

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

5. Lease Designation and Serial No.

Fee

6. If Indian, Allottee or Tribe Name

NA

7. Unit Agreement Name

Christmas Creek II

8. Farm or Lease Name

Christmas Creek

9. Well No.

35-2

10. Field and Pool, or Wildcat

Wildcat

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

Section 35, T2N, R10E

12. County or Parrish 13. State

Summit, Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Sohio Petroleum Company

3. Address of Operator

P. O. Box 30, Casper, Wyoming

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

At surface
2341' FEL, 1480' FSL, Section 26, T2N, R10E

At proposed prod. zone

1280' FNL, 2000' FEL, Section 35

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

36 miles south of Evanston, Wyoming

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

1280' to lease

16. No. of acres in lease

1280

17. No. of acres assigned to this well

Unspaced

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

± 1700'

19. Proposed depth

7400' M.D.

20. Rotary or cable tools

Rotary

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

8912.5' GR

22. Approx. date work will start*

8/10/85

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17 1/2	13-3/8	48	336'	*
12 1/4	7	23 or 26	7400'	750 sx to ± 5400'

* 13-3/8" csg. has already been set and cemented back to surface from drilling operation for Christmas Creek 26-15.

Attachments:

- 1) Drilling Plan
- 2) Surveyors Plat
- 3) BOPE diagrams (2)

Utah Statewide Bond 00683449-1-184 is in force.

This well will be directionally drilled from the pad used to drill Christmas Creek 26-15 (plugged 11/8/84). As operator of Christmas Creek II Unit Sohio Petroleum Company controls the leases within 500' of target zones.

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

24. Signed W. H. Ward Title District Manager Date 7/17/85

(This space for Federal or State office use)

Permit No. _____ Approval Date _____

Approved by _____ Title _____

Conditions of approval, if any:

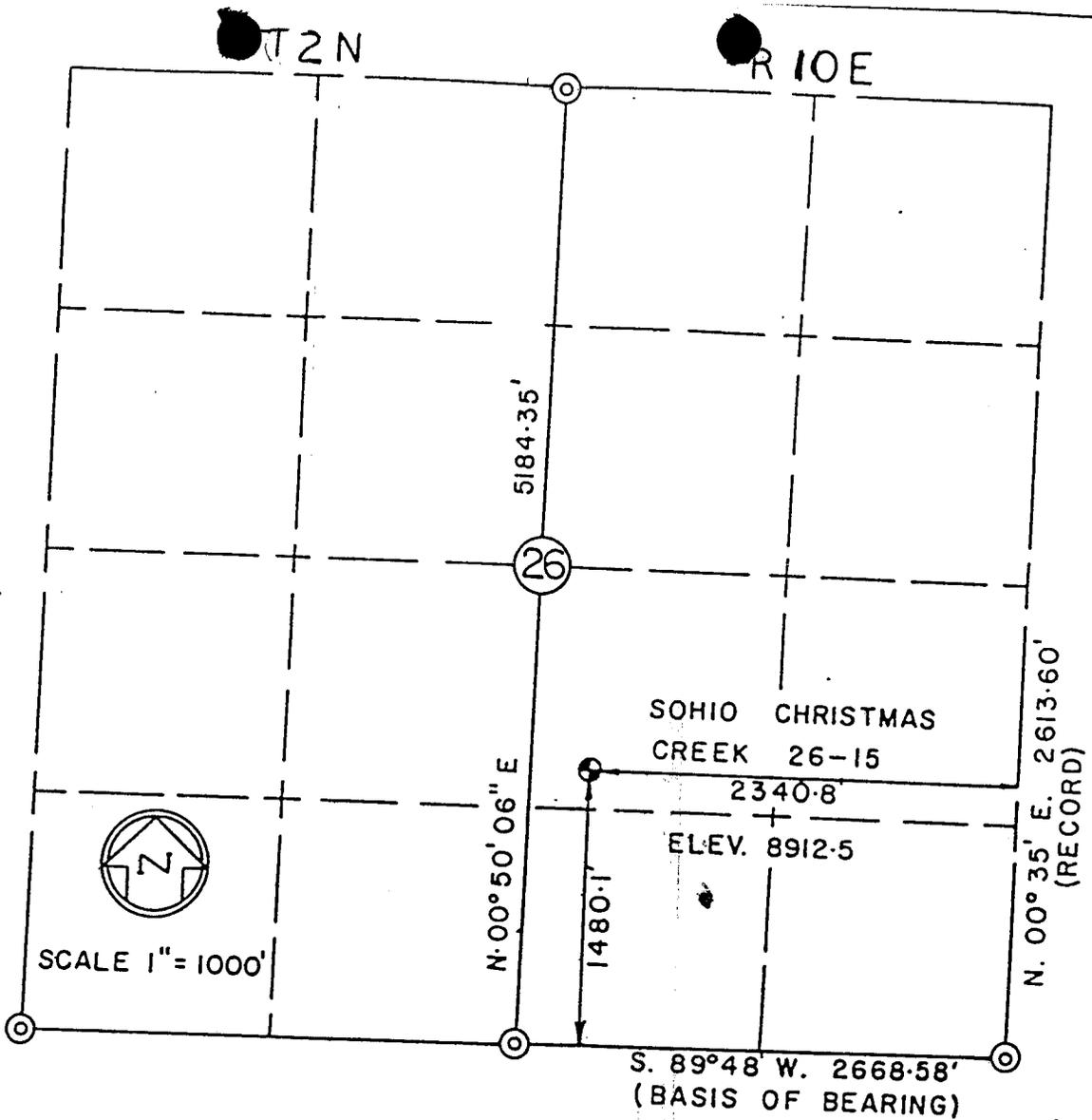
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 7/31/85
BY: John R. Bora

WELL SPACING: Unit Well A-3

*See Instructions On Reverse Side

0 + 1: DOGM
cc: JHW
TR, Partners, File
BLM, SLC



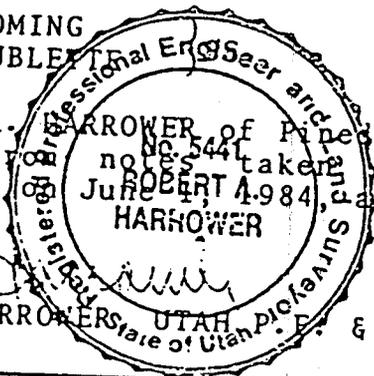
⊙ INDICATES G-L-O BRASS CAP FOUND

SOHIO CHRISTMAS CREEK 26-15 is located in the NW/4SE/4 of Section 26, Township 2 North, Range 10 East of the Salt Lake Meridian, Summit County, Utah. The elevation of 8912.5 is based on a spot elevation of 8810 at the road intersection near the N/4 corner of Section 26, Township 2 North, Range 10 East as shown on the U.S.G.S. Christmas Meadows Quad.

CERTIFICATE OF SURVEYOR

STATE OF WYOMING
COUNTY OF SUBLETTE

I, ROBERT A. HARNOWER of Pinedale, Wyoming, hereby certify that this map was made from notes taken during an actual survey made under my supervision of June 1984, and that it correctly represents the survey as shown.



Robert A. Harnower
ROBERT A. HARNOWER, P.E. & L.S. 5441

RIO VERDE
Engineers - Surveyors
Environmental Planners
PINEDALE WYOMING



SOHIO PETROLEUM COMPANY
CHRISTMAS CREEK 26-15
NW/4SE/4 of Sec. 26, T. 2 N., R. 10 E.
SUMMIT COUNTY, UTAH -- WASATCH NATIONAL FOREST
LOCATION PLAT

REVISION	DATE
	7/02/84
	J.O. 1102
	SHEET
	1 of 2

CONFIDENTIAL

Attachment # 1
Drilling Program
Sohio Petroleum Company
Christmas Creek 35-2

1280' FNL, 2000' FEL
Section 35, T2N, R10E
Summit County, Utah

1) Geology: Surface Markers and Possible Contents

	MD	TVD	
Tertiary Alluvium	0	0	
Eroded Thaynes	5050	4800	
Thaynes B	5470	5140	Oil
Woodside	5700	5360	
Dinwoody	6400	5900	
Phosphoria	6550	6040	Oil
Weber	7100	6535	
T.D.	7400	6840	

2) Proposed Casing Program

SF Tension 1.6/1.3
Collapse 1.125
Burst 1.25

<u>Hole</u>	<u>Depth</u>	<u>O.D.</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>New/Used</u>
17-1/2"	0-336	13-3/8"	48 #	H-40	ST&C	New
12-1/4"	336-7400	7"	23#/26#	L-80	LT&C	New

NOTE: - 13-3/8" casing has already been set and cemented back to the surface. Approximately 25° will be needed to reach objective formation from surface location. Kick off point ± 500'.

Conductor Casing - 20" conductor has been set at 30' G.L. and cemented back to surface.

Proposed Cement Program:

Volumes and additives will change subject to conditions encountered during drilling operations.

Production Casing - 5400 - 7400
750 sx class G + Additives

3) Pressure Control Equipment - See Attachments 2A and 2B
After NU BOP's:

1. Ram type preventers shall be tested to 5000 W.P.
2. Annulus preventers shall be tested to 3000 psi.

Pressure Control Equipment - (Cont'd)

Pipe rams shall be operated every 24 hours. The blind rams shall be operated after each trip.

Blowout prevention drills shall be held by each crew at least every week and the drills must be posted in the tour reports.

Stack will be fully tested after any use under pressure or if it is broken down at any time. Tests to the above pressure are to be conducted every 30 days.

The accumulator system will be 3000 psi working pressure with a minimum of 120 gallons with remote controls on the rig floor and manual controls at the unit.

4) Type and Characteristics of Circulating Muds:

<u>Depth</u>	<u>Type</u>	<u>Wt.</u>	<u>Vis.</u>	<u>W.L.</u>
336-7400	Low Weight Lightly dispered	8.4-9.0	30-45	±/-10cc

An adequate supply of sorptive materials will be on hand in the event of unanticipated downhole problems. Weight additives will be on location as required.

5) Auxillary Equipment

Kelly cock, stabbing valve and pit level monitor from surface to total depth. A mud logger with gas detection will be on location from below 366' to total depth.

6) Testing, Coring and Logging Program:

A) Drill Stem Tests:

DST's will be run per conditions encountered while drilling the well. Potential tests are anticipated in the Thaynes and Phosphoria

B) Cores:

Cores will be run per conditions encountered while drilling the well. Potential cores are anticipated in either the Thaynes or Phosphoria.

Drilling Program - Christmas Creek 35-2
July 17, 1985
Page -3-

C) Testing, Coring and Logging

336 to 7400' DLL/Sonic
 DLL/MSFL
 LDT/CNL/NGT
 Sonic
 Dipmeter
 VSP

D) Stimulation and completion procedures will be determined after evaluation of the drilling and testing information. Once determined, they will be submitted via a Sundry Notice for approval.

7) Anticipated Abnormal Conditions

No abnormal pressures or temperatures are expected. H₂S gas is possible, therefore, an H₂S contingency plan is being developed and will be submitted upon its completion.

8) The anticipated spud date is August 10, 1985. Operations should last 55 days.

BLOWOUT PREVENTION STACK

TO BE USED ON
13-3/8" to T.D.

ROTATING HEAD
OPTIONAL.

ANNULAR PREVENTER
13-5/8" x 3000#
H₂S Trim

BLIND RAMS
13-5/8" x 5000#
H₂S Trim

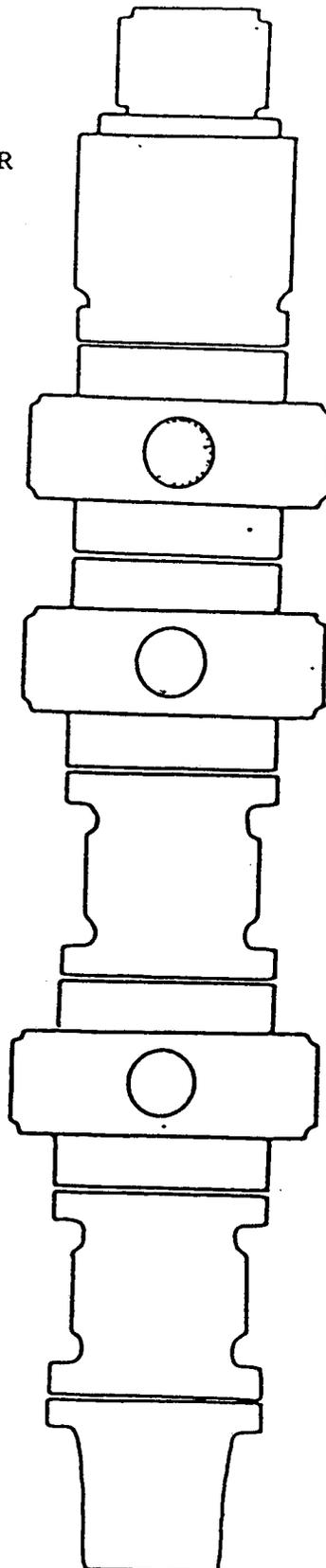
PIPE RAMS
13-5/8" x 5000#
H₂S Trim

DRILLING SPOOL
13-5/8" x 5000#
w/5000# Outlets
H₂S Trim

PIPE RAMS
13-5/8" x 5000#
H₂S Trim

DRILLING SPOOL
(OPTIONAL)

WELLHEAD



CASING SPOOL TO BE USED
INTERMEDIATE STRING
OF CASING IS SET.

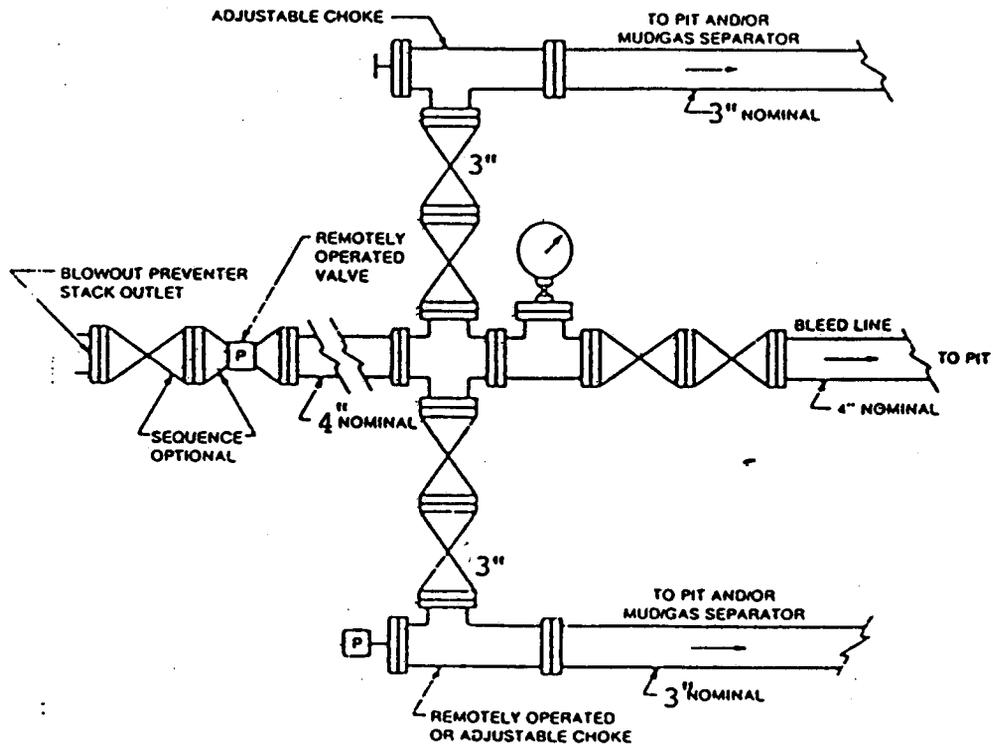
NOTE: ALL CONNECTIONS FLANGE TYPE;
H₂S TRIM

SOHIO PETROLEUM COMPANY
CHRISTMAS CREEK 35-2
SUMMIT COUNTY, UTAH



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602



Typical choke manifold assembly for 5M rated working pressure service

CHRISTMAS CREEK 35-2
SUMMIT COUNTY, UTAH

OPERATOR Ohio Petroleum DATE 7-26-85

WELL NAME Christmas Creek # Unit 35-2
SURFACE 26
SE (BHL) NW 35 T 2N R 10E COUNTY Summit

43-043-30276
API NUMBER

Free
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Unit well - P.O.D not needed (Jensen, BLM)
Need water permit

APPROVAL LETTER:

SPACING:

A-3

Christmas Creek #
UNIT

c-3-a

CAUSE NO. & DATE

c-3-b

c-3-c

STIPULATIONS:

1- Water

2- ~~The~~ plan ~~for~~ copy of An H₂S contingency
plan shall be submitted to the Division and
approved prior to spudding the well.



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

July 31, 1985

Sohio Petroleum Company
P. O. Box 30
Casper, Wyoming

Gentlemen:

Re: Well No. Christmas Creek II Unit 35-2 - (Surf.) NW SE Sec. 26;
(BHL) NW NE Sec. 35, T. 2N, R. 10E - Summit County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.
2. An H₂S contingency program shall be submitted to the Division and approved prior to spudding the well.

