

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED DATE*
(See instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

AUG 29 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK
 DIVISION OF OIL & GAS MINING

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

2. NAME OF OPERATOR
 Universal Oil & Gas, Inc.

3. ADDRESS OF OPERATOR
 4050 Youngfield Street Wheat Ridge, Colorado 80033

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: 573' FSL, 2140' FEL SW SE Sec. 12, T21S-R18E
 At proposed prod. zone: Same as above at Navajo formation

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 3 1/2 miles NW of Crescent Junction

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 573 FSL
 (Also to nearest drlg. unit lide, if any)

16. NO. OF ACRES IN LEASE
 80

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40

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

19. PROPOSED DEPTH
 5200'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GL 5463'

22. APPROX. DATE WORK WILL START*
 08/10/85

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|------------------------|
| 12 1/4" | 8 5/8" | 24# K-55 | 500' | Circulate to surface |
| 7 7/8" | 5 1/2" | 15.5# J-55 | 5200' | 1000' fillup (200 sxs) |

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 Jeffrey P. Kruger TITLE Jeffrey P. Kruger Vice-President DATE 7/22/85
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE Acting DISTRICT MANAGER DATE 23 AUG 1985
 APPROVED BY Gary L. Hansen TITLE _____ DATE _____

CONDITIONS OF APPROVAL ATTACHED
 FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A *See Instructions On Reverse Side SUBJECT TO RIGHT OF WAY APPROVAL
 DATED 1/1/80
 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.

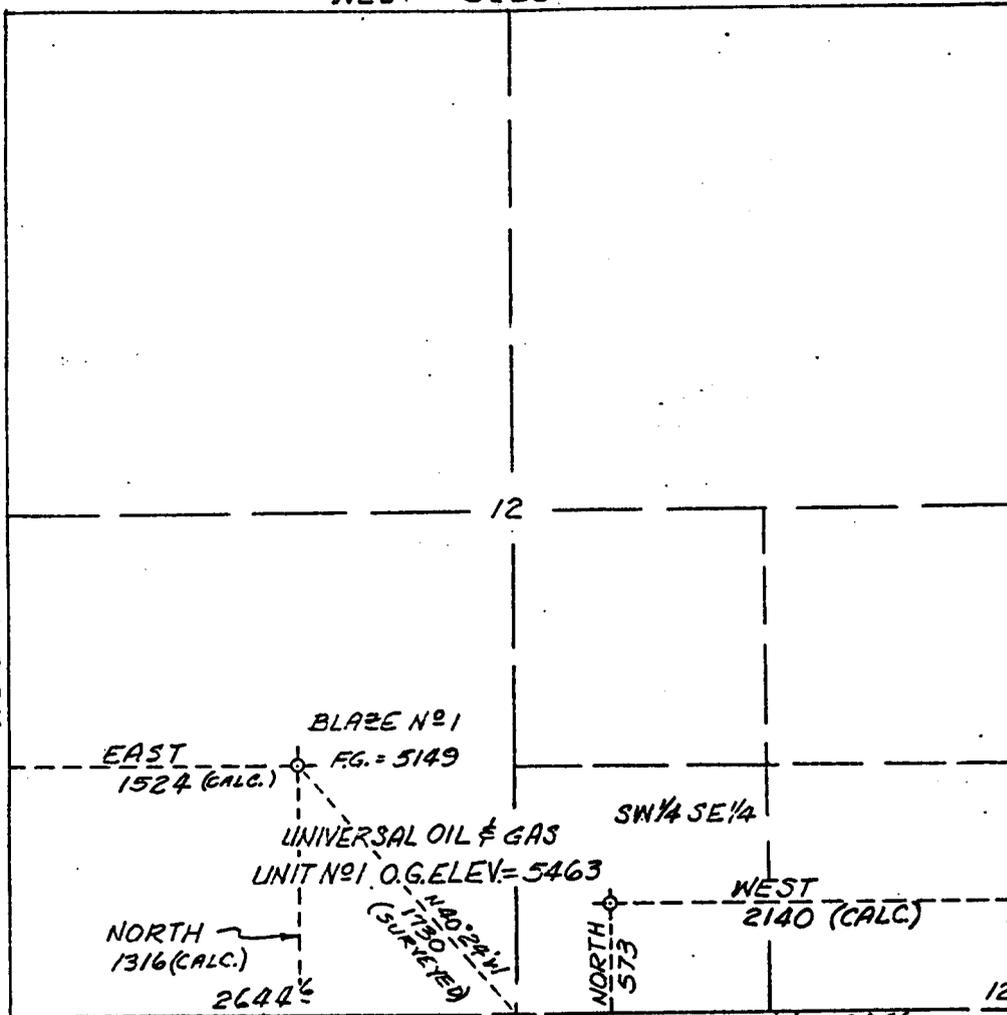
State of Utah DOG-M

R18E

WEST 5280

T
21
S

NO. 01' W 5280



0225 NORTH 5280

BEARING BASE: S. LINE, S.E. 1/4, SEC. 12 (N89°57'W)

EAST 1524 (CALC.)

BLAZE NO. 1
E.G. = 5149

UNIVERSAL OIL & GAS
UNIT NO. 1 O.G. ELEV. = 5463

SW 1/4 SE 1/4

WEST 2140 (CALC.)

NORTH 1316 (CALC.)

N40°24'W
1790
(SURVEY)

NORTH 575

2644.6

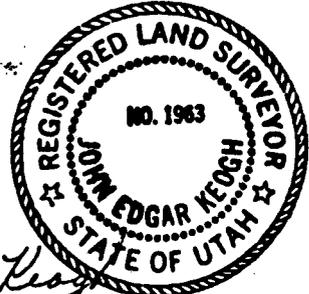
| | | |
|-----------------|----|---------|
| 12 | 7 | FD.B.C. |
| 13 | 18 | T 21 S |
| N89°57'W 2644.6 | | |
| MEAS. 2642.2 | | |

FD.B.C.
1/4 COR.

R18E | R19E

NOTE: SECTION BOUNDARY CALLS ARE RECORD

WELL LOCATION PLAT OF
 UNIVERSAL OIL & GAS UNIT NO. 1 IN
 SW 1/4 SE 1/4, SEC. 12, T21S, R18E, S.L.B. & M.
 GRAND COUNTY, UTAH
 TRANSIT & E.D.M. SURVEY FOR
 UNIVERSAL OIL & GAS, INC.
 SCALE: 1" = 1000' JUNE 21, 1985



John E. Keogh
 UTAH R.L.S. NO. 1963

ELEV. BY VER. ANGLES FROM U.S.G.S.
 TOPO. QUAD. CRESCENT JUNCTION, UTAH, 1958
 (SOUTH 1/4 COR., SEC. 12 = 5490)

Universal Oil & Gas, Inc.
Well No. Armstrong-Federal 12-1
Sec. 12, T. 21 S., R. 18 E.
Grand County, Utah
Lease U-56529

CONDITIONS OF APPROVAL

B. SURFACE USE PROGRAM

Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Produced waste water will be confined to a (lined/unlined pit for a period not to exceed ninety (90) days after initial production. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

| <u>Species</u> | | <u>lbs/acre</u> |
|-----------------------|--|-----------------|
| <u>Grasses</u> | | |
| Agropyron spicatum | Bluebunch wheatgrass | 1 |
| Hilaria jamesii | Galleta (Curlygrass) | 1 |
| Oryzopsis hymenoides | Indian ricegrass | 1 |
| <u>Forbs</u> | | |
| Melilotus officinalis | Yellow sweetclover | 1/2 |
| Medicago sativa | Alfalfa (Spreador II, Nomad, Ladak) | 1/2 |
| <u>Shrubs</u> | | |
| Ceratoides lanata | Winterfat (Whitesage) | <u>2</u> |
| | | 6 lbs/acre |

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

Your contact with the District Office is:

Greg Noble, Petroleum Engineer Office Phone: (801)259-6111

Home Phone: 259-8811

District Address:

82 East Dogwood, P.O. Box 970
Moab, Utah 84532

Your contact with the Grand Resource Area Office is:

JEFF ROBBINS Office Phone: (801)259-8193

Home Phone: 259-7964

Area Office Address:

Sand Flats Road, P.O. Box M
Moab, Utah 84532



Universal Oil & Gas, Inc.
4050 Youngfield Street Wheat Ridge, Colorado 80033

August 29, 1985

RECEIVED

SEP 04 1985

DIVISION OF OIL
GAS & MINING

Utah Oil and Gas Conservation Commission
4241 State Office Building
Salt Lake City, Utah 84114

Attention: Mr. Ronald J. Firth

Re: Application for Permit to Drill
Armstrong-Federal 12-1 Well
T21S-R18E Sec 12: SW/4SE/4
573' FSL 2140' FEL
Federal Lease U-56529

Dear Mr. Firth:

Universal Oil & Gas, Inc., hereby makes request for permit to drill to the state of Utah, on the referenced location.

As we reviewed by phone today, in lieu of your state application form are enclosed two copies of the complete federal application for permit to drill approved by the Bureau of Land Management on August 23, 1985.

Also attached are two copies of the State of Utah approved application for temporary water rights.

We anticipate moving on location as soon as approval is received from your office. If you see a need for additional information, please contact our Denver office at (303) 431-7467.

Very truly yours

UNIVERSAL OIL & GAS, INC.

Jeffrey P. Kruger
Jeffrey P. Kruger
Vice President

JPK:ki

encl.

REC'D JUL 29 1985

SUBMIT IN TRIP
(Other instructions on reverse side)

Rec'd MDO JUL 29 1985

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 GL 5463'

22. APPROX. DATE WORK WILL START*
 08/10/85

5. LEASE DESIGNATION AND SERIAL NO.
 U 56529 (Federal Lease)

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

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME
 Armstrong-Federal

9. WELL NO.
 12-1

10. FIELD AND POOL, OR WILDCAT
 Blaze Canyon *Undesignated*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 12, T21S R18E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

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APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 9/5/85
BY: John R. Day
WELL SPACING: C-3(B)

RECEIVED

SEP 04 1985

DIVISION OF OIL
GAS & MINING

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(This space for Federal or State office use)
 PERMIT NO. 43-019-31200 APPROVAL DATE _____

APPROVED BY [Signature] TITLE Acting DISTRICT MANAGER DATE 23 AUG 1985

FLARING OR VENTING OF GAS IS SUBJECT OF NTL 4-A DATED 1/1/80
 CONDITIONS OF APPROVAL ATTACHED

*See Instructions On Reverse Side

SUBJECT TO RIGHT OF WAY
APPROVAL

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.

