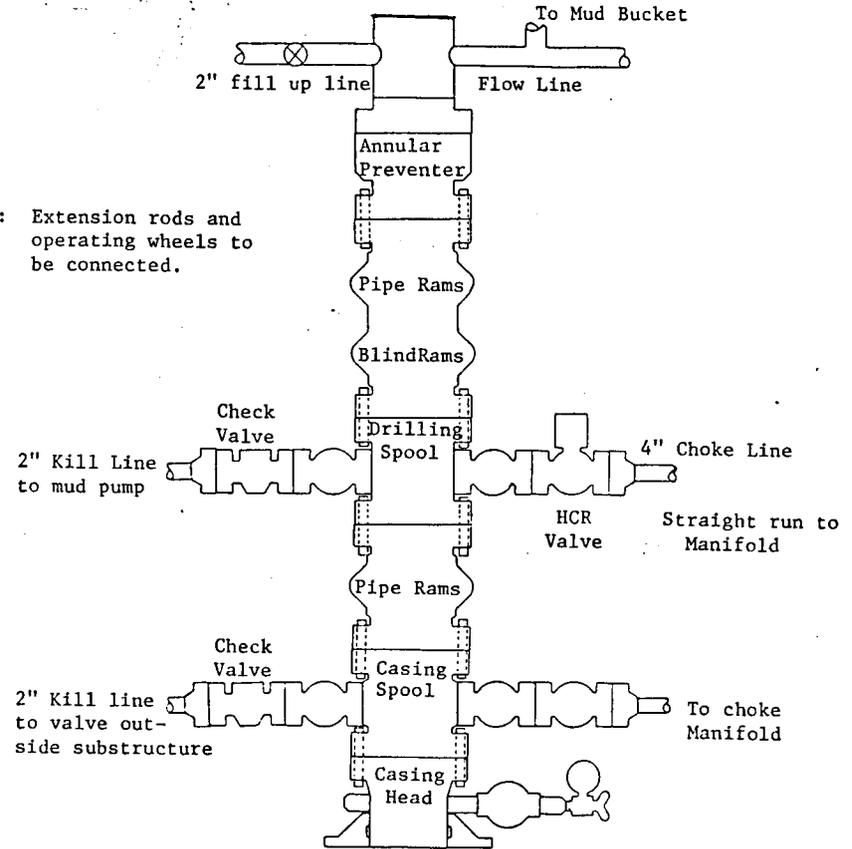
Install on 13 3/8" casing. Pressure test all rams to 500 & 2500 psi & Annular preventer to 500 and 1500 psi after nipping up and prior to drilling cement plug.



MINIMUM BOP HOOK-UP

Install on 9-5/8" casing. Pressure test to 500/10,000 psi after installing on 9-5/8" casing. 9-5/8" casing will be tested to 3000 psi.

Note: Extension rods and operating wheels to be connected.



Hydrogen sulfide gas may exist in the Permian rocks at 6500' or deeper. An H<sub>2</sub>S contingency program accompanies this application. Equipment in the safety trailer will include but is not limited to the following:

- (a) 8-300 cu. ft. bottles of compressed breathing air and manifold system.
- (b) 5 spare 45 CF bottles for reserve units.
- (c) 6-5 minute escape units.
- (d) 1-36 unit first aid kit.
- (e) 1 fire blanket.
- (f) 1 stretcher.
- (g) 1 flare gun w/cartridges.
- (h) 1-20# fire extinguisher w/bracket.
- (i) 500 ft. breathing hose w/quick connects - (safety trailer to rig).
- (j) On the rig floor, there will be 6-hose line work units w/7 minute escape cylinders, 6-5 minute escape units and 1-hand gas detector with tubes.

OTHER EQUIPMENT ON LOCATION WILL INCLUDE:

- (a) Windssocks will be installed to be visible from anywhere on location and at least two sets of wind streamers on streamer poles will be displayed. One wind sock will also be installed near the safety briefing areas.
- (b) In case of an accident, emergency escape routes are walkways in any upwind direction.
- (c) There will be 2 channel monitor with light and siren warnings. There will be detectors in cellar and at shale shaker.
- (d) There will be 100 sacks of zinc carbonate or other suitable H<sub>2</sub>S scavenger readily available as a neutralizing agent.
- (e) A warning sign will be placed at junction of access road with existing road.

10. The Anticipated Starting Date and Duration of the Operations

The anticipated drilling date is set for as soon as possible after examination and approval of all drilling requirements, completion of construction activities and planned for September 1, 1983.

The operations should be completed within 160 days after spudding the well and drilling to the casing point.

under pressure. Pipe rams will be operationally checked each 24-hour period and blind rams and with annular preventer each time pipe is pulled out of the hole.

Accessories to BOP's include an upper and a lower kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be fresh water gel with stocks of sorptive agents on site to handle possible surface fuel or oil spills. Heavier muds will be on location to be added if pressure requires.

<u>Depth</u>	<u>Type</u>	<u>Wt/Gal.</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0'-6000'	FWG	As low as possible	35-40	>15cc
6000'-12,500'	FWG	8.8-9.0	40-45	>10cc

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string.
- (b) A float will not be used.
- (c) A mud logging unit or gas detecting device will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging, and Coring Programs to be Followed

- (a) H<sub>2</sub>S Safety precautions will probably exclude any DST's planned in the Flagstaff, Park City, Diamond Creek, and Oquirrh Formations.
- (b) Dual Induction, Sonic, FDC, Density, Caliper and dipmeter logs will be run.
- (c) Coring is planned in the Park City Formation.
- (d) No fluid stimulation is planned for this well.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area, nor at the depths anticipated in this well. Lost circulation is likely between 3500' to 7500'.

# EXHIBIT "B"

## TEN-POINT COMPLIANCE PROGRAM OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C  
Company: Gulf Oil Corporation  
Well: Halls Federal Unit #1-13-3C  
Well Location: 115' FSL, 145' FEL  
Section 13, T.7S., R.5E.  
County: Utah State: Utah

### 1. Geologic Surface Formation

Green River

### 2. Estimated Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River	Surface
Flagstaff	2,000'
Price River	2,600'
Tertiary - Triassic Unconformity	4,700'
Park City	6,400'
Diamond Creek	8,000'
Oquirrh	10,000'

### 3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

<u>Formation</u>	<u>Depth</u>	<u>Remarks</u>
Flagstaff	2,000'	Oil
Park City	6,400'	Oil
Diamond Creek	8,000'	Oil
Oquirrh	10,000'	Oil

### 4. The Proposed Casing Program

<u>Size</u>	<u>Grade</u>	<u>Wt/Ft</u>	<u>Condition</u>	<u>Depth Set</u>
20"	H-40 STC	94	New	60'
13 3/8"	K-55 STC	54.5	New	1,000'
9 5/8"	K-55 STC	40	New	5,000'
7"	L-80 LTC	29	New	12,500'

### 5. The Operator's Minimum Specifications for Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use

OPERATOR GULF OIL CORP DATE 9-21-83

WELL NAME HALLS FED 1-13-3C

SEC SESE 13 T 7S R 5E COUNTY UTAH

43-049-30014  
API NUMBER

FED  
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

ND

PI

PROCESSING COMMENTS:

*Exception location considered on a 3 point basis  
(1) unitization agreement should be completed shortly,  
(2) more topography, and (3) consent of the  
other interest in 660' radius is provided*

CHIEF PETROLEUM ENGINEER REVIEW:

*9/22/83*

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 9-21-83  
BY: [Signature]

APPROVAL LETTER:

SPACING:

A-3

UNIT

c-3-a

CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

WATER

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER \_\_\_\_\_

UNIT \_\_\_\_\_

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

September 21, 1983

Gulf Oil Corporation  
Attn: W. L. Rohrer  
P. O. Box 2619  
Casper, Wyoming 82602

RE: Well No. Halls Fed. 1-13-3C  
SESE Sec. 13, T. 7S, R. 5E  
115' FSL, 145' FEL  
Utah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil 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. Prior to spudding, a copy of the Utah Division of Water Rights (Phone No. 801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

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

RONALD J. FIRTH - Chief Petroleum Engineer  
Office: 533-5771  
Home: 571-6068

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 43-049-30014.

Sincerely,

Norman C. Stout  
Administrative Assistant

NCS/as  
cc: Branch of Fluid Minerals  
Encl.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 Gulf Oil Exploration and Production Company  
~~Gulf Oil Corporation~~ (ATTN: W. L. Rohrer)

3. ADDRESS OF OPERATOR  
 P.O. Box 2619, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 115' FSL and 145' FEL  
 At proposed prod. zone SE 1/4 SE 1/4 Section 13

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 18 miles E NE of Spanish Fork, Utah

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 115'

16. NO. OF ACRES IN LEASE  
 1920

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. NA

19. PROPOSED DEPTH  
 12,500'

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 Ground 7778

22. APPROX. DATE WORK WILL START\*  
 September 1, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	94# H-40 STC	60'	110 sacks
17 1/2"	13 3/8"	54.5# K-55 STC	1,000'	900 sacks
12 1/4"	9 5/8"	40# K-55 STC	5,000'	900 sacks
8 1/2"	7"	29# L-80 LTC	12,500'	700 sacks

Drill 24" hole for conductor to 60' set 94# H-40 STC with 110 sacks; drill 17 1/2" hole for 13 3/8" casing to 1000' set 54.5# K-55 STC with 900 sacks; drill 12 1/4" hole for 9 5/8" casing to 5,000' set 40# K-55 STC with 900 sacks; drill 8 1/2" hole for 7" casing, if productive, to 12,500' set 29# L-80 LTC with 700 sacks.

Exhibits:

- "A" Survey Plat
- "B" Ten-point compliance program
- "C" BOP diagram
- "D" Multi-point requirements
- "E" County Map
- "F" Topographic map
- "G" Drill pad layout
- "H" Road center line survey

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. SIGNATURE: *Richard C. Smith* R. C. Smith TITLE: Area Drilling Supt. DATE: August 2, 1983

(This space for Federal or State office use)

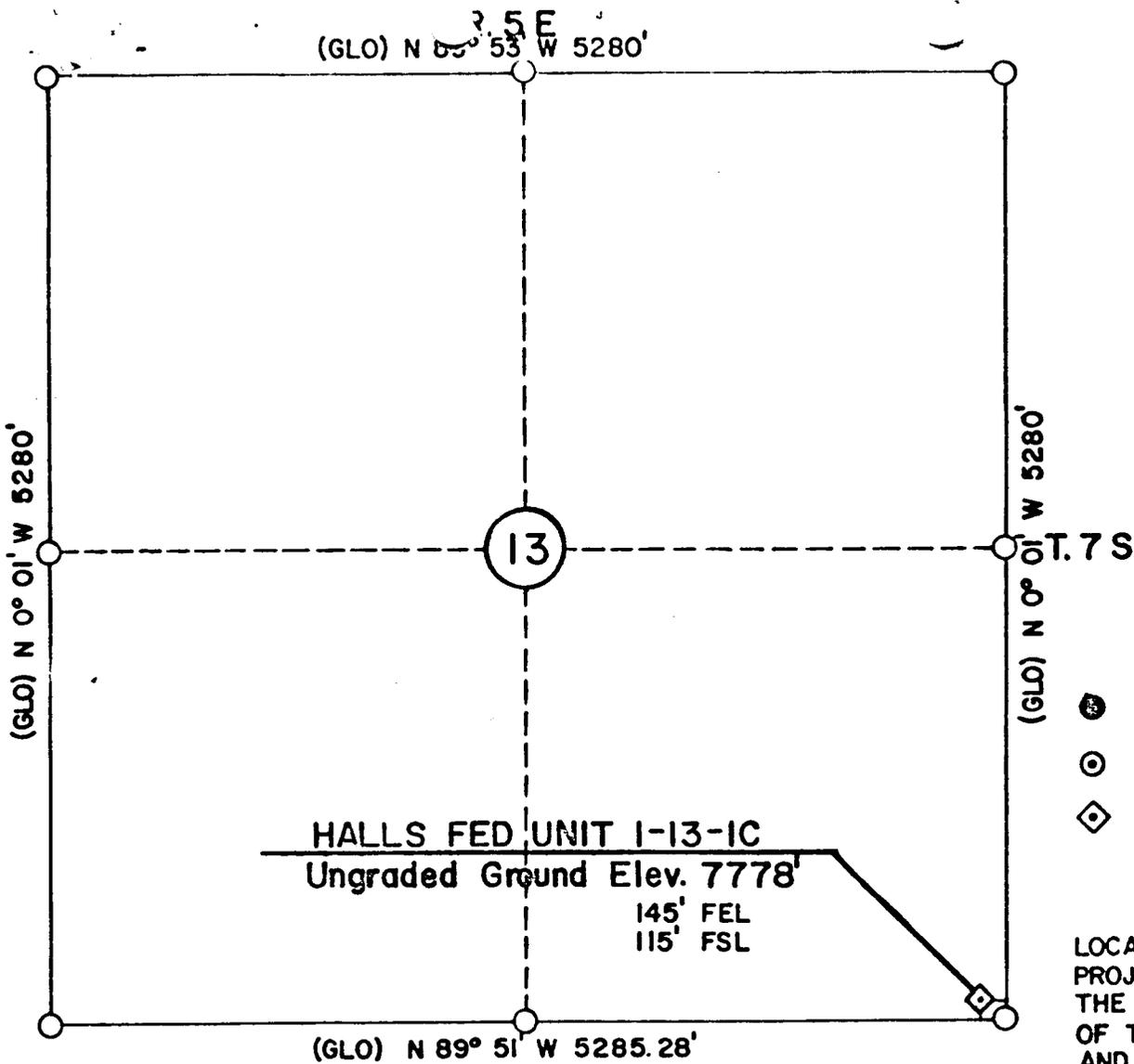
PERMIT NO. \_\_\_\_\_ APPROVAL DATE: NOV 15 1983  
 APPROVED BY: *[Signature]* TITLE: DISTRICT MANAGER

CONDITIONS OF APPROVAL, IF ANY: CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

\*See Instructions On Reverse Side

NOTICE OF APPROVAL

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



SCALE 1"=1000'

— NOTES —

- FOUND CORNER
- PROPORTIONED CORNER
- ◇ WELL LOCATION

LOCATION IS PROJECTED FROM THE TOWNSHIP CORNER OF T.7S and T.8S AND R.5E and R.6E USING GLO CALLS

STATE OF UTAH )  
 COUNTY OF UTAH ) ss CERTIFICATE OF SURVEYOR

I, DICK R. GRIFFIN of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey under my supervision on July 11, 1983, and that it shows correctly the drilling location of HALLS FED. UNIT 1-13-1C for GULF OIL & EXPLOR. CO. as staked on the ground during said survey.

*Dick R. Griffin*  
 DICK R. GRIFFIN UTAH R.L.S. 5120

## EXHIBIT "A"

MAP SHOWING DRILLING  
 LOCATION OF THE  
**HALLS FED UNIT**  
**1-13-1C**  
 SE 1/4 Section 13  
 T7S, R5E of the  
 SALT LAKE BASE and MERIDIAN  
 UTAH COUNTY, UTAH

D.R. GRIFFIN AND ASSOCIATES, INC.

P.O. BOX 1059

ROCK SPRINGS, WY. 82901

(307) 362-5028

JOB NO. 789

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

1-13-3C

Company Gulf Oil Exploration and Production Company Well No. Halls Fed. Unit

Location SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 13. T. 7 S., R. 5 E., SLM Base Meridian Lease No. U-29759

A COPY OF THESE CONDITIONS SHOULD BE FURNISHED YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (30 CFR 221), and the approved plan of operations. The operator is considered fully responsible for the actions of his subcontractors. The following items are emphasized:

1. There shall be no deviation from the proposed drilling and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling producing, suspended, or abandoned shall be identified in accordance with 30 CFR 221.22. Any changes in operations must have prior approval of this office. Pressure tests are required before drilling out from under all casing strings set and cemented in place. Blowout preventer controls must be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs. All BOP pressure tests must be recorded on the daily drilling report.
2. All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished this office for analysis. All oil and gas shows will be adequately tested for commercial possibilities, reported and protected.
3. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of this office. If operations are to be suspended, prior approval of this office must be obtained and notification given before resumption of operations.

In the event abandonment of the hole is desired, an oral request may be granted by this office, but must be timely followed within 15 days with a "Notice of Intention to Abandon" (Form 9-331). Unless the plugging is to take place immediately upon receipt of oral approval, the District Manager must be notified at least 48 hours in advance of the plugging of the well in order that a representative may witness plugging operation. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form 9-331) must be submitted within 15 days after the actual plugging of the well bore, reporting where the plugs were placed, and the current status of the surface restoration. If surface restoration has not been completed at that time, a follow-up report on form 9-331 should be filed when all surface restoration has been completed and the location is considered ready for final inspection.

4. The spud date will be reported orally to the respective District Manager's office within 48 hours after spudding. If the spudding occurs on a week-end or holiday, wait until the following regular workday to make this report.

Periodic drilling progress reports must be filed directly with the District Manager's office on a frequency and form or method as may be acceptable to the District Manager.

In accordance with NTL-1, this well must be reported on Form 9-329 "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report should be filed, in duplicate, directly with Royalty Management Accounting Center, Minerals Management Service, P. O. Box 2859, Casper, Wyoming 82602.

Any change in the program must be approved by the District Manager. "Sundry Notices and Reports on Wells" (form 9-331) must be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alteration of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground will require the filing of a suitable plan pursuant to NTL-6, and prior approval by the District Manager.

5. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (form 9-330) will be submitted not later than 15 days after completion of the well or after completion of operations being performed, in accordance with 30 CFR 221.59. Two copies of all logs run, core descriptions, core analyses, well-test data, geologic summaries, sample descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 9-330. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by this office.
6. Significant surface values (are) (are not) involved at this location. Accordingly, you (must) (need not) notify at least (24) (48) hours prior to commencing field operations to allow this office to have personnel present for consultation during the construction of roads and locations.

Your contact with this office is: Clair E. Quilter  
Office Phone: (801) 524-5340 Home Phone: (801) 969-07-62  
City: West Valley City State: Utah

District Manager's Office Address and contacts are:

Address: 2370 South 2300 West, Salt Lake City, Utah 84119  
District Manager: Frank W. Snell Home Phone: (801) 278-1628

7. SURFACE OPERATING STANDARDS

Unless otherwise specified herein, construction and maintenance of surface facilities approved under this plan shall be in accordance with the guidelines set forth in the BLM/FS/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development". This includes but is not limited to such items as road construction and maintenance, handling of top soil and rehabilitation.

8. If a replacement rig is contemplated for completion operations, a "Sundry Notice" to that effect must be filed, for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
9. Pursuant to NTL-2B requirements regarding disposal facilities for new wells, this is authorization for unlined pit disposal of the water produced from this well for a period of 90 days from the date of initial production for sales purposes. During this period, an application for approval of the permanent disposal method, along with the required water analysis and other information must be submitted for the District Manager's approval. Failure to timely file an application within the time allowed will be considered an incident of noncompliance, and will be grounds for issuing a shut-in order until the application is submitted.
10. This permit is valid for a period of one year from the date of approval. If construction does not commence within 90 days from approval, the operator must contact this office 15 days prior to beginning construction. Construction under adverse conditions may require additional stipulations. If the permit terminates, any surface disturbance created under the application must be rehabilitated in accordance with the approved plan. After termination, it is required that a new application be filed for approval for any future operations.
11. If a tank battery is constructed on this lease, it must be surrounded by a fire wall of sufficient capacity to adequately contain the storage capacity of the battery.
12. This Application for Permit to Drill is approved subject to the requirement that, should the well be successfully completed for production, this office must be notified when it is placed in a producing status. Such notification will be by telegram or other written communication, and must be received in this office by not later than the first business day next following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - a. Operator name, address and telephone number.
  - b. Well name and number.
  - c. Well location (1/4, 1/4, Section, Township, Range and Prime Meridian).
  - d. Date was placed in a producing status.
  - e. The nature of the well's production, i.e. crude oil, or crude oil and casinghead gas, or natural gas and entrained liquid hydrocarbons.

- f. The OCS Federal or Indian lease prefix number on which the well is located. Otherwise, the non-Federal or non-Indian land category, i.e., State or private.
  - g. If appropriate, the unit agreement name, number and participating area name.
  - h. If appropriate, the communitization agreement number.
13. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons (and gilsonite or saline minerals) in the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale (and gilsonite or saline minerals) resource. Surface casing program may require adjustment for protection of fresh water aquifers. (See General Outline and Example attached.)
14. All stipulations as outlined in Alternative A & B of the environmental analysis completed by the Spanish Fork Ranger District of the Uinta National Forest shall be adhered to (copy attached).

SUPPLEMENTAL STIPULATIONS OF APPROVAL ATTACHED

## Alternative A & B Stipulations Attachment

### Alternative A

#### 1. Pre-construction Phase

a. The well pad size, location, orientation and access roads shall be located to minimize cuts and fills. Long, "sliver" fills will be avoided. The drill pad site shall be dirt cut only, no fills greater than three feet will be allowed.

b. Support facilities such as crew quarters, etc., will be located off the drill pad whenever possible to reduce required pad size and visual impact.

c. Archeological sites uncovered or objects discovered will immediately be reported to the Forest Service. Construction activities will cease upon discovery and will not recommence until the site has been cleared by a Forest Service archeologist.

#### 2. Construction Phase

a. Sufficient topsoil to cover the reshaped road prism will be stripped and stockpiled as a berm along the outside of the road from the stockpile area to the drill pad for respreading should the road need to be closed in the event of a nonproducing well.

b. Topsoil from the pad site will be stripped and stockpiled for later respreading over the reshaped well pad. This topsoil will be protected against loss from water or wind transport and from compaction by heavy equipment. The area between Pt's #137 and 139 will not be a topsoil stockpile area. Overburden from road cut or pad cut will be put there instead. The topsoil designated to be placed there will be placed at another topsoil location.

c. Brush and slash will be stockpiled for later burning or chipping. Larger materials may be made available for firewood at the discretion of the permittee. Permits will be sold and administered by the Spanish Fork Ranger District. If the permittee chooses to dispose of larger materials resulting from clearing of road and pad operations, it will be in a manner approved by the Spanish Fork District Ranger or his authorized representative.

Road construction, reconstruction and maintenance will be accomplished such that no materials will be wasted along any streambank or in any stream channel except in areas approved by the Forest Service for streambank stabilization or culvert backfill. Waste areas will be identified on a map by the permittee and approved by the Forest Service prior to use.

d. Road construction, reconstruction and maintenance will be accomplished such that no materials will be wasted along any streambank or in any stream channel except in areas approved by the Forest Service for streambank stabilization or culvert backfill. Waste areas will be identified on a map by the permittee and approved by the Forest Service prior to use.

e. Construction materials will be obtained from the permit area disturbed sites only. Additional construction materials needed will be obtained from private or other sources off the Forest.

f. Mulching, water control devices, etc., will be used on exposed surfaces to prevent sediment entering the streams in Halls Fork or Chase Creek.

g. Water used from Halls Fork or Chase Creek will be by permit or by permission from the Utah State Engineer's Office and the water right owners. Water use will be such that the stream is not dewatered sufficient to degrade or damage the downstream fish habitat. Water withdrawal sites and procedures will be approved by the Forest Service prior to any construction or withdrawal of water.

h. Streambeds and banks will not be altered for water withdrawal except as approved by the Forest Service.

i. Spill of oils, drilling chemicals, pesticides or other chemicals will immediately be contained in as small an area as possible. The contaminated soil will be excavated and hauled to an approved site for disposal or for treatment. All spills will immediately be reported to the Spanish Fork District Ranger or his authorized representative.

j. Access road construction from the soil stockpile area to the drill pad site will be full bench construction with vertical cut slopes. Tree clearing widths will be to the top of cut and bottom of fill. Road widths will be the minimum necessary to accomplish work.

### 3. Rehabilitation in the Event of Production

a. The well pad will be reduced to a size to accommodate the tank battery required by production and to satisfy any spacing requirements established by OSHA.

b. All facilities will be painted colors which blend with the area to reduce the visual impact. Some camouflaging of structure shapes may be necessary for facilities silhouetted against the skyline from any travelway. Colors and patterns must be approved by the Spanish Fork District Ranger or his authorized representative.

c. Reserve pits will be fenced for wildlife and livestock protection, and flagged or otherwise treated to prevent birds from landing in the pits.

d. Areas disturbed and no longer needed for operation will be shaped to within 10 percent of the original slopes and contoured and revegetated in a manner approved by the Forest Service. A revegetation plan will be submitted by the company for approval by the Forest Service. This revegetation plan will not show any new plant species as being introduced to the area.

4. Waste Disposal

a. Sewage and garbage (see NTL-6) from personal trailers, crew quarters, administrative facilities, etc., will be stored in containers and will be removed from the site to an approved disposal area. Sewage and garbage will not be disposed of on site. Burnable trash may be burned on site at a place and time approved by the Spanish Fork District Ranger or his authorized representative.

b. Temporary trash storage sites will be fenced to protect the trash from blowing winds, livestock and wildlife. If a pit is used, the pit will be buried after all trash is removed. The site will be cleaned and all debris trucked from the location and disposed of at an approved site.

5. Site Restoration and Rehabilitation (see NTL-6)

a. Upon completion of operations, and if the well is to be abandoned, the drill pad area and access roads will be backfilled, compacted, shaped and contoured to within 10 percent of the original topography slope grades and contours.

b. A minimum of four inches of topsoil will be spread over the entire disturbed surface after slope shaping is complete. The area will be seeded, fertilized and mulched with a straw-asphalt mulch in a manner approved by the Forest Service. Access roads built by the permittee will be rehabilitated and revegetated in the same manner as outlined above.

c. Any oil on or in the reserve pit will be removed or overhead flagging installed to prevent birds from landing.

d. A livestock fence will be installed around the rehabilitated drill pad and other large, disturbed areas immediately after site seeding to prevent livestock from disturbing the revegetated areas.

e. Rehabilitation and revegetation measures will take place within 90 days of completion of operations or as directed by the Spanish Fork District Ranger or his authorized representative. Followup revegetation efforts will be performed as necessary to achieve revegetation. These elements will be included in the site revegetation plan to be submitted by the company to the Forest Service.