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

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2

Sohio Petroleum Company

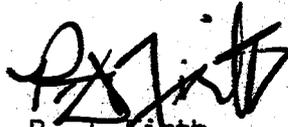
Well No. Christmas Creek II Unit 35-2

July 31, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-043-30276.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as

Enclosures

cc: Branch of Fluid Minerals



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

RECEIVED

August 5, 1985
WHW: 18
ID: 0635C

AUG 07 1985

DIVISION OF OIL
GAS & MINING

State of Utah
Natural Resources
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: H₂S Contingency Plan
Christmas Creek 35-2
Sec. 35, T2N, R10E
Summit County, Utah

Gentlemen:

Pursuant to your letter of July 31, enclosed is an H₂S
Contingency Program for our Christmas Creek 35-2 well which is
to be approved prior to our spudding this well.

Sincerely,

W.H. Ward
District Manager

jc

cc: T. Rooney
File

OILFIELD SAFETY INC.

CONTINGENCY PLAN

This Contingency Plan was written
specifically for:

SOHIO PETROLEUM COMPANY

P.O. BOX 30

CASPER, WYOMING 82602

SAFETY PROGRAM AND EMERGENCY EVACUATION PLAN

CHRISTMAS CREEK #35-2
LOCATION C

SECTION 26 TOWNSHIP 2N RANGE 10E

2341' FEL 1480' FSL

SUMMIT COUNTY, UTAH

RECEIVED

AUG 07 1985

DIVISION OF OIL
GAS & MINING

O.S.I. P.O. BOX 670 WILLISTON, NORTH DAKOTA 58801 (701) 774-3014

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THIS PLAN IS SUBJECT TO UPDATING

PURPOSE OF PROGRAM

It is Sohio Petroleum Company's policy in all operations where high pressure and toxic gases may be encountered to do everything reasonably possible to ensure the safety of its employees or anyone on the job site. This brochure has been prepared to outline the operational procedures to be followed in order to provide the maximum safety and comfort for all persons near the operation.

Hydrogen Sulfide is extremely hazardous to normal oil field operations due to its capability (1) destroying life at very low concentrations and (2) of causing instantaneous failure of high-strength metals. Drilling and producing operations of hydrocarbons containing toxic gases can, however, be performed safely and without incident when the necessary precautions are taken and the outlined safety procedures are followed. It is imperative that sulfide resistant materials be used, that the proper safety equipment be used, that this equipment be properly maintained, and that all safety regulations be complied with.

The procedures outlined are for your safety and the safety of all others; therefore, it is mandatory that each individual give his one hundred per cent cooperation.

RESPONSIBILITIES AND DUTIES

ALL PERSONNEL

1. It is the responsibility of all personnel on location to familiarize themselves with the safety procedures.
2. All personnel will attend to their personal safety first.
3. Help anyone who may be injured or overcome by toxic gases. The Drilling Supervisor will assign someone to administer first aid to unconscious person (s).
4. Report to the designated "SAFE BRIEFING AREA" and follow the instructions of the Drilling Supervisor.

DRILLING SUPERVISOR

1. It is the responsibility of the Drilling Supervisor to see that these safety and emergency procedures are observed by all personnel on location.
2. The Drilling Supervisor will advise Oilfield Safety Inc. whenever the procedures as specified herein are complied with or cannot be followed.
3. The Drilling Supervisor will notify the Safety Advisor at least two weeks before the safety equipment specified herein is needed.
4. The Drilling Supervisor will keep the number of personnel on location to a minimum during hazardous operations.
5. The Drilling Supervisor is responsible for designating the "SAFE BRIEFING AREA". This area will change depending upon wind direction and must be redesignated as soon as a wind change occurs.
6. If an unexpected emergency occurs or the H₂S alarm sounds, the Drilling Supervisor will assess the situation and will advise all personnel what condition exists.
7. When it is necessary to secure the location, the access road to location will be blocked, personnel from the rig crew will be used to guard same.

TEMPORARY SERVICE PERSONNEL

All service personnel, such as cementing crews, logging crews, specialists, mechanics, and welders will furnish their own safety equipment as required to comply with OSHA and Sohio Petroleum Company's DRILLING FOREMAN.

VISITORS

1. VISITORS will be restricted, unless accompanied by the SOHIO PETROLEUM COMPANY'S DRILLING FOREMAN when Hydrogen Sulfide might be encountered.
2. VISITORS and non-essential personnel will be prohibited from remaining in or entering contaminated areas where the Hydrogen Sulfide concentration in the atmosphere exceeds 20 ppm.

NOTE: WHEN HYDROGEN SULFIDE MIGHT BE ENCOUNTERED NO PERSONNEL ON LOCATION WILL BE PERMITTED TO SLEEP IN VEHICLES.

DIRECTIONS TO CHRISTMAS CREEK #35-2 LOCATION C

Proceed south from Evanston, Wyoming city limits on Highway #150 approximately 30 miles to East Fork Road. (Approximately .5 mile past Bear River Station and Cafe.)

Turn left and go approximately 2 miles.

Turn right (at Bear River Boy Scout Camp sign) and go 3 miles.

Turn left and go approximately 1 mile on road into location.

NORTH

R.8.E. 111° 00' R.9.E. R.10.E. 110° 45' R.11.E. R.12.E. 110° 30' R.13.E.

T.3 N.

T.2 N.

T.1 N.

40 45' T.1

T.2 S.

T.3 S.

40 30' T.4 S.

T.1 N.

WASATCH

NATIONAL

HIGH

UINTAS

PRIMITIVE

AREA

UINTA AND Q

EVANSTON ^{APPX} 22+ MILLS _{Hol}

ELIZABETH MTN

MILL CREEK

DEADMAN MTN

EAST PK BLACKS PK G.S.

NEWNTA G.S.

MOFFIT PASS

TOKEWANNA PK

RED KNOB PK

WILSON PK

HAYDEN PK 12475

DEAD HORSE PASS

MOUNT LOVENIA 13229

MOUNT WATSON

NOTCH MTN 11155

MIRROR LAKE

ROSAIE LAKE

PHINNEY LAKE

CLAYTON LAKE

SPIDER LAKE

TRIAL LAKE

MOUNT WATSON

MIRROR LAKE

BLACK LAKE

PHINNEY LAKE

CLAYTON LAKE

SPIDER LAKE

TRIAL LAKE

MOUNT WATSON

MIRROR LAKE

BLACK LAKE

PHINNEY LAKE

CLAYTON LAKE

SPIDER LAKE

SOAPSTONE MTN

IRON MINE MTN

WEST GRANDDADDY MTN

EAST GRANDDADDY MTN 12265

ROCK CREEK RESORT

MOON LAKE

LAKE FORK

SOAPSTONE MTN

IRON MINE MTN

WEST GRANDDADDY MTN

EAST GRANDDADDY MTN 12265

ROCK CREEK RESORT

MOON LAKE

LAKE FORK

SOAPSTONE MTN

IRON MINE MTN

WEST GRANDDADDY MTN

EAST GRANDDADDY MTN 12265

ROCK CREEK RESORT

MOON LAKE

LAKE FORK

NATIONAL

-5- FIGURE NO 1

THE DRILL SITE

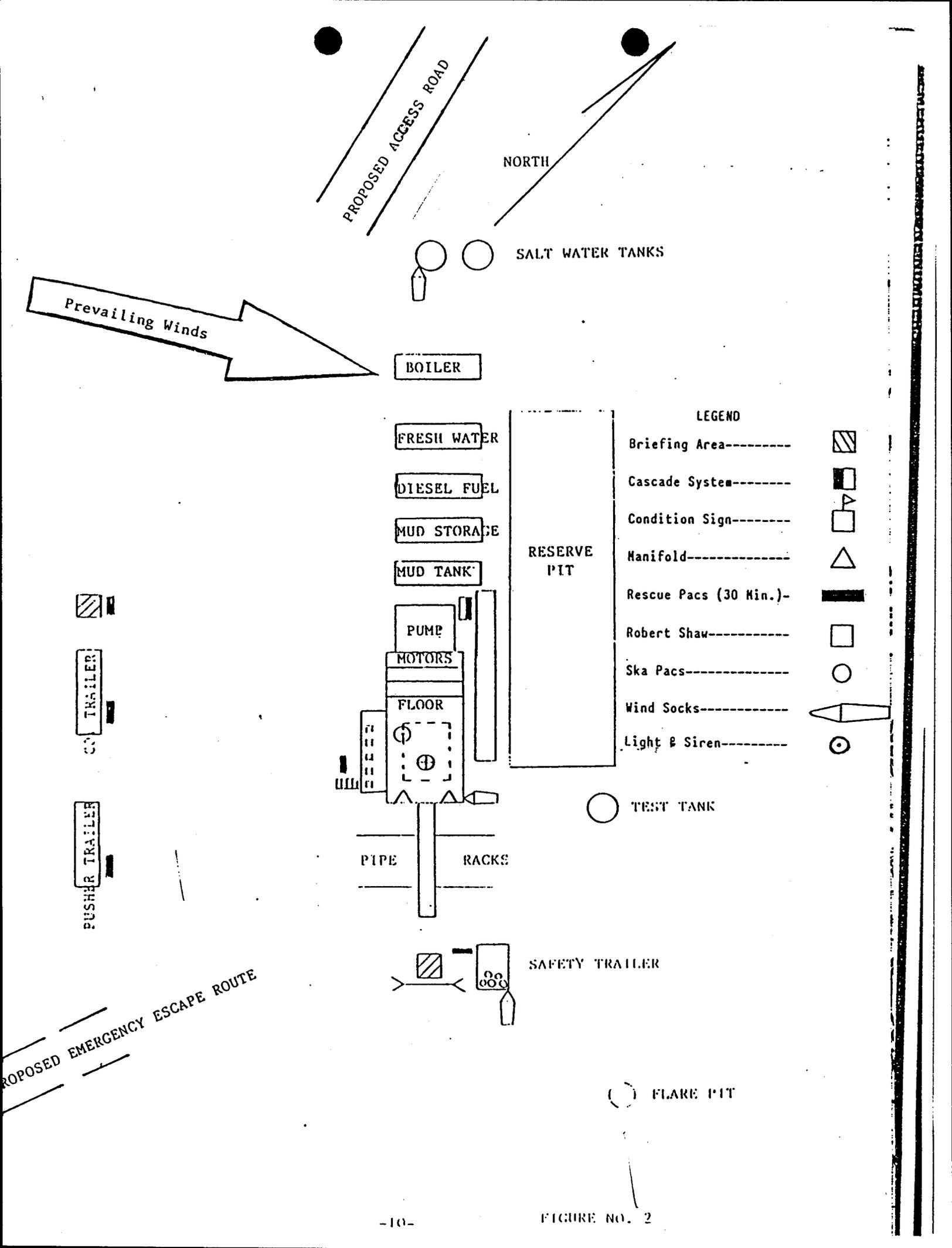
The location as shown in Figure 2 is planned in order to obtain the maximum safety benefits consistent with the rig configuration, well depth, and prevailing winds.

1. Through the use of several maps, the area within a two-mile radius of the location has been surveyed and contacts with all permanent residents have been made. Except in a dead calm and a tremendous release of high concentration gases, the probability of lethal dosages beyond one mile is extremely unlikely. Note on the rig layout plat, Figure 2, the direction of prevailing winds.
2. The location of houses, schools, roads, and anything where people may be present and who might need to be warned or evacuated in a crisis have been surveyed. This information with names and telephone numbers are keyed and listed on page 11 and Figure 3 for use if evacuation might be necessary should an emergency develop.
3. The drilling rig, see Figure 2, will be situated on such a location that prevailing winds blow across the rig toward the flare pit.
4. Two (2) SAFETY BRIEFING AREAS will be established not less than 200 feet from the wellhead and in locations so that at least one area will be up-wind of the well at all times.
5. Protective equipment will be stored in a safety trailer located at one of the BRIEFING AREAS. Such equipment will include air packs and masks, first aid kits, eye wash station, stretchers, hydrogen sulfide hand operated detectors and resuscitators. In the event of an emergency, personnel should assemble at the up-wind BRIEFING AREA for instructions from their supervisor.

6. Wind socks or streamers will be utilized to give wind directions at several elevations; i.e., tree top, derrick floor level, and 6 to 8 feet above ground level. PERSONNEL SHOULD DEVELOP THE PRACTICE OF ROUTINE OBSERVATION OF WIND DIRECTION.
7. All windbreakers and rig curtains will be removed from around the derrick floor and monkey board, whenever H₂S is encountered.
8. Explosion proof ventilating fans (bug blowers) will be positioned to ensure adequate circulation at the monkey board, derrick floor, cellar area, shale shaker, and any other location where hydrogen sulfide might accumulate and need to be dissipated.
9. A kill line of ample strength and securely staked will be laid to the wellhead from a safe location to permit pumping into the well in an emergency.
10. When approaching a depth where Hydrogen Sulfide may be encountered, the MUD WILL BE MAINTAINED IN AN OVERBALANCED CONDITION TO PRECLUDE THE ENTRY OF FORMATION FLUIDS INTO THE WELLBORE and thereby restrict the Hydrogen Sulfide to be treated to that contained in the formation drilled.
11. When approaching a depth where Hydrogen Sulfide may be encountered, appropriate warning signs will be posted on all access roads to the location and at the foot of all stairways to the derrick floor.
12. Reliable 24-hour radio and telephone communication will be available at the rig. Emergency telephone numbers will be prominently posted: Sheriff's Department, Ambulance, Hospitals, Doctors, and Operators' Supervisory Personnel.

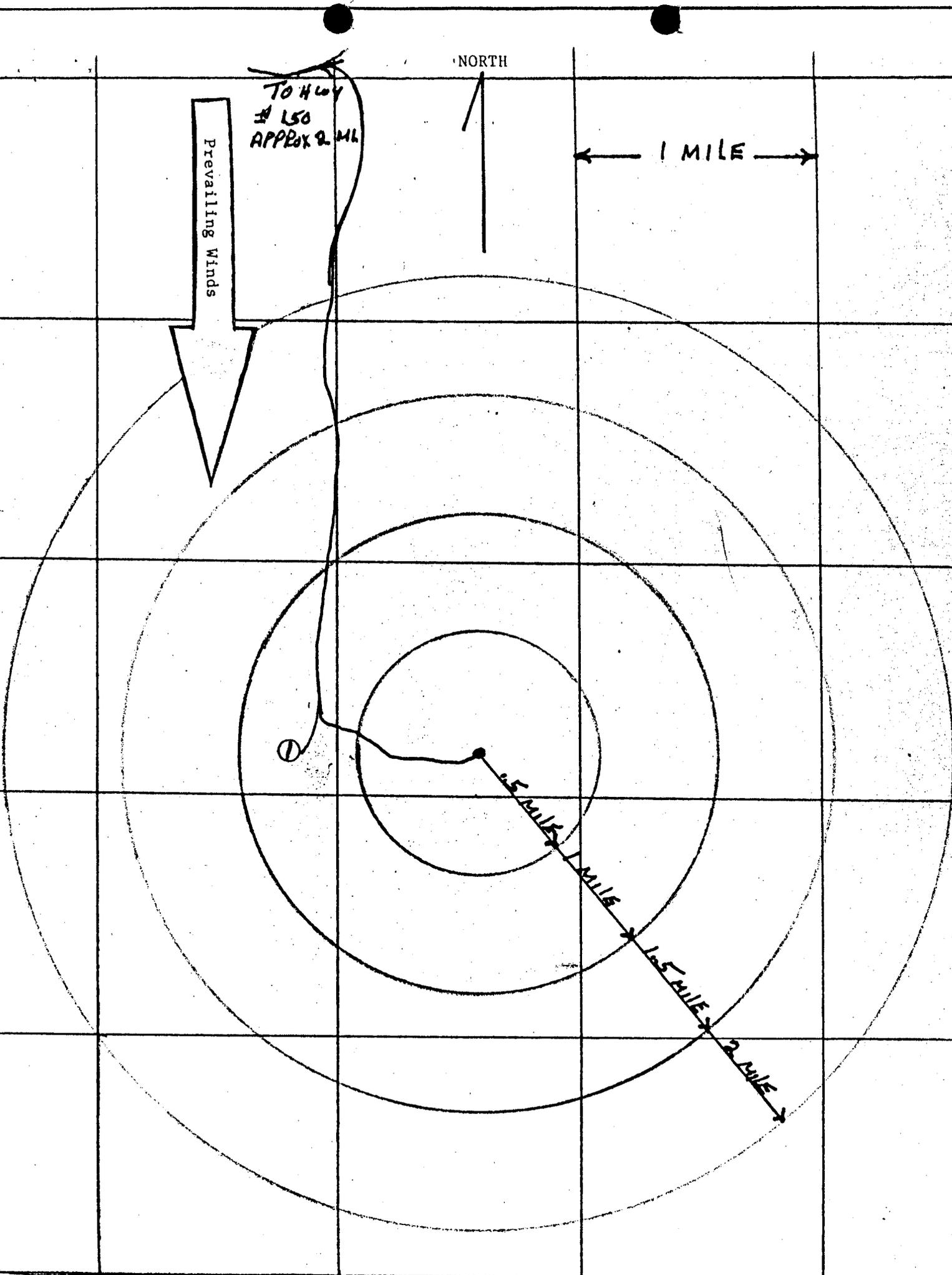
13. Filter-type gas masks are not suitable for use on drilling rigs. Pressure demand, airpack type masks will be provided for use in any Hydrogen Sulfide concentration. The pressure demand, airpack types have alarms that signal when the air supply is getting low. They are easily and quickly serviced with replacement bottles. They are not physically exhausting to use, are rugged and dependable, and require little maintenance.
14. Masks will be stored on racks and protected from the weather. Rig crew equipment will be located at readily accessible location on the rig floor. Sufficient masks will be stored in safety sheds for every person working in the area. For hygienic reasons, masks are to be washed and sterilized at regular intervals. Employees working derricks will be equipped with a connection through a quick-disconnect from his system of breathing air so that if he must evacuate the derrick, he will have a full air bottle with his mask. An eight outlet air supply manifold will be installed on the rig floor for continuous use by crews and supervisory personnel working in a "masks-on" situation. The multi-bottle supply cylinder is to be located at approximately 200 ft. from the well. A minimum of 3,600 cu. ft. compressed breathing air will be on location at all times.
15. An alarm system which can be heard during operations and which can be activated from several points if gas is detected will be installed. When the alarm is sounded, personnel must put on masks or move to the BRIEFING AREA designated as safe.
16. There will be No Smoking on rig floor or near Wellhead. Designated Smoking Areas will be provided by your Supervisor.
17. Safety meetings and training sessions will be held at frequent intervals by the Safety Advisor, the Drilling Supervisor, or the Rig Supervisor. All persons required to work on location will be thoroughly familiar with the use, care and servicing of the following: Personal protective equipment, resuscitation equipment, and gas detection equipment. New employees and