Universal Oil & Gas, Inc.
Well No. Armstrong-Federal 12-1
Sec. 12, T. 21 S., R. 18 E.
Grand County, Utah
Lease U-56529

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JEFF ROBBINS Office Phone: (801)259-8193

Home Phone: 259-7964

Area Office Address:

Sand Flats, Road, P.O. Box M
Moab, Utah 84532

(Submit in triplicate to appropriate
BLM District Office)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DESIGNATION OF OPERATOR

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

STATE OFFICE: UTAH State Office - BLM
SERIAL NO.: U-56529

and hereby designates

NAME: UNIVERSAL OIL & GAS, INC.
ADDRESS: 4050 Youngfield Street
Wheat Ridge, Colorado 80033

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the authorized officer may serve written or oral instructions in securing compliance with the Operating Regulations (43 CFR 3160) with respect to (describe acreage to which this designation is applicable):

Grand County, Utah
Township 21 South, Range 18 East, SLM
Section 12: W/2SE/4
Containing 80.00 acres, more or less

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

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

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



(Signature of lessee)
James S. Jones
12137 West 54th Drive
Arvada, Colorado 80002

(Address)

July 30, 1985

(Date)

UT-060-3160-1
(April 1984)

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Universal Oil & Gas, Inc. Well No. 12-1
Location: Sec. 12 T. 21 S Lease No. U:56529
Onsite Inspection Date July 8, 1985

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

| | | | |
|----------|--------|------------------------|-------------------|
| Surface: | Mancos | 4475: | Carmel |
| 2192 | : | Stray Sand | 4600: Navajo |
| 3034 | : | Dakota Silt | 5200: Total Depth |
| 3222 | : | Dakota Sand | |
| 3385 | : | Morrison: Brushy Basin | |
| 3570 | : | Salt Wash | |
| 3985 | : | Summerville | |
| 4105 | : | Entrada | |
| 4475 | : | Carmel | |

2. Estimated Depth at Which Oil, Gas, Water, or Mineral-Bearing Zones Are Expected to Be Encountered:

| | <u>Formation</u> | <u>Depth</u> |
|-------------------------|--------------------|------------------|
| Expected oil zones: | <u>Navajo</u> | <u>4600-5200</u> |
| Expected gas zones: | | |
| Expected water zones: | <u>Dakota Sand</u> | <u>3222-42</u> |
| | <u>Entrada</u> | <u>4105-4457</u> |
| Expected mineral zones: | | |

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

- A) TYPE: BOP 11" - 3000# Shaffer Type E with double hydraulic gate preventers. (Exhibit A) All bolts will be installed and tightened. All lines, valves and fittings will have working pressure of 3000#. All crew members will be trained in BOP and accumulator operating procedures.
- B) Equipment will be pressure tested to 1000# prior to drilling out from under surface casing. BOP will be inspected and operated daily (and immediately after any repairs) to insure proper working order, and tested weekly.
- C) All ram-type preventers and related control equipment will be tested at the rated working pressure of the stack assembly, or at 70 percent of the minimum internal yield pressure of the casing, whichever is less. Annular type preventers will be tested at 50 percent of the rated working pressure. All tests must be done at the time of installation, prior to drilling out, and at least every (30) days.

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventors will be pressure-tested before drilling casing cement plugs.

4. Casing Program and Auxiliary Equipment:

| <u>DEPTH</u> | <u>HOLE SIZE</u> | <u>CASING SIZE</u> | <u>WT. (#/ft)</u> | <u>GRADE</u> | <u>CEMENT VOLUME</u> |
|--------------|------------------|--------------------|-------------------|--------------|-------------------------------------|
| 500' | 12 1/4" | 8 5/8" | 24 | K-55 | Class G- Circulate to Surface |
| 5200' | 7 7/8" | 5 1/2" | 15.5 | J-55 | 1000' fillup (4200') |

(See Casing Design Worksheet)

Anticipated cements tops will be reported as to depth, not the expected number of sacks. The Resource Area (will/ will not) be notified.

ARMSTRONG-FEDERAL 12-1

CASING DESIGN

Casing Size: 5 1/2" 15.5 #/ft. J-55 LT & C @ 5200'

Burst Resistance = 4810#

Collapse Resistance = 4040#

Joint Tension Strength = 217,000#

Expected Stresses:

Burst = Expected BHP

= 1900# (Based on DST of Blaze #1-A)

Burst Safety Factor = $\frac{4810}{1900}$ = 2.53

Collapse = .052 x ρ x D
= .052 x 9 lbs/gal x 5200' = 2434#

Collapse Safety Factor = $\frac{4040}{2434}$ = 1.66

Joint Tension Strength:

String Weight = 15.5 #/ft x 5200' = 80,600#

Joint Tension Strength Safety Factor = $\frac{217,000}{80,600}$ = 2.69

Based on the above calculations it is apparent that this casing string satisfies the minimum design criteria of Collapse (1.125), Burst (1.0) and Joint Tension Strength (1.8)

5. Mud Program and Circulating Medium:

0-500' Mud Weight: 8.5-9.2 ppg; Viscosity: 32-40
Drill w/Gel-Lime slurry adjusting w/Gel as needed
for hole cleaning. Use fiber & cottonseed hulls for
lost circulation.

500-5200' Mud Weight: 8.7-9.1 ppg;
Viscosity: 36-45; Fluid Loss: 8-10 cc; ph 9.0-9.5

Drill out surface casing with air. Switch to air
mist as required due to invasion of formation water.
Go to mud as needed due to deteriorating hole
conditions requiring additional hydrostatic head and
hole cleaning that can only be provided by a drill-
ing fluid. A complete mud system will be built into
the surface pits so it is available when needed.

A KCl/Gel system, 2-3% KCl, Gel as required for
needed viscosities, Drispac 1/2#/bbl (8 cc or less),
Caustic 1/4# bbl, or as required for a 9.0-9.5 pH,
will be used due to sensitive clays that will be
encountered.

Lost circulation problems will be countered using fibrous
and fairly coarse materials such as Fiber, Cottonseed
Hulls, and Multi-Seal. If this is not successful
the entire mud system will be treated with LCM in
percentages needed to maintain full returns. Mud weights
should be kept less than 9 ppg.

The monitoring equipment on the mud system will be the
mudloggers gas chromatograph.
Blooie line will be misted to reduce fugitive dust when air
drilling.

The following amounts of materials will be kept on
location:

200 sxs bentonite (Gel)
175 sxs LCM
50 sxs barite
15 sxs fluid loss additive
10 sxs caustic soda
100 sxs KCl
10 sxs soda ash
25 sxs dispersent

6. Coring, Logging, and Testing Program:

The well will be drilled to a total depth of
approximately 5200'. Dual Induction and CNL-FDC logs
will be run from TD to bottom of surface casing.

DST - Provisional for the Navajo formation and other shows.

Cores- No coring is anticipated.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cutting, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Abnormally high pressures and temperatures are not anticipated. Proper safety equipment will be installed prior to drilling out of surface casing. Crew members shall be instructed as to the use of the safety equipment prior to drilling out of surface casing. Bottom Hole pressures are not expected to exceed 2000#. See Exhibit G for H₂S contingency plan.

8. Anticipated Starting Dates and Notification of Operations:

The operator will contact the Grand Resource Area at (801) 259-8193, forty-eight (48) hours prior to beginning any dirt work on this location.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date (will/will not) be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this

well will be reported on Form 3160-6, Monthly Report of Operations", starting with the month in which operations commence and continue each month until this well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If the replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

Should the well be successfully completed for production, the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) business days following the date on which the well is placed on production.

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3260-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to

guideline in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows:

Steel pipe 10 feet in length, 4 inches in diameter, of which 4 feet shall be above ground level, the remainder being securely embedded in cement. The top of the pipe will be premanently sealed.

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable, "Well Number, location by 1/4 1/4 section, township and range". "Lease Number".

B. THIRTEEN-POINT SURFACE USE PLAN

APD for Armstrong-Federal 12-1:

Universal Oil & Gas, Inc. will assure that this APD will be posted in the doghouse of the drilling rig during the drilling of this well. Also, a sign will be posted at the entrance to the location with the name of the well, operator and location description. We will notify the BLM in Moab, Utah 48 hours prior to beginning any work on this land. Prior to starting surface construction operations, the dirt contractor shall have a completed approved copy of this APD.

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point:

3.5 miles in straight line northwest of Crescent Junction or 11 miles by road.

- b. Proposed route to location:

Access to (Armstrong-Federal 12-1) begins at Crescent Junction, Utah and proceeds along county road in a northwest direction for 7.3 miles. At that point will turn off of county road and proceed in a south to southwest direction for 3.4 miles to location. (Exhibit B)

- c. Plans for improvement and/or maintenance of

existing roads:

Road maintenance will be provided by Universal Oil & Gas, Inc. or a subcontractor. Maintenance will consist of periodic grading and repairs to the surface. During summer months, a watering program may have to be used to control dust. Rain and other inclement weather may require repairs to turnouts, waterbars, etc. Upgraded existing roads will be graded and maintained with bar ditches and water bars when required. Not over 20' will be cleared to upgrade any existing roads and we will maintain a 16' road surface except in tight turns and turnouts.

2. Planned Access Roads:

- a. The maximum total disturbed width will be 20 feet.
- b. thru g. Maximum grades:
10% except where we will go off of rim into canyon at drill site and there for two (2) short intervals of 100' and another of 225' the grade will be 16%. Also at these points we will be side cutting into the hill to make a flat bench and this will require more than 20' width and will be built to Class III road standards. Back slopes along the cut areas of the road will be 1 1/2% and terraced where needed. There are no fences encountered along the proposed access road. Road will be kept smooth, free of ruts, chuckholes, rocks, slides, etc. Shoulders will be straight with no berms. Materials for upgrading the existing roads will come from the immediate area of road and only native materials will be used. Material from cuts to be used in fills. No outside material will be used. If access road cannot be rehabilitated within 60 days from dismounting drill rig, BLM in Moab will be notified.

3. Location of Existing Wells:

EXHIBIT C

- A. Within a 2 mile radius of this proposed well there are 9 P & A Wells:

| <u>OPERATOR</u> | <u>WELL NAME</u> | <u>LOCATION</u> |
|--------------------|------------------|-------------------------|
| Phillips Petroleum | 3 Blaze A | T21S R18E Sec. 12 SW NE |

| | | |
|--------------------------|-----------------------|----------------------------|
| BWAB Inc. | 12-42 FEDERAL | T21S R18E Sec.12 SE NE |
| Colonial Oil | 1 GOVT. | T21S R18E SEC. 23 SW NE SE |
| Hamilton Bros. | | |
| Texas Gas Exploration | 1 Salt Valley NW Unit | T21S R18E Sec. 23 SE NW |
| Kanab Uranium | 1 Govt. | T21S R19E Sec. 7 SW SW |
| Oil Securities & Uranium | 2 Govt. | T21S R19E Sec. 7 SE SW SW |
| Oil Securities & Gas | 3 Govt. | T21S R19E Sec. 7 NW SW NE |
| Continental Oil | 1 Unit | T21S R19E Sec. 7 C NE NE |
| Phillips Petroleum | 1 Blaze-C | T21S R19E Sec. 17 SW SW |

B. Within a 2 mile radius of this proposed well there is 1 producing well:

| | | |
|---------------|-----------|-------------------------|
| Larry Brandly | 1 Blaze-A | T21S R18E Sec. 12 NE SW |
|---------------|-----------|-------------------------|

C. With the exception of the above mentioned wells, there are no:

1. Known water wells
2. Temporarily abandoned wells
3. Disposal wells
4. Monitoring or observation wells

Mr. Gardner from the State of Utah Water Rights board, informed me that there are no water wells within a 2 mile radius of this location.