## Management Constraints

### 1. Pre-construction Phase

- a. A cultural resource inventory will be performed on all proposed disturbed surfaces by a Forest Service approved organization prior to any land disturbing activities by the permittee. The cultural inventory report shall be submitted to the Forest Service's Spanish Fork District Office for approval prior to granting permission to the U.S.G.S. for an approved permit to drill.
- b. Sites designating topsoil storage areas will be designated on a site plan, and submitted to the Forest Service.
- c. Plans for all road construction, reconstruction, modification and maintenance will be submitted for Forest Service approval prior to the granting of any road use permits.
- d. Access to the Halls Fork area will be provided to the general public during the annual Utah Elk Hunting Season and regular Deer Hunting Season. Access along the road from the Ruby Christensen Memorial Youth Forest to the drill site will be provided at the permittee's discretion. Ordinarily this road is to remain closed to public access during drilling operations.
- e. All road construction, maintenance and rehabilitation will be in accordance with the "Uinta National Forest Guide to Permitted Road Construction".
- f. The permittee will be responsible for submitting a site plan which shows specific locations of crew camps, administration areas, equipment parks, etc., prior to any construction or use of these areas.
- g. A water withdrawal plan detailing amounts, points of withdrawal, times of withdrawal and detailed water withdrawal site plans will be submitted to the Forest Service prior to any water withdrawals. This plan will contain water withdrawal clearances from state, private or other entity water owners. No water will be withdrawn until clearance is received from the Forest Service and the Utah Division of Wildlife Resources upon approval of the water withdrawal plan.
- h. Snow removal on access roads will be the responsibility of the permittee. Repair of paved surfaces damaged by the permittee as a result of the snow removal or other causes will be accomplished as quickly as conditions permit, but before the summer use season begins.
- i. A gate will be installed on the Diamond Fork Road at a place designated by the Forest Service to control public access during winter months. The design will be of Forest Service approval and shall be such that the permittee and the Forest Service control access. A gate on the drill pad access road will be at the discretion of the permittee.

2. Construction Phase

a. Where livestock fences must be moved to accommodate road or pad construction, new temporary fence will be constructed and maintained by the permittee to maintain livestock grazing allotment integrity.

b. Livestock range fences will not be damaged or removed. Where roads cross these fences, cattle guards will be installed. Some minor fence relocation may be permitted by the Spanish Fork District Ranger or his authorized representative. The permittee is responsible for all cattle-guard and fence construction.

c. Permittees vehicles will not exceed load weight limits established by Utah County for the Diamond Fork Road or by the Forest Service for the Halls Fork Road.

d. The permittee will strictly enforce speed limits in the project area for his equipment operators and employees.

e. The permittee will be responsible for coordinating access and construction with the Bureau of Reclamation, Central Utah Project Officers and their project contractors in the Diamond Fork area.

f. No materials from road construction, maintenance, reconstruction, etc. will be allowed to enter or be placed in any stream except as approved by the Spanish Fork District Ranger or his authorized representative for streambank stabilization.

g. No firearms will be carried or used by the permittee, his employees or contractors except during regular hunting seasons.

3. Rehabilitation in the Event of Production

a. Pumping units will be fenced and recycle pumps will be enclosed.

b. A compacted soil berm, two feet or more in height, will be constructed around the tank battery for spill containment.

4. Waste Disposal

a. Cuttings not retained for evaluation purposes will be dumped in the reserve pit, or disposed of in a manner approved by the Spanish Fork District Ranger or his authorized representative.

b. Water produced from the well will be dumped in the reserve pit and handled to the requirements of NTL-2B.

c. All drilling fluids are to be retained in mud tanks or the reserve pit.

d. Produced oil will be collected in tanks and will be trucked from location.

5. Site Restoration and Rehabilitation

- a. During drilling operations, the reserve pit will be fenced on three sides with only the drilling rig side remaining unfenced. This fence will be maintained in good repair at all times.
- b. After the site is shaped, the disturbed livestock fence will be reconstructed along the original alignment. The fence will be constructed according to Forest Service Standards.
- c. All cattleguards no longer needed will be removed by the permittee.

Monitoring Requirements

Monitoring will be accomplished by Forest Service specialists. The permittee should also provide monitoring to assist in their management of the project.

1. Stream sedimentation above Three Forks in Diamond Fork will be monitored to insure stream quality standards are being adhered to.
2. Site revegetation will be monitored for two years after site rehabilitation to insure that revegetation efforts have been successful.
3. Culverts and other drainage structures will be monitored to insure proper functioning and that they are not significantly contributing to stream sedimentation.

Mitigation measures for Alternative B include all those listed for Alternative A plus the following:

1. Pre-construction Phase

- a. Support facilities such as crew quarters, etc., will be located off the drill pad where possible to reduce the drill pad size as much as possible.
- b. The drill pad will be designed so that no earth fills greater than five feet will be required to minimize the visual impacts from pronounced color changes.

2. Construction Phase

- a. No additional mitigation measures.

3. Rehabilitation in the Event of Production

- a. An earthen berm will be constructed along the southern perimeter of the reduced pad to mask pumping and storage facilities. This berm will be a minimum of five feet in height and will be revegetated in accordance with the site revegetation plan.

b. All structures will be selected and constructed such that their shape, color and texture detract as little as possible from the site visual quality.

4. Waste Disposal

a. No additional mitigation measures.

5. Site Restoration and Rehabilitation

a. Upon completion of operations the drill pad will be backfilled and shaped to within 10 percent of the original slope topography. Approximately 60 to 70 feet of fill will be required over the drill pad, the fill shaped and the site revegetated to mitigate the visual impacts.

Management Constraints

No change from Alternative A.

Monitoring Requirements

No change from Alternative A



IN REPLY  
REFER TO:

# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

SALT LAKE DISTRICT OFFICE  
2370 SOUTH 2300 WEST  
SALT LAKE CITY, UTAH 84119

## General Outline and Example for the Protection and Isolation of Ground Water and Oil Shale

Generally, the oil shale occurs with varying thicknesses and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta Basin, for example, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale. These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.

- B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement metal baskets or equivalent as described below and on attached sketches:
1. Cement first stage through the casing shoe using 150 percent of the calculated volume of cement to fill annulus back to base of lower aquifer.
  2. Place 1st stage collar (with metal basket immediately below) at a selected point in the lower one third of the oil shale zone using 120% of calculated volume of cement to be at least 600 feet above the stage collar or 100 feet below the top of the oil shale.
  3. Place 2nd stage collar (with metal petal basket immediately below) 50 feet above the top of the top aquifer and cement using 150% volume of cement to at least 300 feet above the stage collar.
- C. The above is an example. Reasonable equivalents that accomplish these same protective measures, depending on the individual cases will be considered for approval.
- D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

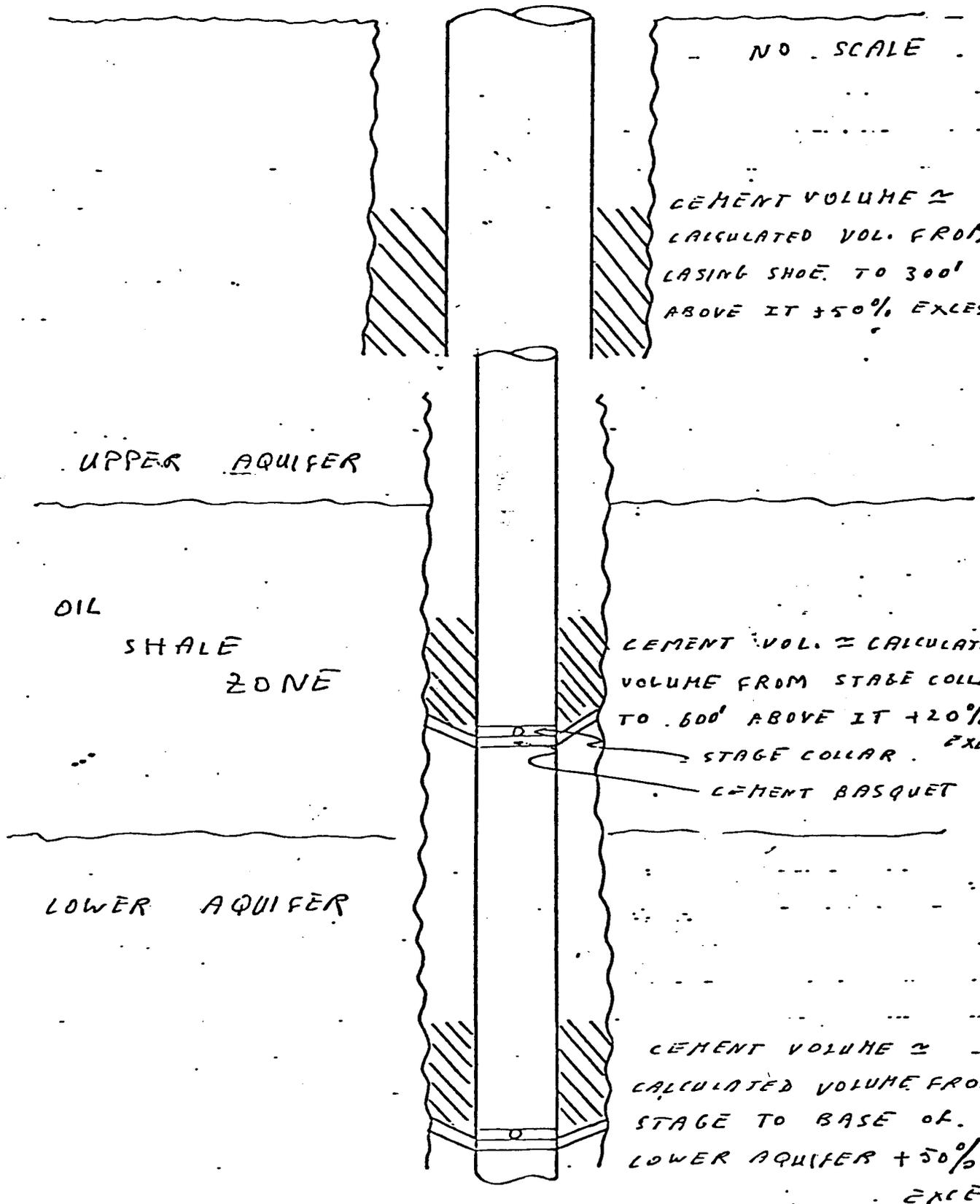
- E. The Operator of such well should notify the U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached sketches:

1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.

# PARTIAL CASING AND CEMENTING PROGRAM FOR WELLS IN THE UINTA BASIN

CEMENT TO BE PLACED ALONG LOW PERMEABILITY SECTIONS



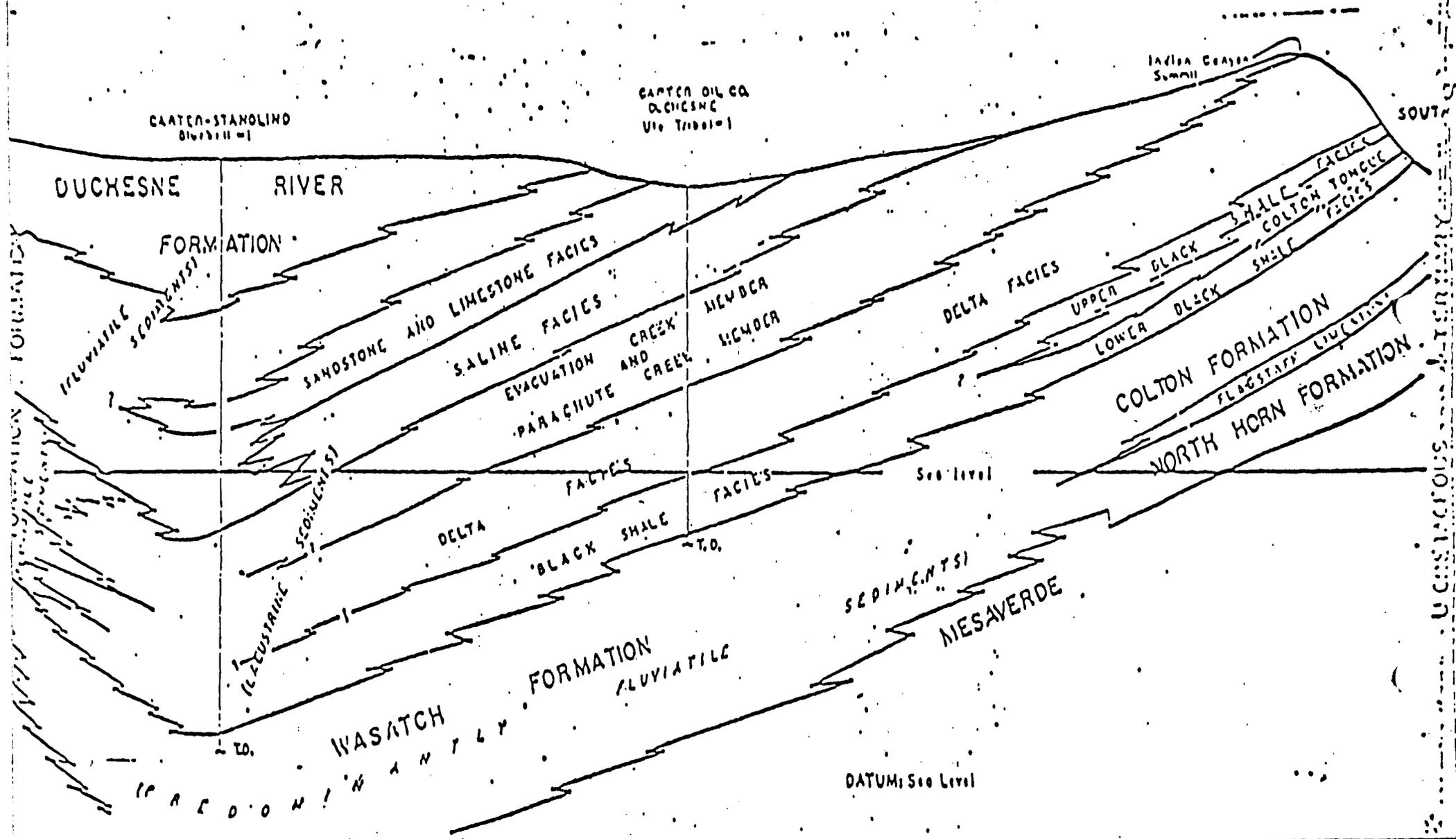


Figure 5.- View east of cross section of Uinta Basin showing stratigraphy and intertonguing of Tertiary rocks. Ute Tribal-1 (in section) is located about 8 miles southeast of the application area.

# Gulf Oil Exploration and Production Company

L. G. Rader  
PRODUCTION MANAGER - CASPER AREA

P. O. Box 2619  
Casper, WY 82602

September 5, 1984

RECEIVED

SEP 13 1984

DIVISION OF OIL  
GAS & MINING

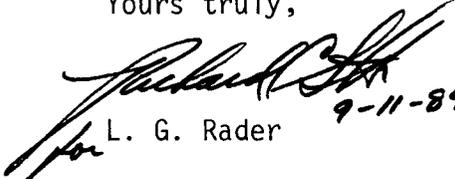
State of Utah  
Natural Resources  
Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Re: Halls Federal Unit 1-13-3C  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  Section 13, Township 7  
South, Range 5 East,  
Utah County, Utah

Gentlemen:

Gulf Oil Exploration and Production Company, Division of Gulf Oil Corporation, requests all data submitted from the referenced well be kept confidential. It is requested that this confidentiality status be maintained for the maximum time allowed by the regulations under which the data are submitted. Efforts made to comply with this request will be gratefully appreciated.

Yours truly,

  
L. G. Rader  
9-11-84

KEK/dlb

cc:Department of Interior  
Bureau of Land Management  
136 E. S. Temple  
Salt Lake City, Utah 84111





1636 West North Temple • Salt Lake City, UT 84116 • 801-533-6071

January 20, 1984

**Gulf Oil Exploration and Production Company**

P. O. Box 2619  
Casper, WY 82602

Dear Applicant:

RE: TEMPORARY APPLICATION  
NUMBER 51-5525 (T59473)

Enclosed is a copy of the above numbered approved Temporary Application. This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire November 30, 1984, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it is with the Area Engineer, Edward Feldt. The telephone number is (801)533-6071.

Yours truly,

Dee C. Hansen, P. E.  
State Engineer

DCH:slm

Enclosure

**TEMPORARY**

NOV 10 1983

APPLICATION TO APPROPRIATE WATER STATE OF UTAH

51-5525

NOTE: The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

1. Irrigation [ ] Domestic [ ] Stockwatering [ ] Municipal [ ] Power [ ] Mining [ ] Other Uses [X]

2. The name of the applicant is Gulf Oil Exploration and Production Company

3. The Post Office address of the applicant is P. O. Box 2619, Casper, WY 82602

4. The quantity of water to be appropriated second-feet and/or 8.0 acre-feet

5. The water is to be used for Other from Dec. 1, 1983 to November 30, 1984

other use period from to

and stored each year (if stored) from to

6. The drainage area to which the direct source of supply belongs is (Leave Blank)

7. The direct source of supply is\* Underground water (well) (Name of stream or other source)

which is tributary to, tributary to

\*Note.-Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank.

8. The point of diversion from the source is in Utah County, situated at a point\* 1) North 1200 ft. & West 4100 ft.; 2) North 3500 ft. & West 400 ft., all from the SE Cor. Sec. 18, T7S, R6E, SLB&M (4 miles North of the Diamond Fork Guard Station)

\*Note.-The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object.

9. The diverting and carrying works will consist of 6-inch well, 100 to 1000 feet deep

10. If water is to be stored, give capacity of reservoir in acre-feet height of dam area inundated in acres legal subdivision of area inundated

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows: Total Acres

12. Is the land owned by the applicant? Yes No XX If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes XX No If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity.

15. If application is for mining, the water will be used in Mining District at the mine, where the following ores are mined

16. If application is for stockwatering purposes, number and kind of stock watered

17. If application is for domestic purposes, number of persons, or families

18. If application is for municipal purposes, name of municipality

19. If application is for other uses, include general description of proposed uses Water to be used for exploratory oil drilling.

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE 1/4 SE 1/4, Sec. 13, T7S, R5E, SLB&M

21. The use of water as set forth in this application will consume 8.0 acre-feet of water and second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows:

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Paragraph #5: Temporary permit is requested from December 1, 1983 to November 30, 1984 for oil exploratory drilling.

Paragraph #8: The reason for the 2 wells requested is the unknown location of the water table. Only one well will be used.

Paragraph #12: Land is being leased from the Bureau of Land Management.

Paragraph #13: The applicant has a permit for water usage from Hall's Fork Creek. However, due to the inclemency of the weather, applicant requires a water source nearer the place of use.

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

*[Handwritten Signature]* (Drilling Engineer)  
Signature of Applicant\*

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, }  
County of..... } ss

On the ..... day of ....., 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

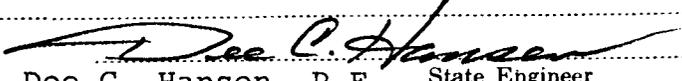
**FEEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH**

Flow rate — c.f.s.	Cost	
0.0 to 0.1 .....	\$ 15.00	
over 0.1 to 0.5 .....	30.00	
over 0.5 to 1.0 .....	45.00	
over 1.0 to 15.0 .....	45.00	plus \$7.50 for each cfs above the first cubic
over 15.0 .....	150.00	foot per second.
Storage — acre-feet		
0 to 20 .....	22.50	
over 20 to 500 .....	45.00	
over 500 to 7500 .....	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500 .....	150.00	500 acre feet.

(This section is not to be filled in by applicant)

**STATE ENGINEER'S ENDORSEMENTS**

1. 11-10-83 Application received by mail ~~over counter~~ in State Engineer's office by am
2. Priority of Application brought down to, on account of .....
3. 11-10-83 Application fee, \$ 15.00, received by am Rec. No. 04011
4. Application microfilmed by ..... Roll No. ....
5. 11-15-83 Indexed by am Platted by .....
6. 01/06/83 Application examined by SOA
7. Application returned, ..... or corrected by office .....
8. Corrected Application resubmitted by mail ~~over counter~~ to State Engineer's office.
9. Application approved for advertisement by .....
10. Notice to water users prepared by .....
11. Publication began; was completed .....
- Notice published in .....
12. Proof slips checked by .....
13. Application protested by .....
14. Publisher paid by M.E.V. No. ....
15. Hearing held by .....
16. Field examination by .....
17. 01/06/83 Application designated for approval ~~rejection~~ SOA S.G.
18. 1/20/84 Application copied or photostated by slm proofread by .....
19. 1/20/84 Application approved ~~rejected~~
20. Conditions:  
 This Application is approved, subject to prior rights, as follows:
  - a. Actual construction work shall be diligently prosecuted to completion.
  - b. Proof of Appropriation shall be submitted to the State Engineer's office by NPR
  - c. TEMPORARY APPROVAL -- EXPIRES November 30, 1984.
21. Time for making Proof of Appropriation extended to .....
22. Proof of Appropriation submitted.
23. Certificate of Appropriation, No. ...., issued

  
 Dee C. Hansen, P.E., State Engineer

Application No. 59473

WATER RIGHTS DATA BASE  
 ENTERED - DATE 1/21/83 BY AM  
 VERIFIED - DATE 11/21/83 BY AM

# Gulf Oil Exploration and Production Company

R. C. Smith  
Area Drilling Superintendent

P. O. Box 2619  
Casper, WY 82602

November 2, 1984

**RECEIVED**

NOV 05 1984

State of Utah  
Department of Natural Resources & Energy  
Division of Oil, Gas and Mining  
ATTENTION: Well Records  
4241 State Office Building  
Salt Lake City, UT 84114

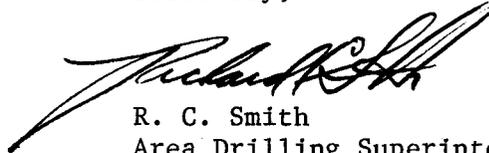
**DIVISION OF OIL  
GAS & MINING**

Re: Gulf Oil Corporation  
Halls Federal Unit 1-13-3C  
SE $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 13, T5S., R7E  
Utah County, Utah

Dear Sir:

Attached hereto are three copies of the Sundry Notice indicating modification of the drilling program to be used at the referenced well.

Sincerely,



R. C. Smith  
Area Drilling Superintendent

DB:ljj

Enclosures



RECEIVED

CONFIDENTIAL

Form 9-331  
Dec. 1973

NOV 05 1984

Form Approved.  
Budget Bureau No. 42-R1424

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
DIVISION OF OIL  
GAS & 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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Gulf Oil Corporation Attn: W. L. Rohrer

3. ADDRESS OF OPERATOR  
P. O. Box 2619, Casper, Wyoming 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 115' FSL & 145' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
II-29759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Halls Unit

8. FARM OR LEASE NAME

9. WELL NO.  
Halls Federal Unit 1-13-3C

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13, T7S., R5E.

12. COUNTY OR PARISH 13. STATE  
Utah Utah

14. API NO.  
43-049-30014

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
Ground: 7,778'

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

REQUEST FOR APPROVAL TO:                      SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF                      

FRACTURE TREAT                      

SHOOT OR ACIDIZE                      

REPAIR WELL                      

PULL OR ALTER CASING                      

MULTIPLE COMPLETE                      

CHANGE ZONES                      

ABANDON\*                      

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

(other) Modification of Drilling Program (see also reverse side)

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.)\*

The Casing Program as submitted in a Sundry Notice on August 6, 1984, has been changed due to equipment availability.

	Size of Hole	Size of Casing	Weight Per Foot	Setting Depth	Quantity of Cement
From:	34"	30"	Construction Grade	60'	150 sks
	20"	16"	#75 K-55 STC	1,200'	1,000 sks
	13 1/2"	10-3/4"	51 & 45.5# L-80 & K-55 STC	5,500'	1,500 sks
	9 1/2"	5 1/2"	17# K-55 & L-80	12,500'	1,000 sks
To:	34"	30"	Construction Grade	60'	150 sks
	26"	20"	75# K-55 STC	1,200'	1,500 sks
	14-3/4"	10-3/4"	51 & 45.5# L-80 & K-55 STC	5,500'	1,750 sks
	9 1/2"	5 1/2"	17# K-55 & L-80	12,500'	1,000 sks

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

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

SIGNED Richard C. Smith TITLE Area Drilling Superintendent DATE November 2, 1984

(This space for Federal or State Approval)

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

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

DATE: 11/8/84  
BY: John R. Boyer

Federal approval of this action is required before commencing operations.

\*See Instructions on Reverse Side

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Water permits issued by the Utah State Engineer are for surface water from Hall Fork in NE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 17, Township 7 S., Range 6E., (application: 84-51-12) and application 59473/51-5525 is for a water well somewhere along the access road in Sec. 18. One dry hole was drilled along the road in SE $\frac{1}{4}$  SW $\frac{1}{4}$  Section 18 to about 1000 feet with no indication of water. A second hole was drilled in SE $\frac{1}{4}$  NE $\frac{1}{4}$  Section 18 to 884 feet and appears capable of producing 44 gallons per minute with static level at 300 feet. Gulf plans to lay insulated pipeline along the toe of the road fill and out of way of traffic and snowplows. The surface water permit will not be utilized unless the water well fails to be sufficient for drilling needs.

A septic tank and leaching field were located by directive of the State Health Department. Such location necessitated a shift in position of the camp to near the effluent disposal system.

Original plans on the reserve pit called for a 36 mil reinforced plastic liner. Due to presence of sharp rocks which required blasting, it is deemed advisable to omit the liner and use bentonite if needed.

Oral approval was granted by the U S F S for these modifications as specific problems developed.

# CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

## SPODDING INFORMATION

API #43-049-30014

NAME OF COMPANY: GULF OIL COMPANY

WELL NAME: Halls Federal #1-13-3C

SECTION SE SE 13 TOWNSHIP 7S RANGE 4E COUNTY Utah

DRILLING CONTRACTOR Dixieland Fields

RIG # 33

SPODDED: DATE 11-10-84

TIME 9:00 PM

How Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Greg Drose

TELEPHONE # 307-235-1311

DATE 11-9-84 SIGNED GL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE U-2759
6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
7. UNIT AGREEMENT NAME Halls Unit
8. FARM OR LEASE NAME NA
9. WELL NO. Halls Federal Unit 1-13-3C
10. FIELD OR WILDCAT NAME Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 13, T7S, R5E SLM
12. COUNTY OR PARISH: 13. STATE Utah   Utah
14. API NO. 43-049-30014
15. ELEVATIONS (SHOW DF, KDB, AND WD) 7778' Gr.

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR  
Gulf Oil Corporation

3. ADDRESS OF OPERATOR  
P.O. Box 2619, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 115' FSL and 145' FEL Section 13  
AT TOP PROD. INTERVAL: Same  
AT TOTAL DEPTH: Same

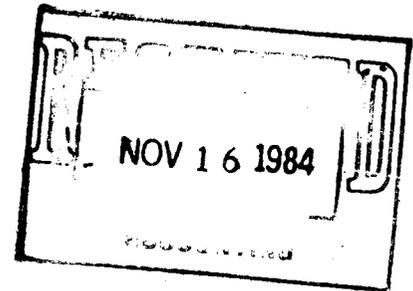
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

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.)\*

Intention to utilize chromate additives in the mud system for corrosion control.