- those who are present on sporadic basis (i.e. geologists, engineers, service personnel, etc.) will be indoctrinated in the location and use of personal equipment before commencing work.
18. All electric lighting, wiring and electrical devices within 100 feet of the well will be put in vapor-proof condition to minimize the possibility of explosion.
 19. Blowout preventers, particularly the ram carrier rods, will be dressed with sour gas trimmed for hydrogen sulfide service. Choke manifolds will be of similar materials.
 20. Inspection of installation, operation, and testing of blowout preventers, choke manifolds, etc., dressed for Hydrogen Sulfide services, will be conducted regularly.
 21. An accurate bottom hole location by use of multishot or single shot directional surveys will be maintained so that the well can be intercepted if it becomes necessary.
 22. Every person involved in the operation will be informed of the characteristics of Hydrogen Sulfide and its dangers, safe procedures to use when it is encountered, and recommended first aid procedures. This will be done through frequent safety talks and training sessions.
 23. Personnel with punctured ear drums shall not be permitted to work in an H₂S atmosphere.



RESIDENTS WITHIN TWO MILE RADIUS OF CHRISTMAS CREEK #35-2 LOCATION C

<u>MAP REFERENCE NUMBER</u>	<u>NAME OF RESIDENT</u>	<u>NUMBER OF PERSONS</u>	<u>TELEPHONE NUMBER</u>
1	Boy Scout Camp	Contact Bear River Ranger Station	801-642-6662



NAMES AND DUTIES OF PERSON WITH PRIME RESPONSIBILITIES

A. SOHIO PETROLEUM COMPANY

P. O. Box 30
Casper, Wyoming 82602

W. H. Ward

District Manager

Business Phone
Home Phone

(307) 237-3861
(307) 266-6387

R. "Dick" Vassar

District Drilling Superintendent

Business Phone
Home Phone

(307) 237-3861
(307) 266-4776

Floyd Hoffer

District Production Superintendent

Business Phone
Home Phone

(307) 237-3861
(307) 234-9465

B. DRILLING CONTRACTOR

Unknown at this time

C. OILFIELD SAFETY INC.

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EMERGENCY NOTIFICATION
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EVANSTON, WYOMING

SHERIFF.....(Will Dispatch).....(307) 789-2331
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FIRE..... 911 or(307) 789-2331
POLICE.....(307) 789-9690

COALVILLE, UTAH

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AMBULANCE.....(801) 336-5561
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AIR AMBULANCE.....(Dispatched)...Salt Lake City.....

EVANSTON RANGER DISTRICT

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EMERGENCY NOTIFICATION

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PHYSICAL AND CHEMICAL PROPERTIES
OF HYDROGEN SULFIDE H₂S

1. Extremely toxic (almost as toxic as Hydrogen Cyanide and 5 to 6 times toxic as Carbon Monoxide).
2. Colorless.
3. Offensive odor, often described as that of rotten eggs.
4. Heavier than air - specific gravity 1.189 (Air = 1.000 @ 60 F.).
Vapors may travel considerable distance to a source of ignition and flash back.
5. Forms an explosive mixture with a concentration between 4.3 and 46 percent by volume with auto-ignition occurring at 500 F.
6. Burns with a blue flame and produces Sulfur Dioxide (SO₂), which is less toxic than Hydrogen Sulfide but very irritating to eyes and lungs and causes serious injury.
7. Soluble in both water and liquid hydrocarbons.
8. Produces irritation to eyes, throat and respiratory system.
9. Threshold Limit Value (TLV) - Maximum of eight hours exposure.
10. Corrosive to all electrochemical series metals.
11. Boiling Point (-79 F).
12. Melting Point (-177 F).

PHYSICAL EFFECTS OF HYDROGEN SULFIDE POISONING

THE PRINCIPAL HAZARD IS DEATH BY INHALATION. When the amount of gas absorbed into the blood stream exceeds that which is readily oxidized, systemic poisoning results, with a general action on the nervous system. Labored respiration occurs shortly, and respiratory paralysis may follow immediately at concentrations of 700 ppm and above. This condition may be reached almost without warning as the originally detected odor of Hydrogen Sulfide may have disappeared due to olfactory paralysis. Death then occurs from asphyxiation unless the exposed person is removed immediately to fresh air and breathing stimulated by artificial respiration. Other levels of exposure may cause the following symptoms individually or in combinations:

- a. Headache
- b. Dizziness
- c. Excitement
- d. Nausea or gastro-intestinal disturbances
- e. Dryness and sensation of pain in nose,
throat and chest
- f. Coughing
- g. Drowsiness

All personnel should be alerted to the fact that detection of Hydrogen Sulfide solely by smell is highly dangerous as the sense of smell is rapidly paralyzed by the gas.

TREATMENT FOR HYDROGEN SULFIDE POISONING

INHALATION

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

CONTACT WITH EYES

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

CONTACT WITH SKIN

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

EFFECTS OF HYDROGEN SULFIDE ON METAL

Hydrogen Sulfide dissolves in water to form a weak acid that can cause some pitting, particularly in the presence of oxygen and/or carbon dioxide. However, the most significant action of H_2S is its contribution to a form of hydrogen embrittlement known as sulfide stress cracking. Sulfide stress cracking is a result of metals being subjected to high stress levels in a corrosive environment where H_2S is present. The metal will often fail catastrophically in a brittle manner. Sulfide stress cracking of steel is dependent upon and determined by:

- a. Strength (hardness) of the steel - the higher the strength, the greater the susceptibility to sulfide stress cracking. Steels having yield strengths up to 95,000 psi and hardness up to Rc22 are generally resistant to sulfide stress cracking. These limitations can be extended slightly higher for properly quenched and tempered materials.
- b. Total member stress (load) - the higher the stress level (load) the greater the susceptibility to sulfide stress cracking.
- c. Corrosive environment - corrosive reactions, acids, bacterial action, thermal degradation, or low pH fluid environment.

DRILL STEM TEST

1. DRILL STEM TESTING of Hydrogen Sulfide zones will be permitted only in daylight hours.
2. All non-essential personnel will be moved to "Safe Briefing Area".
3. Put on air mask before formation fluids are expected at the surface and continue "MASK ON" until flares are lighted and work areas test no more than 10 ppm Hydrogen Sulfide and the area has been declared safe.
4. If warranted, the use of Ammonia Hydroxide (26 Degree B'eaume Aqua Ammonia) for removing Hydrogen Sulfide from tubing or drill pipe after test.
5. Drill Stem Testing or Swabbing Fluids will be channeled through a separator to permit flaring of gas. Flare lines will be equipped with a continuous pilot light.

H2S SAFETY EQUIPMENT ON LOCATION

(PROVIDED BY SAFETY CONTRACTOR)

1. Safety Trailer with a cascade system of 10-300 cu. ft. bottles of compressed breathing air complete with high pressure manifolds, providing five men approximately 7 hours of breathing air.
2. Low Pressure Air Line (Approximately 1,000 feet depending on location). Equipped with quick connects.
3. Two low pressure manifolds w/5 man outlets, two on rig floor, one at suction tank near mixing hopper.
4. Six Scott Pressure Pac IIA, 30 minute Pressure demand breathing apparatus NIOSH, MESA and USGS approved.
5. Six Airline breathing apparatus c/w 7 cu. ft. egress cylinders
6. Six Emergency Escape Unit (Robert Shaw)
7. "TAC" H2S 3-Channel Monitor for multiple point continuous detection, each monitoring point is capable of activating remote audio and visual alarm system included.
8. One Bendix Gastec, portable hand operated pump type detector with low and high range H2S and SO2 detector tubes.
9. One OW2 Portable Oxygen Resuscitators
10. One 24 Unit First Aid Kit
11. One stretcher
12. One Eye Wash Station
13. Three Wind Socks with poles
14. One High Pressure Compressed Air Refill Hose
15. One H2S Condition Sign w/Flags
16. Two Briefing Area Signs
17. One Light Explosion Proof
18. One Siren Explosion Proof
19. Traffic Cones as needed.
20. One Fire Extinguisher

NOTE: MORE EQUIPMENT WILL BE ADDED IF WELL CONDITIONS REQUIRE.

IGNITING THE WELL

RESPONSIBILITY

THE DECISION TO IGNITE THE WELL IS THE RESPONSIBILITY OF THE DRILLING SUPERVISOR. In the event he is incapacitated, it becomes the responsibility of the Rig Superintendent. This decision should be made only as a last resort and in a situation where it is clear that

1. Human life and property are endangered.
2. No hope exists for controlling the blowout under prevailing conditions at the well.

Notify the Oilfield Safety Inc., office if time permits, but do not delay if human life is in danger.

Initiate first phase of evacuation plan.

INSTRUCTIONS FOR IGNITING THE WELL

1. Two people are required for the actual igniting operation. They must wear self-contained breathing units and have a safety rope attached. One man will check the atmosphere for explosive gases with the Explosimeter. The other man is responsible for igniting the well.
2. Primary method to ignite: 25 mm meterotype flare gun with range of approximately 500 ft.
3. Ignite upwind and do not approach any closer than is warranted.
4. Select the ignition site which is best for protection.
5. Select area for hasty retreat.
6. BEFORE FIRING, check regarding combustible gases.
7. Since Hydrogen Sulfide converts to Sulfur Dioxide, the area is not safe after igniting the well.
8. After igniting, continue emergency action and procedure as before.
9. All unassigned personnel will limit their actions to only those directed by the Drilling Supervisor.

REMEMBER: AFTER WELL IS IGNITED, BURNING HYDROGEN SULFIDE WILL CONVERT TO SULFUR DIOXIDE, WHICH IS ALSO HIGHLY TOXIC. DO NOT ASSUME THE AREA IS SAFE AFTER THE WELL IS IGNITED.

BLOWOUT PREVENTION EQUIPMENT

1. A kill line of ample strength and length will be laid to a safe point to allow pumping into the well in an emergency situation.
2. The closing unit should be located a safe distance from the wellbore and positioned for maximum utilization based on the prevailing wind direction.
3. BOP equipment will be tested in accordance with standard company practice.
4. All equipment will be H₂S trimmed for service in sour gas environments.

SPECIAL EQUIPMENT

1. If a MUD-GAS SEPARATOR is installed, it will be installed with one or more flare lines.
2. Flare lines should be as long as practical (150 feet minimum), securely staked.
3. An automatic Hydrogen Sulfide monitor will be installed with a combination visual and audible alarm system located where it can be seen and/or heard throughout the drilling location. This system will have the capabilities of being activated from four points, which are the rig floor, cellar, shaker, and the mixing hopper.
4. The automatic monitor should be set to trigger the drilling location visual/audible alarms when the Hydrogen Sulfide concentration in the atmosphere reaches 20 ppm. Explosion proof lights and sirens will be provided at or near the rig floor and such that all personnel will be subject to visual and audible warning.

MUD ADDITIVES
DRILLING FLUID RECOMMENDATION

MUD TYPE

An overbalanced mud should be used to drill potential pay zone with necessary additives for all stabilization.

Prior to entering zone, oxygen and Hydrogen Sulfide scavengers should be added to the mud.

Quantities of 200 sacks each, Zinc Carbonate and Ironite sponge will be stored on location, Sodium Hydroxite will be stored as needed for raising PH.

CASING GRADES ACCEPTABLE FOR H2S SERVICE

<u>CASING GRADE</u>	<u>H2S SERVICE</u>	<u>COMMENTS**</u>
H-40	YES	---
K-55	YES	---
C-75	YES	---
N-80	CONDITIONAL	ABOVE 200 °F
L-80	YES	---
MN-80	YES	---
C-90	YES	---
C-95	YES	---
S-95	NO	ABOVE 200 °F
S00-95	NO	ABOVE 200 °F
S-105	NO	ABOVE 200 °F
S00-90	YES	ABOVE 200 °F
P-110	NO	ABOVE 200 °F
S-135	NO	ABOVE 200 °F
V-150	NO	ABOVE 200 °F

* Service conditions for any H2S environment.

** Denotes usable grades above 200 °F.

DRILL PIPE GRADES FOR H2S SERVICE

<u>GRADE</u>	<u>H2S SERVICE</u>
D	YES
E	YES
X-95	YES
G-105	NO
S-135	YES
ALUMINUM	YES

EMERGENCY DRILLS

1. Hydrogen Sulfide Alarm Drills

The Safety Advisor will conduct frequent H₂S alarm drills for each crew by injecting a trace of H₂S where the detectors will give an alarm. Under these conditions all personnel on location will assemble at the "Safe Briefing Area". The Safety Advisor will need to be notified if more personnel are on location than during normal operations. A head count will be taken at this time to determine if rescue operations are indicated. A "Masks On" policy will prevail until the all clear is sounded. These drills will be implemented as frequently as required to familiarize all personnel with the "Drills".

NOTICE TO LESSEES AND OPERATORS OF
FEDERAL AND INDIAN ONSHORE OIL AND GAS LEASES

(NTL-10)

HYDROGEN SULFIDE OPERATIONS

This notice is issued pursuant to the authority prescribed in 30 CFR 221.5, 221.9, and 221.18. Lessees and operators of onshore Federal and Indian (except Osage) oil and gas leases, or of fee and State oil and gas leases committed to federally supervised cooperative agreements concerned with oil and gas operations, shall comply with the following requirements for conducting operations involving sour oil or gas. In general, any applications hereunder shall be filed with the same office to which Applications for Permit to Drill or Sundry Notices are filed. The requirements of this Notice will be administered by, and approvals obtained from, the Oil and Gas District Engineers, except in Alaska where administration will be handled by the Area Oil and Gas Supervisor.

This Notice will be effective whenever drilling, workover, producing, injection, gathering, transportation, storage, and processing of hydrocarbons related to field operations may reasonably be expected to cause concentrations of hydrogen sulfide (H_2S) gas to escape in quantities which could be harmful to life. Each application to conduct such operations must fully describe the manner in which requirements of this Notice will be implemented. Existing facilities not meeting the requirements of this Notice must be brought up to conformance standards within 6 months of the effective date of this Notice.

The requirements relating to drilling operations are applicable in areas where problems with H_2S are known to exist or are expected, or in wildcat areas where such conditions cannot be anticipated. It is not the intent of this Notice to invoke the requirements in areas where small quantities of H_2S are expected, especially under low pressure, and are routinely and successfully contained. Other operations (production, transportation, etc.), will be evaluated on known conditions, such as volume of pro-

duction, concentration of H₂S, geographical features, and relative location to populated areas. The District Engineer may, after consideration of all factors, require safety features which are more or less stringent than required by this Notice. However, nothing contained in this Notice is intended to supersede any applicable State or Federal requirements which may be more stringent.

I. General

- A. Each operator shall determine the H₂S concentration in the gaseous mixture of each operation or system and report the results to the District Engineer. The requirements of this Notice shall not apply to systems in which the H₂S concentration is less than 100 ppm.
- B. For all operations with concentrations of 100 ppm or greater, the operator shall determine and report the radius of exposure, except in the cases of storage tanks, by the following Pasquill-Gifford equation, or by other methods approved by the District Engineer:

- (1) For determining the location of the 100 ppm radius of exposure:

$$X = \left[(1.589) (H_2S) (Q) \right]^{0.6258}$$

- (2) For determining the location of the 500 ppm radius of exposure:

$$X = \left[(0.4546) (H_2S) (Q) \right]^{0.6258}$$

Where: X = radius of exposure of feet;

Q = maximum volume determined to be available for escape in cubic feet per day (at standard conditions of 14.73 psia and 60° F);

H₂S = mole fraction of hydrogen sulfide in the gaseous mixture available for escape.