4. Location of Tank Batteries and Production Facilities:

Universal does not request approval of surface production facilities at this time. Universal will submit a surface facility plan when well is proven to be commercial.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:

The water source will be from Floy Creek (by road 3.9 miles northeast of location), and will be purchased from Mr. Paul Allen. (Exhibit B) Mr. Gardner from the State of Utah Water Rights board is transferring Water Rights from Mr. Allens name to Universal Oil & Gas, Inc. for temporary use and granting us a temporary use permit.

6. Source of Construction Material:

No construction material will be used other than native materials. Material from cuts will be used in fills. (Exhibit D) No outside material will be brought in. The top 4" to 6" of topsoil will be stripped from pad and stored on the northwest side of pad.

7. Methods of Handling Water Disposal:

The reserve pit may need to be lined:

A mud reserve pit will be constructed for containment of drill cuttings as well as all drilling fluids and produced fluids. An inspection from BLM will determine whether or not and if so what kind of liner to use after the pit is dug. Produced waste fluids will be contained in a pit constructed in a chemical-type toilet. Three sides of the reserve pit will be fenced with three strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed and kept in good repair while the pit is drying. All trash will be contained and disposed of by using a trash cage and hauled from the location to an appropriate disposal site.

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

See Exhibits E & F

The reserve pit will be located on north side of pad

10. Plans for Restoration of Surface:

Surface vegetation stripped off during drill site preparation will be removed and stock-piled prior to topsoil removal. Upon abandonment vegetation will be redistributed as a mulching agent over the well site.

The reserve pit and that part of the location not needed for production operations will be reclaimed within 60 days after completion of the well.

The original surface will be reconstructed as close as possible upon abandonment. The stockpile of topsoil will be spread over the area. Any oil or deleterious liquids will be removed by a pump truck to an approved disposal area.

We will notify the Grand Resource area (BLM) at Moab, Utah (801-259-8193) 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

BLM will tell us required seed mixture when permits are issued. That is what we will use. This mixture will be drilled to a depth of 1/2".

11. Surface and Mineral Ownership

Federal Lease No. U:56529

12. Other Information:

There will be no deviation from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

A cultural resource clearance has been performed as required on July 15, 1985, and has been submitted direct to the BLM office in Moab by Mr. Larry Hammack, Archeologist. (See Exhibit H)

This permit will be valid for a period of one (1) year from date of approval. After permit termination, a new application will be filed for approval for any future operations.

It is Universal Oil & Gas, Inc.'s company policy that no Universal employees or subcontractors carry firearms on access roads nor onto the location during drilling or well completion operations of this well. No alcoholic beverages or drugs will be permitted on the Universal Oil & Gas, Inc. operations on this property.

All operators, subcontractors and vendors will be confined to established roads and wellsite.

The BLM in Moab will be notified of construction work, spud, suspended operations, resumption of operations, monthly report of operations, spills, blowouts, leaks,

etc.

Remarks:

All other working interest owners have been notified of the intent to drill the Armstrong-Federal 12-1. An operating agreement has been executed.

13. Lessee's Operator's Representative and Certification

I assure you this is all correct and that we will abide by all BLM rules and regulations to the best of my ability.

Representative:

Ron Scott
Universal Oil & Gas Inc.
4050 Youngfield Street
Wheat Ridge, Colorado 80033

Home Address

3365 West 35th Street
Greeley, Colorado 80634
(303)-330-2106

CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by: Universal Oil & Gas, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

7/23/85
Date

Jeffrey P. Krug Vice President
Name and Title

ONSITE

DATE: July 8, 1985

PARTICIPANTS:

TITLES:

Jeff Robbins

BLM

Ron Scott

Universal Oil & Gas-Operation Mgr.

Robert Kirgan

Consultant-Universal Oil & Gas

Jim Ward

BLM

Your contact with the District Office is: Greg Noble

Office Phone: 801-259-6111

City: Moab

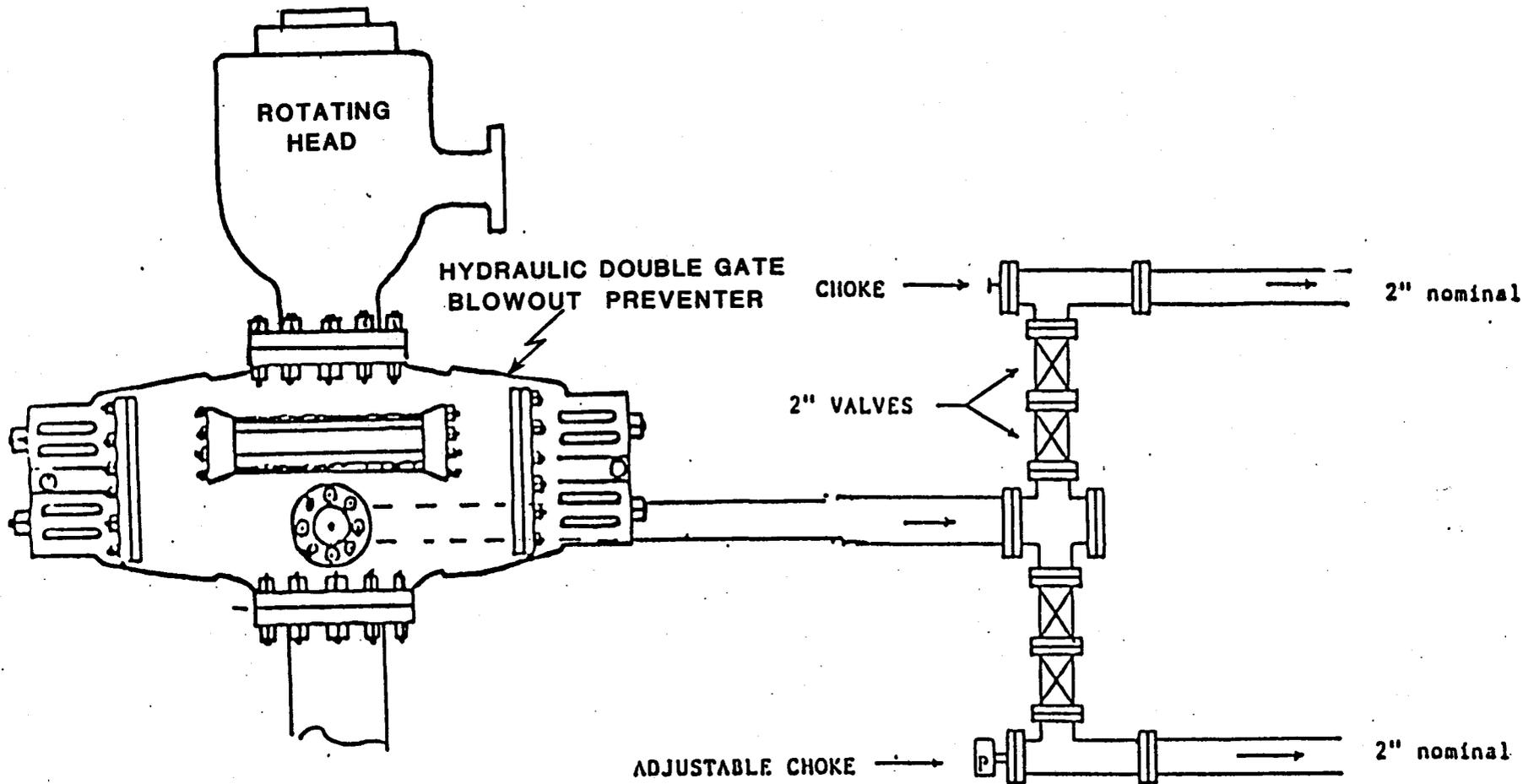
State: Utah

Resource Area Manager's address and contacts are:

Address: P.O. Box M Moab, Utah 84532

Your contact is: Jeff Robbins

Office Phone: 801-259-8193



**VECO DRILLING
RIG #2**

EXHIBIT "A"

UNIVERSAL OIL & GAS, INC.

11" 3000# B.O.P.

**ARMSTRONG-FEDERAL 12-1
SW/4SE/4 Section 12
T21S-R18E
GRAND COUNTY, UTAH**

R18E

R19E

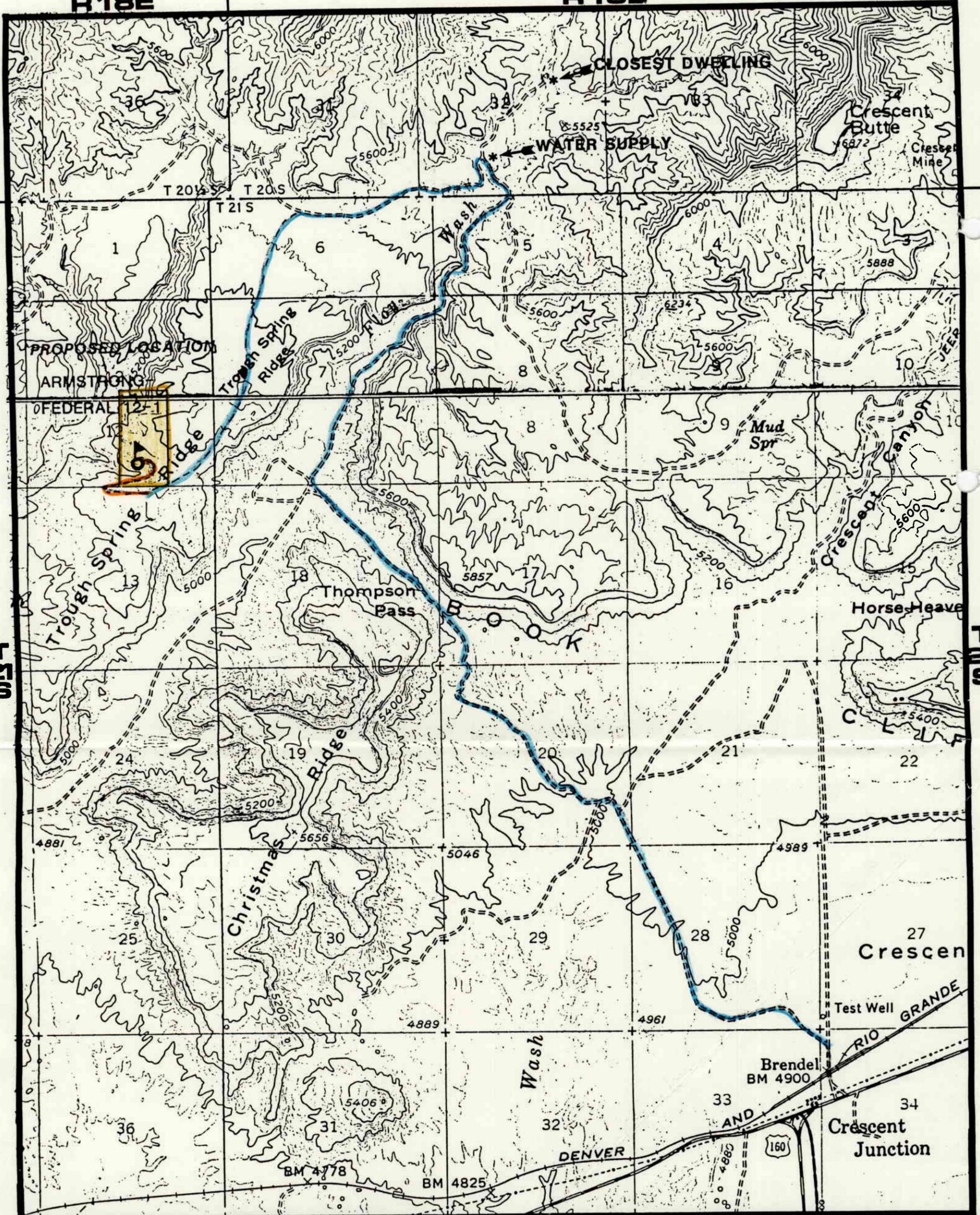
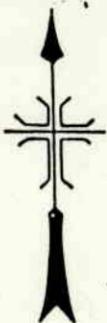


EXHIBIT "B"



UTAH



LEGEND

LEASE BOUNDARY
W/2SE/4 Sec. 12

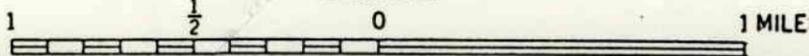


EXISTING ACCESS ROAD



PROPOSED ACCESS ROAD

SCALE



UNIVERSAL OIL & GAS, INC.