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

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

SIGNED R. C. Smith TITLE Area Drilling Superintendent DATE \_\_\_\_\_

(This space for Federal or State office use)

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

BLOW OUT PREVENTION TEST

NAME OF COMPANY: GULF OIL

WELL NAME: HALLS FEDERAL 1-13-3C

SECTION: SE SE 13 TOWNSHIP 7S RANGE 5E COUNTY: Utah

DRILLING CONTRACTOR: D D Drilling

RIG # 3

BOP TEST: DATE: 11-29-84

TIME: \_\_\_\_\_

DRILLING: \_\_\_\_\_

CASING: \_\_\_\_\_

H<sub>2</sub>S: \_\_\_\_\_

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

REPORTED BY: \_\_\_\_\_

TELEPHONE NO. \_\_\_\_\_

DATE: 11-28-84 SIGNED \_\_\_\_\_ AS \_\_\_\_\_

Utah

# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 12-19-84

OIL CO.: Gulf

WELL NAME & NUMBER Hall's Federal 1-13-3C

SECTION 13

TOWNSHIP 7S

RANGE 5E

COUNTY Duchesne

DRILLING CONTRACTOR Fields #33

INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.  
 213 Pine Street - Box 560  
 Shoshoni, Wyoming 82649  
 Phone: (307) 876-2308 or (307) 876-2234

**RECEIVED**  
 DEC 30 1984

TESTED BY: DOUBLE "D" ENTERPRISES, INC.  
 712 Morse Lee Street  
 Evanston, Wyoming 82930  
 Phone: (307) 789-9213 or (307) 789-9214

DEPARTMENT OF  
**OIL, GAS & MINING**

OIL CO. SITE REPRESENTATIVE..... Horace R. Collins

RIG TOOL PUSHER.....

TESTED OUT OF..... Evanston, Wyoming

NOTIFIED PRIOR TO TEST: .....

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative

Utah Oil & Gas

B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

13-75  
Duchesne

ENTERPRISES

**DOUBLE-D" TESTING**

P.O. Box 560  
Shoshoni, Wyoming 82649  
307-876-2308

DELIVERY TICKET

#21

Nº 2345

RENTED TO MU I F NO. D.F. - 33  
DATE 12-19-84  
ORDERED BY NORRICE R. COLLINS LEASE Thats Red 118-30 WELL NO. 164770 CA

Items Tested:

<u>Pipes</u> rams to <u>500</u> #	Csg. to _____ #	Choke Manifold <u>500</u> #
<u>Blinds</u> rams to <u>500</u> #	Hydril B O P to <u>500</u> #	<u>BATH</u> <u>500</u> #
_____ rams to _____ #	Choke Line <u>500</u> #	Kelly Cock <u>500</u> #
_____ rams to _____ #	<u>CHECK VALVE</u> <u>500</u> #	Safety Valve <u>500</u> #
		<u>PORT</u> <u>500</u> #

TEST SUBS TWO 4 1/2  
OTHER ONE 20"  
METHOD USED

CLOSED CASING VALVE WHEN DONE  
PAT ALL VALVES BACK THE WAY THEY WERE  
ALL LOW TEST HELD 5 MINUTES @ 500 PSI  
ALL HIGH TEST HELD 15 MINUTES @ 2000 PSI

<u>CLOSING TIME</u>	<u>ACCUMULATOR PSI</u>
<u>PIPES - 6 SEC.</u>	<u>ANNULAR PSI</u>
<u>BLINDS - 5 SEC.</u>	<u>MANIFOLD PSI</u>
<u>HYDRIL - 18 SEC.</u>	

We Appreciate Your Business THANKS RON

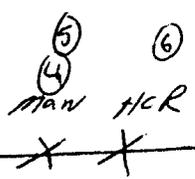
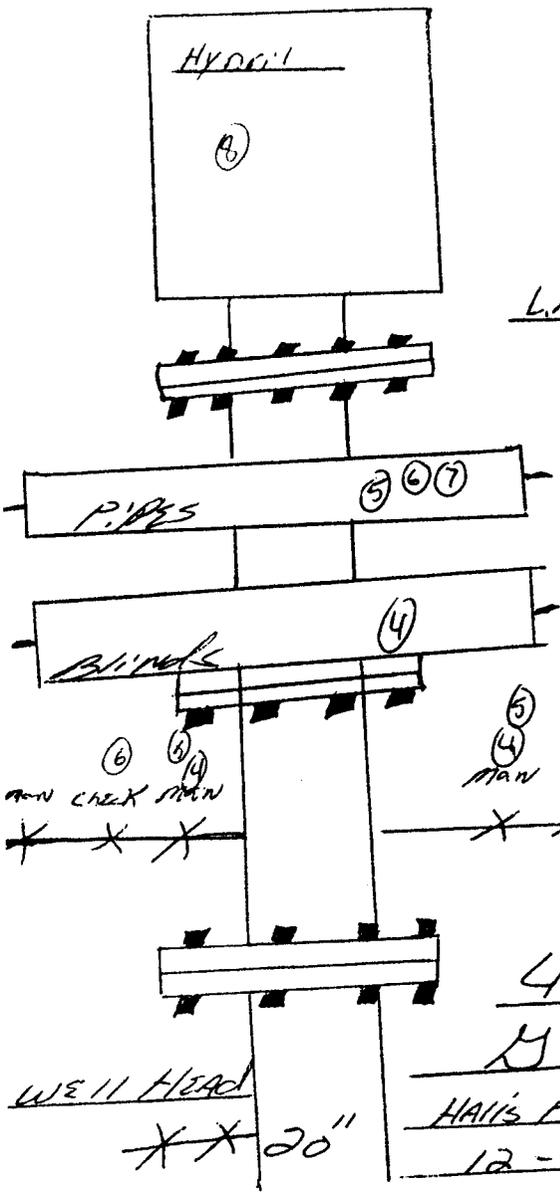
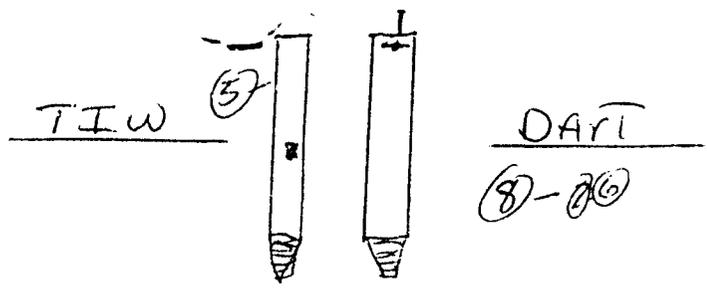
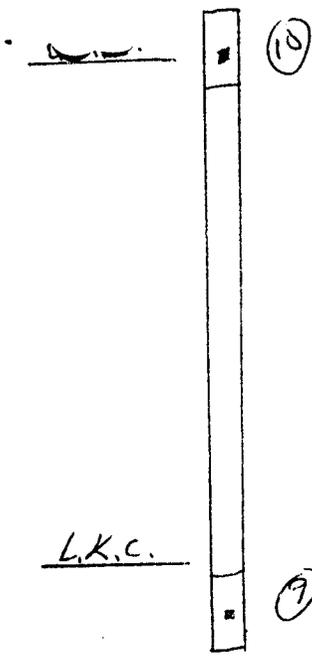
TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE); Terms and Conditions Under which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

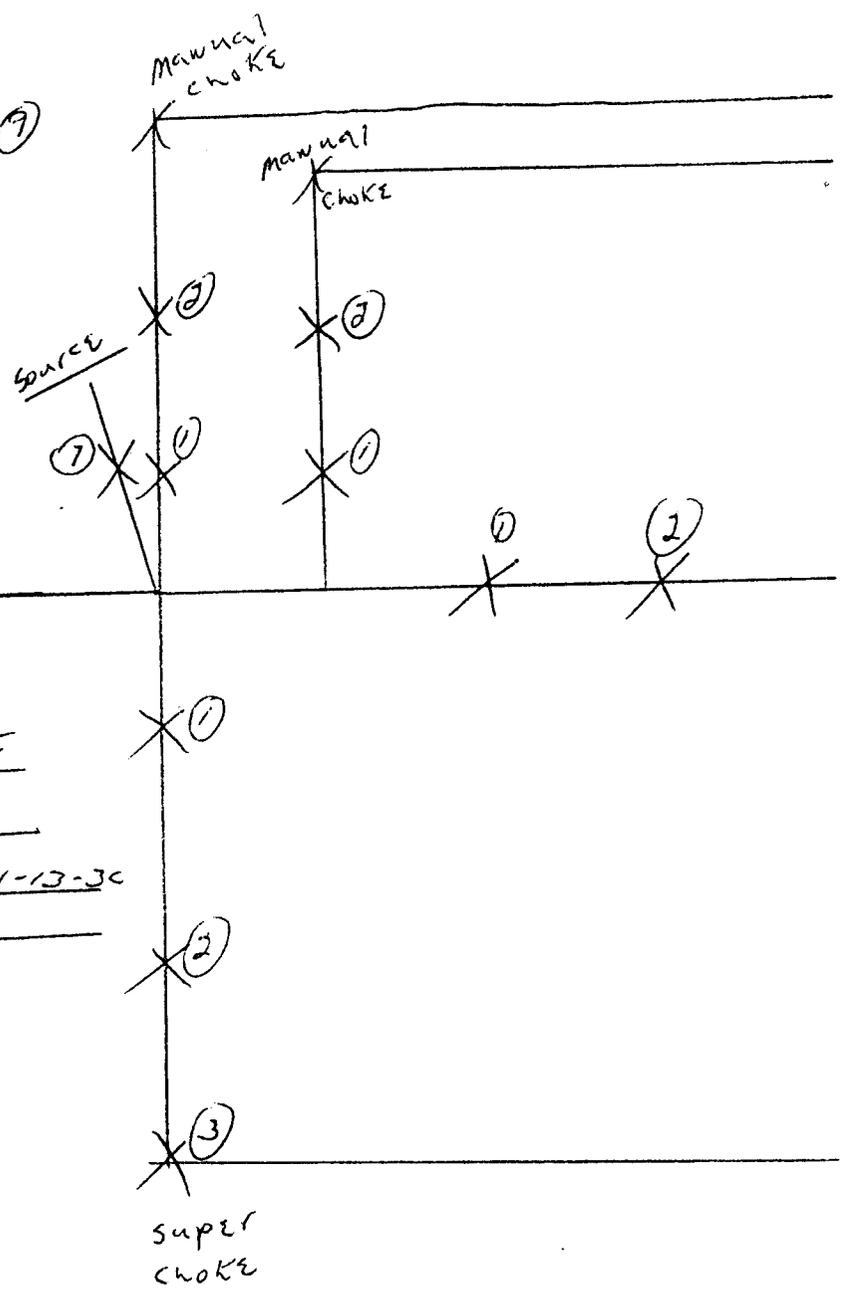
Delivered By: Ron Russell OWNER OR OWNER'S REPRESENTATIVE  
By: A.R. Collins

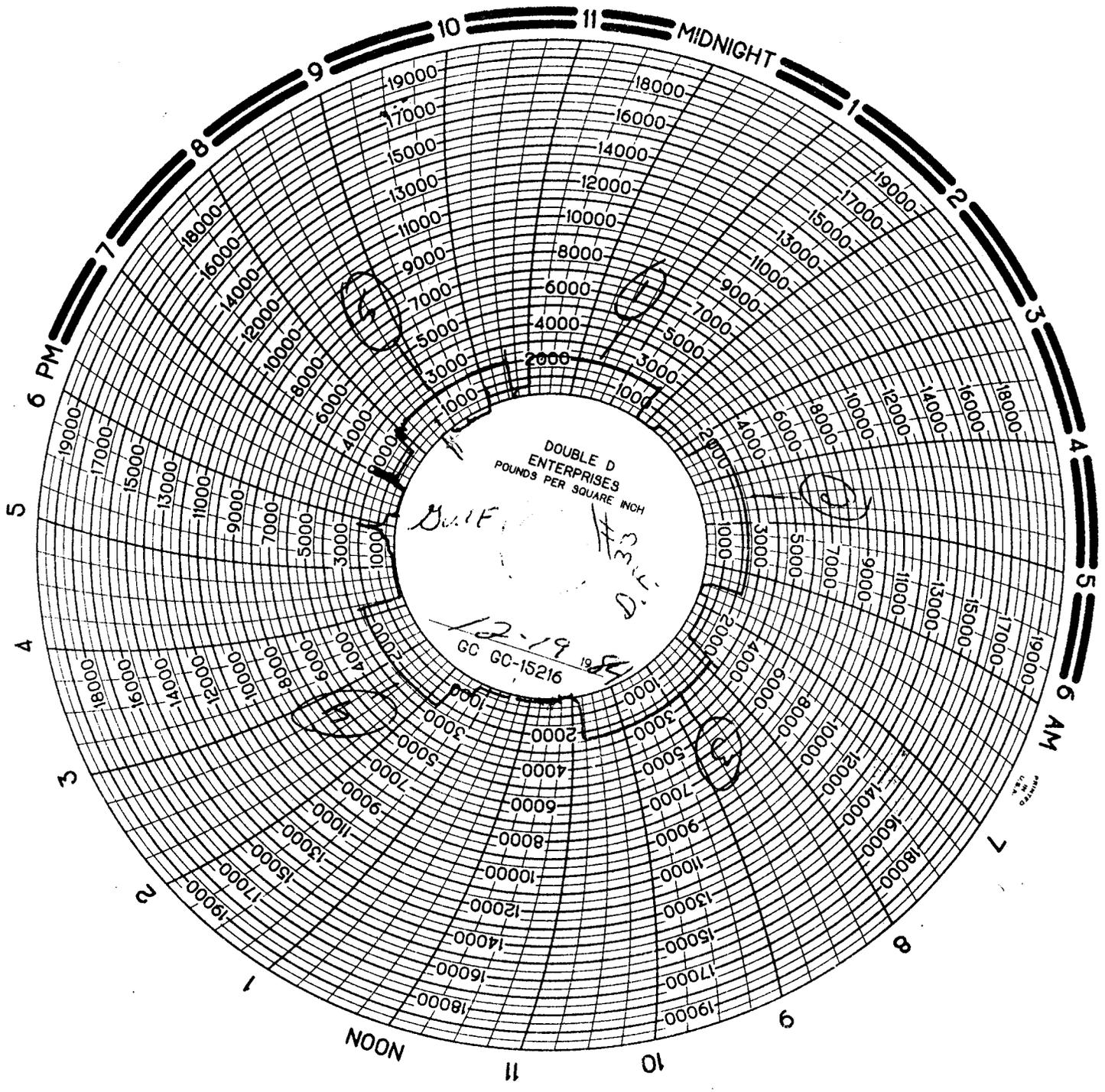
Company	Lease and Well Name #	Date of test	Rig #
ULF	HALL'S FEDERAL 143-3C	12-19-84	D.F. #33
TEST #	Time		
	6:30 - 7:30	ARRIVED ON LOCATION AT 6:30 - ON LOAD PLUG RIG UP TO MANIFOLD	
①	7:30 - 7:50	TEST FIRST SET OF VALVES 500 PSI 5 MIN - OK 2000 PSI 15 MIN - OK	
②	7:50 - 8:10	TEST NEXT SET OF VALVES 500 PSI 5 MIN - OK 2000 PSI 15 MIN - OK	
③	8:10 - 8:30	TEST SUPER CHOKER 500 PSI 5 MIN - OK 2000 PSI 15 MIN - OK	
	8:30 - 1:00	WAIT FOR RIG TO COME OUT HOLE SO I CAN TEST STACK RIG DOWN FLOW NIPPLE AND RO HEAD. DRAIN STACK. SET PLUG FILL STACK WITH WATER MAKE UP TIW PART & SUB TO JOINT WHILE STACK FILLING UP. CLOSE BLINDS	
④	1:00 - 1:20	TEST - BLINDS 500 PSI 5 MIN - OK 2000 PSI 15 MIN - OK	
	1:20 - 1:35	OPEN BLINDS RUN JOINT BACK INTO PLUG.	
	1:35 - 2:05	CLOSE PIPES HAD TO	
⑤	WORK PIPES	TEST PIPES - TIW MANUAL ON KILL LINE MANUAL ON CHOKER 500 PSI 5 MIN - OK 2000 PSI 15 MIN - OK	

Company	Lease and Well Name #	Date of test	Rig #
GULF	HALL'S FEDERAL	12-19-84	D.F.
IT #	Time		
	2:05 - 2:30	/	
(7)	NO TEST ON CHECK VALVE	TEST PIPES - DART - CHECK VALVE - HCR 500 PSI 5 MIN. OK 2000 PSI 15 MIN. OK	
(2)	2:30 - 2:50	TEST - PIPES - DART - Manual Valve up right on choke manifold 500 PSI 5 MIN. OK 2000 PSI 15 MIN. OK	
(8)	2:50 3:15	TEST - HYDRIL - DART 500 PSI 5 MIN. OK 2000 PSI 15 MIN. OK	
	3:15 - 4:15	Rig DOWN HOSE AND PULL PLUG. Rig DOWN PLUG PUT JOINT IN MOUTH HOLE AND Rig DOWN DART - TEND SUB. Kelly up and Rig up SUB ON KELLY	
(9)	4:15 - 4:35	TEST Lower Kelly Valve 500 PSI 5 MIN. OK 2000 PSI 15 MIN. OK	
(10)	4:35 5:00	TEST upper Kelly Valve 500 PSI 5 MIN. OK 2000 PSI 15 MIN. OK	
	5:00 - 5:40	SET WEAR RING	
	5:40 - 6:30	Rig DOWN FROM KELLY LOAD OUT TRUCK TRAVEL TO SHOP	



4 1/2 I F  
Gulf  
HALL'S FEDERAL 1-13-30  
12-19-84

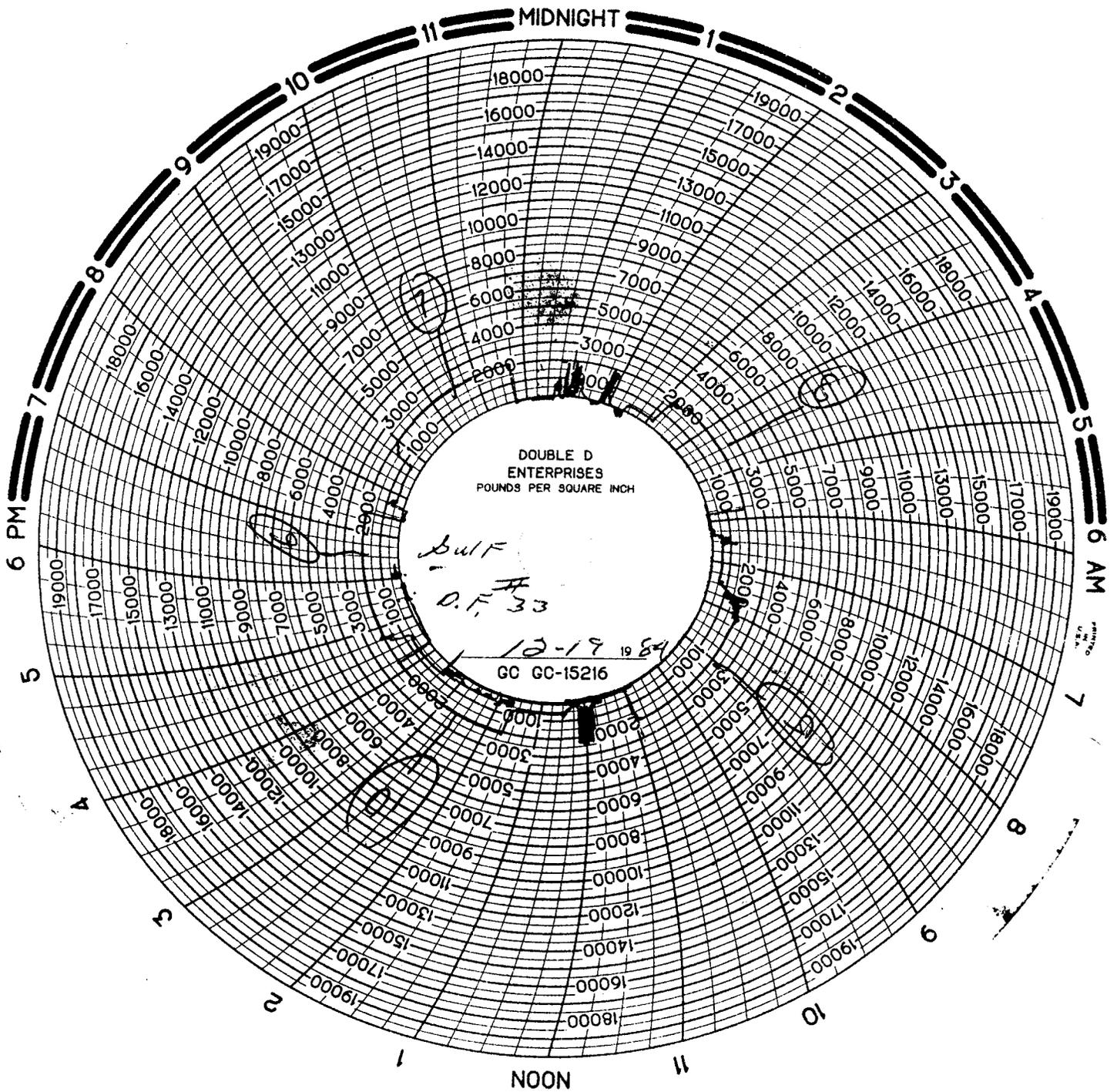




DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

*Gulf of Mexico*  
*12-19-58*  
*GC 60-15216*

1/2" x 1/2" 1/4" dia



FLOPETROL JOHNSTON

**Schlumberger**

# WELL PERFORMANCE TEST REPORT

A Production Systems Analysis (NODAL)  
Based On  
Drillstem Test Data

Test Date  
1-17-85

Report No.:  
36976 E

**COMPANY**

**GULF OIL CO.**

**WELL**

**HALLS FED. 1-13-3C**

**TEST IDENTIFICATION**

Test Type ..... OPEN HOLE - TELEFLOW  
Test Number ..... 1  
Formation ..... PARK CITY  
Test Interval ..... 7304 - 7436 FT.  
Reference Depth ..... KELLY BUSHING

**WELL LOCATION**

Field..... WILD CAT  
County..... UTAH  
State..... UTAH  
Sec / Twn / Rng ..... S13 T7S R5E  
Elevation..... 7743 FT.

**HOLE CONDITIONS**

Total Depth (MVD/TVD) ..... 7436 FT.  
Hole Size / Deviation Angle ..... 9 1/2" /STRAIGHT  
Csg / Liner ID ..... NA  
Perf'd Interval ..... NA  
Shot Density / Phasing ..... NA  
Gun Type / Perf Cond ..... NA

**MUD PROPERTIES**

Mud Type ..... LSND  
Mud Weight ..... 8.7 LB/GAL  
Mud Resistivity ..... NOT GIVEN  
Filtrate Resistivity ..... NOT GIVEN  
Filtrate Chlorides ..... 100K PPM  
Filtrate Nitrates..... NOT GIVEN

**INITIAL TEST CONDITIONS**

Gas Cushion Type ..... NONE  
Surface Pressure ..... NA  
Liquid Cushion Type ..... FRESH WATER/INHIB.AMM.  
Height Above DST Valve ..... 135 FT.

**TEST STRING CONFIGURATION**

Pipe Length / ID..... 6603 FT./4.23 IN.  
Collar Length / ID ..... 647 FT./2.32 IN.  
Packer Depth(s)..... 7297 & 7304 FT.  
BH Choke Size..... 15/16 IN.

**NET PIPE RECOVERY**

Volume	Fluid Type	Physical Properties
0.20 BBL	WATER	
0.82 BBL	MUD	

**NET SAMPLE CHAMBER RECOVERY**

Volume	Fluid Type	Physical Properties
0.39 SCF	GAS	CORRECTED TO PWF
1480 CC	MUD	100K PPM CL.