- C. The volume used as the escape rate in determining the radius of exposure shall be that specified below, as applicable:
- (1) The maximum daily rate of gas containing H_2S handled by that system element for which the radius of exposure is calculated;
 - (2) For existing gas wells, the current adjusted open-flow rate, or operator's estimate of the well's capacity to flow against zero back-pressure at the wellhead;
 - (3) For new wells drilled in development areas, the escape rate shall be determined by using the current adjusted open-flow rate of offset wells, or the field average current adjusted open-flow rate, whichever is larger;
 - (4) For the drilling of a well in an area where insufficient data exist to calculate a radius of exposure, but where H_2S may be expected, a 100 ppm radius of exposure equal to 3000 feet shall be assumed. A lesser assumed radius may be considered from a written request with adequate justification.
- D. The radius of exposure shall be determined on all systems and special precautions taken, as defined in this Notice, when any of the following conditions apply:
- (1) The 100 ppm radius of exposure is in excess of 50 feet, and includes any part of a city, town, village, park, dwelling, school bus stop, or similar area that is expected to be populated;
 - (2) The 500 ppm radius of exposure is greater than 50 feet, and includes any part of a road owned by and maintained for public access or use;
 - (3) The 100 ppm radius of exposure is greater than 3000 feet.

II. Drilling and Workover Requirements

For drilling operations, all safety equipment will be installed and operated to completely implement safety procedures when drilling has reached a depth approximately 1500 feet above the zone containing, or suspected of containing, H₂S. If H₂S was not anticipated in the Application for Permit to Drill, but is encountered, the Operator shall immediately contain the gas, suspend drilling operations, obtain materials and safety equipment to bring the operation into compliance, and notify the District Engineer.

Additional safety measures may be required by the District Engineer in areas which are extremely hazardous, or require special treatment. Also, the District Engineer may require the use of manual H₂S detectors when operating in areas containing H₂S in any quantity. Test results will be recorded and reported in the manner prescribed by the District Engineer.

All locations shall be planned to obtain the maximum safety benefits consistent with the rig configuration, terrain, prevailing winds, etc. The locations of houses, schools, roads, recreational areas, etc., where people could be present within a three mile radius of the drilling location will be mapped. The drilling rig shall, when possible, be situated so prevailing winds blow across the rig toward the mud tanks and reserve pit. Where possible, or as dictated by prevailing winds. If an alternate road is not possible, a footpath will be provided and clearly marked to a safe area.

The safety requirements of this section are included in the three categories: Personnel Protection (on-site), Public Protection (Contingency Plan), and Operating Equipment, as follows:

A. Personnel Protection

(1) Training Program

- (a) All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, shall be informed of the hazards of H₂S. They shall also be instructed in

the proper use of personnel safety equipment and the use of H₂S detectors and alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.

- (b) A weekly drill and training session shall be conducted and recorded on the driller's log, for all personnel in the working crew. The instruction shall include first aid procedures, maintenance and use of protective breathing equipment, use of retrieval ropes with safety harnesses, and the value of working in pairs.
- (c) At least two briefing areas must be designated for assembly of personnel during emergency conditions, located so one is upwind of the well at all times. The most upwind of these will be designated as the "Safe Briefing Area". Personnel should be trained to practice routine observation of wind direction.
- (d) One person, who regularly performs duties on the drilling facility, shall be responsible for the overall operation of on-site safety and training programs; he will be designated and identified to all on-site personnel.

(2) Personnel Protective Equipment

- (a) 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. Lightweight, escape-type

self-contained breathing apparatus with a minimum of 10 minute's supply must be maintained at an easily accessible location for the derrickman, and at any other location where escape from an H₂S 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.

- (b) Storage of protective-breathing apparatus shall be planned to assure at least one available apparatus regardless of current wind conditions.
- (c) Each system must have an alarm signal for low air supply.
- (d) Personnel with punctured ear drums shall not be permitted to work in an H₂S atmosphere.
- (e) Additional personnel safety equipment must be available for use:
 - (i) Chalk boards and note pads for communication;
 - (ii) First-aid supplies;
 - (iii) Resuscitators;
 - (iv) Litter;
 - (v) harnesses and lifelines;

- (vi) Wind direction socks or streamers.

(3) Hydrogen Sulfide Detection and Monitoring Equipment

Each facility shall have an H₂S detection and monitoring system that activates audible and visible alarms when the concentration of H₂S reaches the threshold limit value of twenty parts per million in air. This equipment must have a rapid response time and be capable of sensing a minimum of five parts per million H₂S in air, with at least three sensing points located at the most critical areas where H₂S might accumulate. The detection system must be intrinsically safe for hazardous locations, and installed, maintained, and calibrated in accordance with the manufacturer's recommendations. Portable H₂S detection will also be available for all working personnel. After H₂S has been detected by any device, frequent inspections of all areas of poor ventilation shall be made. The sense of smell should never be relied upon to detect the presence of H₂S.

(4) Visible Warning System

Equipment shall be installed at prominent locations to indicate wind direction at all times. At least three such wind socks or streamers will be located at separate elevations: i.e., near ground level, rig floor, and treetop height. Operational danger signs shall be displayed on each side of the rig, and at least two rectangular red flags shall be visible to approaching personnel. Each sign shall be painted a high visibility yellow, with black lettering of sufficient size to be readable at a reasonable distance from the facility. The sign shall indicate:

DANGER-POISON GAS - H₂S

and in smaller lettering:

Do Not Approach If Red Flag
is Flying.

All signs and flags shall be illuminated under conditions of poor visibility and at night. These signs and flags will indicate the following conditions and requirements:

- (a) Moderate danger. When the concentration reaches 20 ppm H_2S , the signs will be displayed. The detection efforts shall be intensified, and steps taken to eliminate or neutralize the condition.
- (b) Intermediate danger. When H_2S is determined to be in the 20-100 ppm range, protective-breathing apparatus shall be worn by all working personnel, and all non-working personnel moved to safe areas.
- (c) Extreme danger. When H_2S has exceeded 100 ppm concentration, the flags shall be hoisted, in addition to the displayed signs. All non-essential personnel or all personnel (as appropriate) shall be evacuated at this time.

(5) Ventilation Equipment

All ventilation fans shall be explosion-proof and situated in areas where H_2S may accumulate. Moveable fans shall be provided in work areas to disperse H_2S vapors. The rig layout should be planned to achieve maximum benefit from natural ventilation.

B. Public Protection

When the conditions defined in Section I. D. exist, special precautions shall be taken to alert and protect the public, following the accidental release of a potentially hazardous volume of hydrogen sulfide.

(1) Contingency Plan

A written contingency plan, providing details of action to alert and protect the public in the event of an accidental release of H_2S , shall be submitted prior to the commencement of operations. The contingency plan must be activated immediately after detection of an accidental release of a potentially hazardous volume of H_2S . The plan will include the following:

- (a) The responsibilities and duties of key personnel, and instructions for alerting the public and requesting assistance;
- (b) A list of names and telephone numbers of residents and responsible parties of occupied public buildings within the area of exposure;
- (c) A telephone call list for requesting assistance from law enforcement, fire department, and medical personnel; this list shall also include State and Federal agencies as required;
- (d) A 3-mile radius plat of all private and public dwellings and other areas where the public might reasonably be expected;
- (e) In an area of high density population, or in other special cases, the District Engineer, USGS, will require more stringent plans to be developed.

(2) Critical Operations and Curtailment Plans

Certain operations performed under drilling and workover conditions are more critical than others with respect to the containment of potentially hazardous gasses; therefore, the District Engineer, U.S. Geological Survey, may require the curtailment of certain operations for the protection of the public. At the time the Application for Permit to Drill is submitted to and approved by the District Engineer, plans for critical

operations will be formulated. Prior to commencement of a critical operation, subsequent notices must be given to the District Engineer.

C. Operating Procedures and Equipment

(1) General Operations

Drilling operations in H₂S areas shall be subject to the following requirements:

(a) Drill string trips or fishing operations:

Every effort shall be made to pull a dry drill string while maintaining well control. If it is necessary to pull the drill string wet after penetration of H₂S bearing zones, increased monitoring of the working area shall be provided, and protective-breathing apparatus worn.

(b) Circulating bottoms-up from a drilling break, cementing operations, logging operations, or well circulation while not drilling.

After penetration of an H₂S bearing zone, increased monitoring of the working area shall be provided, and protective-breathing apparatus worn by those personnel in the working area at least 15 minutes before and after bottoms-up.

(c) Coring operations in H₂S-Bearing Zones:

Personnel protective-breathing apparatus shall be worn 10-20 stands in advance of retrieving the core barrel. Cores to be transported shall be sealed and marked for the presence of H₂S.

(d) If H₂S-bearing zones are encountered while drilling with air or gas as the circulating medium, the well shall be killed with mud, and drilling continued, using mud as the circulating medium.

(e) Abandonment or temporary abandonment operations:

Internal well-abandonment equipment shall be designed for H₂S service.

(f) Logging operations after penetration of known or suspected H₂S-Bearing Zones:

Mud in use for logging operations shall be conditioned and treated to minimize the effects of H₂S on the logging equipment, or² the logging equipment designed for H₂S service.

(g) Gas-cut mud or well kick from H₂S-Bearing Zones:

Protective-breathing apparatus shall be worn when an H₂S concentration of 20 parts per million is detected. Should a decision be made to circulate out a kick, protective-breathing apparatus will be worn prior to and subsequent to bottoms-up, and at any time during an extended kill operation when the concentration of H₂S becomes hazardous to personnel (as defined in paragraphs II.A.(4)).

(h) Drill string precautions:

Precautions will be taken to minimize drill string stresses caused by conditions such as excessive dogleg severity, improper stiffness ratios, improper torque, whip, abrasive wear on tool joints, and joint imbalance. American Petroleum Institute Bulletin RP 7G will be used as a guideline for drill string precautions. Tool-joint

compounds containing free sulphur shall not be used. Proper handling techniques shall be used to minimize notching, stress concentrations, and possible drill pipe failures.

(i) Flare system:

The flare system shall be designed to safely gather and burn H_2S gas. Flare lines will be located as far from the operating facility as feasible, and in a manner to compensate for wind changes. The flare system shall be equipped with a pilot and an automatic igniter; where noncombustible gas is vented, the system must be provided supplemental fuel to burn H_2S .

(j) Kill line:

A kill line of ample strength, securely anchored, shall be laid to the wellhead from a safe location for emergency pumping into the well.

(2) Mud Program

- (a) Either water- or oil-base muds are suitable for use.
- (b) A pH of 10.0 or above shall be maintained in a waterbase mud system to control corrosion and prevent sulfide stress cracking.
- (c) Sufficient quantities of additives shall be maintained on location to add to the mud system to scavenge and/or neutralize H_2S .
- (d) Corrosion inhibitors may be applied to the drill pipe or to the mud system as a safeguard, in addition to the protection by pH control mentioned above.
- (e) Drilling mud containing H_2S gas shall be degassed at an optimum location for the rig configuration. These gases will be piped into

the flare system and burned at a remote location.

- (f) The mud shall be maintained in an overbalanced condition to preclude the entry of formation fluids containing H₂S into the wellbore.

(3) Kick detection and well control

All efforts will be made to prevent a well kick resulting from gas-cut mud, drilling breaks, lost circulation, or trips for bit change.

In the event of kick, the disposal of the well influx fluids will be accomplished by one of the following alternatives, giving consideration to personnel safety, and environmental and equipment damage:

(a) Alternative A.

To control the kick by using appropriate well-control techniques within the pressure limits of well equipment (drill pipe, casing, well-head, blowout preventers, etc.). The disposal of H₂S and other gases shall be through pressured or atmospheric mud-gas separator equipment, depending on volume, pressure, and concentration of H₂S gas. The equipment shall be designed to recover drilling mud, and to vent to the atmosphere and burn the separated gases. The mud system shall be treated to neutralize H₂S and restore and maintain the proper mud quality.

(b) Alternative B.

To contain the well fluid influx by shutting in the well and pumping the fluids back into the formation.

(4) Testing in an H₂S Environment

(a) Procedures.

- (i) Testing shall be performed with a minimum number of personnel in the immediate vicinity of the test using equipment to

safely and adequately perform the test and maintain related equipment and services. Except with prior approval by the District Engineer, USGS, drill-stem testing of H₂S zones will be conducted during daylight hours only.

- (ii) Prior to initiation of the test, special safety meetings will be conducted for all affected personnel, with emphasis on the use of personnel protective-breathing apparatus, first-aid procedures, and Contingency Plan procedures.
- (iii) During the test, the use of H₂S detection equipment shall be intensified. All produced gases will be vented and burned through a flare system which meets the requirements of paragraph II.C.(1)(j). Gases from stored test fluids will be vented into the flare system.
- (iv) "No Smoking" rules shall be enforced.

(b) Equipment.

- (i) Drill-stem test tools, well-head equipment, and other testing facilities shall be suitable for H₂S service.
- (ii) Tubing which meets the requirements for H₂S service may be used for drill stem testing. The water cushion shall be thoroughly inhibited to prevent H₂S corrosion. The test string shall be flushed with fluid to neutralize H₂S after completion of the test.
- (iii) All surface test units and related equipment will be designed for H₂S service; only competent personnel, trained in the hazardous

effects of H_2S , shall
be utilized in these tests.

(5) Metallurgical Equipment Considerations

Equipment used in drilling zones bearing H_2S , or in handling production containing H_2S , could be susceptible to the phenomena variously known as: sulfide stress cracking, hydrogen embrittlement, stress corrosion cracking, and/or H_2S embrittlement. To resist or prevent these phenomena, the equipment will be constructed of material whose metallurgical properties are chosen after considering both the working environment and the anticipated stresses. The metallurgical properties include the grade of steel, the processing (rolled, normalized, tempered, and/or quenched), and the resulting strength properties. The working environment shall include the H_2S concentrations, the well fluid pH, and the well bore pressures and temperatures. For drilling and workover operations, such equipment includes the drill string, casing, wellhead, blowout preventers, kill lines, choke manifold, valves and other related equipment. Each Application for Permit to Drill and each Notice of Intention to Workover a well must describe precautions to be taken to protect equipment from H_2S . The following general practices are required for acceptable performance:

(a) Drill string.

Drill strings shall be designed for the anticipated depth, conditions of the hole, and reservoir environment. Care will be taken to minimize exposure of the drill string to high stresses, as practical and consistent with the anticipated hole conditions.

(b) Casing.

Casing, couplings, flanges, and related equipment shall be designed for H_2S service.

(c) Wellhead, blowout preventers, and pressure control equipment:

The blowout preventer stack assembly shall be designed in accordance with the latest state-of-the-art for H₂S service. Surface equipment such as choke lines, choke manifold, kill lines, pressure gauges, bolting, weldments, and other related well-killing equipment shall be designed and fabricated utilizing the most advanced technology for sulfide stress cracking. Elastomers, packing, and similar inner parts exposed to H₂S must be resistant at the maximum anticipated temperature of exposure.

III. Producing Operations

Except for storage tanks, a determination of the radius of exposure for all production systems shall be made in the manner prescribed in Section I. of this Notice.

A. Storage Tanks

Storage tanks utilized as a part of a production operation and operated at or near atmospheric pressure, where the vapor accumulation has an H₂S concentration in excess of 500 ppm, will be subject to the following:

- (1) No determination of a radius of exposure shall be made for storage tanks as herein described.
- (2) A warning sign shall be posted on or within 50 feet of the facility to alert the general public of the potential danger. The sign shall be painted a high visibility yellow with black lettering, of sufficient size to be readable at a reasonable distance from the facility. The sign shall indicate:

DANGER-POISON GAS - H₂S

- (3) Fencing as an additional security measure is required when storage tanks are located with $\frac{1}{4}$ mile of a townsite or city, or where conditions cause the

storage tanks to be exposed to the public.

- (4) All stock tank installations, not currently equipped, shall be converted to closed systems. Such systems will provide methods for gauging, sampling, and determining the temperatures without direct entry into the system, and for containment of vapors by recovery or burning. Alternatives to this requirement will be considered and may be approved by the District Engineer upon written request by the operator; this must include reasons for the variance request and methods for personnel protection.
- (5) Stock tank vapors with H₂S concentrations in the 100-500 ppm range are not included in the requirement because of low volume emissions. However, they are hazardous to personnel who must work near the hatch or vent. Therefore, the operator shall provide such personnel with H₂S safety equipment and training, and encourage working in pairs.

B. Other Surface Production Facilities

In the case of fixed surface facilities (other than stock tanks) where the 100 ppm radius of exposure is in excess of 50 feet, warning signs are required. The design and placement of such signs shall conform to paragraph III.A. (2), and be clearly visible on roads which provide direct access to the facility.