**ACCESS ROADS
&
WATER SUPPLY**

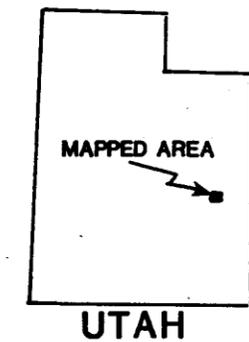
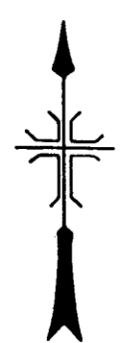
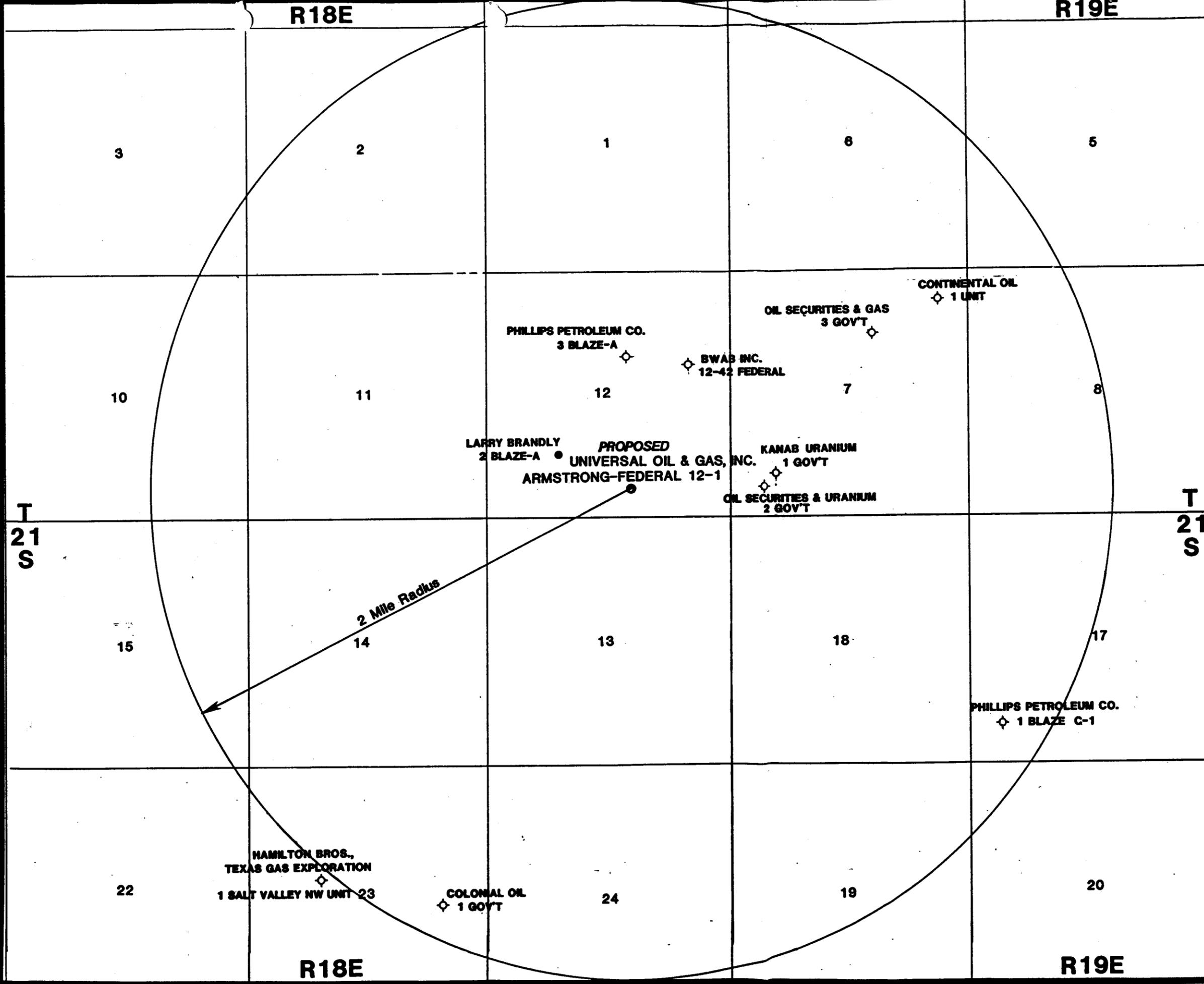
ARMSTRONG-FEDERAL 12-1

SW/4SE/4 Section 12

T21S-R18E

GRAND COUNTY, UTAH

July, 1985



SCALE: 1" = 2000'

EXHIBIT "C"

UNIVERSAL OIL & GAS, INC.
EXISTING WELLS
 IN TWO MILE RADIUS
 of
ARMSTRONG-FEDERAL 12-1
 SW/4SE/4 Section 12
 T21S-R18E
 GRAND COUNTY, UTAH

July, 1985

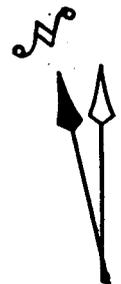
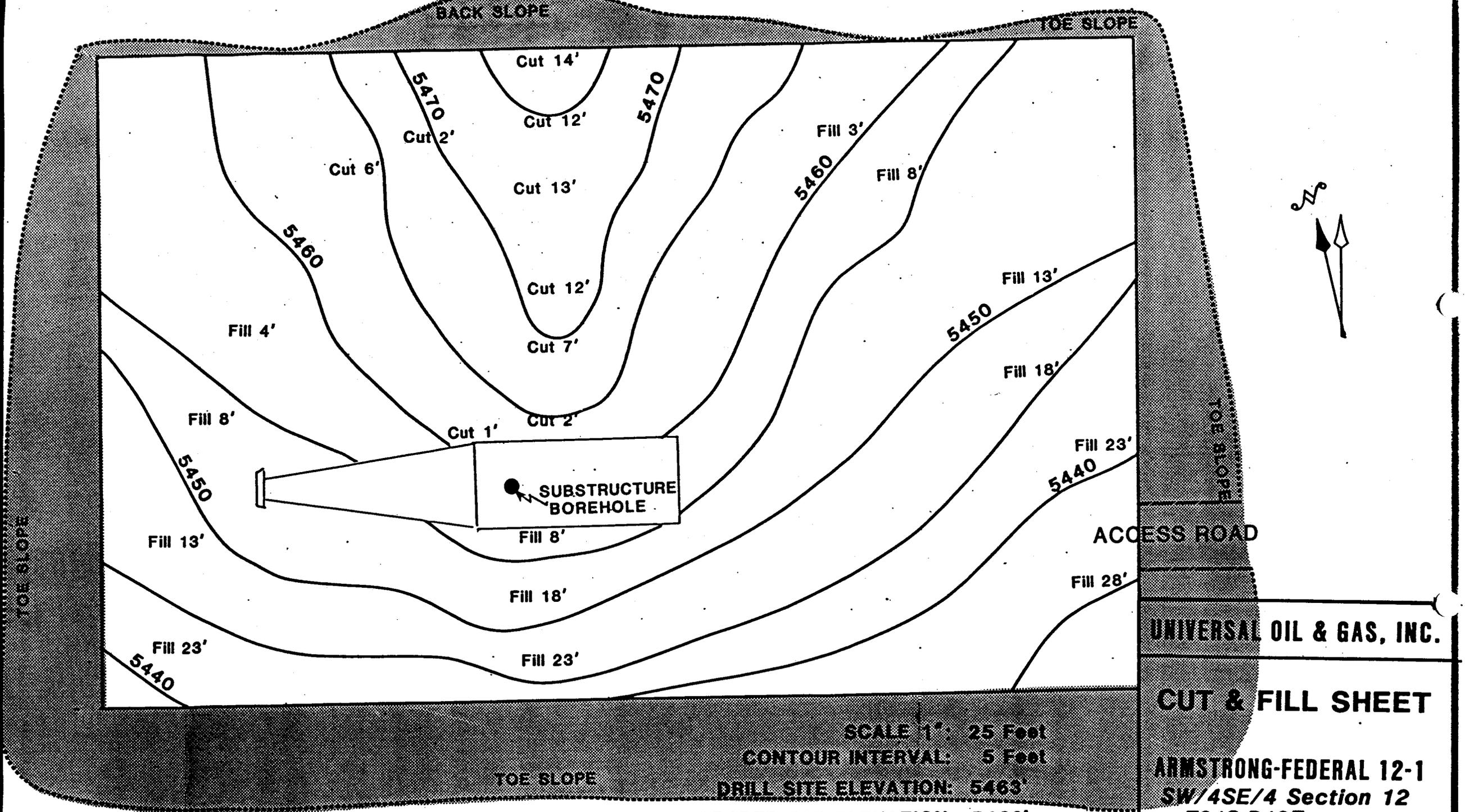