Pressure: 18 PSIG    GOR: --    GLR: 42

**INTERPRETATION RESULTS**

Reservoir Pressure @Gauge Depth: NA  
Gauge Depth ..... 7332 FT.  
Hydrostatic Gradient ..... NA  
Potentiometric Surface ..... NA  
Effective Permeability to ..... NA  
Transmissibility ..... NA  
Skin Factor / Damage Ratio..... NA  
Omega / Lambda (2φ System)..... NA  
Radius of Investigation ..... NA  
Measured Wellbore Storage ..... NA

**ROCK / FLUID / WELLBORE PROPERTIES**

Reservoir Temperature ..... 111 °F  
Analysis Fluid Type ..... NA  
Formation Volume Factor ..... NA  
Viscosity ..... NA  
Z-Factor (gas only)..... NA  
Net Pay ..... 4 FT.  
Porosity ..... NOT GIVEN  
Total System Compressibility..... NA  
Wellbore Radius..... .396 FT.  
Expected Wellbore Storage..... NA

**FLOW RATE DURING DST**

**1 MSCF/D last rate from TELEFLOW**

**MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION**

FJS-5 B14059

# BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 36976E

COMPANY : GULF OIL COMPANY

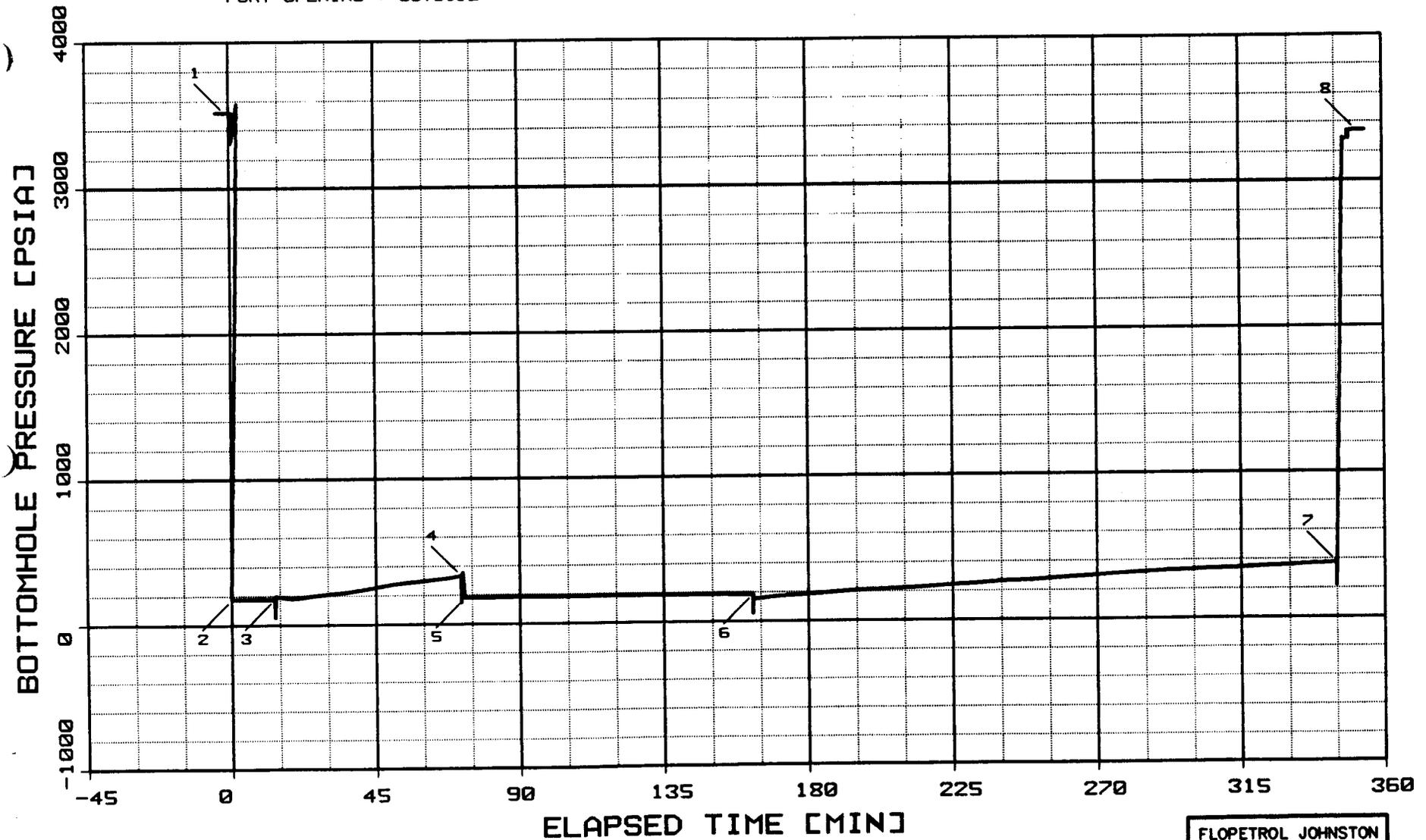
INSTRUMENT NO. J-036

WELL : HALLS FEDERAL 1-13-3C

DEPTH : 7332 FT

CAPACITY : 4700 PSI

PORT OPENING : OUTSIDE



FLOPETROL JOHNSTON

# DST EVENT SUMMARY

DATE (M/D/Y)	TIME (HR:MIN)	EVENT ET. (MIN)	EVENT DESCRIPTION	LABEL PT. #	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
1-17-85	0522	—	SET PACKER	1		C
	0527	—	OPENED TEST TOOL FOR INITIAL FLOW	2		L
						O
						S
						E
						D
	0542	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	3		C
						H
						A
	0642		FINISHED SHUT-IN	4		M
	0642	—	OPENED TEST TOOL FOR FINAL FLOW	5		B
						E
						R
						T
						E
			SEE TELEFLOW DATA SUMMARIES FOR DETAIL			L
						E
						F
						L
						O
	0813	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	6		W
	1112	—	FINISHED FINAL SHUT-IN	7		
	1120	—	UNSEATED PACKER	8		
		—	REVERSED OUT			
		—	BEGAN TRIP OUT OF HOLE			

\*\*\*\*\*  
 \* WELL TEST DATA PRINTOUT \*  
 \*\*\*\*\*

FIELD REPORT # : 36976E  
 COMPANY : GULF OIL COMPANY  
 WELL : HALLS FEDERAL 1-13-3C

INSTRUMENT # : J-036  
 CAPACITY [PSI] : 4700.  
 DEPTH [FT] : 7332.0  
 PORT OPENING : OUTSIDE  
 TEMPERATURE [DEG F] : 148.0

LABEL POINT INFORMATION  
 \*\*\*\*\*

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
1	5:25:53	17-JA	HYDROSTATIC MUD	-1.11	3514
2	5:27: 0	17-JA	START FLOW	0.00	175
3	5:40:28	17-JA	END FLOW & START SHUT-IN	13.46	176
4	6:38:44	17-JA	END SHUT-IN	71.74	330
5	6:39:55	17-JA	START FLOW	72.92	180
6	8: 9:41	17-JA	END FLOW & START SHUT-IN	162.68	183
7	11:12: 0	17-JA	END SHUT-IN	345.00	374
8	11:18:48	17-JA	HYDROSTATIC MUD	351.80	3342

SUMMARY OF FLOW PERIODS  
 \*\*\*\*\*

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	13.46	13.46	175	176
2	72.92	162.68	89.76	180	183

SUMMARY OF SHUTIN PERIODS  
 \*\*\*\*\*

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	13.46	71.74	58.28	176	330	176	13.46
2	162.68	345.00	182.32	183	374	183	103.22

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
5:27: 0	17-JA	0.00	0.00	175
5:32: 0	17-JA	5.00	5.00	175
5:37: 0	17-JA	10.00	10.00	175
5:40:28	17-JA	13.46	13.46	176

TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 176  
 PRODUCING TIME [MIN] = 13.46

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNERS TIME
5:40:28	17-JA	13.46	0.00	176	0	
5:41:28	17-JA	14.46	1.00	192	16	1.160
5:42:28	17-JA	15.46	2.00	188	13	0.888
5:43:28	17-JA	16.46	3.00	185	9	0.739
5:44:28	17-JA	17.46	4.00	181	5	0.640
5:45:28	17-JA	18.46	5.00	178	2	0.567
5:46:28	17-JA	19.46	6.00	178	2	0.511
5:47:28	17-JA	20.46	7.00	181	5	0.466
5:48:28	17-JA	21.46	8.00	183	7	0.429
5:49:28	17-JA	22.46	9.00	186	10	0.397
5:50:28	17-JA	23.46	10.00	189	13	0.370
5:52:28	17-JA	25.46	12.00	195	19	0.327
5:54:28	17-JA	27.46	14.00	200	24	0.293
5:56:28	17-JA	29.46	16.00	206	30	0.265
5:58:28	17-JA	31.46	18.00	211	35	0.242
6: 0:28	17-JA	33.46	20.00	216	40	0.223
6: 2:28	17-JA	35.46	22.00	221	45	0.207
6: 4:28	17-JA	37.46	24.00	227	51	0.193
6: 6:28	17-JA	39.46	26.00	233	57	0.181
6: 8:28	17-JA	41.46	28.00	239	63	0.170
6:10:28	17-JA	43.46	30.00	246	70	0.161
6:15:28	17-JA	48.46	35.00	266	90	0.141
6:20:28	17-JA	53.46	40.00	281	105	0.126
6:25:28	17-JA	58.46	45.00	293	117	0.114
6:30:28	17-JA	63.46	50.00	305	129	0.104
6:35:28	17-JA	68.46	55.00	318	142	0.095
6:38:44	17-JA	71.74	58.28	330	154	0.090

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MM	*****	*****	*****
6:39:55	17-JA	72.92	0.00	180
6:44:55	17-JA	77.92	5.00	180
6:49:55	17-JA	82.92	10.00	182
6:54:55	17-JA	87.92	15.00	183
6:59:55	17-JA	92.92	20.00	183
7: 4:55	17-JA	97.92	25.00	183
7: 9:55	17-JA	102.92	30.00	183
7:14:55	17-JA	107.92	35.00	183
7:19:55	17-JA	112.92	40.00	184
7:24:55	17-JA	117.92	45.00	185
7:29:55	17-JA	122.92	50.00	185
7:34:55	17-JA	127.92	55.00	185
7:39:55	17-JA	132.92	60.00	185
7:44:55	17-JA	137.92	65.00	185
7:49:55	17-JA	142.92	70.00	185
7:54:55	17-JA	147.92	75.00	185
7:59:55	17-JA	152.92	80.00	184
8: 4:55	17-JA	157.92	85.00	181
8: 9:41	17-JA	162.68	89.76	183

TEST PHASE : SHUTIN PERIOD # 2  
 FINAL FLOW PRESSURE [PSIA] = 183  
 PRODUCING TIME [MIN] = 103.22

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
8: 9:41	17-JA	162.68	0.00	183	0	
8:10:41	17-JA	163.68	1.00	154	-30	2.018
8:11:41	17-JA	164.68	2.00	156	-28	1.721
8:12:41	17-JA	165.68	3.00	158	-25	1.549
8:13:41	17-JA	166.68	4.00	160	-23	1.428
8:14:41	17-JA	167.68	5.00	162	-21	1.335
8:15:41	17-JA	168.68	6.00	164	-19	1.260
8:16:41	17-JA	169.68	7.00	166	-17	1.197
8:17:41	17-JA	170.68	8.00	168	-15	1.143
8:18:41	17-JA	171.68	9.00	170	-13	1.096
8:19:41	17-JA	172.68	10.00	172	-12	1.054
8:21:41	17-JA	174.68	12.00	175	-9	0.982
8:23:41	17-JA	176.68	14.00	177	-6	0.923
8:25:41	17-JA	178.68	16.00	181	-3	0.872
8:27:41	17-JA	180.68	18.00	184	0	0.828
8:29:41	17-JA	182.68	20.00	187	4	0.790
8:31:41	17-JA	184.68	22.00	190	6	0.755
8:33:41	17-JA	186.68	24.00	192	9	0.724
8:35:41	17-JA	188.68	26.00	195	11	0.696

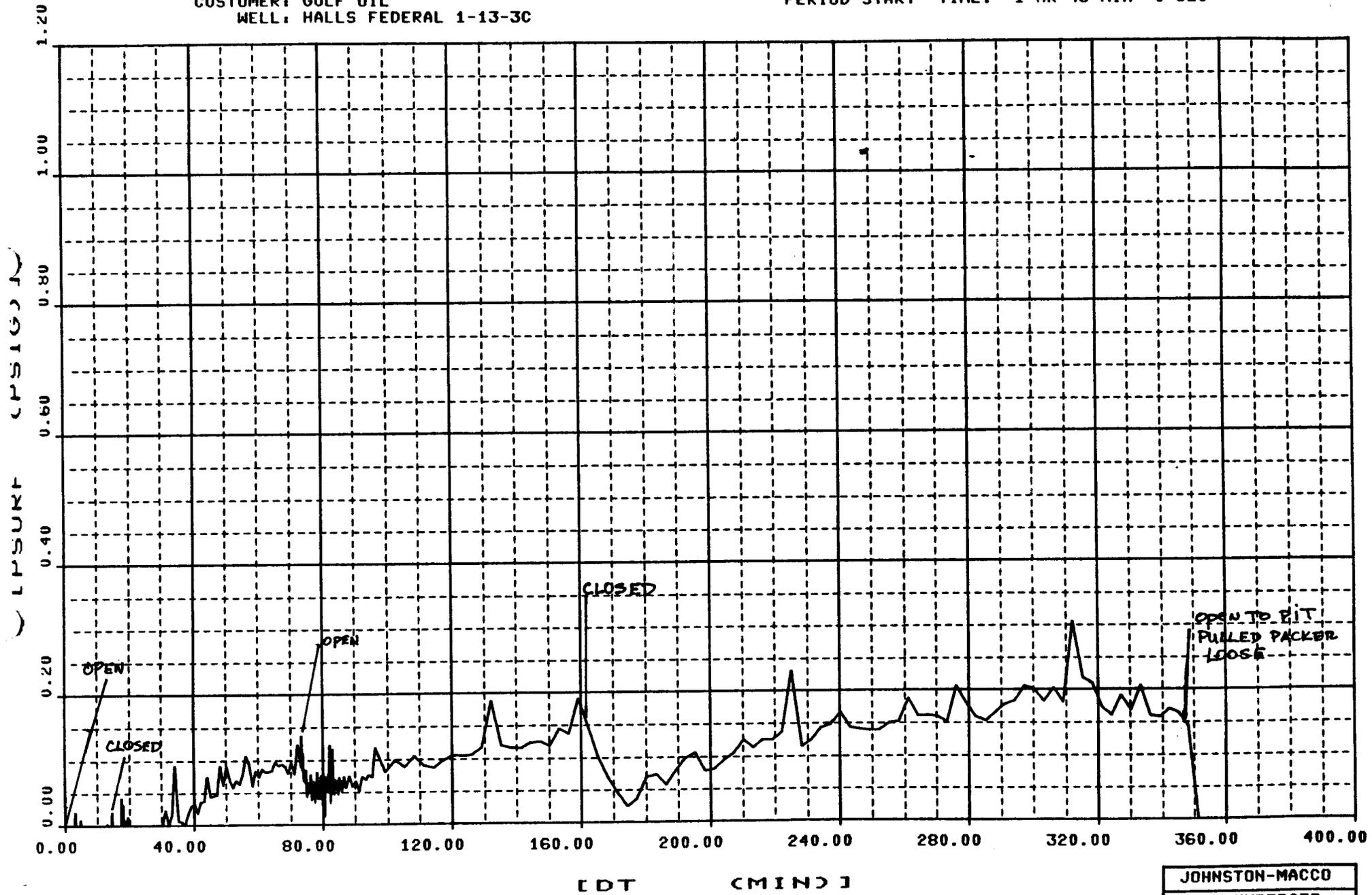
TEST PHASE : SHUTIN PERIOD # 2  
 FINAL FLOW PRESSURE [PSIA] = 183  
 PRODUCING TIME [MIN] = 103.22

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
8:37:41	17-JA	190.68	28.00	198	14	0.671
8:39:41	17-JA	192.68	30.00	201	18	0.647
8:44:41	17-JA	197.68	35.00	208	25	0.597
8:49:41	17-JA	202.68	40.00	213	30	0.554
8:54:41	17-JA	207.68	45.00	219	36	0.518
8:59:41	17-JA	212.68	50.00	223	39	0.486
9: 4:41	17-JA	217.68	55.00	229	45	0.459
9: 9:41	17-JA	222.68	60.00	236	53	0.435
9:14:41	17-JA	227.68	65.00	243	59	0.413
9:19:41	17-JA	232.68	70.00	249	66	0.394
9:24:41	17-JA	237.68	75.00	257	73	0.376
9:29:41	17-JA	242.68	80.00	263	80	0.360
9:34:41	17-JA	247.68	85.00	268	85	0.345
9:39:41	17-JA	252.68	90.00	274	91	0.332
9:44:41	17-JA	257.68	95.00	281	97	0.319
9:49:41	17-JA	262.68	100.00	288	104	0.308
9:54:41	17-JA	267.68	105.00	296	113	0.297
9:59:41	17-JA	272.68	110.00	303	119	0.287
10: 4:41	17-JA	277.68	115.00	309	126	0.278
10: 9:41	17-JA	282.68	120.00	316	133	0.270
10:14:41	17-JA	287.68	125.00	323	139	0.261
10:19:41	17-JA	292.68	130.00	326	143	0.254
10:24:41	17-JA	297.68	135.00	330	147	0.247
10:29:41	17-JA	302.68	140.00	334	151	0.240
10:34:41	17-JA	307.68	145.00	338	154	0.233
10:39:41	17-JA	312.68	150.00	341	158	0.227
10:44:41	17-JA	317.68	155.00	347	164	0.222
10:49:41	17-JA	322.68	160.00	353	169	0.216
10:54:41	17-JA	327.68	165.00	357	174	0.211
10:59:41	17-JA	332.68	170.00	362	178	0.206
11: 4:41	17-JA	337.68	175.00	366	182	0.201
11: 9:41	17-JA	342.68	180.00	372	188	0.197
11:12: 0	17-JA	345.00	182.32	374	191	0.195

TELEFLOW SURFACE PRESSURE LOG

FIELD REPORT NO 36775  
INSTRUMENT NO  
CUSTOMER: GULF OIL  
WELL: HALLS FEDERAL 1-13-3C

PLOT START TIME: 1 HR 45 MIN 0 SEC  
PLOT STOP TIME: 7 HR 42 MIN 0 SEC  
PERIOD START TIME: 1 HR 45 MIN 0 SEC



JOHNSTON-MACCO  
SCHLUMBERGER

**TELEFLOW DATA SUMMARY**

(Closed Chamber Monitoring)

Field Report # 36976 E

INITIAL		FLOW PERIOD		PCS START ET (HR:MIN:SEC)		PCS END ET (HR:MIN:SEC)		
				1:45:00		2:00:35		
TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	PURE GAS FLOW RATE (MSCF/DAY)	DESCRIPTION			
0527	1:45:00	0.0	0.0	---	OPENED TEST TOOL			
0528	1:46:00	1.0	0.0	0				
0529	1:47:00	2.0	0.0	0				
0530	1:48:00	3.0	0.0	0				
0531	1:49:00	4.0	0.0	0				
0532	1:50:00	5.0	0.0	0				
0533	1:51:00	6.0	0.0	0				
0534	1:52:00	7.0	0.0	0				
0535	1:53:00	8.0	0.0	0				
0536	1:54:00	9.0	0.0	0				
0537	1:55:00	10.0	0.0	1				
0538	1:56:00	11.0	0.0	1				
0539	1:57:00	12.0	0.0	1				
0540	1:58:00	13.0	0.01	0				
0541	1:59:00	14.0	0.01	1				
0542	2:00:35	15.0	0.01	1	CLOSED TEST TOOL			
INITIAL		SHUT-IN PERIOD		PCS START ET (HR:MIN:SEC)		PCS END ET (HR:MIN:SEC)		
				2:00:35		3:00:35		
TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS BREAKOUT RATE (MSCF/D)	DESCRIPTION			
0542	2:00:35	0.0	0	0	CLOSED TEST TOOL			
0552	2:11:35	11.0	0.0	0				
0603	2:21:35	21.0	0.0	0				
0613	2:31:35	31.0	0.05	2				
0623	2:41:35	41.0	0.11	2				
0633	2:51:35	51.0	0.09	0				
0642	3:00:35	60.0	0.05	0	OPENED TEST TOOL			
<b>BLOWDOWN RESULTS</b>			LIQUID RECOVERY		BBL	AVERAGE GLR		SCF BBL



# Gulf Oil Exploration and Production Company

P. O. Box 2619  
Casper, WY 82802

January 23, 1985

**RECEIVED**

JAN 28 1985

**DIVISION OF OIL  
GAS & MINING**

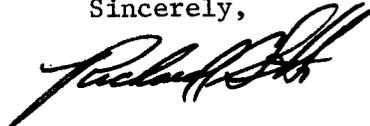
State of Utah  
Department of Natural Resources & Energy  
Division of Oil, Gas and Mining  
Attention: Well Records  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

Re: Gulf Oil Corporation  
✓ Halls Federal Unit 1-13-3C  
SE $\frac{1}{4}$ SE $\frac{1}{4}$  Section 13,  
T. 5 S., R. 7 E.,  
Utah County, Utah

Dear Sir:

Attached hereto are three copies of the Sundry Notice with new survey plat and drill pad diagram of the referenced well.

Sincerely,



R. C. Smith  
Area Drilling Superintendent

WLR/dlb

Enclosures



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. oil well  gas well  other

2. NAME OF OPERATOR  
Gulf Oil Corporation (Attn: W. L. Rohrer)

3. ADDRESS OF OPERATOR  
P. O. Box 2619 Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 201' FSL & 101' FEL  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-29759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Halls Federal Unit

8. FARM OR LEASE NAME

9. WELL NO.  
1-13-3C

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13, T. 7S., R. 5E.,

12. COUNTY OR PARISH | 13. STATE  
Utah | Utah

14. API NO.  
43-049-30014

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
DF 7746.5'

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

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

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

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.)\*

Reduction in drill pad size required modifications of layout plans and shifting of borehole location to accommodate design changes. Copies of new survey plat and drill pad diagram are attached hereto.

**ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING**

DATE: 1/31/85  
BY: John R. Bera

**RECEIVED**

Jan 28 1985

DIVISION OF OIL  
GAS & MINING

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

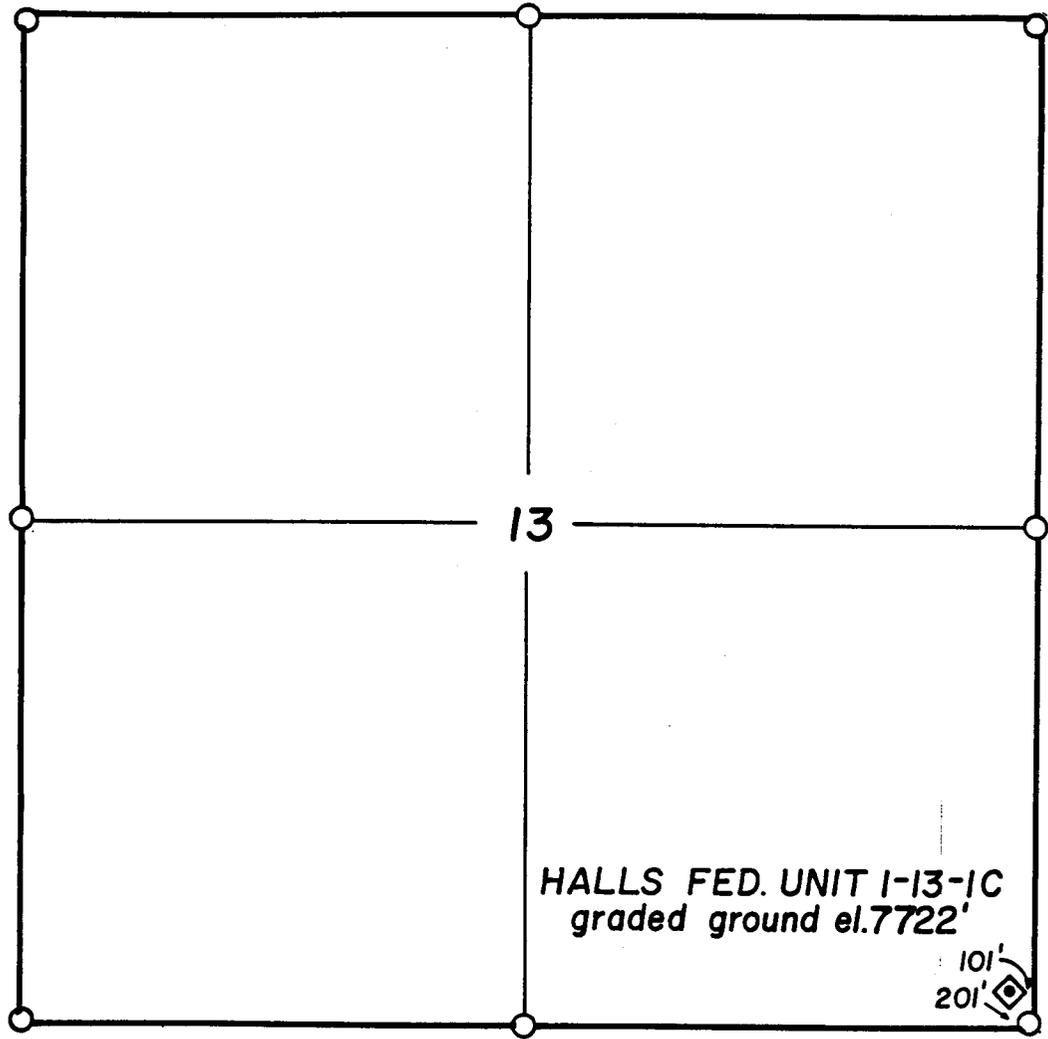
18. I hereby certify that the foregoing is true and correct

SIGNED Richard R. Smith R. C. Smith TITLE Area Drlg. Supt. DATE January 22, 1985

(This space for Federal or State office use)

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

R 5 E



SCALE 1"=1000'

T 7 S

HALLS FED. UNIT 1-13-1C  
graded ground el. 7722'

101'  
201'

**CERTIFICATE OF SURVEYOR**

STATE OF UTAH } SS  
COUNTY OF UTAH }

I, Dick R. Griffin of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey under my direct supervision on January 10, 1985, and that it shows correctly the location of The HALLS FEDERAL UNIT 1-13-1C

*[Signature]*  
UTAH RLS 5120

**NOTE**

- FOUND CORNER
- ⊙ PROPORTIONED CORNER
- ◇ WELL LOCATION

JOB NO. 998

<b>PLAT OF DRILLING LOCATION</b>
for
<b>GULF OIL EXPLOR. &amp; PROD. CO.</b>
201' F/SL - 101' F/EL , Section 13, T 7 S , R 5 E of the SALT LAKE MERIDIAN
Prepared by: D.R. GRIFFIN & ASSOCIATES P.O. BOX 1059 (307) 362-5028 ROCK SPRINGS, WYOMING 82901

# GULF OIL CORPORATION

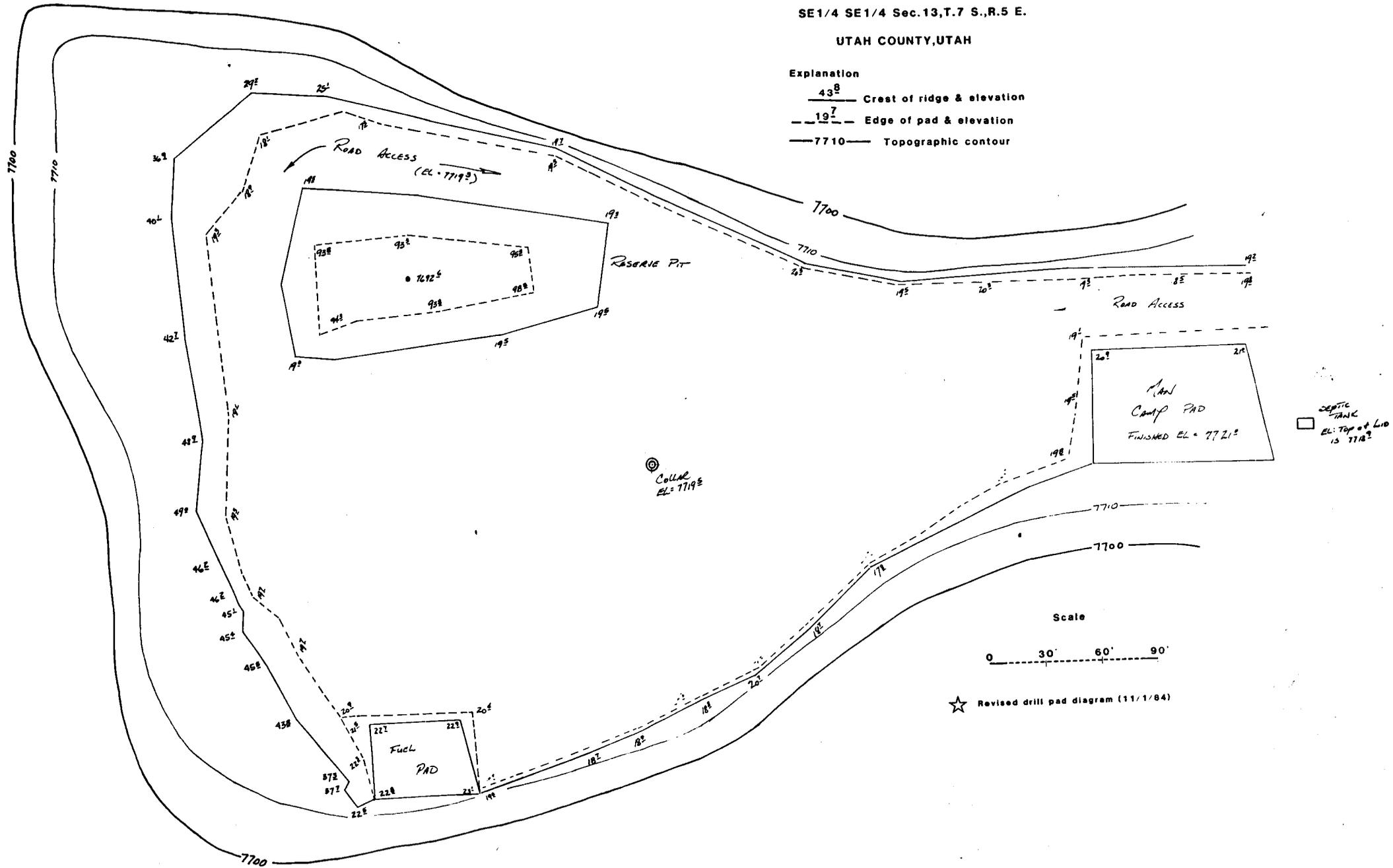
## HALLS FEDERAL 1-13-3C

SE1/4 SE1/4 Sec.13,T.7 S.,R.5 E.