Fencing or other security measures are required when such facilities are located within ½ mile of a townsite, or where conditions cause the facility to be exposed to the public.

C. Personnel Protection

The appropriate personnel safety and protection requirements contained in Section II. A. of this Notice are also applicable to leasehold production operations. A

lightweight, self-contained, escape type breathing apparatus will be suitable for personnel who normally work alone. The nature of production operations makes it more vulnerable than drilling or workover operations, by such factors as: a constant threat of H₂S (rather than only after entry into a H₂S zone), personnel working alone, contractors working unsupervised, and leaks which cause a normally safe area to become hazardous, etc. Therefore, the producing operator's responsibility for personnel safety is increasingly critical as the exposure potential increases. Hence, in addition to providing the required protective breathing and detection equipment, wind direction indicators, etc., the operator will provide all personnel with adequate education as to the hazards of handling H₂S, through regularly scheduled and impromptu safety meetings and bulletin board postings.

D. Public Protection

When conditions as defined in Section I. D. exist, a Contingency Plan must be filed with the District Engineer, USGS. The Plan must include all appropriate requirements listed in Section II. B. (1). One such Plan is required per lease or field as specified by the District Engineer. However, the plan must also include alternate actions for the various sub-systems or geographical locations, as necessary, to cover the larger areal limits.

E. Operating Procedures and Equipment

- (1) Producing wells, unless produced by artificial lift, must have two master valves, a packer, and corrosion inhibiting fluid. An automatic closing storm choke or surface controlled sub-surface safety valve set below 100 feet must be installed. Alternatives to this requirement will be considered and may be approved by the District Engineer upon written request by the operator; this must include reasons for the variance request and methods for personnel protection. In either case, approval of

the producing string and associated safety equipment must be obtained prior to installation.

- (2) Surface systems must have automatic closing devices to prevent uncontrolled flow in the event of equipment failure.
- (3) Materials and equipment used in new construction and modification of facilities must be resistant to hydrogen sulfide stress cracking under their operating conditions.
- (4) Existing facilities with no equipment failure from sulfide stress cracking will be considered adequate.
- (5) In the event of a failure of any element of an existing system as a result of hydrogen sulfide stress cracking, the incident must be reported to the District Engineer, with plans for the inspection, protection, or replacement of similar elements of the system.
- (6) Corrosion coupons or other methods to monitor corrosion rates shall be installed in all systems in which the H₂S concentration is 100 ppm or greater. If prohibitive corrosion rates are detected, the facilities must be protected by an inhibitor or other suitable means.



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

August 20, 1985

Sohio Petroleum Company
P.O. Box 30
Casper, Wyoming 82602

Gentlemen:

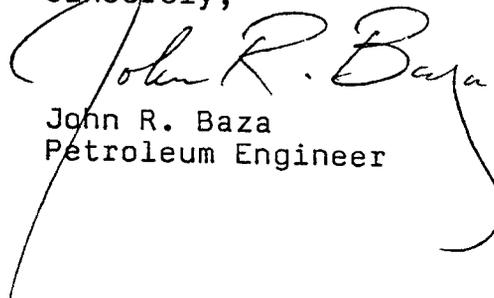
RE: Christmas Creek II Unit Well No. 35-2, Sec.35, T.2N, R.10E,
Summit County, Utah

The H₂S contingency plan for the referenced well has been received and reviewed by the Division staff. As stipulated in the approval letter dated July 31, 1985, the plan is approved subject to the following condition:

1. The Division of Oil, Gas, and Mining shall be included on the emergency notification list shown on page 14A. Contact persons are John R. Baza, Work Phone (801) 538-5340, Home Phone (801) 298-7695 or R. J. Firth, Home Phone (801) 571-6068. The business address for the Division is shown on this letter head.

If you have any questions concerning this approval, please do not hesitate to contact me.

Sincerely,



John R. Baza
Petroleum Engineer

sb
cc: D.R. Nielson
R.J. Firth
Well File

0155T-17

POOR COPY

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: SOHIO PETROLEUM

WELL NAME: CHRISTMAS CREEK #35-2

SECTION 35 TOWNSHIP 2N RANGE 10E COUNTY SUMMIT

DRILLING CONTRACTOR LOFTLAND

RIG # 60

SPUDDED: DATE 8/26/85

TIME 8:00 am

How Rotary

DRILLING WILL COMMENCE 8/26/85

REPORTED BY Terri Brooney

TELEPHONE # 307-237-3861

DATE 8/28/85 SIGNED SB



STATE OF UTAH
NATURAL RESOURCES
Water Rights

West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

July

DIST	Dist. Mgr.
	Norman H. Bangerter, Governor
	Dee C. Hansen, Executive Dir.
	Robert L. Morgan, State Engineer
	<input checked="" type="checkbox"/> Bill Smith
	DE - Prod:
	DE - Dir:
	Dist. Clerk
	Asst Dist Clerk
	Permit SP
	<i>RP</i>
	<input checked="" type="checkbox"/> File <i>Xmas 35-2</i>

August 16, 1985

Sohio Petroleum Company
P.O. Box 30
Casper, WY 82602

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 21-1544 (T61122)

Enclosed is a copy of approved Temporary Application Number 21-1544 (T61122). 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, 1985, 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 acting Area Engineer, Robert Fatheringham. The telephone number is (801) 752-8755.

Yours truly,

Robert L. Morgan

Robert L. Morgan, P.E.
State Engineer

RLM:slm

Encl.: Copy of approved Temporary Application

CONDITIONAL USES
PERMIT
PLAN

APPLICATION TO APPROPRIATE WATER STATE OF UTAH

T 61122

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 Sohio Petroleum Company
3. The Post Office address of the applicant is P. O. Box 30, Casper, WY 82602
4. The quantity of water to be appropriated .1 second-feet and/or 20 acre-feet
5. The water is to be used for Oil Well Drilling from 8/10/85 to 10/10/85
6. The drainage area to which the direct source of supply belongs is (Leave Blank)
7. The direct source of supply is* East Fork Bear River

*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. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

- 8. The point of diversion from the source is in Summit County, situated at a point* N. 1000 ft E. 1700 ft from the SW 1/4 Sec 26 T2N R10E See page 2 - Explanatory

*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 a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

- 9. The diverting and carrying works will consist of pump (piston or centrifugal) with necessary lines
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:
12. Is the land owned by the applicant? Yes No X If "No," explain on page 2.
13. Is this water to be used supplementally with other water rights? Yes No X 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 used for circulation during drilling operation at the Christmas Creek 35-2 well

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. 2216' FEL. 871' ESL. Section 26. T2N. R10E. Summit County. SW 1/4 Sec 26, Utah - Christmas Creek 35-2 N 871 ft W 2216 ft from SW corner Sec 26.

- 21. The use of water as set forth in this application will consume 20 second feet and/or acre feet of water and 0 second feet and/or acre feet will be returned to the natural stream or source at a point described as follows: Water will be contained in a reserve pit. Upon completion water will evaporate, be land applied or be hauled to an

EXPLANATORY

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

Application has been made to the State of Utah to drill the Christmas Creek 35-2 well. Operations are scheduled to commence August 10, 1985 and last for 90 days. During that time, water usage is not expected to exceed 20 acre feet or 1.5 cfs. Water will be used in drilling and will be stored in the reserve pit on location. Upon completion, water will be evaporated, or land applied, or hauled to an approved disposal pit.

Water will pump from a point along the East Fork Bear River.

Point of diversion -

Pumping or hauling from East Fork Bear River.

1000' ESL, 1700' EWL, Section 26, T2N, R10E

Surface ownership is the U. S. Forest Service, Wasatch Cache National Forest.

Any necessary approval will be obtained prior to onset of operations.

(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

W. H. Ward

W. H. Ward

Signature of Applicant* District Manager

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, 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	Cost	
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. JUL 22 1985 Application received by mail ~~over counter~~ in State Engineer's office by *JK*
2. Priority of Application brought down to, on account of
3. JUL 22 1985 Application fee, \$ ~~25.00~~ ^{157.50}, received by *JK* Rec. No. *18434*
4. Application microfilmed by Roll No.
5. Indexed by Platted by
6. JUL 22 1985 Application examined by
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
12. Notice published in
13. Proof slips checked by
14. Application protested by
15. Publisher paid by M.E.V. No.
16. Hearing held by
17. JUL 22 1985 Application designated for approval ~~rejection~~ *RMJ SE.*
18. 8/16/85 Application copied or photostated by *slm* proofread by
19. 8/16/85 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, 1985.
21. Time for making Proof of Appropriation extended to
22. Proof of Appropriation submitted.
23. Certificate of Appropriation, No., issued

Robert L. Morgan
Robert L. Morgan, P.E., State Engineer

Application No. *TC 1133*

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

RECEIVED

SEP 09 1985

DIVISION OF OIL
GAS & MINING

Utah

B.O.P. TEST PERFORMED ON (DATE)..... 8-25-85

OIL CO.: *Sohio*

WELL NAME & NUMBER..... *Christmas Creek 35-2*

SECTION..... ~~26~~ *35-2*

TOWNSHIP..... *2N*

RANGE..... *10E*

COUNTY..... *Summit*

DRILLING CONTRACTOR..... *Loffland #60*

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.**
Box 2097
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:

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

COMPANY

LEASE AND WELL NAME #

DATE OF TEST

RIG # AND NAME

Soho

CHRISTMAS

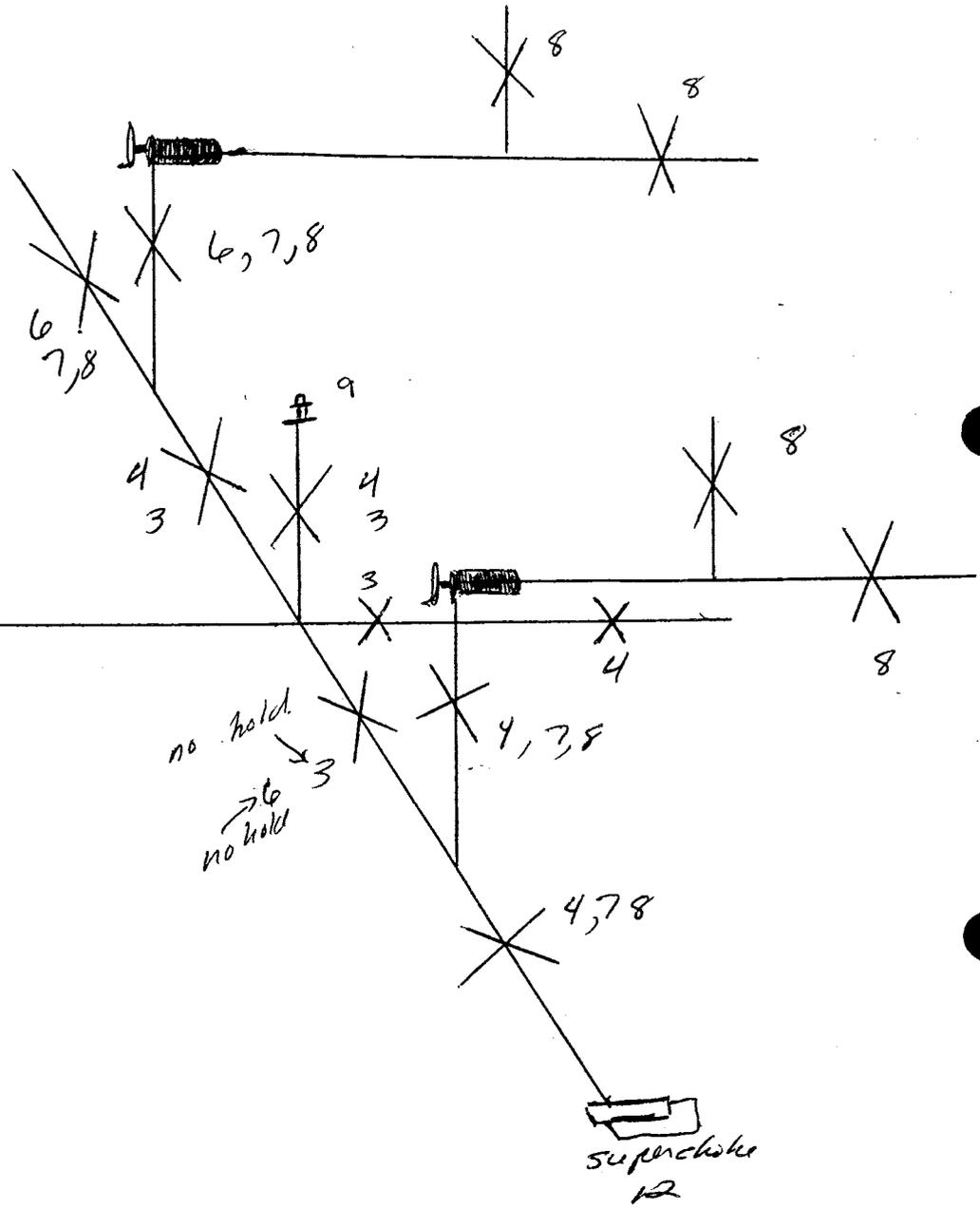
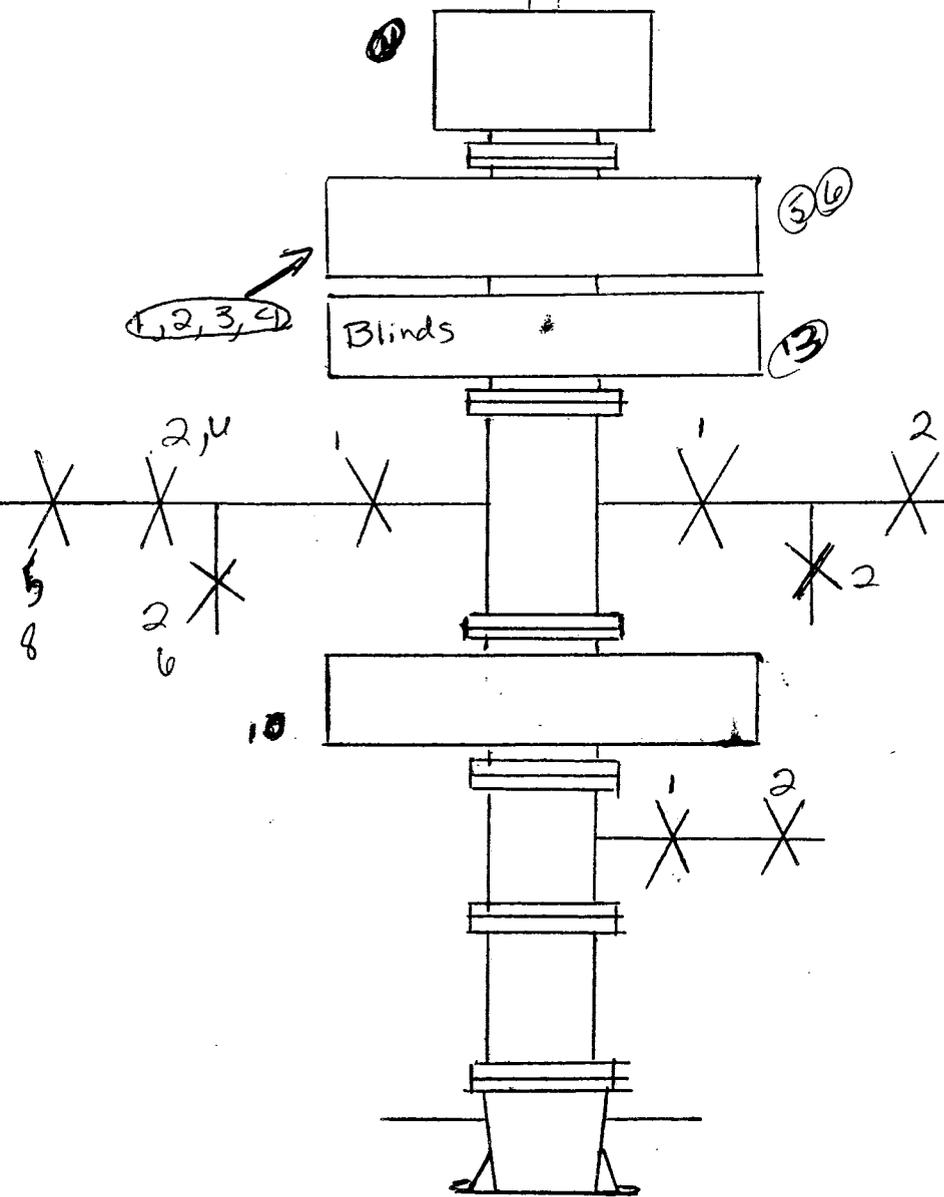
Creelc -352