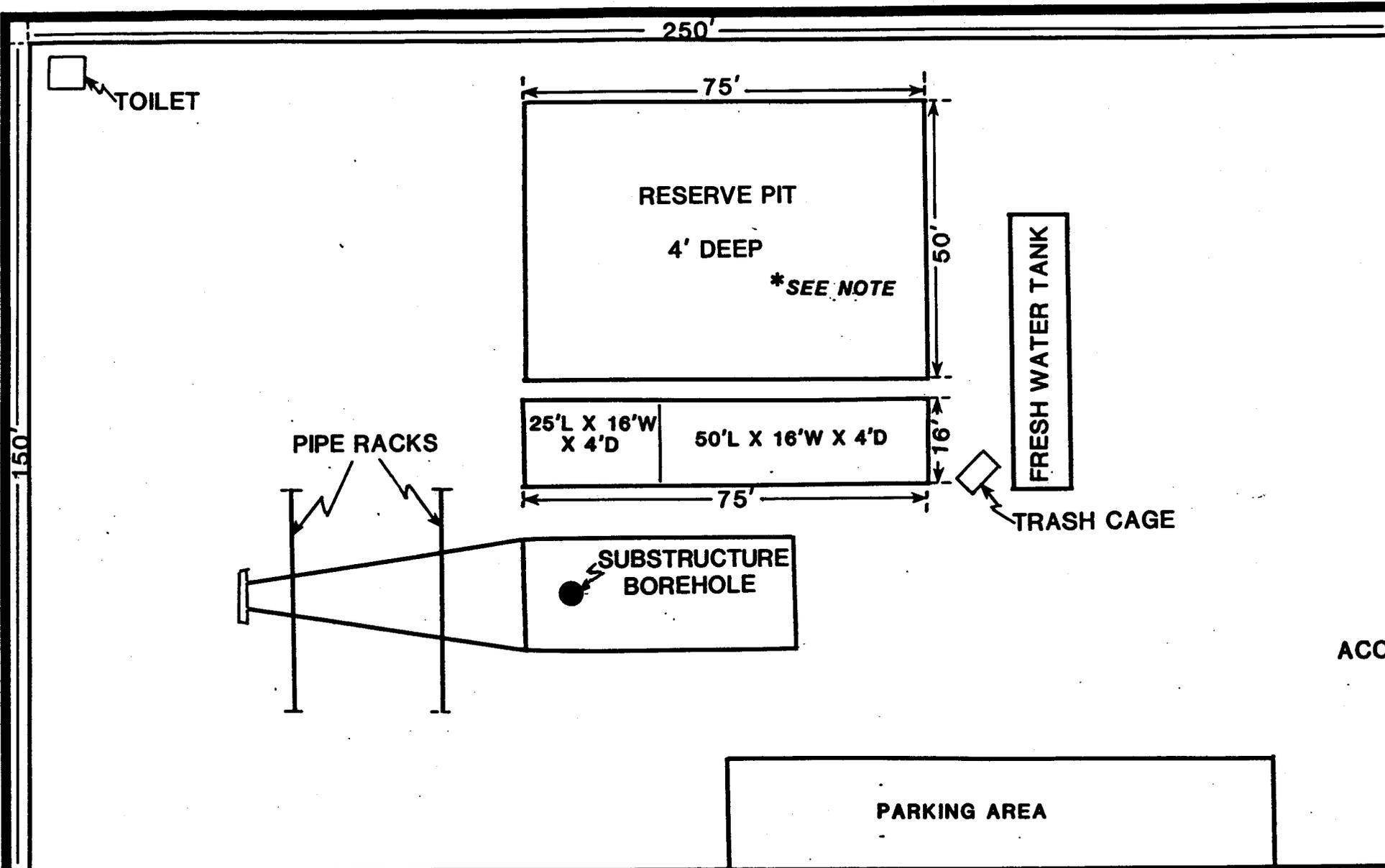
EXHIBIT "D"

SCALE 1" = 25 Feet
 CONTOUR INTERVAL: 5 Feet
 DRILL SITE ELEVATION: 5463'
 GRADED PAD ELEVATION: 5463'
 SLOPES: 1 1/2 TO 1

UNIVERSAL OIL & GAS, INC.

CUT & FILL SHEET

ARMSTRONG-FEDERAL 12-1
 SW/4SE/4 Section 12
 T21S-R18E
 GRAND COUNTY, UTAH
 July, 1985



ACCESS ROAD

UNIVERSAL OIL & GAS, INC.

DRILL PAD LAYOUT

ARMSTRONG-FEDERAL 12-1

SW/4SE/4 Section 12

T21S-R18E

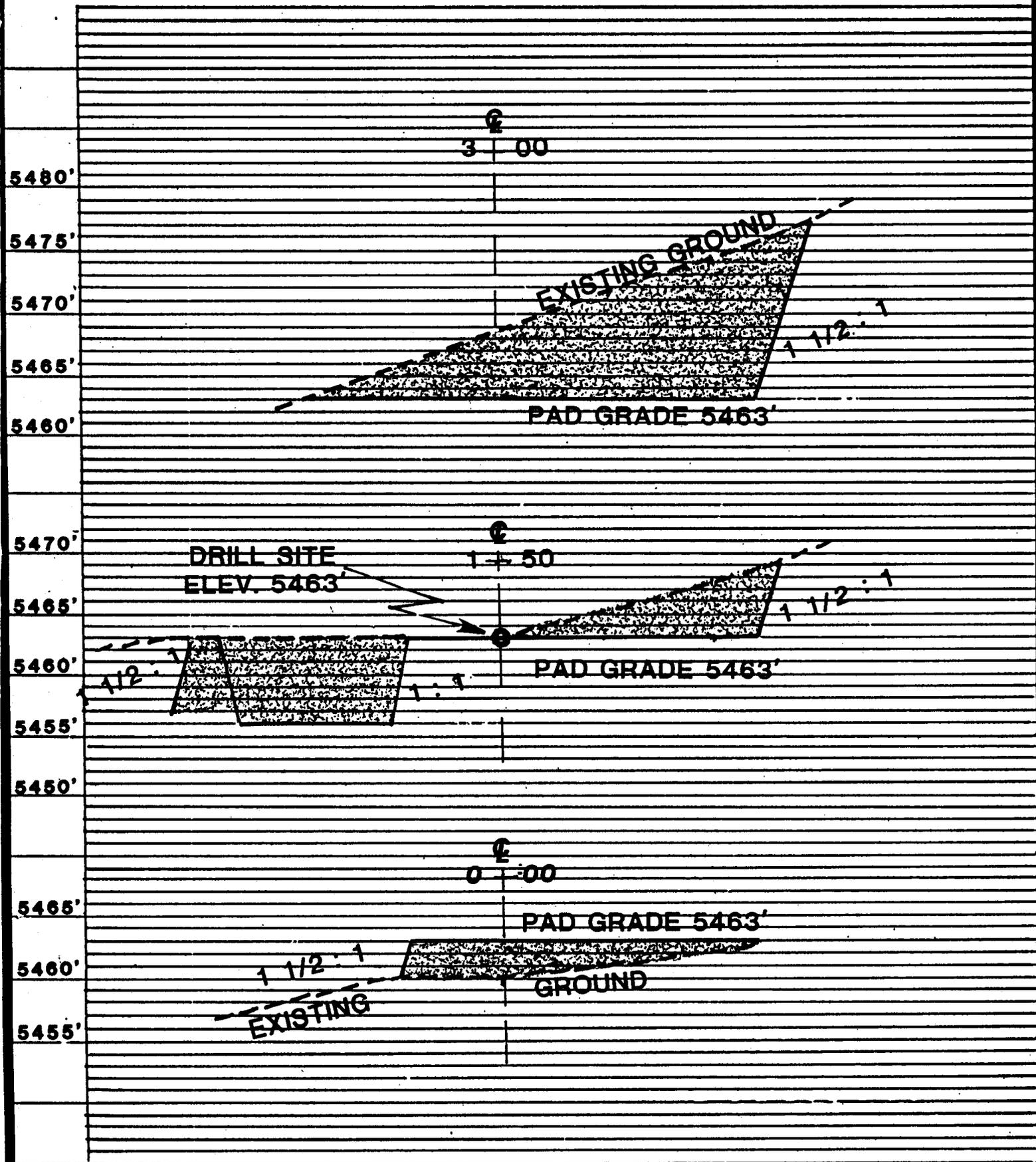
GRAND COUNTY, UTAH

July, 1985

SCALE: 1" = 25'

***NOTE:** Will use earthen pits if ground will allow excavating.
If rock is hit that would require blasting, will use steel tanks for pits.

EXHIBIT "E"



HORIZONTAL SCALE: 1" = 50'
 VERTICAL SCALE: 1" = 10'
 PAD GRADE: 5463'

EXHIBIT "F"

APPLICANT: UNIVERSAL OIL & GAS, INC.
 4050 Youngfield Street
 Wheat Ridge, Colo. 80033

UNIVERSAL OIL & GAS, INC.

CROSS-SECTION
 of
 DRILL PAD and RESERVE PIT

ARMSTRONG-FEDERAL 12-1

SW/4SE/4 Section 12
 T21S-R18E

GRAND COUNTY, UTAH

July, 1985

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

For BLM Use Only

BLM Report ID No. 1 4 10

Report Acceptable Yes No

Mitigation Acceptable Yes No

Comments: _____

1. Report Title DRILL NEAR CLIFF SCIENTIFIC JUNCTION ON UTAH

2. Development Company Universal Oil and Gas, Inc.

3. Report Date 7 17 1985
MONTH YEAR

4. Antiquities Permit No. 84-UT-54621

5. Responsible Institution CLASIA

County Grand

6. Fieldwork Location: TWN 21S Range 18E Section(s) 12 13
62 65 66 69 70 71 72 73 74 75 76 77

TWN 21S Range 19E Section(s) 6 7
78 81 82 85 86 87 88 89 90 91 92 93

7. Resource Area DR TWN 94 97 Range 98 101 Section(s) 102 103 104 105 106 107 108 109

PO= PONY EXPRESS, BR= BEAR RIVER, PR= PRICE RIVER, WS= WARM SPRINGS
BC= BOOK CLIFFS, HR= HOUSE RANGE, SE= SEVIER RIVER,
HM= HENRY MOUNTAINS, BE= BEAVER RIVER, DX= DIXIE
KA= KANAB, ES= ESCALANTE, SJ= SAN JUAN, GR= GRAND
SR= SAN RAFAEL, DM= DIAMOND MOUNTAIN,

Fill in spaces 65, 69, 81, 85, 97, 101 Only if:
V= Vernal Meridian
H= Half Township

8. Description of Examination Procedures:

10 acre well pad surveyed in series of transects spaced 15 meters apart centered on well stake.
Access road surveyed by walking zig-zag transect along staked centerline 10 meter (30 foot)
wide right-of-way

9. Linear Miles Surveyed 2 5 117
and/or

10. Inventory Type I
130

R= Reconnaissance
I= Intensive
S= Statistical Sample

Definable Acres Surveyed 1 9 1 123
and/or

* Legally Undefinable Acres Surveyed _____

(* A parcel hard to geographically locate i.e., center of section)

11. Description of Findings (attach appendices, if appropriate)

No cultural resources or isolated artifacts recorded

12. Number Sites Found: 0 131 135
No sites = 0

13. Collection: N Y=Yes, N=No
136

EXHIBIT H

14. Actual/Potential National Register Properties Affected:

None

UNIVERSAL & GAS, INC.

ARMSTRONG-FEDERAL 12-1

CULTURAL RESOURCES INSPECTION

15. Literature Search, Location/Date:

July 15, 1985 at Grand Resource Area Office, Moab

16. Conclusion/Recommendations:

Cultural Resource Clearance is recommended for well pad and access road

17. Signature of Administrator & Field Supervisor: Administrator [Signature]

Field Supervisor [Signature]

*For extra locationals use additional 8100-3 forms.

**Cultural Resource Inventory
of a proposed Oil Well Pad and Access Road
near Crescent Junction, Grand County, Utah**

by
**Laurens C. Hammack
Complete Archaeological Service Associates
7 North Park
Cortez, Colorado 81321**

prepared for
**Universal Oil & Gas
4050 Youngfield Street
Wheat Ridge, Colorado 80033**

submitted to
**Bureau of Land Management
Grand Resource Area
Moab District
Post Office Box M
Moab, Utah 84532**

**Antiquities Section
Division of State History
300 Rio Grande, Suite 210
Salt Lake City, Utah 84101**

**BLM Use Authorization Permit # 84-UT-54621
State of Utah Permit # 85-10
State Survey # U-85-10-514b**

July 17, 1985

Introduction

A cultural resource inventory of a proposed oil well location and access road northwest of Crescent Junction, Utah was undertaken on July 15, 1985 by Laurens C. Hammack of Complete Archaeological Service Associates (CASA). This inventory was done at the request of Ron Scott, Universal Oil and Gas, Inc. of Wheat Ridge, Colorado. This project was undertaken to fulfill requirements of applicable historic preservation legislation and Executive Order 11593. The work was accomplished under BLM Use Authorization Permit # 84-UT-54621 and State Antiquities Survey Permit # U-85-10-514b issued to CASA.