UTAH COUNTY,UTAH

### Explanation

- 43.8 Crest of ridge & elevation
- 19.7 Edge of pad & elevation
- 77.10 Topographic contour



# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 1-07-84

OIL CO.: ..... Gulf Oil Corp.

WELL NAME & NUMBER..... Halls Federal 1-13-3C

SECTION..... 13

TOWNSHIP..... 7S

RANGE..... 5E

COUNTY..... Duchesne

DRILLING CONTRACTOR..... Dixilyn Fields #33

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... Joel Wilmer

RIG TOOL PUSHER.....

TESTED OUT OF..... Evanston, Wyoming

NOTIFIED PRIOR TO TEST: .....

COPIES OF THIS TEST REPORT SENT COPIES TO: ..... Site Representative  
..... Utah Oil & Gas  
..... B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: ..... Evanston .....OFFICE

ENTERPRISES  
**DOUBLE "D" TESTING**

P.O. Box 560  
 Shoshoni, Wyoming 82649  
 307-876-2308

DELIVERY TICKET

No 2415

RELATED TO Gulf Oil Corp.  
P.O.# 164969-CA

NO Dixilin Fields 35  
 DATE 1-7-85

ORDERED BY \_\_\_\_\_

LEASE Halls Fed. WELL NO. 1-13-3C

Items Tested:

<u>Pipe</u>	rams to <u>300</u>	#	_____	Csg. to _____	#	Choke Manifold	<u>300</u>	#
	<u>5000</u>	#					<u>5000</u>	#
<u>Blind</u>	rams to <u>300</u>	#	Hydril B O P to <u>3500</u>	#	Kelly Cock	<u>5000</u>	#	
	<u>5000</u>	#				<u>300</u>	#	
<u>Pipe</u>	rams to <u>300</u>	#	Choke Line <u>5000</u>	#	Safety Valve	<u>5000</u>	#	
	<u>5000</u>	#				<u>300</u>	#	
	rams to _____	#				<u>Dart</u>	<u>5000</u>	#

TEST SUBS Two 4 1/2 IF Test subs

WEAR One 4 1/2 XH "X-OVER 4"

WEAR Ring - 4 J slot

One 10" CAMRON

Methonal used 80 gal

Filled choke manifold with methonal & closed CASING  
Head Valve when Done testing

All test Held 5000psi on High test 300psi on  
Low test HYDRIL 3500 psi

We Appreciate Your Business

Thank you

TERMS NET CASH - NO DISCOUNT (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. Lessee and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injury or property damage that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injury and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for repairs and/or property damage. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in the same condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All operation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash --- No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

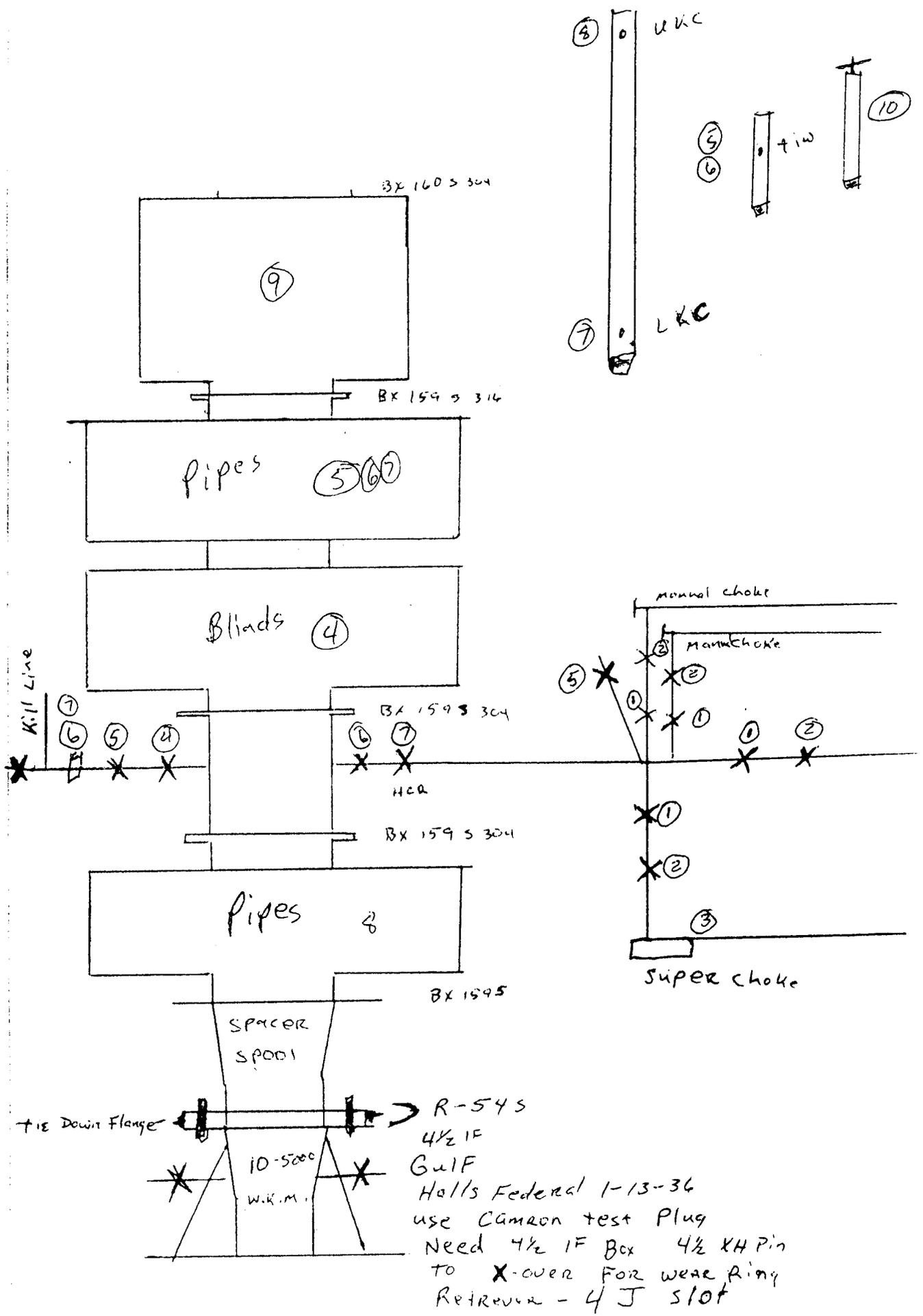
Ordered By: Arthur Brown II OWNER OR OWNER'S REPRESENTATIVE: Paul Wilmes

COMPANY	LEASE AND NAME #	DATE	TEST	RIG # AND NAME
Gulf	Halls Fed. 1-13-3C	1-7-85		Dixilyn Fields #33

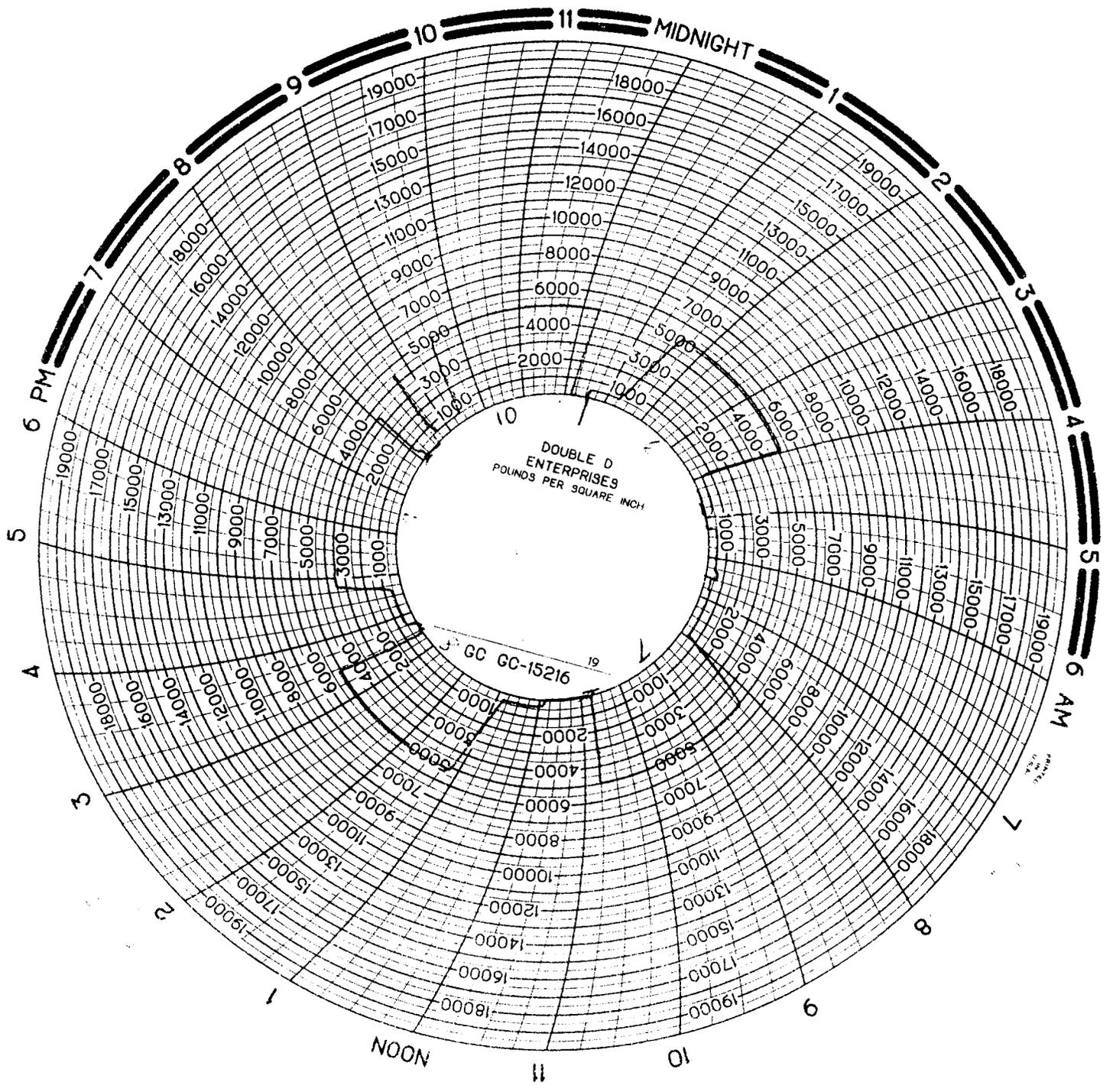
SI #	TIME	
①		Rig up to choke manifold Test First set values choke manifold
	5:45-5:50	300 psi OK
	5:50-6:05	5000 psi OK
		switch values
②		Test second set values
	6:07-6:12	300 psi OK
	6:12-6:27	5000 psi OK
		switch values
③		Test Super choke
	6:29-6:34	300 psi OK
	6:34-6:49	5000 psi OK
		switch values
④		Test Blinds First manual on Kill Line
	6:52-6:57	300 psi Plug didn't seal pressured up then left off pressure
	7:00-7:05	300 psi OK
	7:05-7:20	5000 psi OK
	7:20-7:40	switch sources - run joint and Kelly - screwed into Test plug.
⑤		Test upper pipes - T.I.W. - Upright on choke manifold - Second Kill valve.
	7:43-7:48	300 psi OK
	7:48-8:03	5000 psi OK
⑥		Test Upper pipes - T.I.W. - check valve - First manual choke side.
	8:05-8:10	300 psi OK
	8:10-8:25	5000 psi OK
⑦		Test Upper pipes - Lower Kelly Cock - H.C.R. check valve.
	8:45-8:50	300 psi OK
	8:50-9:05	5000 psi OK
⑧		Test Lower pipes - Upper Kelly Cock.
	9:18-9:23	300 psi OK
	9:23-9:38	5000 psi OK



Dixie fields J<







RECEIVED  
JAN 23 1975

DISTRIBUTION FOR TECHNICAL REPORTS

COMPANY GULF OIL COMPANY	DIVISION OIL, GAS & MINING	WELL HALLS FEDERAL	NO. Y-13-3C
CUSTOMER SAME		WILD CAT	
COUNTY UTAH		STATE UTAH	

THIS TEST ONLY     ALL TESTS ON THIS WELL    FJS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS AS SHOWN AT LEFT.

GULF OIL EXPLORATION & PROD. CO.  
P. O. BOX 2619  
CASPER, WY 82602  
ATTN: SUPERVISOR INFORMATION CENTER

1

AMOCO PRODUCTION CO.  
1670 BROADWAY  
DENVER, CO 80202  
ATTN: BOB NEIL OR SHARYL FERNANDEZ

2

+

GULF OIL EXPLORATION & PROD. CO.  
P. O. BOX 2619  
CASPER, WY 82602  
ATTN: AREA OPERATIONS EXPL. MGR.

4

PENNZOIL COMPANY  
16TH & BROADWAY, SUITE 1800  
DENVER, CO 80202  
ATTN: JIM BARR OR D. E. CAUSSEY

2

+

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
4241 STATE OFFICE BLDG.  
SALT LAKE CITY, UT 84114

3

PENNZOIL COMPANY  
16TH & BROADWAY, SUITE 1800  
DENVER, CO 80202  
ATTN: DAVID HARDY OR G. P. SANFILIPPO

1

+

DEPT. OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
136 E. S. TEMPLE  
SALT LAKE CITY, UT 84111

2

NATURAL GAS CORP. OF CALIFORNIA  
85 SOUTH 200 EAST  
VERNAL, UT 84078

1

+

DISTRIBUTION FOR TECHNICAL REPORTS

COMPANY GULF OIL COMPANY	WELL HALLS FEDERAL	NO. 1-13-3C
CUSTOMER SAME	FIELD WILD CAT	
COUNTY UTAH	STATE UTAH	

THIS TEST ONLY     ALL TESTS ON THIS WELL    FJS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS AS SHOWN AT LEFT.

NATURAL GAS CORP. OF CALIFORNIA  
7800 E. UNION AVE., SUITE 800  
DENVER, CO 80237  
ATTN: BOB JUST

2

+

SANTA FE MINERALS  
1380 LAWRENCE, SUITE 700  
DENVER, CO 80204  
ATTN: R. E. NORDECK

1

+

SANTA FE MINERALS  
3131 TURTLE CREEK BLVD.  
SUITE 100  
DALLAS, TX 75219  
ATTN: CHARLES L. WHITMAN

1

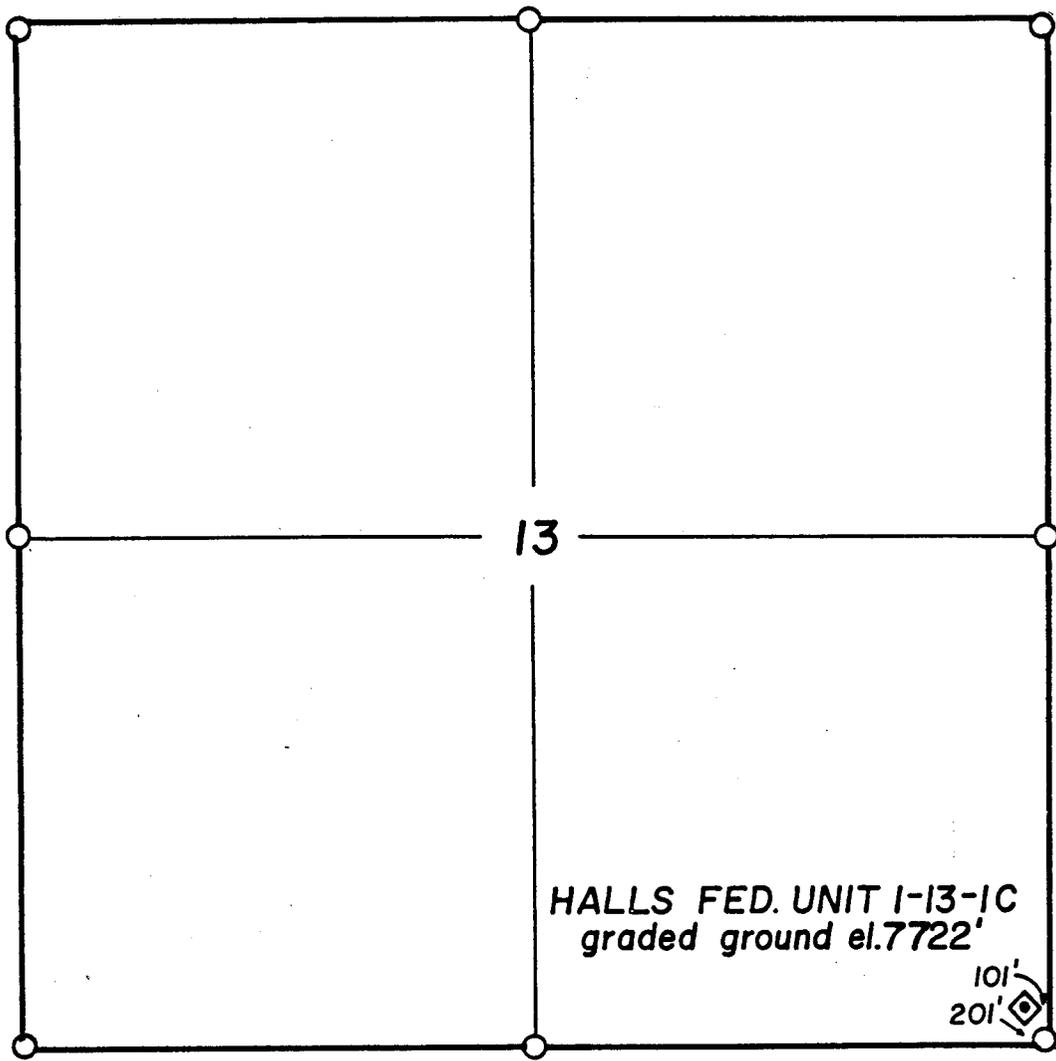
+

EXXON COMPANY, U.S.A.  
P. O. BOX 120  
DENVER, CO 80201  
ATTN: BILL THRELFALL

2

+

R 5 E



SCALE 1"=1000'

T 7 S

HALLS FED. UNIT 1-13-1C  
graded ground el.7722'

101'  
201'

CERTIFICATE OF SURVEYOR

STATE OF UTAH }  
COUNTY OF UTAH } SS

I, Dick R. Griffin of Rock Springs, Wyoming, hereby certify that this map was made from notes taken during an actual survey under my direct supervision on January 10, 1985, and that it shows correctly the location of The HALLS FEDERAL UNIT 1-13-1C

UTAH RLS 5120

NOTE

- FOUND CORNER
- ⊙ PROPORTIONED CORNER
- ◇ WELL LOCATION

JOB NO. 998

<b>PLAT OF DRILLING LOCATION</b>
for
<b>GULF OIL EXPLOR. &amp; PROD. CO.</b>
201' F/SL - 101' F/EL, Section 13, T 7 S, R 5 E of the SALT LAKE MERIDIAN
Prepared by: D. R. GRIFFIN & ASSOCIATES P.O. BOX 1059 (307) 362-5028 ROCK SPRINGS, WYOMING 82901

STATE

# DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) ~~Gulf~~ 1-22-85

OIL CO.: Gulf

WELL NAME & NUMBER: Aalk Federal 1-13-3C

SECTION: 13

TOWNSHIP: 7S

RANGE: SE

COUNTY: Utah

DRILLING CONTRACTOR: P.F. #33

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**  
608 N. Vernal Ave.  
Vernal, UT 84078  
Phone: (801) 781-0448 or (801) 781-0449

OIL CO. SITE REPRESENTATIVE: Greg Bross

RIG TOOL PUSHER: Mack

TESTED OUT OF: Vernal

NOTIFIED PRIOR TO TEST: None

COPIES OF THIS TEST REPORT SENT COPIES TO: Co. Men

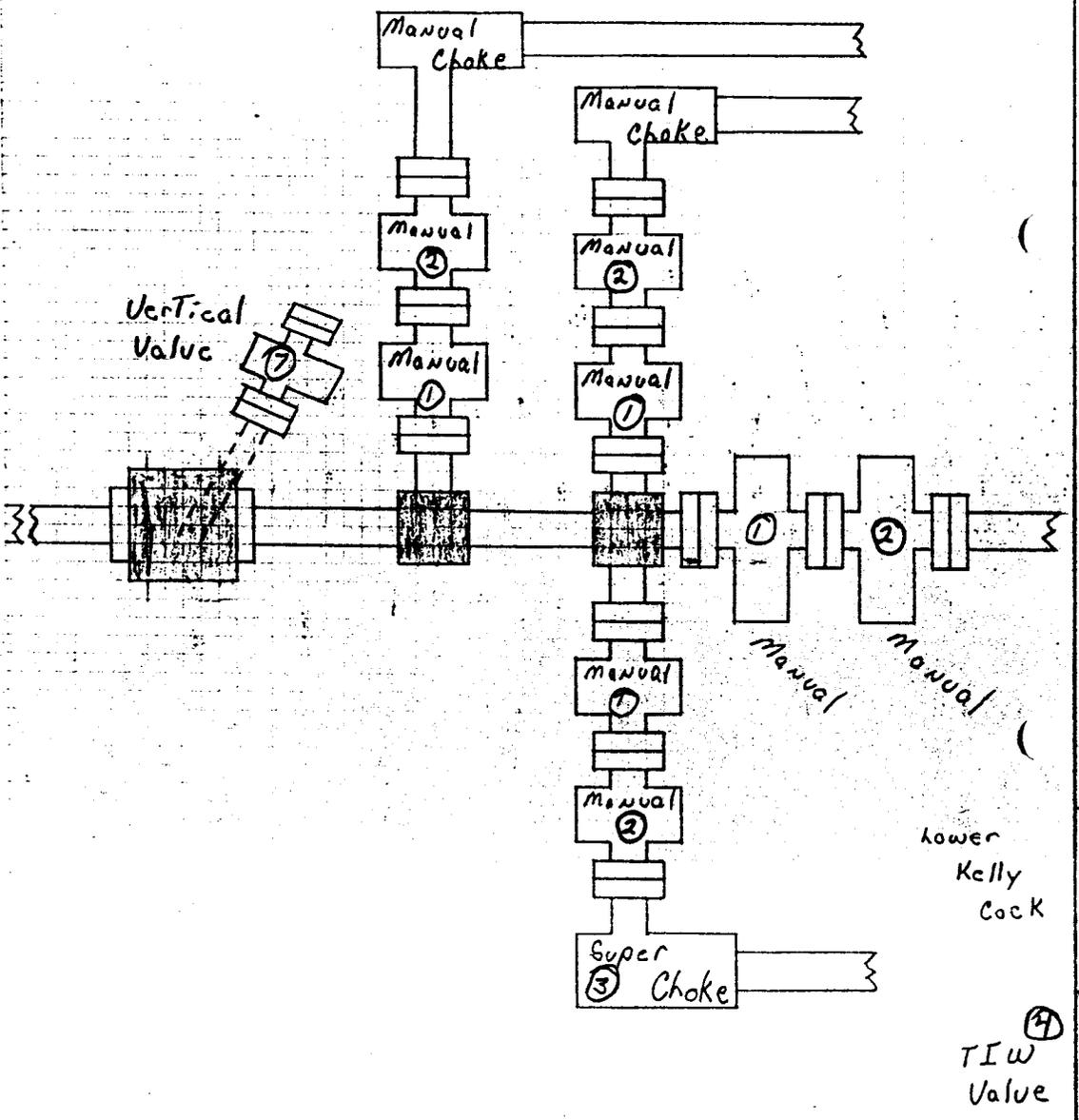
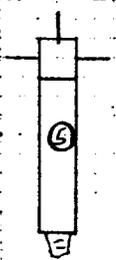
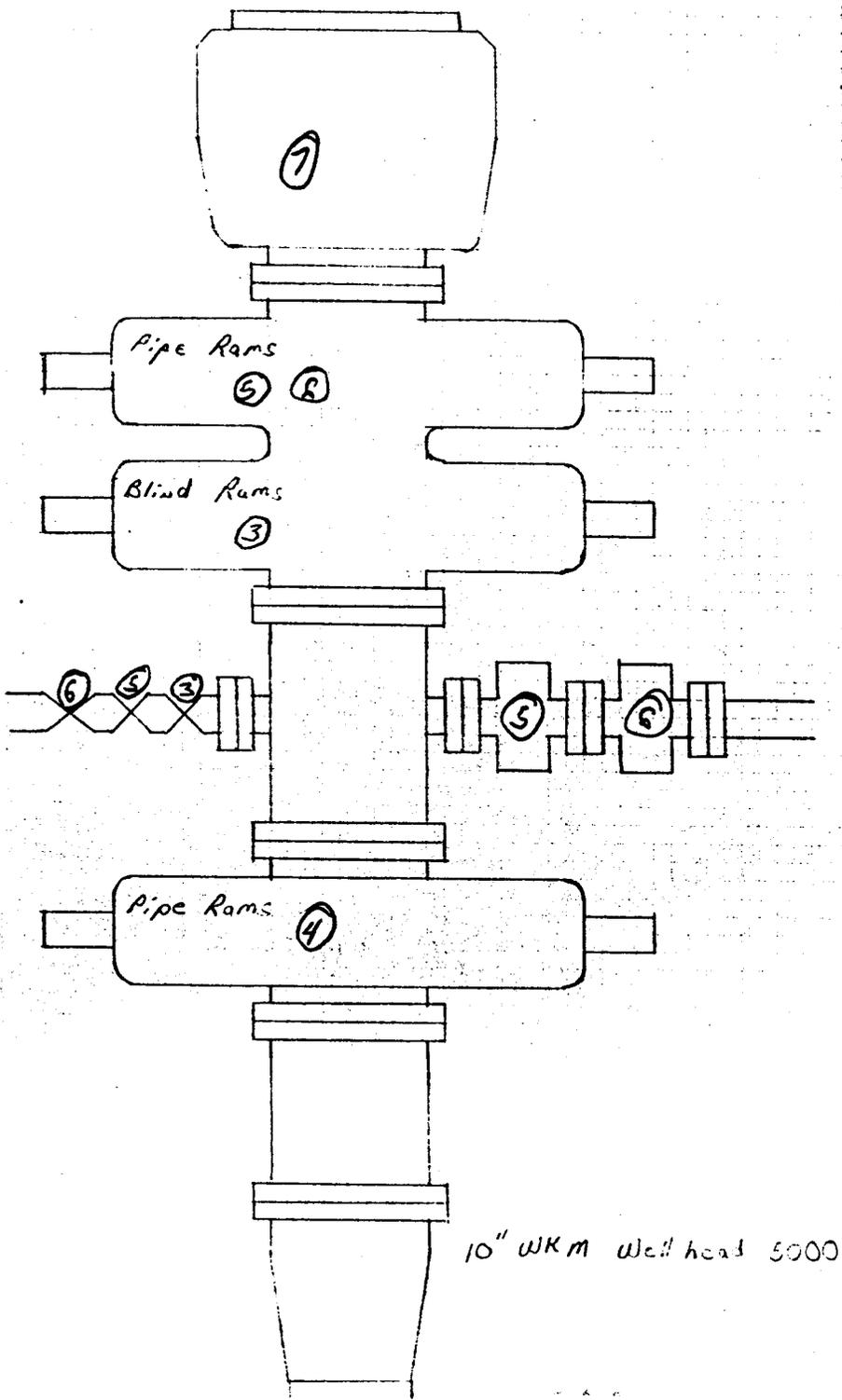
Parker