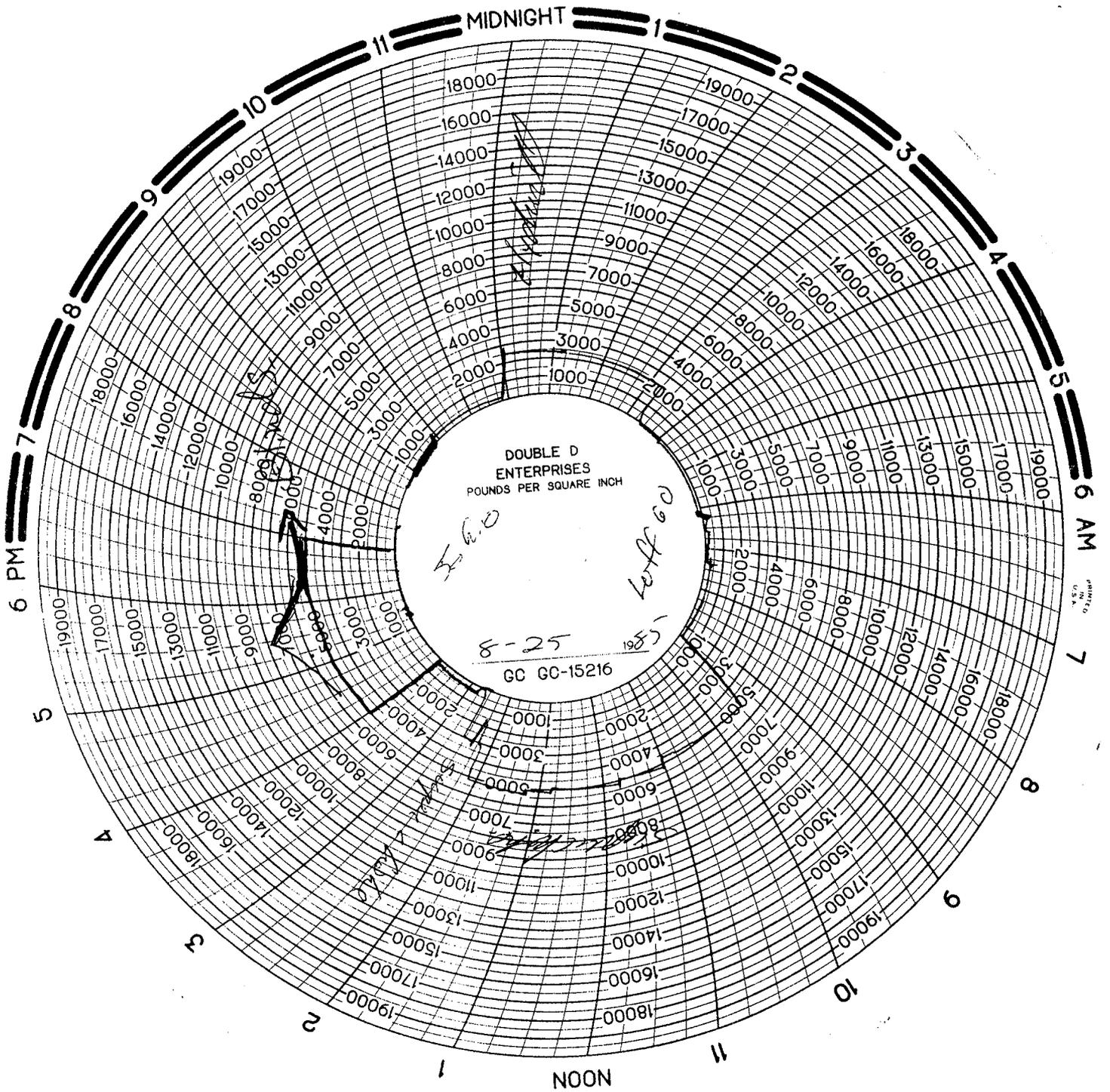
8-25-85

Loffland W

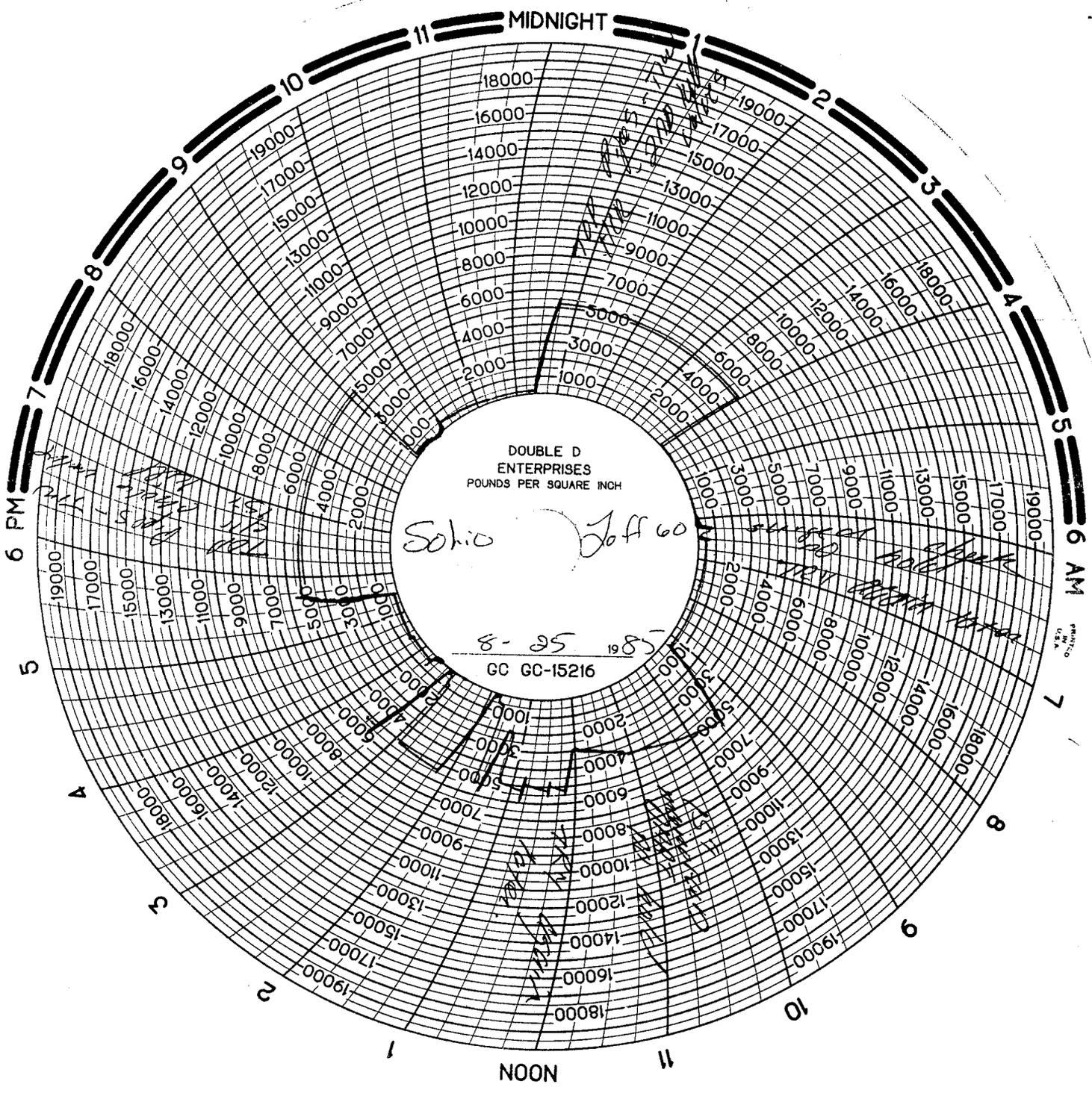
TES	TIME	
	3:00	ARRIVED ON LOCATION
①	4:11 low	Test on Top pipes - 1st kill valve - 4" manual choke valve, 4" valve below Bottom pipes - TIW valve
	4:21	High Test
②	4:41	Low Test on Top pipes - TIW - HUR - 2nd set of kill valves second 4" manual below Bottom pipes
	4:51	High Test
③	5:17	Low Test on Top pipes and kill valves, DART valve, 1st manifold
	5:27	High Test no hold.
④	6:02	High Test - DART VALVE - TOP PIPES - 2nd kill valves - 2nd manifold valve except on pit side 1st manifold on it.
	6:17	Low Test
⑤	6:27	Choke valve no hold.
⑥	6:35	Low Test on Top pipes - lower Kelly - 2nd kill - 2nd manifold on pit side 1st manifold on super choke side 1st manifold valve on super choke side no hold.
⑦	6:45	High Test on Top pipes - Lower Kelly, 2nd manifold both sides - 2nd kill valve.
⑧	7:00	Low Test.
⑨	7:22	Low Test - Top pipes - choke valve - 3rd manifold upper Kelly.
	7:32	High Test - sanitizer on snore nuts fix it.
	7:42	same Test OK now
⑩	7:58	Low Test Bottom pipes - TOP Kelly.
	8:08	High Test.
⑪	8:38	Low Test on HYDRA
	8:48	same Test High.
⑫	9:14	Low Test Blind's super choke.
	9:24	High Test.
⑬	9:45	Low Test Blind's.
	9:55	High Test

Top Kelly 10,9
 Lower Kelly 6,7
 DART 3
 TW ①②





MADE IN U.S.A.

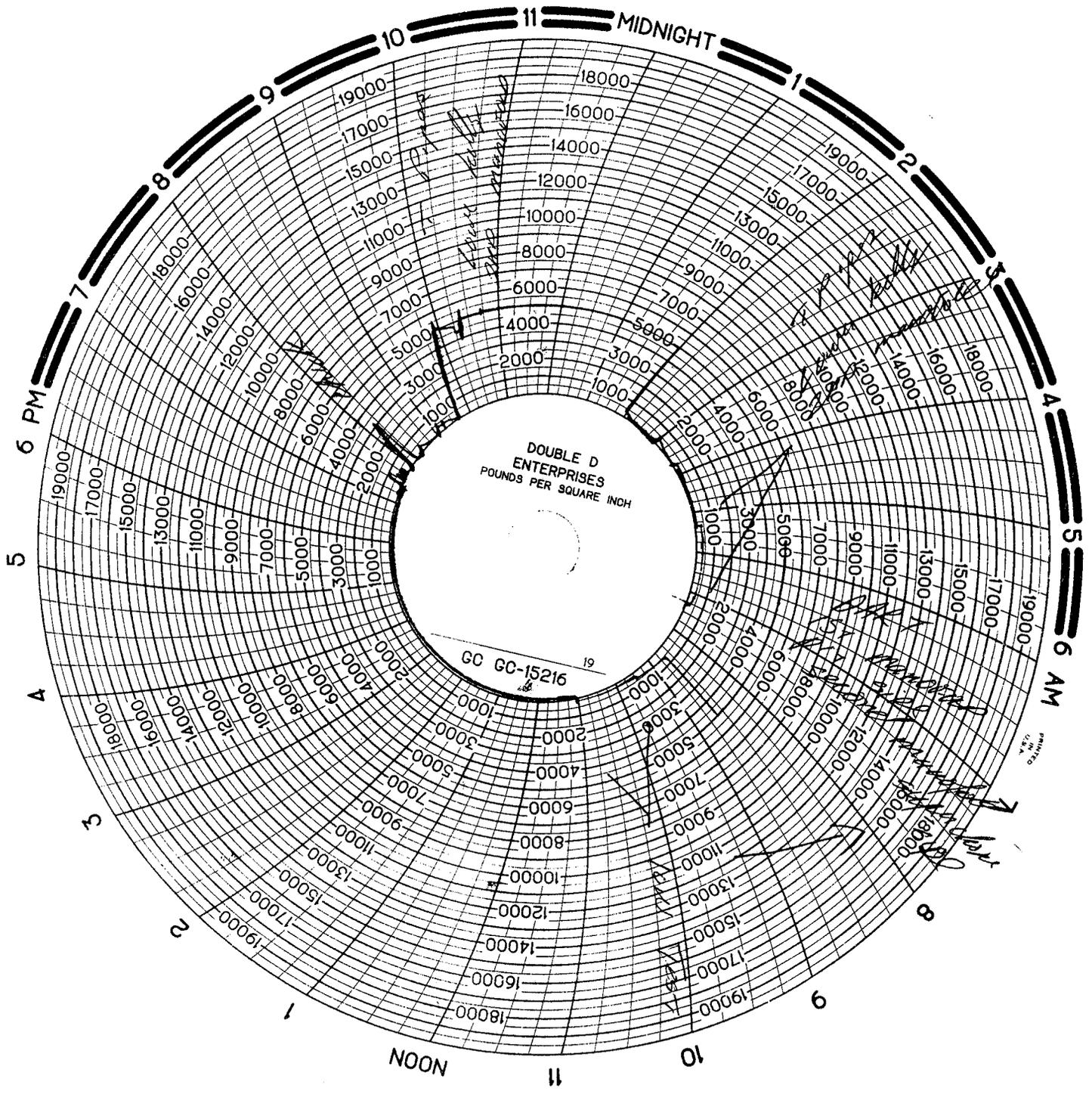


DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

Solo Joff 60

8-25 1985
GC GC-15216

MADE
IN
U.S.A.



PRINTED
IN U.S.A.

(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Budget Bureau 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.)

RECEIVED

SEP 16 1985

Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Christmas Creek II

8. FARM OR LEASE NAME

Christmas Creek

9. WELL NO.

35-2

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 35, T2N, R10E

12. COUNTY OR PARISH 13. STATE

Summit Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Sohio Petroleum Company

3. ADDRESS OF OPERATOR

P.O. Box 30, Casper, WY 82602 DIVISION OF OIL

4. LOCATION OF WELL (Report location clearly and in accordance with G.S. & MINING. See also space 17 below.)

At surface 2341' FEL, 1480' FSL, Sec. 26, T2N, R10E
At Proposed Prod. Zone:
1280' FNL, 2000' FEL, Sec. 35, T2N, R10E

14. PERMIT NO.

43-043-30276

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

8912.5' GR

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)

FILL 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*

Monthly Well History

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

Monthly Well History for the Weeks of August 27 - September 13, 1985

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

SIGNED W.H. Ward W.H. Ward TITLE District Manager

DATE 9/13/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

DATE _____

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well History

UTAH

SOHIO

Christmas Creek 35-2, Summit Co.

Surf Loc: 2341' FEL, 1480' FSL

Sec 26-2N-10E

BH Loc: +1280' FNL, 2000' FEL

Sec 35-2N-10E

Christmas Creek Prospect

7400' (MD) Thaynes/Phosphoria

Rig: Loffland #60

Spud: 8/26/85, 8:00 AM

Elev: 8912.5' GR

Csg.: 13-3/8" @ 322'

8/27/85

PBTD 1140'. TOH, WO cement.

8/28/85

Depth 435'. WOC.

8/29/85

Depth 567'. Drlg w/MTR.

8/30/85

Depth 783'. PU BHA.

8/31/85

Depth 1158'. Drilling.

9/1/85 (6/9.5)

Depth 1540'. TOH.

9/2/85 (7/11)

Depth 1876'. Drlg.

9/3/85 (8/12)

Depth 2089'. Drlg.

9/4/85 (9/13)

Depth 2295'. Drlg.

9/5/85 (10/14)

Depth 2514'. Drlg.

9/6/85 (11/15)

Depth 2710'. Drlg.

9/7/85

Depth 3043'. Drlg.

9/8/85

Depth 3278'. Drlg.

9/9/85

Depth 3645'. Drlg.

9/10/85

Depth 3892'. Drlg.

9/11/85

Depth 4232'. Drlg.

9/12/85

Depth 4508'. Drlg.

9/13/85

Depth 4659'. Drlg.

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 4241 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 533-5771

State Lease No. FEE
 Federal Lease No. n/a
 Indian Lease No. n/a
 Fee & Pat. n/a

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY SUMMIT FIELD/LEASE CHRISTMAS CREEK PROSPECT

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
August, 19 85

Agent's Address P.O. Box 30 Company Sohio Petroleum Company
Casper, Wyo. 82602 Signed [Signature]
 Phone No. 307-237-3861 Title District Administrator

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause, date and result of test for gasoline content of gas)
Surface NW SE 26	2N	10E	35-2		Drilling					API # 43-043-30276 Spud Date: 8-26-85 8:00 A.M. T.D. 1429'

RECEIVED
SEP 25 1985
DIVISION OF OIL GAS & MINING

GAS: (MCF)
 Sold 0
 Flared/Vented 0
 Used On/Off Lease 0

OIL or CONDENSATE: (To be reported in Barrels)
 On hand at beginning of month 0
 Produced during month 0
 Sold during month 0
 Unavoidably lost 0
 Reason: 0
 On hand at end of month 0

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**
 Note: The API number must be listed on each well.

10/9/85
1330 hrs.

Sohio - Verbal approval to P&A
Christmas Creek 35-2

Sec. 26, T2N, R10E, Summit Co.