Prior to initiation of the field work a records search was undertaken at the Grand Resource Area Office, Moab, Utah and the State Historical Society, Antiquities Section, Salt Lake City Utah. No sites were recorded in the project area and there were no indications of previous cultural resource investigations.

Project Description and Location

The proposed oil well (12-1 Federal-Armstrong) is located approximately 4.9 miles northwest of Crescent Junction in the SW $\frac{1}{4}$, SE $\frac{1}{4}$ Section 12, T 21 S, R 18 E, Grand County, Utah. This location is on Trough Spring Ridge within the Book Cliffs (Figure 1). The location plat for the well, the access road alignment, and a complete description of the well and its' environmental situation is provided in the following pages.

Survey Methodology

The well location and access road had been well staked prior to the inventory. These locations had been tentatively approved by the BLM during the on site inspection during the previous week. A 10 acre parcel surrounding the well pad and a 30 foot wide right-of-way for the access road was inventoried. The well pad area was inventoried in a series of parallel transects spaced approximately 15 meters apart utilizing the well stake as the mid-point of the survey area. Portions of the survey area included steep cliff faces and canyon drop-offs as the well is placed on a relatively level but narrow shelf positioned midway between the top of Trough Springs Ridge and the bottom of an unnamed canyon which is a minor tributary to Floy Wash.

Survey Results

The intensive survey of the well pad and access road located no cultural resources or isolated artifacts. Five small waste flakes of white chalcedony were observed in washed bedrock locations along the access road. Recent use is indicated by campfire circles and a scatter of modern trash.

Recommendations

Cultural Resource Clearance is recommended for the Universal Oil and Gas, Inc. well and access road as described in this report.

Well Description

Well Name: Universal Oil and Gas, Inc. 12-1 Federal Armstrong

Legal Description: SW¼,SE¼,Section 12, T 21 S, R 18 E, Grand County, Utah

Measured Location: 2140 feet from east line,573 feet from south line (Figure 2)

UTM: Zone 12, E 596925/N 4316600 (well pad)
Zone 12, E 597200/N 4318850 (northern end, access road)

Map Reference: USGS Crescent Junction, Utah 15 minute, 1958 (well pad)
USGS Floy Canyon, Utah 15 minute, 1963 (access road)

Elevation: 5463 feet at well pad

Area Surveyed: 10 acres surrounding staked well pad location. Access road of 2.5 miles which follows existing trail road from graded exploration road to approximately 1/2 mile from well pad where entirely new road will be required (Figure 3). Total acreage surveyed for access road is 9.10.

Description Well Pad: Well pad is positioned on level shelf between steep cliff face on north and steep drop-off to south into shallow canyon which drains into minor tributary of Floy Wash. Sandstone bedrock outcrops throughout pad area. Vegetation consists of scattered Utah juniper along the canyon rim along with mormon tea, rabbitbrush, snakeweed, blackbrush, prickly-pear cactus, and indian rice grass. Sandy soil covers most of area except in bedrock locations. Angular sandstone fragments are present throughout proposed pad area. Access Road: Access road will enter pad from east side, following along the sandstone shelf as shown in Figure 3. A construction width of 16 feet will be required except in side hill locations where additional area will be required. Once out of the canyon the road will meet an existing trail road which will be followed to the junction as shown on the map. The road generally follows the east edge of Trough Springs Ridge. Vegetation is similar with the addition of sagebrush along the northern portion of the access road.

Cultural Resources" No cultural resources were recorded within the wellpad or along the proposed access road with the exception of five waste flakes of white chalcedony on bedrock locations along the road alignment.

Recommendations: Cultural Resource Clearance is recommended for 12-1 Federal Armstrong well location and access road.

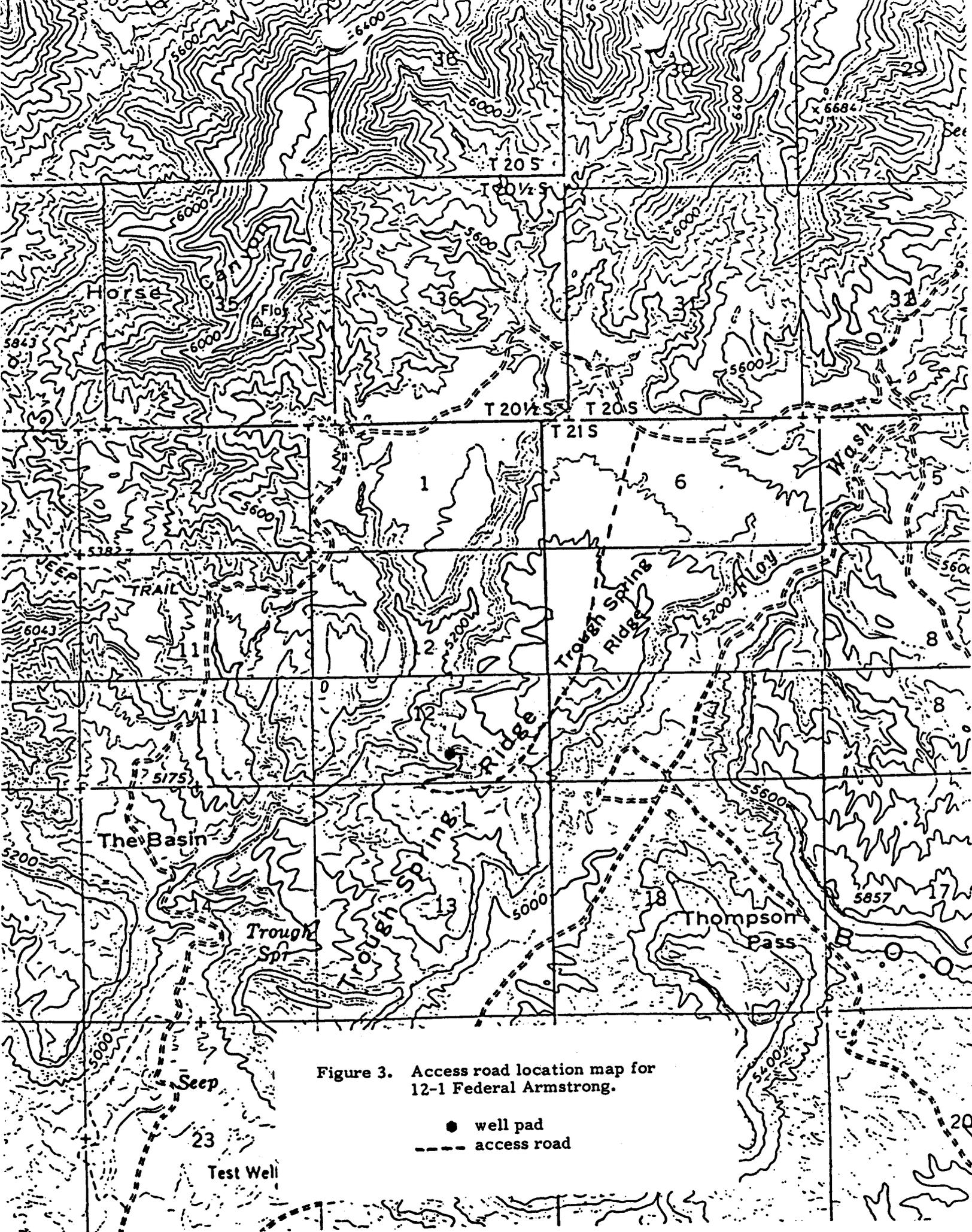


Figure 3. Access road location map for 12-1 Federal Armstrong.

- well pad
- access road

191517-DJG CONY.

OPERATOR Universal Oil & Gas DATE 9-4-95

WELL NAME Armstrong - Federal 12-1

SEC SW SE 12 T 21S R 18E COUNTY Grand

43-019-31200
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Water OK # 85-92-11

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

c-3-a _____ CAUSE NO. & DATE

c-3-b

c-3-c

STIPULATIONS:



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

453 South Carbon Avenue • P.O. Box 718 • Price, UT 84501 • 801-637-1303

8/5/85

August 2, 1985

Paul B. Allen
P.O. Box 537
Hotchkiss, Colorado 81419

Re: Temporary Change Application No. 85-92-11
Federal #12-1 Armstrong Well

Dear Mr. Allen:

The above referenced Temporary Application has been approved and a copy is enclosed for your records and information.

Please feel free to contact me if you have any questions.

Sincerely,

Mark P. Page, Area Engineer
for Robert L. Morgan, State Engineer

cc: Universal Oil and Gas Company
Attn: Ron Scott
4050 Youngfield Street
Wheatridge, Colorado 80033

RLM/MPP/mjk

RECEIVED

JUL 15 1985

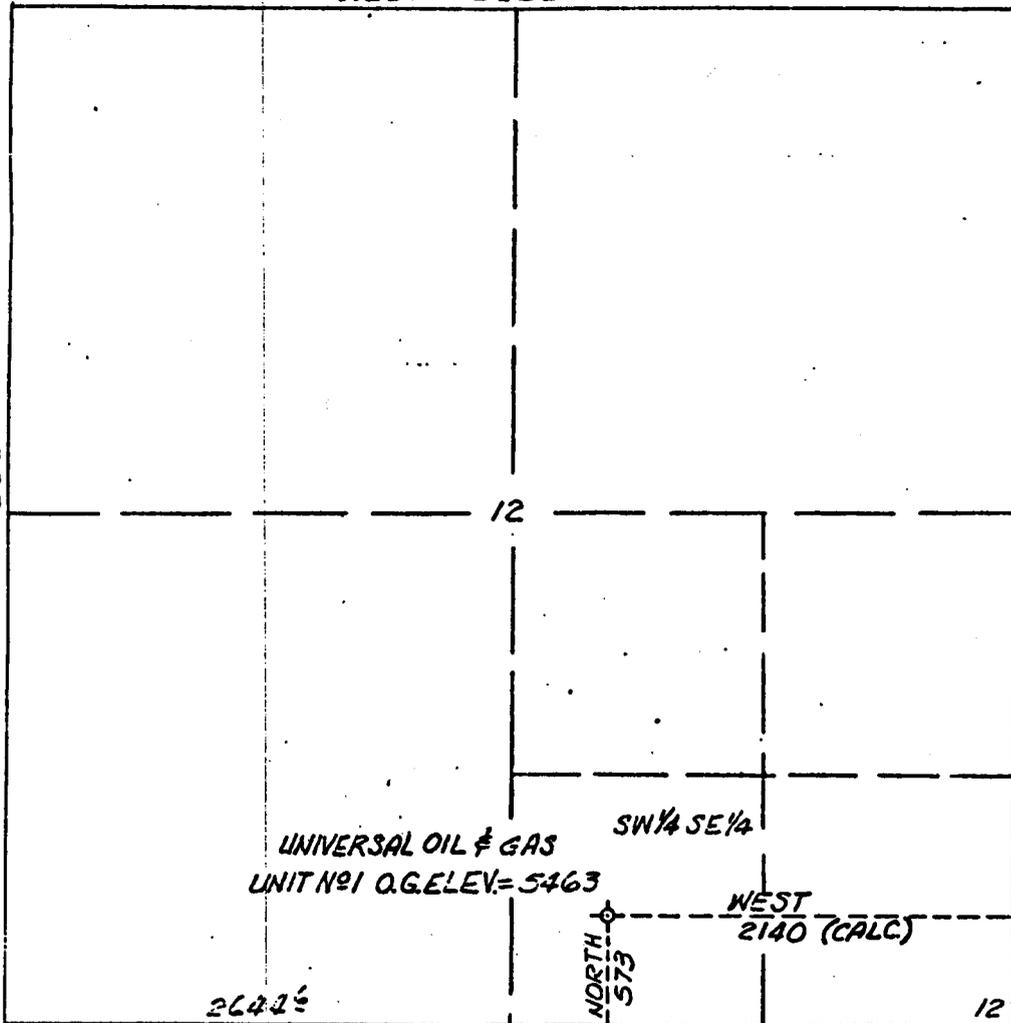
WATER RIGHTS
PRICE

R18E

WEST 5280

T
21
S

N0°01'W 5280



BEARING BASE: S. LINE, S.E. 1/4, SEC. 12 (N89°57'W)

UNIVERSAL OIL & GAS
UNIT NO 1 O.G. ELEV. = 5463

SW 1/4 SE 1/4

WEST
2140 (CALC.)