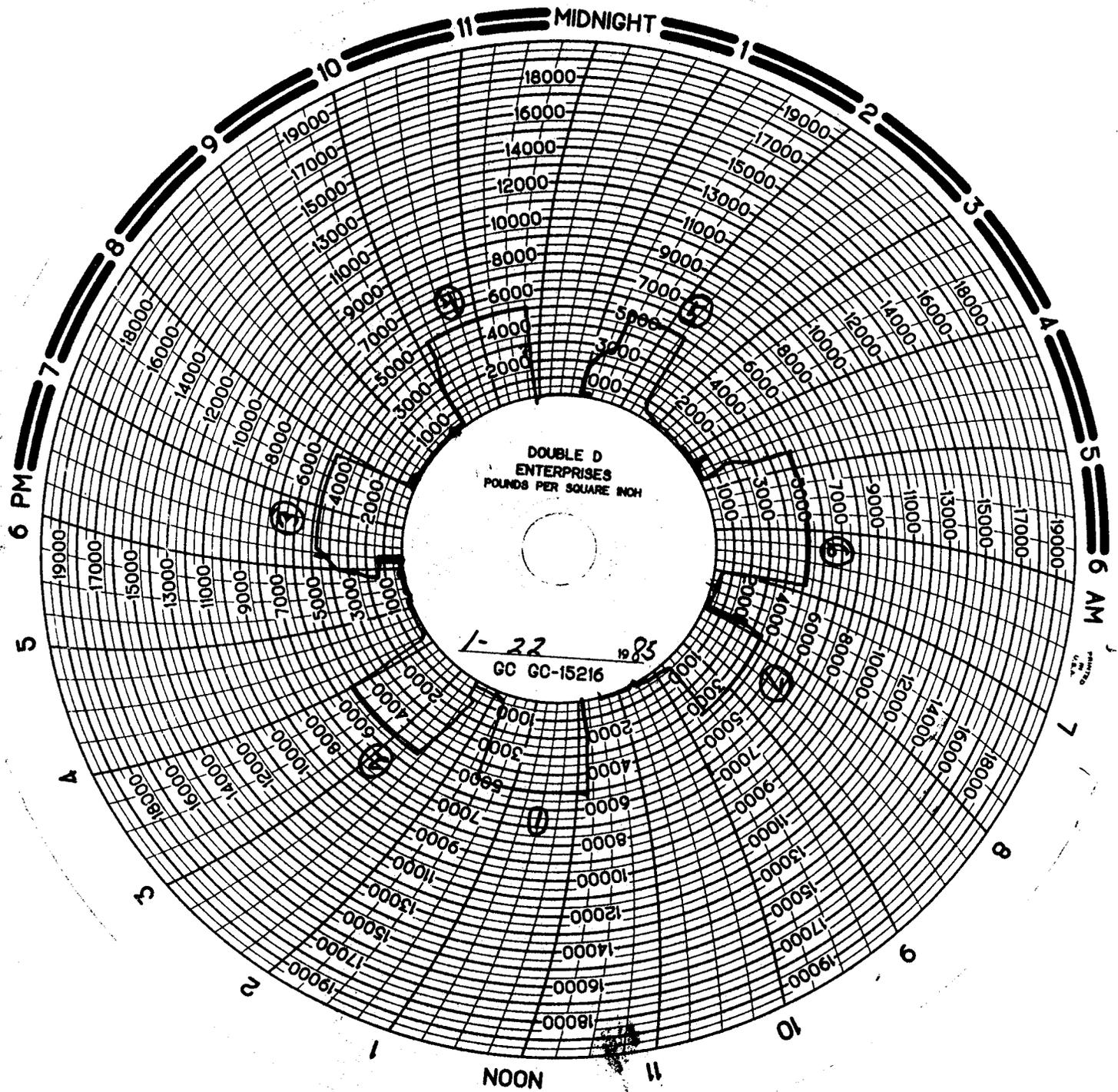
BIM

State

ORIGINAL CHART & TEST REPORT ON FILE AT: Vernal OFFICE







DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

1-22-25  
GC GC-15216

MADE IN U.S.A.

*Received  
1/24/85*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well  gas well  other

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Gulf Oil Corporation (Attn: W. L. Rohrer)

3. ADDRESS OF OPERATOR  
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AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

5. LEASE  
U-29759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Halls Federal Unit

8. FARM OR LEASE NAME

9. WELL NO.  
1-13-3C

10. FIELD OR WILDCAT NAME  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Sec. 13, T. 7S., R. 5E.,

12. COUNTY OR PARISH | 13. STATE  
Utah | Utah

14. API NO.  
43-049-30014

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
DF 7746.5'

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

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

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

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.)\*

Reduction in drill pad size required modifications of layout plans and shifting of borehole location to accommodate design changes. Copies of new survey plat and drill pad diagram are attached hereto.

**RECEIVED**

FEB 19 1985

DIVISION OF OIL  
GAS & MINING

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

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

SIGNED Richard R. Smith R. C. Smith TITLE Area Drlg. Supt. DATE January 22, 1985

(This space for Federal or State office use)

APPROVED BY John H. Stephens TITLE Assoc. Dist. Mgr. DATE 1/29/85  
CONDITIONS OF APPROVAL, IF ANY:

State of Utah

DOUBLE "D" ENTERPRISES RECEIVED

B.O.P. Test Report

FEB 19 1985

DIVISION OF OIL  
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 2-10-85

OIL CO.: Gulf

WELL NAME & NUMBER Hall's Federal 1-13-3C

SECTION 13

TOWNSHIP 7S

RANGE 5E

COUNTY Utah

DRILLING CONTRACTOR Dixilyn Fields #33

INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: DOUBLE "D" ENTERPRISES, INC.  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Dan Sheehan

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative

Utah Oil & Gas

B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

DOUBL "D" ENTERPRISES TESTING

P.O. Box 560 Shoshoni, Wyoming 82649 307-876-2308

# 39

DELIVERY TICKET

PO # 165014-CA No 1982

RENTED TO Gulf Hall's FED 1-13-3C NO. DATE 2-10-85

ORDERED BY Dan Sheehan Hall's FED WELL NO. 1-13-3C

Items Tested:	300		
pipe rams to	5000#	Csg. to	300#
BLIND rams to	300#	Hydril B O P to	3500#
pipe rams to	5000#	Choke Line	5000#
			300#
		superchoke	5000#

Choke Manifold	300#
Both Kelly Cocks	300#
Both Safety Valves	300#

TEST SUBS 2-4 1/2 IF tes  
OTHER 10" WKM tes

8 HRS TRAVEL TIME  
LOW TESTS HELD 5 MINUTES  
HIGH TESTS HELD 15 MINUTES  
ACCUMULATOR PRESSURE - 2800  
ANNULAR ON ACCUMULATOR 1200  
RAM CLOSING TIME - 4 SECONDS  
HYDRIL CLOSING TIME 10 SECONDS  
CLOSED CASING HEAD VALVE &  
SET WEAR RING WHEN THROUGH  
MANIFOLD & CHOKELINE FILLED W/  
METHANOL - 75 GALLONS  
FIELDS # 33 - CREW EXCELLENT NO 10

We Appreciate Your Business

Thank-you

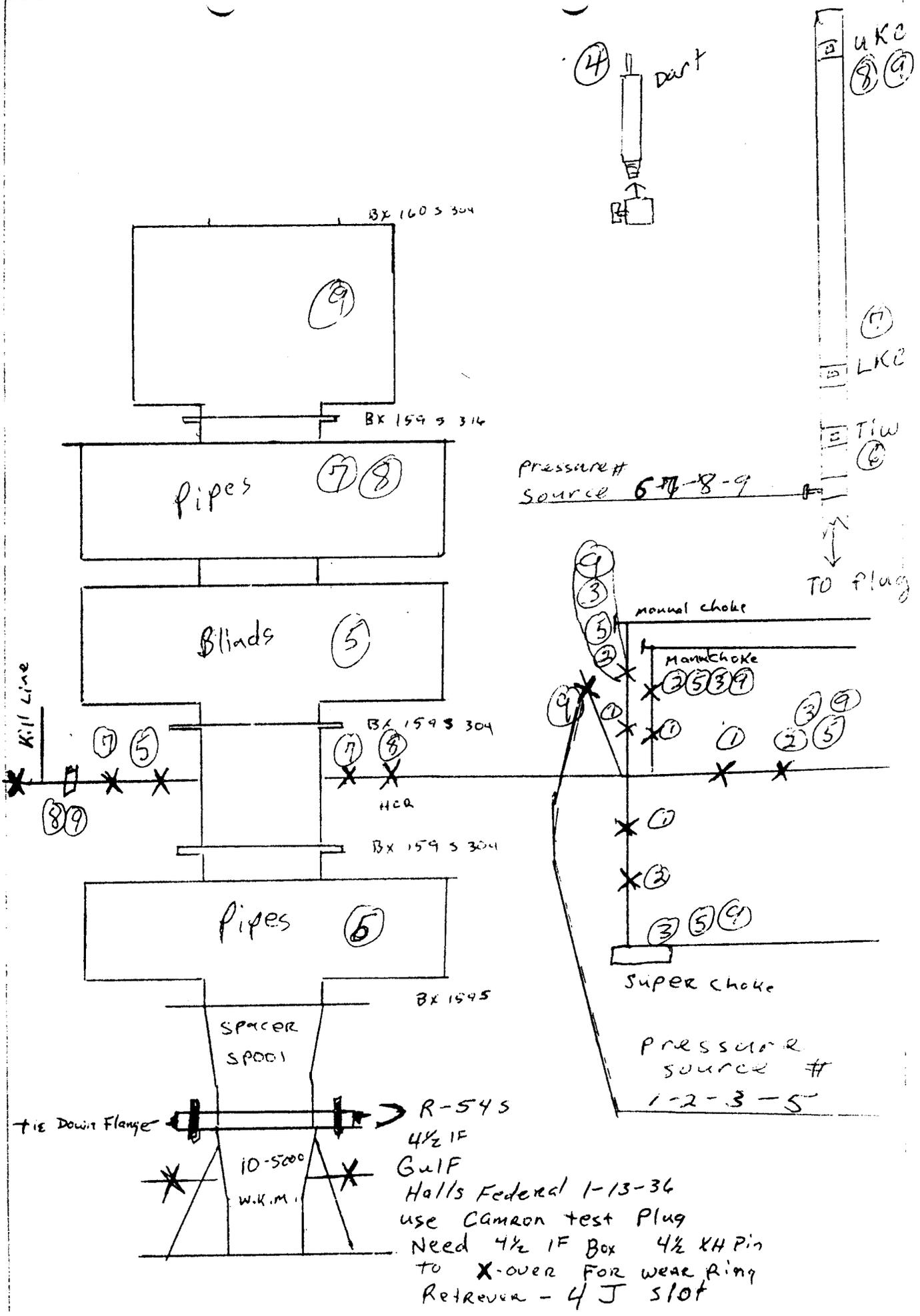
TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions: Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By: Shane McKown  
By: Dan Sheehan OWNER OR OWNER'S REPRESENTATIVE

COMPANY	LEASE AND WELL NAME #	DATE OF TEST	RIG # AND NAME
ST#	TIME		
	4 <sup>30</sup> AM	arrive ON location Rig inspecting B.H.A.	
	4 <sup>30</sup> -5 <sup>30</sup>	UNLOAD truck rig up to manifold	
①	5 <sup>30</sup> -5 <sup>50</sup>	1st 4 manifold valves 300 5 min 5000 15 OK switch valves	
②	5 <sup>50</sup> -6 <sup>15</sup>	2nd 4 manifold valves 300 5 min 5000 15 min OK switch valves	
③	6 <sup>15</sup> -6 <sup>40</sup>	Superchoke 300 5 min 5000 15 min OK	
④	6 <sup>40</sup> -7 <sup>30</sup>	Inspect B.H.A. Tested Dart value during this time 300 5 min 5000 15 OK	
	7 <sup>30</sup> -8 <sup>00</sup>	Pick up tools m/u wear ring puller pull wear ring m/u plug RUN set plug fill stack	
⑤	8-8 <sup>20</sup>	BLINDS 1st Kill line valve 1st 4 manifold valves 300 5 min 5000 15 OK - During this time pick up Kelly & m/u Tiw & test sub & Kelly to joint	
	8 <sup>20</sup> -8 <sup>30</sup>	RUN joint & Kelly & tie in	
⑥	8 <sup>30</sup> -8 <sup>50</sup>	lower pipes & Tiw 300 5 min 5000 15 min OK	
⑦	8 <sup>50</sup> -9 <sup>15</sup>	Switch Rams & valves upper pipes and kill valve manual on choke line lower Kelly 300 5 min 5000 15 OK	
⑧	9 <sup>15</sup> - <del>9<sup>40</sup></del>	Switch valves upper pipes upper Kelly check valve HCR value 300 5 min 5000 15 OK	
⑨	9 <sup>40</sup> -10 <sup>05</sup>	Close HVRil open pipes test HVRil check upper Kelly & 1st 4 manifold riser valve 300 5 min 3500 15 OK	
	10 <sup>05</sup> -10 <sup>30</sup>	Pull Plug rig DOWN tools Kelly Back Rig up tools RUN & set wear ring	
	10 <sup>30</sup> -11 <sup>00</sup>	Rig DOWN tools spool up LOAD truck	

Dixfield SS



Pressure #  
Source 6-7-8-9

manual choke

ManChoke

super choke

Pressure  
source #  
1-2-3-5

Tie Down Flange

R-545  
4 1/2 IF  
Gulf  
Halls Federal 1-13-36  
use Cameron test Plug  
Need 4 1/2 IF Box 4 1/2 KH Pin  
to X-over for wear ring  
Retriever - 4 J slot

SPACER  
SPOOL

10-5000  
W.K.M.

Pipes (7, 8)

Blinds (5)

Pipes (5)

BX 160 S 304

BX 159 S 314

BX 159 S 304

BX 159 S 304

BX 159 S

HCR

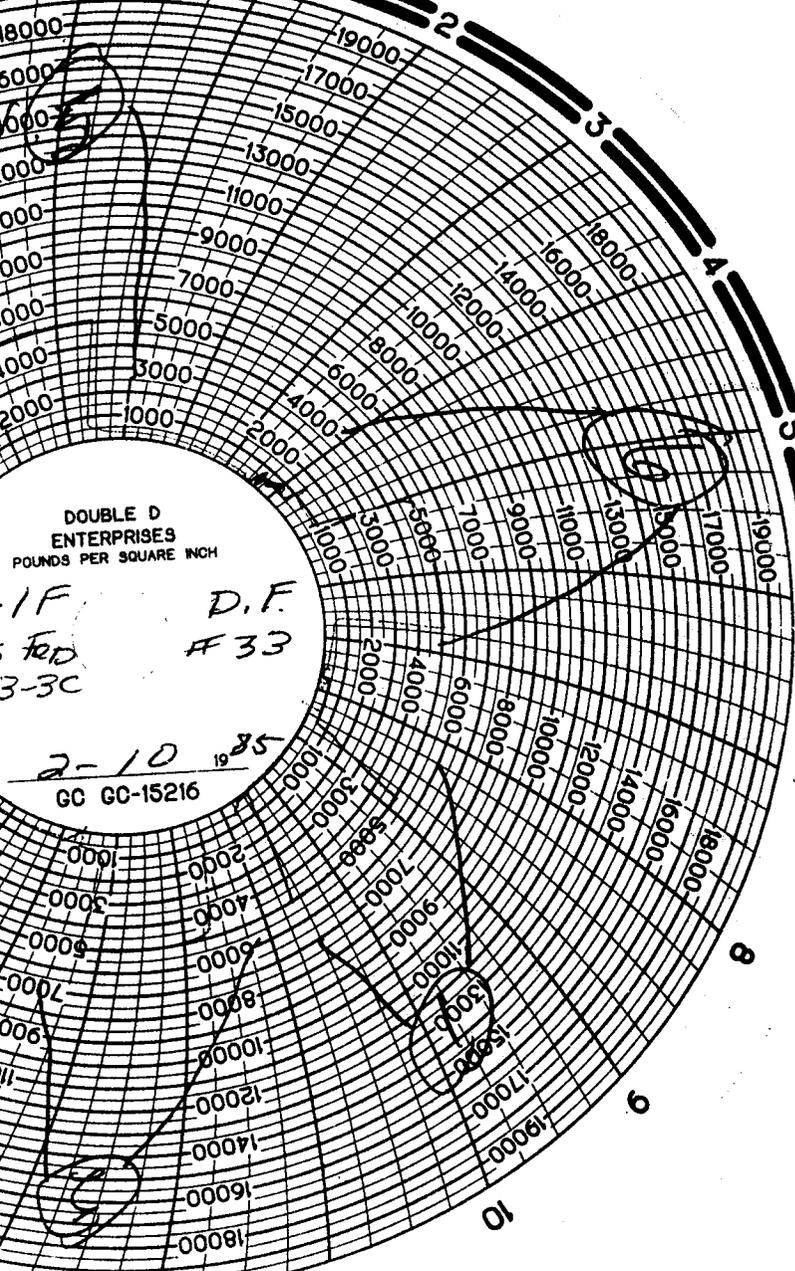
uKC  
(8) (9)

(7)  
LKC

TIW  
(6)

TO plug

MIDNIGHT



DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

Gulf D.F.  
Halls Fed #33  
1-13-3C

2-10 1985  
GC GC-15216

NOON

6 PM

6 AM

PRINTED  
U.S.A.





# BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. 42994E

COMPANY : GULF OIL EXPL. & PROD. COMPANY

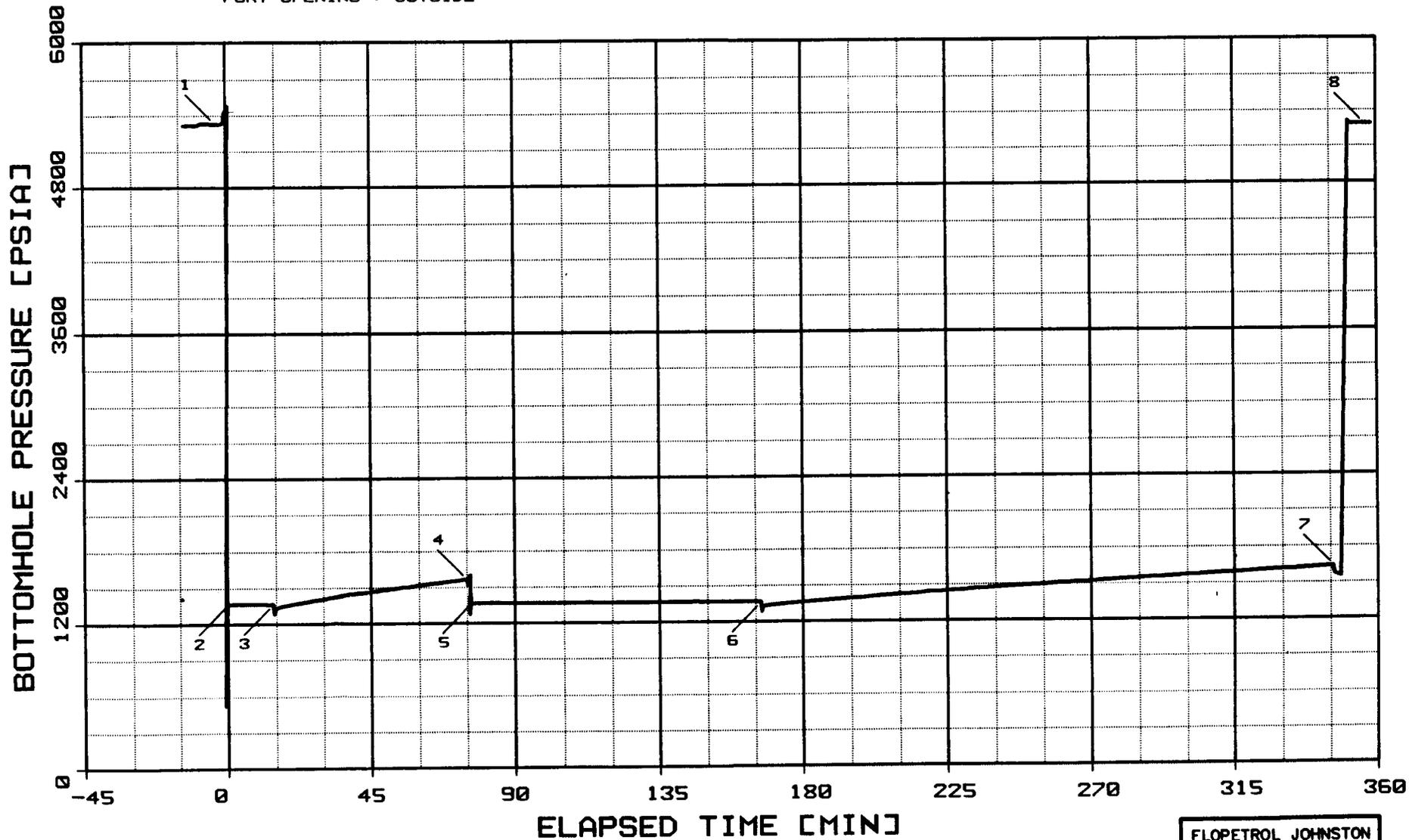
INSTRUMENT NO. J-1400

WELL : HALLS FEDERAL #1-13-3C

DEPTH : 11457 FT

CAPACITY : 6400 PSI

PORT OPENING : OUTSIDE



FLOPETROL JOHNSTON

**DST EVENT SUMMARY**

Field Report # 42994 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	LABEL PT. #	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
2-26-85	0618	—	SET PACKER	1		C
	0618	—	OPENED TEST TOOL FOR INITIAL FLOW	2	0.04	L
	0628				0.00	O
						S
						E
						D
	0633	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	3	0.00	
						C
						H
						A
	0733		FINISHED SHUT-IN	4	0.00	M
	0734	—	OPENED TEST TOOL FOR FINAL FLOW	5	0.00	B
	0754				0.00	E
	0804				0.00	R
	0834				0.02	
						T
						E
						L
						E
						F
						L
						O
	0904	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	6	0.01	W
						T
						E
						S
	1204	—	FINISHED FINAL SHUT-IN	7	0.07	T
	1206	—	UNSEATED PACKER	8	—	
		—	REVERSED OUT			
		—	BEGAN TRIP OUT OF HOLE			

\*\*\*\*\*  
 \* WELL TEST DATA PRINTOUT \*  
 \*\*\*\*\*

FIELD REPORT # : 42994E

COMPANY : GULF OIL EXPL. & PROD. COMPANY  
 WELL : HALLS FEDERAL #1-13-3C

INSTRUMENT # : J-1400  
 CAPACITY [PSI] : 6400.  
 DEPTH [FT] : 11457.0  
 PORT OPENING : OUTSIDE  
 TEMPERATURE [DEG F] : 162.0

LABEL POINT INFORMATION

\*\*\*\*\*

#	TIME		EXPLANATION	ELAPSED TIME, MIN	BOT HOLE PRESSURE PSIA
	OF DAY	DATE			
HH:MM:SS	DD-MM				
1	6:14:44	26-FB	HYDROSTATIC MUD	-3.27	5326
2	6:18:0	26-FB	START FLOW	0.00	1359
3	6:32:10	26-FB	END FLOW & START SHUT-IN	14.16	1360
4	7:33:7	26-FB	END SHUT-IN	75.12	1558
5	7:34:37	26-FB	START FLOW	76.62	1362
6	9:4:50	26-FB	END FLOW & START SHUT-IN	166.83	1360
7	12:4:0	26-FB	END SHUT-IN	346.00	1631
8	12:14:17	26-FB	HYDROSTATIC MUD	356.29	5286

SUMMARY OF FLOW PERIODS

\*\*\*\*\*

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	14.16	14.16	1359	1360
2	76.62	166.83	90.21	1362	1360

SUMMARY OF SHUTIN PERIODS

\*\*\*\*\*

PERIOD	START ELAPSED TIME, MIN	END ELAPSED TIME, MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	14.16	75.12	60.96	1360	1558	1360	14.16
2	166.83	346.00	179.17	1360	1631	1360	104.37

## TEST PHASE : FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MM	*****	*****	*****
6:18:0	26-FB	0.00	0.00	1359
6:23:0	26-FB	5.00	5.00	1361
6:28:0	26-FB	10.00	10.00	1361
6:32:10	26-FB	14.16	14.16	1360