TD: 7777'

13³/₈" @ 326'

12¹/₄" open hole to TD

Ankara 4580'

Thaynes 5740'

Woodside 6255'

Phosphoria 7052'

Weber 7654'

- ① Plug on bottom 7777' - 7500' ✓
- ② Plug @ 5800' - 5600' ✓
- ③ Plug @ 2800' - 2600' ✓
- ④ Plug @ 400' - 200' ✓
- ⑤ Surface plug 10-15 30 ✓

Mark Pajak
(307) 237-3861

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

OCT 10 1985

DIVISION OF OIL
GAS & MINING

1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Sohio Petroleum Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR P.O. Box 30, Casper, WY 82602		7. UNIT AGREEMENT NAME Christmas Creek II
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Surf.: 2341' FEL, 1480' FSL, Sec. 26, T2N, R10E Subsurf.: 1280' FNL, 2000' FEL, Sec. 35		8. FARM OR LEASE NAME Christmas Creek
14. PERMIT NO. 43-043-30276	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 8912.5' GR	9. WELL NO. 35-2
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35, T2N, R10E
		12. COUNTY OR PARISH 18. STATE Summit Utah

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

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

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

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

Due to the changes of anticipated formation tops as drilling progressed, the Christmas Creek 35-2 well will be drilled to a total depth of +/- 8000' MD (+/- 7000' TVD). Well was originally scheduled to be drilled to 7400' MD. Final and accurate depth figures will be available upon completion of drilling operations.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/15/85
BY: John R. Day

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

SIGNED W. H. Ward TITLE District Manager DATE 10/8/85
W. H. Ward

(This space for Federal or State office use)

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

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

RECEIVED

OCT 15 1985

DIVISION OF OIL
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 9/24/85

OIL CO.: Sohio

WELL NAME & NUMBER CHRISTMAS CREEK 35-2

SECTION 26

TOWNSHIP 2N

RANGE 10E

COUNTY Summit

DRILLING CONTRACTOR LOFFLAND #60

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.**
Box 2097
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Kit

RIG TOOL PUSHER TEROME

TESTED OUT OF EVANSTON

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: OIL CO.
BLM
STATE

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE

DOUBLE "D" ENTERPRISES, INC.

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

DELIVERY TICKET

Nº 3320

Date 9/24/85
Operator Sohio Contractor Loftland Rig No. 60
Ordered By Kit Lease Christmas Creek Well No. 35-2
County Summit Section _____ Township _____ Range _____

Items Tested:

	Low Test	Time Held	High Test	Time Held	Comments
Top Pipe Rams	300	10min	5000	15min	ok
Bottom Pipe Rams					
Blind Rams					
Annular B.O.P.			2500		
Choke Manifold			5000		
Choke Line					
Kill Line					
Super Choke					
Upper Kelly					
Lower Kelly					
Floor Valve					
Dart Valve					

Closing Unit Psi 1500 Closing Time of Rams 7sec Closing Time of Hydril 17sec
Closed Casing Head Valve Set Wear Sleeve

Comments _____

POOR COPY

COMPANY

LEASE AND WELL NAME #

DATE TEST

RIG # AND NAME

ohio

CHRISTMAS CREEK 352

9/24/85

LOFFLAND # 60

ST# TIME

0630 ARRIVE ON LOCATION

0710 RIG UP TO TEST

1 710-735 TEST 1ST SET MANUALS IN MANIFOLD2 735-0805 TEST 2ND SET MANUALS3 0805-0835 TEST 3RD SET

0835-0900 RIG POOH

0900-1000 UP JOIT, CIRC. SUB, TIW, PART, PLUG, PULL WEAR RING, & SET PLUG

4 1000-1025 TEST BOTTOM PIPE RAMS, TIW, 4" MAN. BELOW BTM PIPES

5 1025-1055 TEST TOP PIPE RAMS, 1ST KILL, 4" MANUAL CHOKE, 2ND 4" MAN. BELOW BTM PIPES6 1055-1125 TEST TOP PIPE RAMS, 2ND KILL, HCR, WING KILL VALVE & PART VALVE

7 1125-1200 TEST HYDRIL, GAUGE VALVE, HAD TO WORK HYDRIL

8 1200-1230 PULL JT, TEST BLIND RAMS, VALVE & REBUILT VALVE ON CHOKE MANIFOLD

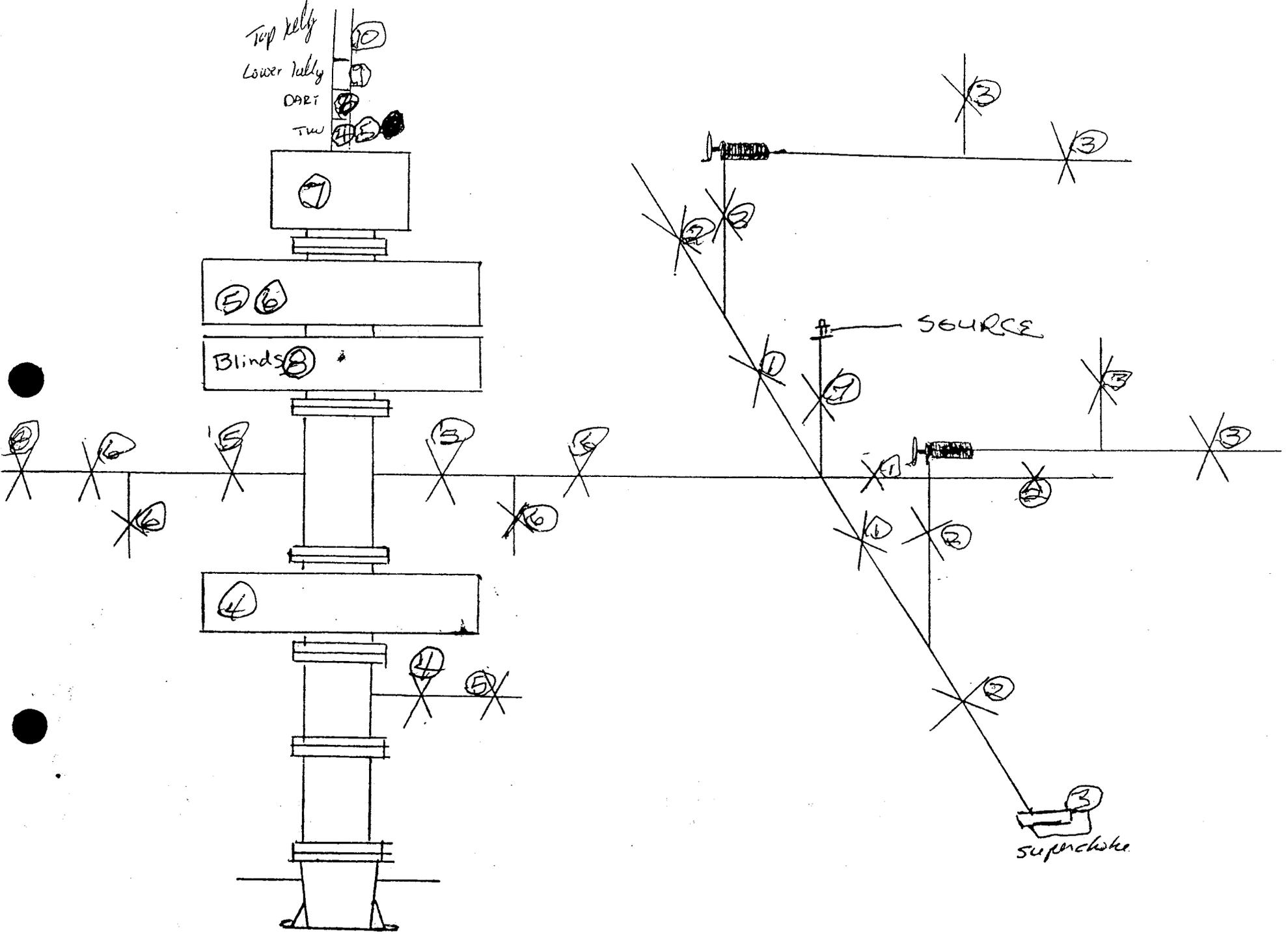
1230-1330 PULL PLUG, SET WEAR RING, TEST ACCUMULATOR SHUT DOWN POWER, CLOSE RAMS & HYDRIL RECORD TIME @ 24 SECS. TURN POWER ON, RECORD TIME @ 4 MIN TO BUILD PSI BACK TO 1500[#]: OPEN RAMS & HYDRIL CLOSE CSG HEAD VALVE & PICK UP KELLY & MAKE UP SUB.