NORTH
573

26445

FD. B.C.
1/4 COR.

N89°57'W 26445
MEAS. 26422

12 7 FD. B.C.
13 18
T 21 S

NOTE: SECTION BOUNDARY CALLS ARE RECORD

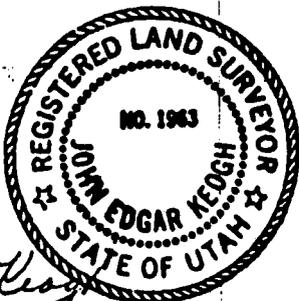
R18E | R19E

WELL LOCATION PLAT OF
UNIVERSAL OIL & GAS UNIT NO 1 IN
SW 1/4 SE 1/4, SEC. 12, T 21 S, R 18 E, S. L.B. # M.

GRAND COUNTY, UTAH

TRANSIT & E.D.M. SURVEY FOR
UNIVERSAL OIL & GAS, INC.

SCALE: 1" = 1000' JUNE 21, 1985



John E. Kedgh
UTAH R.L.S. NO. 1963

ELEV. BY VER. ANGLES FROM U.S.G.S.
TOPO. QUAD. "CRESCENT JUNCTION, UTAH," 1958
(SOUTH 1/4 COR., SEC. 12 = 5490)

EXHIBIT "G"

H₂S CONTINGENCY PLAN

OPERATING PROCEDURES

GENERAL

Before this H₂S Contingency Plan becomes operational, the Drilling Contractor's personnel, necessary service company personnel, and operators personnel shall be thoroughly trained in the use of breathing equipment, emergency procedures, responsibilities, and first aid. The Operator shall keep a list of all personnel who have been through the special training programs on the drill site.

All personnel shall be given a copy of the "Danger H₂S Safety Equipment and Personal Safety" pamphlet. This report summarizes the steps to be taken during the two conditions under which the well may be drilled. It lists general information about toxic gases, explains the physiological effects of H₂S classified operating conditions and informs each reader of his general responsibilities concerning safety equipment and emergency procedures. The Company Drilling Foreman shall keep a list of all persons that have read the report and verify they have read it and understand it thoroughly.

All personnel, without exception, when coming on the drill site must proceed directly to the Company Drilling Foreman for assignment of breathing apparatus and to be assured that he has a breathing apparatus. An Instruction and orientation briefing will also be held, if needed.

Upon coming on the drill site, each person shall also pick up a copy of the "Danger H₂S Safety Equipment and Personal Safety" and verify that he has read it by signing the last page. The signed page should be forwarded to the Company Drilling Foreman, or his designated Representative.

PRIOR TO DRILLING OUT OF THE INTERMEDIATE CASING

A list of emergency stations and phone numbers of personnel to be contacted will be sent to the rig and should be posted at the following places:

1. Company Drilling Foreman's Office
2. Drilling Contractor's Toolpush Office

PRIOR TO DRILLING OUT OF THE INTERMEDIATE CASING

All safety equipment and H₂S related hardware must be set up as required by the Company Operating the Well. (Such as, Location of Briefing Areas, Breathing Equipment, etc.) All Safety Equipment must be inspected routinely paying particular attention to resuscitators and breathing air facilities. Watch out for leaks resulting in frequent bleeding from breathing air facilities.

PROCEDURE PROGRAM

SAFETY PROGRAM

A. DRILL SITE

1. The drilling rig will be located to allow prevailing winds to blow across the rig toward the reserve pit.
2. Brief stations will be provided with a safety equipment trailer at one or more stations. Personnel will assemble at the most upwind station under alarm conditions, or when so ordered by the Drilling Foreman or the Safety Representative. A wind sock or streamer will be anchored to the trailer.

A second streamer will be anchored at the end of the catwalk on a pole about 30' high so as to be in easy view of the rig floor and visible at night.

A separate supply of air cylinders must be located at the opposite side of location than the Safety Unit.

3. Warning signs will be posted on the access road to the location. "NO SMOKING" signs will be posted.
4. One automatic H₂S monitor will be provided by the Safety company and the detector will be at the shale shaker. Another automatic detector will be on the rig floor monitoring either on the rig floor or in the logging unit. Should the alarm be shut off to silence the siren, the blinker light must continue to warn of H₂S presence. The safety representative will continuously monitor the detector and will reactivate the alarm if H₂S concentrations increase to a dangerous level.
5. An escape road will be provided. It is to be used only in an emergency.
6. Do not permit sleeping in cars on location. Maintain a parking area remote from the location preferable on the predominate upwind side of the site.
7. Explosion proof electric fans (bug blowers) will be positioned to insure adequate circulation at all critical locations.
8. Commercial telephone service will be provided, if available.
9. A rig intercommunication system will be provided.
10. A gas trap, choke manifold and degasser will be installed.
11. A kill line, securely anchored and of ample strength will be laid to the well-head from a safe location. This line is to be used only in an emergency.

B. GENERAL

1. A safety advisor will be available. It will be his duty to conduct safety meetings and training sessions and to be certain all safety equipment needed is installed and operative.
2. A Drilling Foreman and a Contractor's Foreman will be required on location and awake at all times. The Drilling Foreman on duty will have complete charge of the rig operation and will take whatever action is deemed necessary to insure personnel safety, to protect the well, and to prevent property damage.
3. A mud engineer will be on location at all times when drilling at the depth H2S may be expected.

H2S EMERGENCY PROCEDURES

The emergency procedures outlined in this section will be implemented under the following operating conditions:

CONDITION: EXTREME DANGER TO LIFE

If, at any time as much as 10 ppm of H2S is detected, the following steps shall be taken.

1. Driller shall shut down mud pumps and put his mask on.
2. The following personnel shall immediately put on their breathing equipment with the mask.
 - a. All personnel on the rig floor
 - b. All personnel at the mud pits, and
 - c. All personnel required to work below and down wind of rig floor.
3. Notify the Company Drilling Foreman and the Toolpusher that you have H2S on your monitoring system.
4. The mud engineer shall run sulfide determination on the flowing mud.
5. Immediately begin to ascertain the source of the H2S and take steps to suppress the H2S. Drilling will not proceed until the source is determined and the well is circulated. Rig floor and mud pit personnel will keep breathing equipment on while monitoring this circulation.
6. The Supervisors shall make sure all non-essential personnel are out of the potential danger area, mud pit area, mud shack, etc. All persons who remain in potential danger area must utilize the "Buddy System".
7. Have all personnel check their safety equipment to see that it is working properly and in proper location.

8. Check all gas monitoring devices and increase gas monitoring activities with the portable hand operated H₂S and Gas Detector Units.

DO NOT PANIC

The Company Drilling Foreman will assess the situation and assign duties to each person to bring the situation under control.

EMERGENCY PROCEDURES AT THE DRILLING RIG

When the H₂S monitors activate the siren and blinker light, toxic gas is present.

DO NOT PANIC

1. Put on your gas mask!
2. Render assistance!
3. Follow instructions!

DO NOT PANIC

The Company Drilling Foreman will assess the situation, outline a control program and assign duties.

All work done after H₂S is known to be present will be based upon the assessment of this situation.

IGNITING THE WELL

A. RESPONSIBILITY

1. The decision to ignite the well is the responsibility of the Company Drilling Foreman. In his absence incapacity, the Contractor's Foreman will assume all responsibility in their absence or incapacity, the contract driller will be in charge.
2. The decision to ignite the well is to be made as a last resort when it is clear, that.....
 - a. There is a definite threat to Human life and Machinery
 - b. There is no hope of containing the well under prevailing conditions.
 - c. Time and circumstances permitting an attempt will be made to notify the area office. If human life is threatened the decision must not be delayed.

B. INSTRUCTIONS FOR IGNITING THE WELL

1. Two people are required for the initial igniting procedure. Both men will wear self-contained breathing units. Each man will have a retrieval rope around his waist. One man is responsible for checking the atmosphere for explosive gases with an Explosimeter.

The other is responsible for lighting the well. Keep personnel not assigned special duties within the "Safe Briefing Area". Those in the "Safe Briefing Area" will be alert to the needs of the two men assigned to ignite the well. Should either of these men be overcome by fumes, they will immediately pull him to safety by the retrieval ropes.

2. The primary method for igniting the well is a 12 gauge meteorotype flare gun. It has a range of approximately 500 feet. If this method fails or well conditions are such that a safer or better method is apparent, then the alternate should be used.
3. If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is also poisonous. Therefore,

DO NOT ASSUME THAT THE AREA IS SAFE AFTER THE GAS IS IGNITED.

CONTINUE TO OBSERVE EMERGENCY PROCEDURES AND FOLLOW THE INSTRUCTIONS OF SUPERVISORS.

SAFETY EQUIPMENT FOR COMPLIANCE WITH NTL-10

Personal protective equipment must be provided and used. Men who are expected to use respiratory equipment in an area where an emergency would require this protection will be carefully instructed in the proper use and told why the equipment is being used. Careful attention will be given the most minute details in order to avoid possible misuse of the equipment during periods of extreme stress.

Self-contained breathing apparatus provides complete respiratory and eye protection in any concentration of toxic gases and under any condition of oxygen deficiency. The wearer is independent of the surrounding atmosphere because he is breathing with a system admitting no outside air. It consists of a full face mask, corrugated rubber breathing tube, demand regulator, air supply cylinder, and harness. Pure breathing air from the high pressure (2200 psi) supply cylinder flow to the mask automatically through the demand regulator which reduces the pressure to a breathing level. Upon inhalation, air flows into the mask at a rate precisely regulated to the user's demand. Upon exhalation, the flow to the mask stops, and the exhaled breath passes through a valve in the face piece to the surrounding atmosphere. An audible alarm can be added to the apparatus, between the 45 cubic foot cylinder and the high pressure hose, which rings at 400 psi and warns the wearer to leave the contaminated area for a new cylinder of air.