## TEST PHASE : SHUTIN PERIOD # 1

FINAL FLOW PRESSURE [PSIA] = 1360

PRODUCING TIME [MIN] = 14.16

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
6:32:10	26-FB	14.16	0.00	1360	0	
6:33:10	26-FB	15.16	1.00	1329	-30	1.181
6:34:10	26-FB	16.16	2.00	1337	-23	0.907
6:35:10	26-FB	17.16	3.00	1344	-16	0.757
6:36:10	26-FB	18.16	4.00	1350	-10	0.657
6:37:10	26-FB	19.16	5.00	1354	-6	0.583
6:38:10	26-FB	20.16	6.00	1358	-2	0.526
6:39:10	26-FB	21.16	7.00	1363	3	0.480
6:40:10	26-FB	22.16	8.00	1368	8	0.442
6:41:10	26-FB	23.16	9.00	1373	13	0.410
6:42:10	26-FB	24.16	10.00	1378	18	0.383
6:44:10	26-FB	26.16	12.00	1386	27	0.338
6:46:10	26-FB	28.16	14.00	1394	35	0.304
6:48:10	26-FB	30.16	16.00	1402	43	0.275
6:50:10	26-FB	32.16	18.00	1411	52	0.252
6:52:10	26-FB	34.16	20.00	1418	59	0.232
6:54:10	26-FB	36.16	22.00	1427	67	0.216
6:56:10	26-FB	38.16	24.00	1436	76	0.201
6:58:10	26-FB	40.16	26.00	1443	84	0.189
7:0:10	26-FB	42.16	28.00	1450	90	0.178
7:2:10	26-FB	44.16	30.00	1458	98	0.168
7:7:10	26-FB	49.16	35.00	1475	116	0.148
7:12:10	26-FB	54.16	40.00	1493	133	0.132
7:17:10	26-FB	59.16	45.00	1509	150	0.119
7:22:10	26-FB	64.16	50.00	1525	165	0.108
7:27:10	26-FB	69.16	55.00	1541	181	0.099
7:32:10	26-FB	74.16	60.00	1556	196	0.092
7:33:7	26-FB	75.12	60.96	1558	198	0.091

TEST PHASE : FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MM	*****	*****	*****
7:34:37	26-FB	76.62	0.00	1362
7:39:37	26-FB	81.62	5.00	1361
7:44:37	26-FB	86.62	10.00	1362
7:49:37	26-FB	91.62	15.00	1361
7:54:37	26-FB	96.62	20.00	1361
7:59:37	26-FB	101.62	25.00	1361
8: 4:37	26-FB	106.62	30.00	1361
8: 9:37	26-FB	111.62	35.00	1363
8:14:37	26-FB	116.62	40.00	1361
8:19:37	26-FB	121.62	45.00	1360
8:24:37	26-FB	126.62	50.00	1361
8:29:37	26-FB	131.62	55.00	1360
8:34:37	26-FB	136.62	60.00	1360
8:39:37	26-FB	141.62	65.00	1360
8:44:37	26-FB	146.62	70.00	1363
8:49:37	26-FB	151.62	75.00	1361
8:54:37	26-FB	156.62	80.00	1361
8:59:37	26-FB	161.62	85.00	1360
9: 4:37	26-FB	166.62	90.00	1360
9: 4:50	26-FB	166.83	90.21	1360

TEST PHASE : SHUTIN PERIOD # 2

FINAL FLOW PRESSURE [PSIA] = 1360  
 PRODUCING TIME [MIN] = 104.37

TIME OF DAY	DATE	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
9: 4:50	26-FB	166.83	0.00	1360	0	
9: 5:50	26-FB	167.83	1.00	1323	-37	2.023
9: 6:50	26-FB	168.83	2.00	1328	-32	1.726
9: 7:50	26-FB	169.83	3.00	1331	-28	1.554
9: 8:50	26-FB	170.83	4.00	1334	-26	1.433
9: 9:50	26-FB	171.83	5.00	1337	-23	1.340
9:10:50	26-FB	172.83	6.00	1339	-21	1.265
9:11:50	26-FB	173.83	7.00	1341	-19	1.202
9:12:50	26-FB	174.83	8.00	1343	-17	1.148
9:13:50	26-FB	175.83	9.00	1345	-15	1.100
9:14:50	26-FB	176.83	10.00	1347	-13	1.058
9:16:50	26-FB	178.83	12.00	1352	-8	0.987
9:18:50	26-FB	180.83	14.00	1356	-4	0.927
9:20:50	26-FB	182.83	16.00	1360	0	0.876
9:22:50	26-FB	184.83	18.00	1365	5	0.832
9:24:50	26-FB	186.83	20.00	1369	9	0.794
9:26:50	26-FB	188.83	22.00	1372	12	0.759
9:28:50	26-FB	190.83	24.00	1376	16	0.728

TEST PHASE : SHUTIN PERIOD # 2  
 FINAL FLOW PRESSURE [PSIA] = 1360  
 PRODUCING TIME [MIN] = 104.37

TIME OF DAY	DATE	ELAPSED TIME, MIN	DELTA TIME, MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MM	*****	*****	*****	*****	*****
9:30:50	26-FB	192.83	26.00	1381	21	0.700
9:32:50	26-FB	194.83	28.00	1386	26	0.675
9:34:50	26-FB	196.83	30.00	1390	30	0.651
9:39:50	26-FB	201.83	35.00	1398	38	0.600
9:44:50	26-FB	206.83	40.00	1410	50	0.557
9:49:50	26-FB	211.83	45.00	1418	58	0.521
9:54:50	26-FB	216.83	50.00	1428	68	0.490
9:59:50	26-FB	221.83	55.00	1438	78	0.462
10: 4:50	26-FB	226.83	60.00	1445	85	0.438
10: 9:50	26-FB	231.83	65.00	1455	95	0.416
10:14:50	26-FB	236.83	70.00	1463	103	0.396
10:19:50	26-FB	241.83	75.00	1470	110	0.379
10:24:50	26-FB	246.83	80.00	1479	119	0.363
10:29:50	26-FB	251.83	85.00	1487	127	0.348
10:34:50	26-FB	256.83	90.00	1497	137	0.334
10:39:50	26-FB	261.83	95.00	1506	146	0.322
10:44:50	26-FB	266.83	100.00	1514	154	0.310
10:49:50	26-FB	271.83	105.00	1520	160	0.300
10:54:50	26-FB	276.83	110.00	1529	169	0.290
10:59:50	26-FB	281.83	115.00	1536	176	0.280
11: 4:50	26-FB	286.83	120.00	1544	184	0.272
11: 9:50	26-FB	291.83	125.00	1551	191	0.264
11:14:50	26-FB	296.83	130.00	1559	199	0.256
11:19:50	26-FB	301.83	135.00	1565	205	0.249
11:24:50	26-FB	306.83	140.00	1573	213	0.242
11:29:50	26-FB	311.83	145.00	1581	221	0.235
11:34:50	26-FB	316.83	150.00	1588	228	0.229
11:39:50	26-FB	321.83	155.00	1596	236	0.224
11:44:50	26-FB	326.83	160.00	1603	243	0.218
11:49:50	26-FB	331.83	165.00	1610	250	0.213
11:54:50	26-FB	336.83	170.00	1617	257	0.208
11:59:50	26-FB	341.83	175.00	1625	265	0.203
12: 4: 0	26-FB	346.00	179.17	1631	271	0.199

FLOPETROL JOHNSTON

Schlumberger

# WELL PERFORMANCE TEST REPORT RECEIVED

A Production Systems Analysis (NODAL)  
Based On  
Drillstem Test Data

Test Date  
02-24-85

MAR 06 Report No.:  
42993JE

DIVISION OF OIL  
GAS & MINING

COMPANY

## GULF OIL

WELL

## HALLS FED. 1-13-3C

TEST IDENTIFICATION

Test Type .....: OPEN HOLE  
Test Number .....: 2  
Formation .....: DQUIRRH  
Test Interval .....: 11420 - 11605 FT.  
Reference Depth .....: KELLY BUSHING

WELL LOCATION

Field.....: WILD CAT  
County.....: UTAH  
State.....: UTAH  
Sec / Twn / Rng .....: S13 T7S R5E  
Elevation.....: 7746 FT. (KB)

HOLE CONDITIONS

Total Depth (MVD/TVD) .....: 11605 FT.  
Hole Size / Deviation Angle .....: 9 1/2"/STRAIGHT  
Csg / Liner ID .....: NA  
Perf'd Interval .....: NA  
Shot Density / Phasing .....: NA  
Gun Type / Perf Cond .....: NA

MUD PROPERTIES

Mud Type .....: NOT GIVEN  
Mud Weight .....: 8.8 LB/GAL  
Mud Resistivity .....: NOT GIVEN  
Filtrate Resistivity .....: NOT GIVEN  
Filtrate Chlorides .....: NOT GIVEN  
Filtrate Nitrates.....: NA

INITIAL TEST CONDITIONS

Gas Cushion Type .....: NONE  
Surface Pressure .....: NA  
Liquid Cushion Type .....: WATER  
Height Above DST Valve .....: 1900 FT.

TEST STRING CONFIGURATION

Pipe Length / ID.....: 11034 FT./4.28 IN.  
Collar Length / ID .....: 336 FT./2.50 IN.  
Packer Depth(s).....: 11413 & 11420 FT.  
BH Choke Size.....: 15/16 IN.

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties
NONE		

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
2500 CC	MUD	
Pressure: 0.0 PSIG	GOR: --	GLR: --

INTERPRETATION RESULTS

Reservoir Pressure @Gauge Depth: NA  
Gauge Depth .....: 11427 FT.  
Hydrostatic Gradient .....: NA  
Potentiometric Surface .....: NA  
Effective Permeability to \_\_\_\_: NA  
Transmissibility.....: NA  
Skin Factor / Damage Ratio.....: NA  
Omega / Lambda (2φ System).....: NA  
Radius of Investigation .....: NA  
Measured Wellbore Storage .....: NA

ROCK / FLUID / WELLBORE PROPERTIES

Reservoir Temperature.....: 162°F  
Analysis Fluid Type.....: NA  
Formation Volume Factor .....: NA  
Viscosity .....: NA  
Z-Factor (gas only).....: NA  
Net Pay.....: 40 FT.  
Porosity .....: 5 - 6%  
Total System Compressibility.....: NA  
Wellbore Radius.....: .396 FT.  
Expected Wellbore Storage.....: NA

FLOW RATE DURING DST

UNSUCCESSFUL TEST; PACKER SEAT FAILURE

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

FJS-5 B14059

**BOTTOM HOLE PRESSURE AND TIME**

JS-193A



PAGE NUMBER

INSTRUMENT NUMBER

J-1400

CAPACITY (P.S.I.)

6400#

DEPTH

11427 FT.

PORT OPENING

OUTSIDE

BOTTOM HOLE TEMPERATURE

162°F

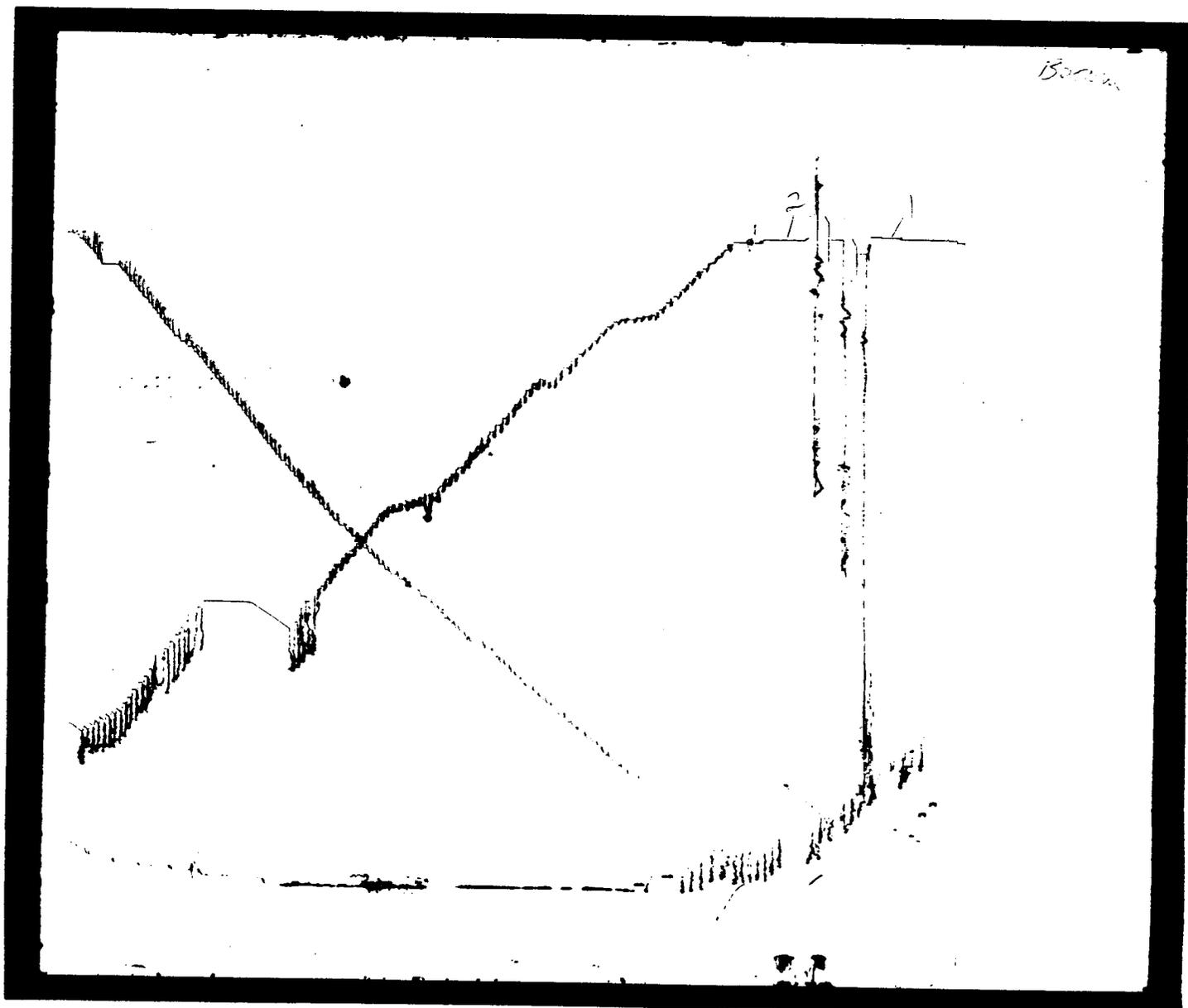
FIELD REPORT NUMBER

42993 E

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	5259		
INITIAL FLOW (1)				
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	2	5248		

REMARKS:

UNSUCCESSFUL TEST; PACKER SEAT FAILURE



RECEIVED

MAR 04 1985

DISTRIBUTION FOR TECHNICAL REPORTS

PAGE 1 OF 2

COMPANY GULF OIL EXPLORATION & PRODUCTION	WELL HALLS FEDERAL	DIVISION OF OIL GAS & MINING	NO. 1-13-3C
CUSTOMER SAME	FIELD WILD CAT		
COUNTY UTAH	STATE UTAH		

THIS TEST ONLY     ALL TESTS ON THIS WELL    FJS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS AS SHOWN AT LEFT.

GULF OIL EXPLORATION & PROD.  
ATTN: AREA OPERATIONS EXPL. MGR.  
P. O. BOX 2619  
CASPER, WY 82602

4

AMOCO PRODUCTION CO.  
ATTN: BILL NEWELL OR SHARYL FERNANDEZ  
1670 BROADWAY  
DENVER, CO 80202

3

+

GULF OIL EXPLORATION & PROD. CO.  
ATTN: SUPERVISOR INFORMATION CENTER  
P. O. BXD 2619  
CASPER, WY 82602

1

PENNZOIL COMPANY  
ATTN: JIM BARR OR D. E. CAUSSEY  
16TH & BROADWAY, SUITE 1800  
DENVER, CO 80202

2

+

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
4241 STATE OFFICE BLDG.  
SALT LAKE CITY, UT 84114

3

PENNZOIL COMPANY  
ATTN: DAVID HARDY OR G. P. SAN FILIPPO  
16TH & BROADWAY, SUITE 1800  
DENVER, CO 80202

1

+

DEPT. OF INTERIOR BUREAU OF LAND MNGMNT.  
136 E. S. TEMPLE  
SALT LAKE CITY, UT 84111

2

NATURAL GAS CORP. OF CALIFORNIA  
ATTN: BOB JUST  
7800 E. UNION AVE., SUITE 800  
DENVER, CO 80237

2

+



DISTRIBUTION FOR TECHNICAL REPORTS

COMPANY GULF OIL EXPLORATION & PRODUCTION	WELL HALLS FEDERAL	NO. 1-13-3C
CUSTOMER SAME	FIELD WILD CAT	
COUNTY UTAH	STATE UTAH	

THIS TEST ONLY     ALL TESTS ON THIS WELL    FJS HAS BEEN REQUESTED TO FURNISH THE FOLLOWING COMPANIES WITH TECHNICAL REPORTS AS SHOWN AT LEFT.

NATURAL GAS CORP. OF CALIFORNIA  
85 SOUTH 200 EAST  
VERNAL, UT 84078

1

+

SANTA FE MINERALS  
ATTN: R. E. NORDECK  
1380 LAWRENCE, SUITE 700  
DENVER, CO 80204

1

+

SANTA FE MINERALS  
ATTN: CHARLES L. WHITMAN  
3131 TURTLE CREEK BLVD., SUITE 100  
DALLAS, TX 75219

1

+

EXXON COMPANY, U.S.A.  
ATTN: BILL THRELFALL  
P. O. BOX 120  
DENVER, CO 80201

2

+

Utah copy  
Confidential

# DOUBLE "D" ENTERPRISES RECEIVED

B.O.P. Test Report

MAR 13 1985

DIVISION OF OIL  
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE).....2-27-85.....

OIL CO.: Gulf.....

WELL NAME & NUMBER..... Hall's Federal 1-13-3C.....

SECTION..... 13.....

TOWNSHIP..... 7S.....

RANGE..... 5E.....

COUNTY..... Utah.....

DRILLING CONTRACTOR..... Dixilyn Fields #33.....

INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.  
213 Pine Street - Box 560  
Shoshoni, Wyoming 82649  
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: DOUBLE "D" ENTERPRISES, INC.  
712 Morse Lee Street  
Evanston, Wyoming 82930  
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE.....

RIG TOOL PUSHER.....

TESTED OUT OF..... Evanston, Wyoming.....

NOTIFIED PRIOR TO TEST: State/Arlene Sollis B.L.M./Barbara Korzendorser.....

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative.....

Utah Oil & Gas.....

B.L.M. ....

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston.....OFFICE

# DOUBLE "D" TESTING

DELIVERY TICKET

P.O. Box 560  
Shoshoni, Wyoming 82649  
307-876-2308

NO. N<sup>o</sup> 1435

RENTED TO

*Calk*

NO.

*Folds 53*

DATE

*2-27-85*

ORDERED BY

LEASE

*HALL'S Fed*

WELL NO. *1-13-3C*

Items Tested:

<del>Pipes</del> rams to <del>300</del> <del>5000</del> #	Csg. to _____ #	Choke Manifold <del>300</del> <del>5000</del> #
<del>Pipes</del> rams to <del>300</del> <del>5000</del> #	Hydril B O P to <del>300</del> <del>3500</del> #	Kelly Cock _____ #
<del>Blinds</del> rams to <del>300</del> <del>5000</del> #	Choke Line <del>500</del> <del>5000</del> #	Safety Valve <del>300</del> <del>5000</del> #
_____ rams to _____ #	_____ #	T.W. <del>500</del> <del>5000</del> #

TEST SUBS

*45 IF CIR*

OTHER

*4 1/2 IF Kelly*

*10" wky - cam*

*70 gallons methanol at*

*closed casing valve*

*closed inside wky valves*

*Rig going to take care of well.*

*Fill manifold with water mixture  
of methanol then drained it.*

*Dot 165018-CA*

We Appreciate Your Business

*Thanks Mike*

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

By:

*[Signature]*

By:

Gulf - 2-27-85 - Fields 33 - HALL'S FELT 1-13-36

1:30 LOADED TRUCK

2:00 LEFT FOR LOCATION

6:15 ARRIVED ON LOCATION Rig ROAD MUDDY AS HELL

6:15 to 6:45 GOT equipment on FLOOR & TRY TO  
 GET plug TO SEAT - Finally had  
 TO TRY it with Blinds it worked.

① 9:15 High Test on Blinds - 1st kill and 1st manifold.

9:30 Low Test on same.

② 9:40 Low Test on BOTTOM pipes & TIW

9:45 High Test

③ 10:01 Low Test on Top Pipes - 2nd kill - 2nd manifold.

10:06 High Test

④ 10:23 Low Test on Top Pipes - check - 1st choke water.

10:28 High Test

⑤ 10:45 Low Test on Top Pipes 1st kill - HCR - DIAPY

10:50 High Test

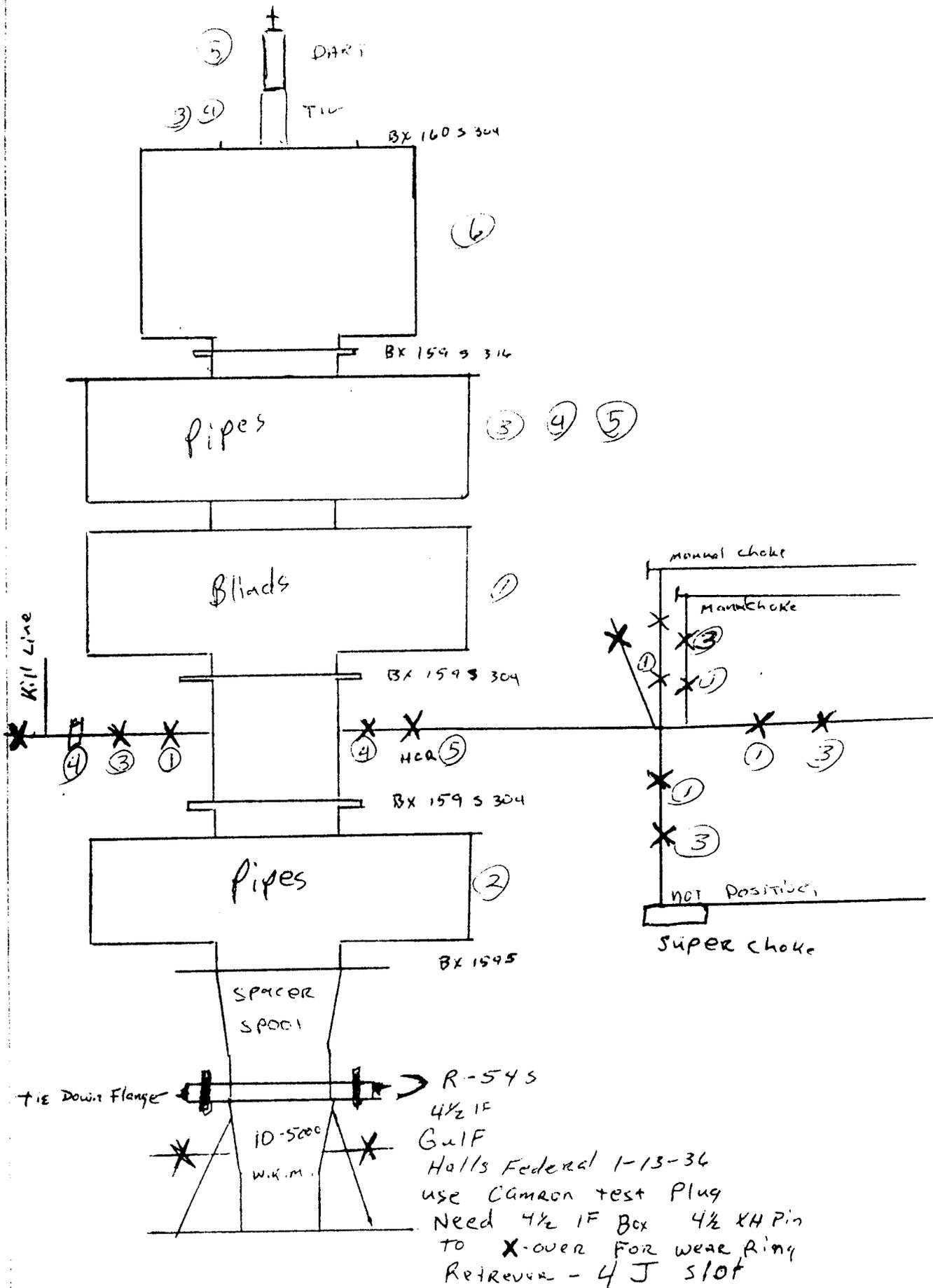
⑥ 10:07 Low Test on Hydrill

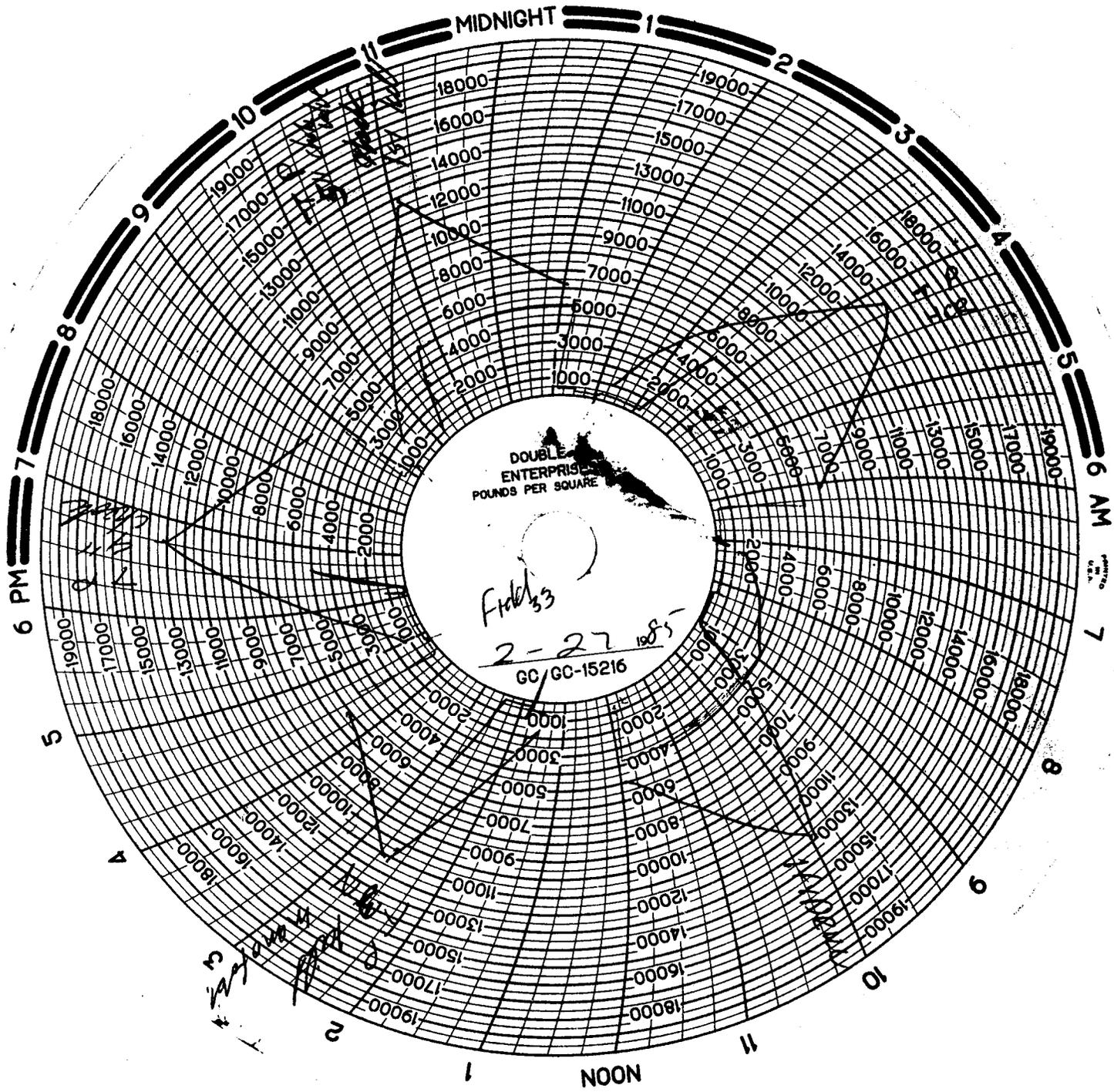
10:12 High Test

After this Test I'm going to RIG UP  
 on the Kelly. They don't want to  
 get Kelly this time so I filled  
 choke house full of about 20 to 25  
 and drained it.