9 1330-1355 TEST LHC

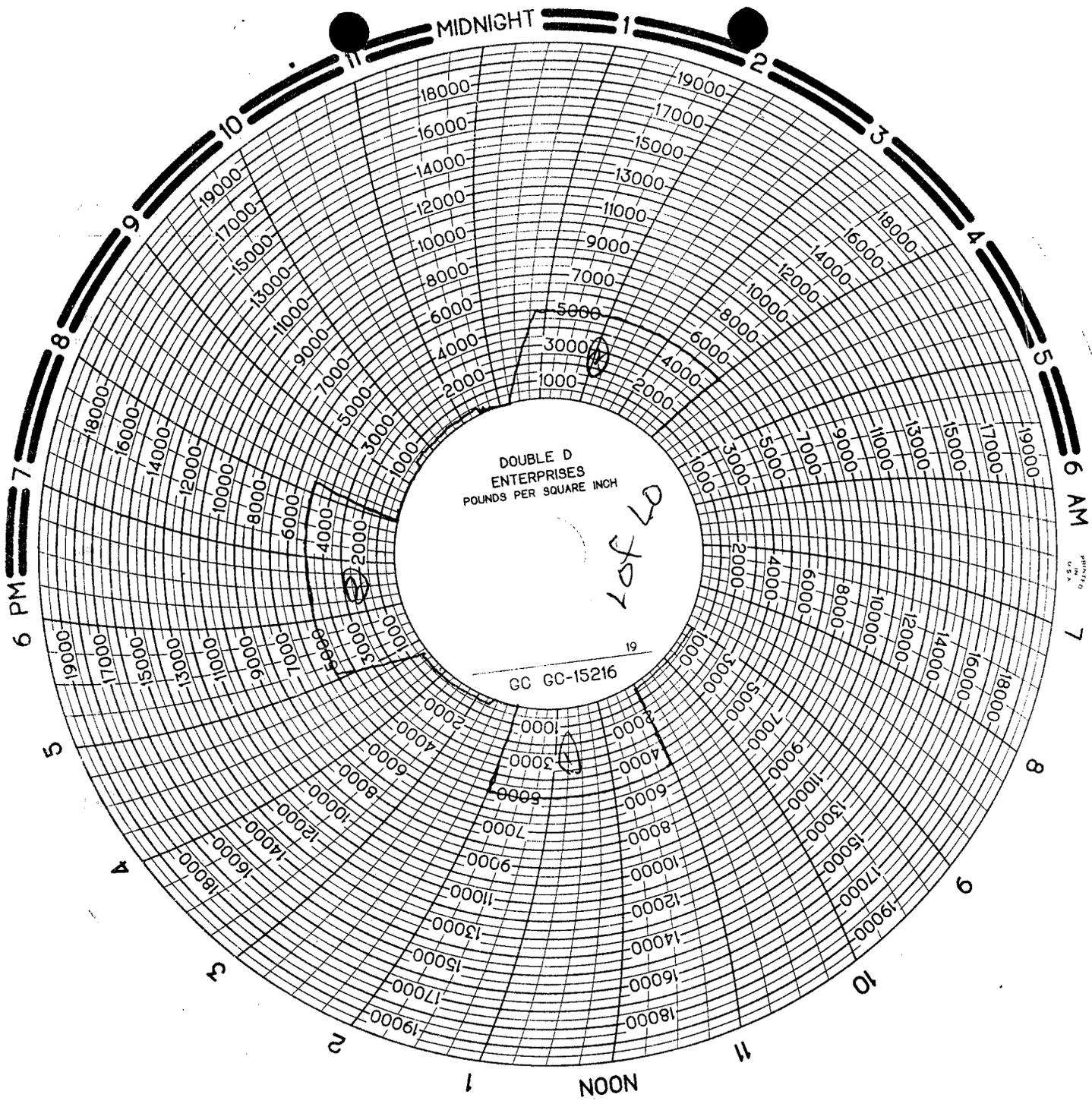
10 1355-1425 TEST UHC

1425 SPOOL UP, MAKE OUT TICKET & TRAVEL TO SHOP

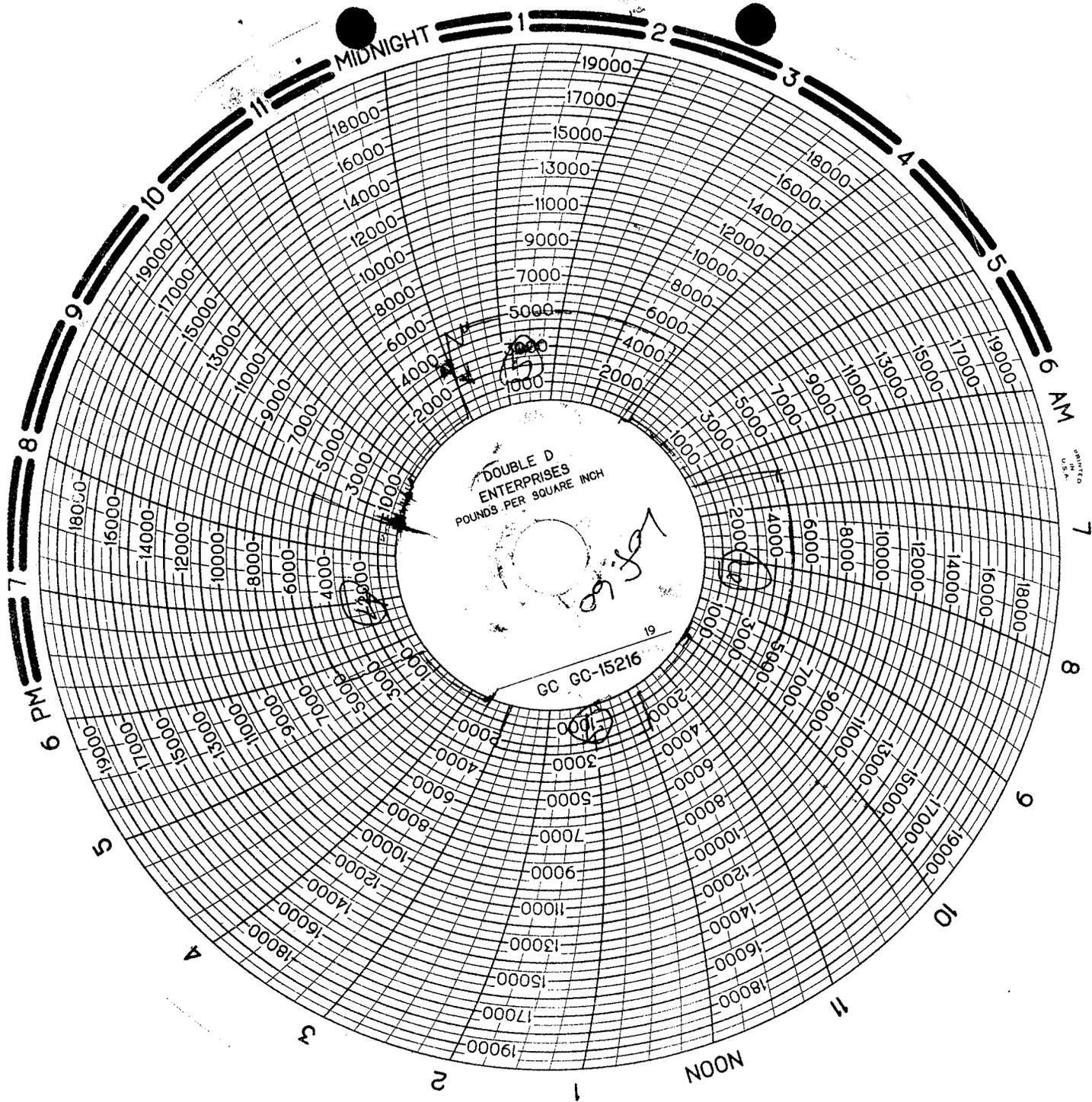
Top Kelly
Lower Kelly
DART
TW



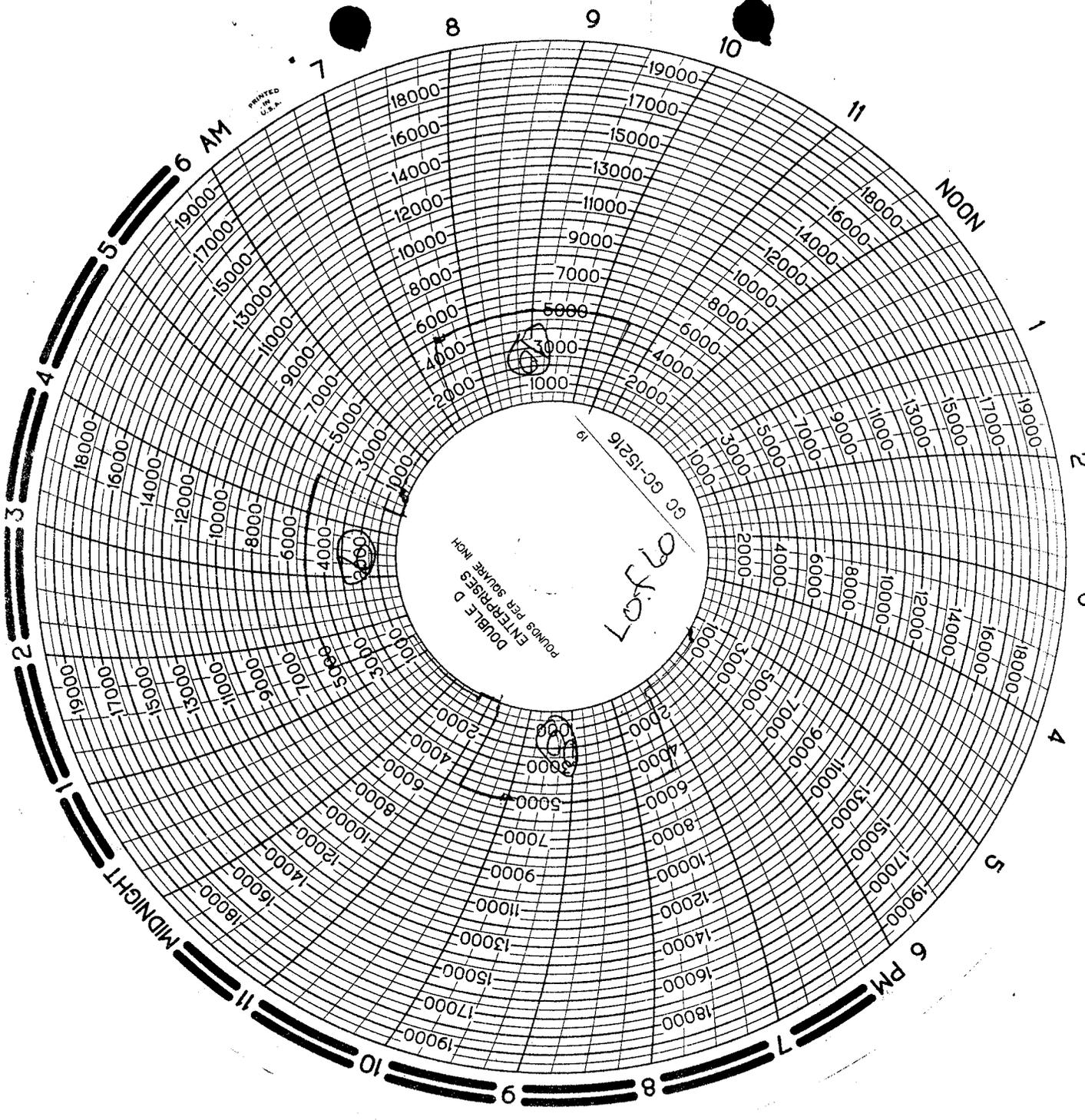
MIDNIGHT



PRINTED
IN
U.S.A.



PRINTED
IN
U.S.A.



DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

CG GC-15216

97307

(November 1984)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on re-
verse side)

Budget Bureau No. 1004-G135
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.)

RECEIVED

OCT 15 1985

DIVISION OF OIL
& GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface 2341' FEL, 1480' FSL, Sec. 26, T2N, R10E
At Proposed Prod. Zone:
1280' FNL, 2000' FEL, Sec. 35, T2N, R10E

14. PERMIT NO.
43-043-30276

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8912.5' GR

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
Christmas Creek II

8. FARM OR LEASE NAME
Christmas Creek

9. WELL NO.
35-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T2N, R10E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

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) Monthly Well History

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

Monthly Well History for the Weeks of September 14 - October 9, 1985

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

SIGNED W.H. Ward TITLE District Manager

DATE 10/10/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

DATE _____

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well History - Christmas Creek 35-2
Page 2

9/14/85
Depth 4893'. Drlg.

9/15/85
Depth 4952'. Drlg.

9/16/85
Depth 5233'. Drlg.

9/17/85
Depth 5432'. Drlg.

9/18/85
Depth 5713'. Drlg.

9/14/85
Depth 4893'. Drlg.

9/15/85
Depth 4952'. Drlg.

9/16/85
Depth 5233'. Drlg.

9/17/85
Depth 5432'. Drlg.

9/18/85
Depth 5713'. Drlg.

9/19/85
Depth 5846'. Circ for rig repair (SCR repair).

9/20/85
Depth 6017'. TOH for bit.

9/21/85
Depth 6139'. TIH.

9/22/85
Depth 6315'. Drlg.

9/23/85
Depth 6532'. Drlg.

9/24/85
Depth 6708'. POH to change bit.

9/25/85
Depth 6788'. Drilling.

9/26/85
Depth 6874'. Drilling.

9/27/85
Depth 6936'. Drilling.

9/28/85
Depth 7148'. Drilling.

9/29/85
Depth 7189'. TIH for DST #1.

9/30/85
Depth 7189'. Made 0'. TIH w/DST #2. DST #1 7189-7034, pkr. failed.

10/1/85
Depth 7189'. Made 0'. POH for DST #3. DST #2 7006-7189, pkr. failed.

10/2/85
Depth 7223'. Drilling. DST #3 6976-7189, pkr. failed.

CONFIDENTIAL

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
Christmas Creek II

8. FARM OR LEASE NAME
Christmas Creek

9. WELL NO.
35-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T2N, R10E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
Surface: 2341' FEL & 1480' FSL, Sec. 26, T2N, R10E
Subsurface: 1280' FNL & 2000' FEL, Sec. 35, T2N, R10E

14. PERMIT NO.
43-043-30276

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8912.5' GR

OCT 15 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	

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

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

It is requested that the following plugging procedure, which was given verbal approval by Mr. John Baza on 10/9/85, be given final approval:

1st Plug	7777-7500	(277')	Class 'G' + .2% D120
2nd Plug	5800-5600	(200')	Class 'G' + .2% D120
3rd Plug	2800-2600	(200')	Class 'G' + 1% D13
4th Plug	400-200	(200')	Neat Cement
5th Plug	0-50	(50')	Neat Cement

Exact cement volumes will be determined from caliper log interpretation.

Should any questions arise, please advise.

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

DATE: 10/10/85
BY: John R. Baza

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

SIGNED W.H. Ward TITLE District Manager DATE 10/10/85

(This space for Federal or State office use)

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

10/3/85

Depth 7363'. Drilling.

10/4/85

Depth 7403'. TIH w/new bit.

10/5/85

Depth 7503'. Survey broke line at rope socket. Att. fish surv. tool, no luck. POH.

10/6/85

Depth 7611'. Drlg.

10/7/85

Depth 7732'. Drlg.

10/8/85

Depth 7777'. Logging. Ran DLL/MSFL/GR 7758-322', running BHCS.

10/9/85

Depth 7777'. Made 0'. C&C for VSP.

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.	Fee
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	N/A
7. UNIT AGREEMENT NAME	Christmas Creek II
8. FARM OR LEASE NAME	Christmas Creek
9. WELL NO.	35-2
10. FIELD AND POOL, OR WILDCAT	Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	Sec. 35, T2N, R10E
12. COUNTY	Summit
13. STATE	Utah

RECEIVED

OCT 15 1985

DIVISION OF OIL, GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
Surface: 2341' FEL & 1480' FSL Sec. 26, T2N, R10E
Subsurface: 1280' FNL & 2000' FEL Sec. 35, T2N, R10E

14. PERMIT NO.
43-043-30276

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8912.5' GR

16.

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

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

(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.)*

Per approval from Mr. John Baza (State of Utah Oil, Gas and Mining Division), the Christmas Creek 35-2 was plugged and abandoned as follows:

1st Plug	7777-7500	(277')	Class G + .2% D120
2nd Plug	5800-5600	(200')	Class G + .2% D120
3rd Plug	2800-2600	(200')	Class G + 1% D13
4th Plug	400-200	(200')	Neat Cement
5th Plug	0-50	(50')	Neat Cement

Exact cement volumes along with a detailed formation top listing and bottom hole location will be included in final well report.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/18/85
BY: [Signature]

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

SIGNED [Signature] TITLE District Manager DATE 10/10/85
W.H. Ward

(This space for Federal or State office use)

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

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

OCT 17 1985

DIVISION OF OIL
GAS & MINING

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
Surface: 2341' FEL & 1480' FSL Sec. 26, T2N, R10E
Subsurface: 1280' FNL & 2000' FEL Sec. 35, T2N, R10E

14. PERMIT NO.
43-043-30276

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8912.5' GR

5. LEASE DESIGNATION AND SERIAL NO.
Fee

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N/A

7. UNIT AGREEMENT NAME
Christmas Creek II

8. FARM OR LEASE NAME
Christmas Creek

9. WELL NO.
35-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
Sec. 35, T2N, R10E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

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

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

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

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

Per approval from Mr. John Baza (State of Utah Oil, Gas and Mining Division), the Christmas Creek 35-2 was plugged and abandoned as follows:

- 1st Plug 7777-7500 200 sx. Class G + .2% D120
- 2nd Plug 5800-5600 158 sx. Class G + .2% D120
- 3rd Plug 2800-2600 158 sx. Class G + 1% D13
- 4th Plug 400-200 263 sx. Class G
- 5th Plug 0-50 40 sx. Class G

Well P&A 4:30 p.m., 10/10/85.
Location will be secured for the winter. Rehabilitation will be scheduled for 1986.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10/13/85
BY: John R. Baza

18. I hereby certify that the foregoing is true and correct
SIGNED W.H. Ward TITLE District Manager DATE 10/14/85
(This space for Federal or State office use)

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

- O+l: DOGM
- cc: BLM, Salt Lake
- T. Rooney
- Partners
- File

*See Instructions on Reverse Side



SOHIO PETROLEUM COMPANY
EXPLORATION AND PRODUCTION

P. O. BOX 30
CASPER, WYOMING 82602

RECEIVED

OCT 21 1985

October 18, 1985

WHW: 57

ID: 0721C

DIVISION OF OIL
GAS & MINING

Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Re: Confidentiality
Christmas Creek 35-2
Summit County, Utah
Surf Loc: Sec 26-2N-10E
BH Loc: Sec 35-2N-10E

Gentlemen:

It is requested that confidentiality be maintained for all information relating to this well for the maximum allowable period.

From this date on, all information will be appropriately marked prior to submittal to your office.

Thank you for your attention to this matter. If you have any questions, please contact this office.

Sincerely,

W.H. Ward
District Manager

jc

cc: T. Rooney
File

Form 1004-0135
(November 1983)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Budget Bureau 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.)

RECEIVED

OCT 21 1985

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P.O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any special conditions. See also space 17 below.)
At surface 2341' FEL, 1480' FSL, Sec. 26, T2N, R10E
At Proposed Prod. Zone:
1280' FNL, 2000' FEL, Sec. 35, T2N, R10E

14. PERMIT NO.
43-043-30276

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
8912.5' GR

5. LEASE DESIGNATION AND SERIAL NO.
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA

7. UNIT AGREEMENT NAME
Christmas Creek II

8. FARM OR LEASE NAME
Christmas Creek

9. WELL NO.
35-2

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 35, T2N, R10E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Monthly Well History

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

Well History for October 10-15, 1985

CONFIDENTIAL

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

SIGNED W.H. Ward TITLE District Manager DATE 10/18/85

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

*See Instructions on Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Well History - Christmas Creek 35-2
Page 3

10/3/85

Depth 7363'. Drilling.

10/4/85

Depth 7403'. TIH w/new bit.

10/5/85

Depth 7503'. Survey broke line at rope socket. Att. fish surv. tool, no luck. POH.

10/6/85

Depth 7611'. Drlg.

10/7/85

Depth 7732'. Drlg.

10/8/85

Depth 7777'. Logging. Ran DLL/MSFL/GR 7758-322', running BHCS.

10/9/85

Depth 7777'. Made 0'. C&C for VSP.

10/10/85

Depth 7777'. Made 0'. TIH OE.

10/11/85

Depth 7777'. P&A. RD RT. TIH/OE, spotted 200 sx G 7500-7777, 158 sx G 5600-5800, 158 sx G 2600-2800, 263 sx G 400-200, 40 sx G surf to 50. P&A 4:30 PM 10/10/85. Clean pits, ND BOP, Rig Rel 6 AM 10/11/85.

10/12/85

RDRT. Cut off wellhead & weld on flat plate on csg.

10/13/85

RDRT.

10/14/85

RDRT.

10/15/85

RDRT. FINAL REPORT.

CONFIDENTIAL

STATE OF UTAH

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

OIL & GAS CONSERVATION COMMISSION

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Christmas Creek II

FARM OR LEASE NAME

Christmas Creek

9. WELL NO.

35-2

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 35, T2N, R10E

12. COUNTY OR PARISH

Summit

13. STATE

UT

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

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

2. NAME OF OPERATOR
Sohio Petroleum Company

3. ADDRESS OF OPERATOR
P. O. Box 30, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2341' FEL, 1480' FSL, Section ²⁶ 26, T2N, R10E
At top prod. interval reported below N/A
At total depth 1350' FNL, 2517' FEL, Section 35, T2N, R10E

14. PERMIT NO. 43-043-30276 DATE ISSUED 7/31/85

RECEIVED
OCT 28 1985
DIVISION OF OIL
GAS & MINING

15. DATE SPUDDED 8/26/85 16. DATE T.D. REACHED 10/8/85 17. DATE COMPL. (Ready to prod.) 10/10/85 P&A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 8912.5' GR 19. ELEV. CASINGHEAD 8912.5'

20. TOTAL DEPTH, MD & TVD 7118' MD TVD; 7777' MD 21. PLUG, BACK T.D., MD & TVD -- 22. IF MULTIPLE COMPL., HOW MANY* -- 23. INTERVALS DRILLED BY -- ROTARY TOOLS XX CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN SP/DLL/MSFL/GR/BHCS/VSP/CNL/LDT/Dipmeter/Caliper 27. WAS WELL CORED Yes-Sidewall

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48#	322'	17-1/2	610 sx Cl G to surface	None

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)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

32. PRODUCTION

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

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

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

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

35. LIST OF ATTACHMENTS
NONE, Logs to be mailed separately.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED W. H. Ward W. H. Ward TITLE District Manager DATE 10/25/85

0 + 1: Utah DOGM *(See Instructions and Spaces for Additional Data on Reverse Side)
cc: BLM, Salt Lake
TR, File, Partners, G. P. Gilmore, Houston

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.)

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
DST # 1	7034	7189	Packer failed
DST # 2	7006	7189	"
DST # 3	6976	7189	"
Sidewall cores - two were recovered visually inspected - no information available			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Tertiary Alluvium Surface		
Ankarih	4580	±4227
Thaynes	5740	±5260
Woodside	6255	±5739
Dinwoody	6970	±6395
Phosphoria	7052	±6470
Weber	7654	±7006
TD	7777	±7118



SOHIO PETROLEUM COMPANY

TWO LINCOLN CENTRE - 5420 LBJ FREEWAY
SUITE #1000/LB 03
DALLAS, TEXAS 75240
214-387-5000

EXPLORATION & PRODUCTION
MID-CONTINENT DIVISION

November 6, 1985

State of Utah
Division of Oil, Gas & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED

NOV 13 1985

To whom it may concern:

DIVISION OF OIL
GAS & MINING

Enclosed are two copies of the logs for the Sohio Petroleum Company Christmas #35-2 well in Summit County, Utah to fulfill the State of Utah requirements.

Thank you,

Bruce S. Clardy
Bruce Clardy

*2N 10E #26
Confidential*

tlc

RECEIVED

DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION

NOV 15 1985

201 STATE OFFICE BUILDING
 SALT LAKE CITY, UTAH 84114
 533-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

DIVISION OF OIL
 GAS & MINING

STATE UTAH COUNTY SUMMIT FIELD/LEASE CHRISTMAS CREEK PROSPECT

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
 October 19 85

Agent's Address P.O. Box 30 Casper, WY 82602
 Company Sohio Petroleum Company
 Signed E.V. Dodson
 Title District Administrator
 Phone No. 307-237-3861

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	API NUMBER/REMARKS (If drilling, depth; if shut down, cause, date and result of test for gasoline content of gas)
NW SE 26	2N	10E	35-2		Drilling					SURFACE API # 43-043-30276 Spud Date 8-26-85 8:00 A.M. T.D. 7777' P.A. 10:15 A.M. 10-10-85 FINAL REPORT

GAS: (MCF)

Sold 0
 Flared/Vented 0
 Used On/Off Lease 0

OIL or CONDENSATE: (To be reported in Barrels)

On hand at beginning of month 0
 Produced during month 0
 Sold during month 0
 Unavoidably lost 0
 Reason: 0
 On hand at end of month 0

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. THIS REPORT MUST BE FILED IN DUPLICATE.

Note: The API number must be listed on each well.



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

August 14, 1986

Sohio Petroleum Company
P.O. Box 30
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Christmas Creek II Unit 35-2 - Sec. 35, T. 2N., R. 10E.,
Summit County, Utah - API #43-043-30276

According to the Well Completion Report dated October 25, 1986,
the above referenced well was cored.

Please submit a copy of the core analysis at your earliest
convenience, but not later than August 25, 1986, to the address
listed below.

Division of Oil, Gas & Mining
Attention: Norm Stout - Suspense File
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Respectfully,

Norman C. Stout
Administrative Assistant

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

0170S/6