12:30 MAKE OUT TICKET.

Dixie fields JS





MIDNIGHT

DOUBLE  
ENTERPRISES  
POUNDS PER SQUARE

Field 33

2-27 1985

GC/GC-15216

NOON

6 AM  
7

6 PM  
7

1

11

10

9

8

5

4

3

2

8

9

10

1

2

3

4

5

6 AM

7

8

9

10

11

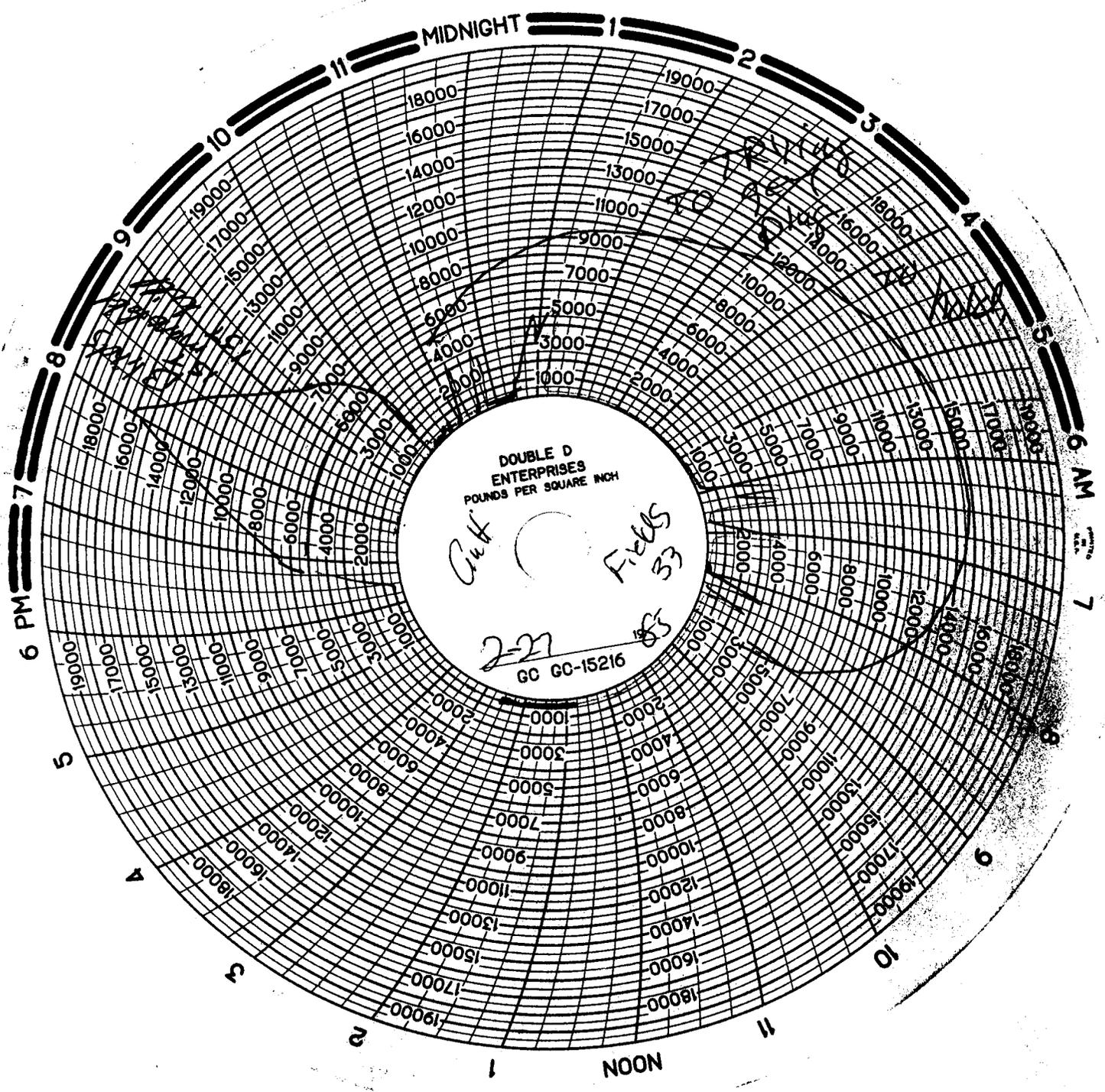
MIDNIGHT

DOUBLE D  
ENTERPRISES  
POUNDS PER SQUARE INCH

*Conf*

*Fields 33*

*2-27-85*  
GC GC-15216



Jim Lewis 3/22/85 11:15  
Gulf Oil  
Halls Fed 1-13-3C  
Sec 13 T75, R5E  
Utah Co.

Plugging. Retainers at 7103'  
will squeeze 150 sks below  
and place 1 bbl. on top.  
Plug # 3 5100 - 5300 ft 200 ft  
plug.

Tell him to notify and get approval  
from federal government prior to  
plugging

R. J. [Signature]

Gulf Bill Lloyd  
Halls Fed 1-13-3C (307) 235-1311  
Sec 13, T7S, R4E  
Utah Co.

TD = 12070

10<sup>3</sup>/<sub>4</sub>" @ 5419 cont. to surf.

Thaynes	5100
Woodside	5722
Park City	6459
Diamond Creek	8110
Rirkman	10256
Oquirrh	10624
Fault	11606
Fault	9536

Plugs

① 11700 - 11500

② 6400 - 6100

③ 5500 - 5300

④ 200 - surf.

5200 - 5300 20ft plug.

- Plan to pump approx. 20,000 bbl.

- Fresh water w/ RCI

10-15K ppm Chlorides

Conditions of approval: ① Surf press. < 2000 psi

## Change of plugging program:

- Plugged back to 8237
- Ran csg. to 8200.
- Cemented csg. up to 5100'.
- Perfed & tested:  $\left\{ \begin{array}{l} 7866 - 7916 \\ 7774 - 7806 \end{array} \right\}$
- Prepared to squeeze perfs.
- Will perf & test new set after squeeze

7304 - 7382

7266 - 7282

7208 - 7232

- Set CR & pump reserve pit fluids (Parle City formation)

## Plugs

- ① 250' across uppermost perfs.
- ② 5300 - 5100'
- ③ 200' - 4' surface plug



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

April 11, 1985

Gulf Oil Corporation  
PO Box 2619  
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Halls Federal 1-13-3C - Sec. 13, T. 7S., R. 5E.,  
Duchesne County, Utah - API #43-047-30014

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

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than April 25, 1985.

Sincerely,

A handwritten signature in cursive script that reads "Pam Kenna".

Pam Kenna  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

0170S/35

# Gulf Oil Exploration and Production Company

P. O. Box 2619  
Casper, WY 82602

April 22, 1985

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

**RECEIVED**

**APR 29 1985**

**DIVISION OF OIL  
GAS & MINING**

Gentlemen:

Re: Ute Tribal 1-15-D4  
Section 15-T4S-R4W  
Duchesne County, Utah  
API #43-013-30712

Halls Federal 1-13-3C  
Section 13-T7S-R5E  
Duchesne County, Utah  
API #43-049-30014

In reply to your April 11, 1985 letter concerning well completion reports, please be advised that the Halls Federal 1-13-3C and the Ute Tribal 1-15-D4 completion reports will be forthcoming.

Reclamation work is still in progress on the Halls Federal 1-13-1C location. The Ute Tribal 1-15-D4 was drilled dry and then TA'd. Due to current oil and gas development in this area, this well has not been plugged because of possible future use of the well bore.

Sincerely,



L. G. Rader  
Area Production Manager

CDG/IKI



A DIVISION OF GULF OIL CORPORATION

TELEPHONE: (307) 235-1311

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

5. LEASE DESIGNATION AND SERIAL NO.

U-29759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

7. UNIT AGREEMENT NAME

Halls Unit

8. FARM OR LEASE NAME

Halls Federal Unit

9. WELL NO.

1-13-3C

10. FIELD AND POOL, OR WILDCAT

Undesignated

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

13-7S-5E

12. COUNTY OR PARISH | 18. STATE

Utah County | Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Gulf Oil Corporation Attn: R.W.Huwaldt

3. ADDRESS OF OPERATOR  
P.O. Box 2619, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
115' FSL & 145' SEL (SE,SE)

14. PERMIT NO.  
43-049-30014

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
7746' KB

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)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

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.)\*

SEE ATTACHMENTS

FOR RECORD PURPOSES ONLY:

P & A procedure has been verbally approved by Mr. A. Raffoul of the BLM, Salt Lake City (801-524-5311), and Mr. John Baza of the Utah Oil and Gas Commission, Salt Lake City (801-533-5771), as per phone conversation with William Lloyd of Gulf Oil in Casper, WY.

RECEIVED

MAY 13 1985

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

DATE: 5/20/85  
BY: *John R. Baza*

DIVISION OF OIL  
GAS & MINING

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

SIGNED: *Harold Smith*  
H. D. C. Smith

TITLE Area Engineer

DATE 5-7-85

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

## Instructions

**General:** This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

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

**Item 17:** Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180

RWH MJA Info Center

DFM

HALLS FEDERAL 1-13-3C

P&A Procedure

1. ND Tree. NU BOPs. Unseat pkr and POOH.
2. RIH w/cmt ret on tbg and set @  $\pm 7100'$ .
3. Pump away reserve pit into perfs @ 7208-32', 7266-82', and 7304-82'.
4. Contact the BLM and the Oil & Gas Comm.\* before cementing and setting plugs. RU cementers, estab inj rate and pump 10 bbls fresh water, 150 sx Class "H" designed for 150-200 cc fluid loss and 3-5 hrs pumping time @ 130°F BHT, 10 bbls fresh water, and brine water. With 1 bbl good cmt left in tbg, sting out w/1 jt, and rev tbg clean. Leave hole full of 9 ppg mud. POOH.
5. RIH w/tbg open ended to 5300'. Spot balanced 200' (25 sx) plug @ EOT. Cmt should be designed for 3 hrs+ pumping time. POOH.
6. ND BOPs and tbg spool. RIH w/csg spear on drill collars. Engage 5½" 23# csg. PU, remove slips and lower csg down into hole. POOH.
7. RIH w/tbg open ended to 5100' and tag cmt plug. PU to 200' and spot cmt plug to surface.
8. Cut off wellhead below ground level and install dry hole marker which reads:

GULF OIL CORP.  
Halls Federal 1-13-3C  
LSE SN 8-48843-00  
SE/SE Sec. 13, 7S, 5E  
Utah County, Utah

9. Move off rig and equipment. Restore location.

\* P&A procedure has been verbally approved by Mr. A. Raffoul of the BLM, Salt Lake City (801-524-5311), and Mr. John Baza of the Utah Oil and Gas Commission, Salt Lake City (801-533-5771), as per phone conversation with William Lloyd of Gulf Oil in Casper, WY.

J.F. Wilkinson

*JFW* 3/19/85

JFW/mbd  
3/19/85

APPROVED:

*JFW*

*JFB*  
3-19-85

*JWR*  
3-19-84

*RCB*  
3-19-84

DATE:

3/19/85

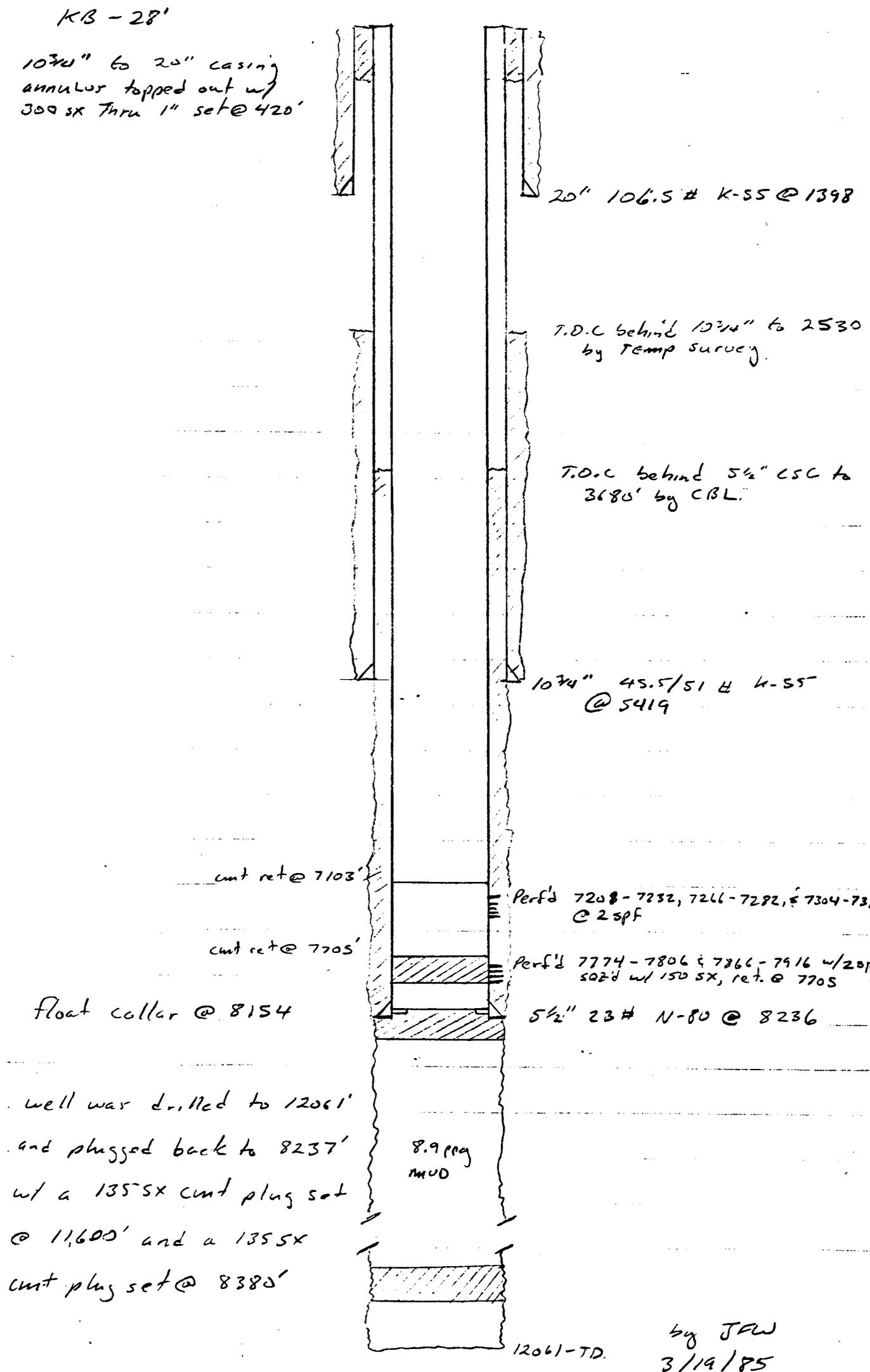
3-19-85

3-19-84

3-19-84

# Hells Federal 1-13-3C

## Well Diagram



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

5. LEASE DESIGNATION AND SERIAL NO.

U-29759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Halls Federal Unit

8. FARM OR LEASE NAME

Halls Federal

9. WELL NO.

1-13-3C

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 13-T7S-R5E

12. COUNTY OR PARISH

Utah

13. STATE

Utah

19. ELEV. CASINGHEAD

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other RECEIVED  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

MAY 17 1985

2. NAME OF OPERATOR

Gulf Oil Corporation Chevron USA

3. ADDRESS OF OPERATOR

P. O. Box 2619, Casper, WY 82602-2619

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 201' FSL & 101' FEL (SE SE)

At top prod. interval reported below

same

At total depth

same

14. PERMIT NO.

API #43-049-30014

DATE ISSUED

8-28-84

15. DATE SPUNDED

11-12-84

16. DATE T.D. REACHED

3-2-85

17. DATE COMPL. (Ready to prod.)

3-24-85

18. ELEVATIONS (OF. RES. RT. OR, ETC.)\*

7750' KB; 7722' GR

20. TOTAL DEPTH, MD & TVD

12,061' MD

21. PLUG, BACK T.D., MD & TVD

surface

22. IF MULTIPLE COMPL., HOW MANY\*

23. INTERVALS DRILLED BY

ROTARY TOOLS

0 - TD

CABLE TOOLS

24. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

DRY HOLE, P & A'd

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN CBL, Mudlog  
DIL-GR, DLL/MSFL, BHC, NGR spec, CNLD, Dipmeter, Cyberdip, Directional

27. WAS WELL CORRD.

No

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	1398.15'	26"	3136 sx	---
10 3/4"	51, 45.5	5419'	14 3/4"	5110 sx	---
5 1/2"	23	8236'	9 1/2"	2130 sx	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

SEE ATTACHED

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

SEE ATTACHED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
	DRY HOLE, P & A'd	DHA					
DATE OF TEST	HOURS TESTED	CHOKER 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 (CORE)	

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

TEST WITNESSED BY

Lewis

35. LIST OF ATTACHMENTS

Perforations, Acidize, Etc.

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

SIGNED

J. R. BOCEK

TITLE

Area Engineer

DATE

MAY 17 1985

# INSTRUCTIONS

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

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

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

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

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
<b>37. SUMMARY OF POROUS ZONES:</b> SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			
<b>38. GEOLOGIC MARKERS</b>			
NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Green River	surface	surface	surface
Wasatch	2,630'	2,629'	2,629'
Flagstaff	3,176'	3,175'	3,175'
North Horn	4,546'	4,544'	4,544'
Thaynes	5,240'	5,237'	5,237'
Woodside	5,722'	5,717'	5,717'
Park City	6,459'	6,453'	6,453'
Meade Peak	7,104'	7,097'	7,097'
Grandeau	7,300'	7,293'	7,293'
Diamond Creek	8,110'	8,102'	8,102'
Kirkman	10,255'	10,229'	10,229'
Oquirrh	10,680'	10,655'	10,655'
Diamond Creek (OT)	11,596'	11,566'	11,566'

CONFIDENTIAL

PERFORATIONS, ACIDIZE, ETC.

- 3/5/85 Set 135 sx cl. G cmt. plug at 11,600'.  
Set 135 sx cl. G cmt. plug at 8,380'.
- 3/11/85 Perf Park City 7,866'-7,916' and 7,774'-7,806' w/4" HSC gun, 2 JSPF.
- 3/12/85 Set cmt. retainer at 7,700'.
- 3/13/85 Cmt. squeeze perfs 7,866'-7,916' and 7,774'-7,806' w/150 sx cl. H cmt. Squeezed 79 sx into perfs, left 21 sx in csg, 2 sx on top of retainer, and reversed out 48 sx.
- 3/14/85 Perf 7,356'-7,382', 7,330'-7,356', 7,304'-7,330', 7,266'-7,282', 7,208'-7,232' w/4" HSC gun, 2 JSPF.
- 3/16/85 Acidize perfs w/20,000 gals. 28% HCL.
- 3/19/85 Set cmt. retainer at 7,103'. Pump away reserve pit into perfs.
- 3/20/85 Pump away reserve pit. Waiting on road repairs.
- 3/23/85 Cmt. squeeze perfs 7,304'-7,382', 7,266'-7,282', and 7,208'-7,232' w/150 sx cl. H cmt. Squeeze 135 sx into perfs, 11 sx in csg. below cmt retainer, 2 sx on top of retainer, and reverse out 2 sx. Spotted 30 sx cl. H cmt. plug from 5,323'-5,043'.
- 3/24/85 Spotted 35 sx cl. H cmt. plug from 253'-0'. Cut off wellhead below ground level and install dry hole marker.

The P&A procedure was verbally approved by Mr. A. Raffoul of the BLM and Mr. John Baza of the Utah Division of Oil, Gas, and Mining.

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 5/22/85  
BY: John P. Baza

CONFIDENTIAL

DRILLSTEM TESTS

DST 1, January 17, 1985

Park City Formation, 7304-7436' TD, 15/16 x 1/4" cks, 15 x 60 x 90 x 180 min.  
IO: no blow, inc. to 0.01 psi in 15 min, FF: 0.08 psi inc to 0.15 psi.  
Rec. 179' ammonia-WCM, 900' gas. Sampler rec. 1480 cc WCM, tr gas. IHP 3520,  
IFP 175/194, ISIP 298, FFP 194/213, FSIP 354, FHP 3331, BHT 148° deg. F.  
135' FW/INHIB. AMM. WC.

DST 2, February 25, 1985

Quirrrh Formation, 11,420-11,605' TD. Packer failure, misrun.

DST 3, February 26, 1985

Oquirrh Formation, 11,450-11,605' TD. 15/16" x 15/16" cks, 15 x 60 x 90 x 180 min.  
IO: 0.04 psi, FF: 0.04 psi. Rec. 100' mud, sampler rec. 2500 cc drlg. mud.  
IHP 5310, IFP 1349/1349, ISIP 1575, FFP 1361/1369, FSIP 1625, FHP 5297.  
BHT 162 deg. F. 2900' FWC.

Original Completion, March 11, 1985

Park City Formation, 7866-7916, 7774-7806 (82'). Cement 5½" casing @ 8236'.  
Tag cement plug at 8142'. Set pkr at 7666'. Perf. 7866-7916, 7774-7806 w/2  
SPF, 120° phasing. Swbd 23 runs. Rec. 81 bbls formation water. No hydrocarbons  
recovered.

Recompletion No. 1, March, 1985

Park City Formation, 7304-7382, 7266-7282, 7208-7232 (118'). Set cement  
retainer at 7705, sqzd perfs 7866-7916, 7774-7806. Perf. 7304-7382, 7266-7282,  
7208-7232 w/2 SPF, 120° phasing. Swbd 20 runs, rec. 42 bbls load, 19 bbls forma-  
tion water. Acid w/20,000 gals 28% Hcl. Swbd 121 runs. Rec. 521 bbls load water,  
1059 bbls formation water. No hydrocarbons recovered.

SIDEWALL CORES

6478	No recovery
6954	Sh, dk gry, blk, micaceous, calc, H <sub>2</sub> S odor when acid added, v sli stringy, pale blue cut
7116	Calc sh, dk gry, blk, fissil, sli sdy
7124	Calc sh, dk gry, blk, fissil, calcite frags
7132	No recovery
7190	Sh, blk, sli sdy, sli silty, firm, v faint yellow fluor
7212	No recovery
7214	Ss, dk gry, vfg, calc, hd
7216	No recovery
7224	No recovery
7227	No recovery
7272	No recovery
7306	No recovery
7310	No recovery
7332	No recovery
7341	No recovery
7371	Ss, med-lt gry, brn, vf-fg, calc, argil, silic, i.p., Ca frags, clr, wt, sr-r
7392	No recovery
7604	No recovery
7659	No recovery
7781	No recovery
7782	No recovery
7783	No recovery
7788	No recovery
7870	No recovery
7874	No recovery
7878	No recovery
7908	No recovery
7911	No recovery
7990	No recovery

CONFIDENTIAL

TABLE II

PRODUCTION TEST DATA

Hall's Federal 1-13-3C

	<u>Formation</u>	<u>Intervals Perforated</u>	<u>Acid Treatment</u>	<u>Fluids Produced</u>	<u>Comments</u>
Zone 1 Initial Completion	Park City	7866-7916 7774-7806	none	81 bbls formation water	Formation water contained sulphur. No shows.
Zone 2	Park City	7304-7382 7266-7282 7208-7232	20,000 gal 28% HCl	1059 bbls formation water	No shows.

Recompletion No. 1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

BLM Form No. 1004-0135  
Expires August 31, 1985

**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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <b>Dry Hole</b>		7. UNIT AGREEMENT NAME <b>Halls Federal Unit</b>
2. NAME OF OPERATOR <b>Chevron U.S.A. Inc.</b>		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR <b>P. O. Box 599, Denver, CO 80201</b>		9. WELL NO. <b>1-13-3C</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) <b>At surface</b>		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>
14. PERMIT NO. <b>43-049-30014</b>		11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA <b>Sec. 13, T7S, R5E</b>
15. ELEVATIONS (Show whether DF, ET, GR, etc.) <b>D.F. 7746.5'</b>		12. COUNTY OR PARISH <b>Utah</b>
		13. STATE <b>Utah</b>

RECEIVED  
NOV 27 1985

DIVISION OF  
OIL, GAS & MINING

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) <u>Rehabilitation of Well site</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.)\*

The wellsite has been rehabilitated and reseeded and may be inspected at your convenience. The water well has been sealed by a metal plate welded at the top to protect from vandalism. Additional blacktopping of the U.S.F.S. road will be accomplished in the summer of 1986.

3-BLM  
3-STATE  
3-GHW  
1-PMK  
1-LLK

18. I hereby certify that the foregoing is true and correct  
 SIGNED L. J. Mulpatrick TITLE Environmental Engineering Specialist DATE November 22, 1985

(This space for Federal or State office use)  
 APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side



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

February 14, 1986

Gulf Oil Corporation  
P.O. Box 2619  
Casper, Wyoming 82602

Gentlemen:

Re: Halls Federal #1-13-3C Well - Sec. 13, T. 7S, R. 5E  
Utah County, Utah - API 43-049-30014

A review of our records indicates that a copy of the mud log, which was prepared for the referenced well, was not submitted with the May 10, 1985 completion report as required by Rule 312 of the Oil and Gas Conservation General Rules.

Please provide a copy of the mud log at your earliest convenience, but not later than February 28, 1986.

Respectfully,

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

Norman C. Stout  
Administrative Assistant

ts

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File

0356/5