To enable men to work in toxic atmosphere for prolonged periods of time, a hose line with quick disconnect can be attached to the unit connecting it to a 300 cubic foot air cylinder. The installation of a hose bank series manifold on the rig floor connected to a series of 300 cubic foot bottles at a remote location allows both rig crew members and supervisors to remain with "mask on" for an extended period. By having two banks of bottles feeding the floor alternately bottles can be replaced and the time can be extended indefinitely.

The derrickman is provided with a mask unit and 10 minute escape cylinder connected to one or more 300 cubic foot air cylinders through a quick disconnect "T". If evacuation via trolley or ladder becomes necessary, he will also have a full bottle of air in his own self-contained breathing apparatus.

All respiratory protective equipment, when not in use, should be stored in a clean, cool, dry place, and out of direct sunlight to retard the deterioration of rubber parts. After each use the mask assembly will be scrubbed with soap and water, rinsed thoroughly, and dried. Disinfecting may be accomplished through the use of a Pine Sol compound prior to rinsing. Air cylinders can be recharged to full condition from a cascade system of three 300 cubic foot cylinders, connecting pigtails, and charging hose assembly. Men in each crew will be trained as to the proper techniques of bottle filling.

The primary piece of equipment to be utilized should anyone become overcome by Hydrogen Sulfide is the resuscitator. It automatically performs artificial respiration with a gental predetermined pressure on inhalation and without suction on exhalation. This most nearly represents normal respiration and has been selected by medical authorities as the preferred method in restoring breathing. When asphyxia occurs, the victim is removed to fresh air and immediately given artificial respiration. As quickly as available, the resuscitator is then applied. In order to insure readiness, the bottle of oxygen will be checked at regular intervals and an extra tank kept on hand.

Hand operated bellows type detectors incorporating a bulb, detector tube, and a moveable scale will be given more accurate readings of Hydrogen Sulfide.

The bulb draws air to be tested through the detector tube to react with lead acetatesilica gel granules. Presence of Hydrogen Sulfide in the air sample is shown by the development of a dark brown stain on the granules. The scale reading opposite the end of the stain is the concentration of Hydrogen Sulfide. By changing the type of detector tube used, this detector may also be used for Sulfur Dioxide (SO₂) detection when Hydrogne Sulfide H₂S is being burned in the flare area.

Provision must be made for the storage of all safety equipment. As evident by previous discussion, rig crew equipment must be stored in an available location on the rig floor so that no one engaged in normal work routine is more than "one breath away" from a mask.

APPENDIX I

Safety Equipment

Safety trailer with eight 380 cu. ft. cylinder Cascade Air Supply System 1500' low pressure air line with quick connects.

- 3 Low pressure manifolds.
- 12 Airline masks with emergency escape cylinders
- 10 Thirty-minute self-contained breathing apparatus
- 3 Wind socks and streamers
- 1 First aid kit
- 1 Oxygen powered resuscitator with spare bottle
- 1 Flare gun with shells
- 1 Gas detector (pump style)
- 1 Four-channel electronic monitor and explosion proof warning system
- 2 "Briefing Area" signs
- 2 Location "H₂S warning" signs
- 4 Aluminum pack boxes
- 2 Spare 45 cu. ft. air cylinders
- 1 Twenty pound ABC fire extinguisher
- 1 Briefing area with air charge Cascade station
- 2 "Danger-Poison Gas" warning signs
- 1 Eye wash station
- 1 Fire Blanket
- 1 Stretcher
- 2 Briefing areas with 3 bottles each
- 2 250 foot lengths of rope with harnesses
- 1 Hand held D-11 Explosimeter
- 1 Stationary 2 channel Explosimeter
- 2 Circulating Fans (Bug Blowers)

APPLICATION NO. 85-92-11
DISTRIBUTION SYSTEM

Application For Temporary Change of Point of Diversion,
Place or Purpose of Use
STATE OF UTAH

RECEIVED

AUG 1 1985

(To Be Filed in Duplicate)

WATER RIGHTS
PRICE

Price, Utah July 25, 19 85
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 92-7 (A-6128) Cert. No. 1513
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, 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. The owner of right or application is Paul B. Allen
- 2. The name of the person making this application is Paul B. Allen
- 3. The post office address of the applicant is P.O. Box 537 Hotchkiss, Colorado 81419

Phone: 1-303-872-3454

PAST USE OF WATER

- 4. The flow of water which has been used in second feet is 0.5
- 5. The quantity of water which has been used in acre feet is
- 6. The water has been used each year from March 1 to November 1, incl.
(Month) (Day) (Month) (Day)
- 7. The water has been stored each year from to , incl.
(Month) (Day) (Month) (Day)
- 8. The direct source of supply is Floy Wash in Grand County.
- 9. The water has been diverted into S. 390 ft. & W. 80 ft. from E 1/2 Cor. Sec. 27, T21S, R18E, SLB&M.
at a point located ditch canal
- 10. The water involved has been used for the following purpose: Irrigation: 3.3 acs. SE 1/4 SE 1/4 Sec. 27, T21S, R18E; 6.2 acs. NE 1/4 NE 1/4, 10.5 acs. NW 1/4 NE 1/4 Sec. 34, T21S, R18E, all SLB&M.
Total 20.0 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- 11. The flow of water to be changed in cubic feet per second is
- 12. The quantity of water to be changed in acre-feet is 3.0
- 13. The water will be diverted into the tank trucks at a point located S. 390 ft. & W. 80 ft. from E 1/2 Cor. Sec. 27, T21S, R18E, SLB&M.
at a point located ditch canal
- 14. The change will be made from August 1, 1985, to July 31, 1986
(Period must not exceed one year)
- 15. The reasons for the change are Change from agricultural to industrial use.
- 16. The water involved herein has heretofore been temporarily changed 0 years prior to this application.
(List years change has been made)
- 17. The water involved is to be used for the following purpose: Exploration drilling.
Federal #12-1 Armstrong - N. 573 ft. & W. 2140 ft. from SE Cor. Sec. 12, T21S, R18E, SLB&M. (SW 1/4 SE 1/4)
Total _____ acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

This water will be used by Universal Oil & Gas Co. for the drilling of the above referenced well. Attn: Ron Scott, 4050 Youngfield Street, Wheatridge, Colorado 80033; phone 1-303-431-7468.

A filing fee in the sum of 2.50 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Paul B. Allen
Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$5.00. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:
State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. (River System)

1. N.A. Application received by Water Commissioner (Name of Commissioner)

Recommendation of Commissioner

2. AUGUST 1, 1925 Application received over counter by mail in State Engineer's Office by

3. Fee for filing application, \$5.00, received by ; Rec. No.

4. Application returned, with letter, to , for correction.

5. Corrected application resubmitted over counter by mail to State Engineer's Office.

6. Fee for investigation requested \$

7. Fee for investigation \$, received by ; Rec. No.

8. Investigation made by ; Recommendations:

9. Fee for giving notice requested \$

10. Fee for giving notice \$, received by ; Rec. No.

11. Application approved for advertising by publication by mail

12. Notice published in

13. Notice of pending change application mailed to interested parties by as follows:

14. Change application protested by (Date Received and Name)

15. Hearing set for , at

16. B-1-B5 Application recommended for rejection approval by

17. B-1-B5 Change Application rejected approved and returned to APPLICANT

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1.
2.
3.

State Engineer signature and title



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

September 6, 1985

Universal Oil & Gas, Inc.
4050 Youngfield Street
Wheat Ridge, CO 80033

Gentlemen:

Re: Well No. Armstrong-Federal 12-1 - SW SE Sec. 12, T. 21S, R. 18E
573' FSL, 2140' FEL - Grand County, Utah

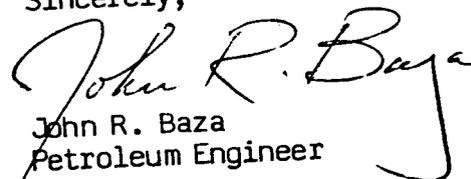
Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3 (b), General Rules and Regulations and Rules of Practice and Procedure.

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.
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 43-019-31200.

Sincerely,


John R. Baza
Petroleum Engineer

Enclosures
cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED

1. oil well gas well other

2. NAME OF OPERATOR
Universal Oil and Gas Inc. **SEP 16 1985**

3. ADDRESS OF OPERATOR
4050 Youngfield St., Wheat Ridge, CO 80033

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 573'FSL, 2140'FEL, SW $\frac{1}{4}$ SE $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

| | |
|--|---------------------|
| 5. LEASE | U-56529 |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 7. UNIT AGREEMENT NAME | |
| 8. FARM OR LEASE NAME | Armstrong - Federal |
| 9. WELL NO. | 12-1 |
| 10. FIELD OR WILDCAT NAME | Blaze Canyon |
| 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA | Sec. 12, T21S, R18E |
| 12. COUNTY OR PARISH | Grand |
| 13. STATE | Utah |
| 14. API NO. | |
| 15. ELEVATIONS (SHOW DF, KDB, AND WD) | G.L. 5463 |

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*
The above well has been permitted with a contingency plan for Hydrogen Sulfide. This well is proposed to be a Navajo test and will not penetrate any zones containing Hydrogen Sulfide. The current producing well, Blaze #1A which is located approximately 1/2 mile to the northwest, does not produce any Hydrogen Sulfide

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

18. I hereby certify that the foregoing is true and correct
SIGNED Ron Scott TITLE Field Supervisor DATE September 13, 1985

(This space for Federal or State office use)

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

w/ok

*Inspected n/ok
10-2-85*

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-019-31200

NAME OF COMPANY: UNIVERSAL OIL & GAS

WELL NAME: ARMSTRONG FEDERAL 12-1

SECTION SW SE 12 TOWNSHIP 21S RANGE 18E COUNTY Grand

DRILLING CONTRACTOR Veco

RIG # 2

SPUDED: DATE 9-22-85

TIME 5:00 PM

HOW Rotary

DRILLING WILL COMMENCE _____

REPORTED BY John Gordon

TELEPHONE # 303-245-1958

DATE 9-23-85 SIGNED AS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

| | |
|---|-------------------|
| 5. LEASE U-56529 | |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 7. UNIT AGREEMENT NAME | |
| 8. FARM OR LEASE NAME Armstrong - Federal | |
| 9. WELL NO. 12-1 | |
| 10. FIELD OR WILDCAT NAME Blaze Canyon | |
| 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12, T21S, R18E | |
| 12. COUNTY OR PARISH Grand | 13. STATE Utah |
| 14. API NO. 43-019-31200 | |
| 15. ELEVATIONS (SHOW DF, KDB, AND WD) G.L. 5463' K.B. 5472' | |

SUNDRY NOTICES AND REPORTS RECEIVED

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

1. oil well gas well other **SEP 26 1985**

2. NAME OF OPERATOR
Universal Oil and Gas Inc. **DIVISION OF OIL GAS & MINING**

3. ADDRESS OF OPERATOR
4050 Youngfield St., Wheat Ridge, Co. 80033

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 573' FSL, 2140' FEL, SW $\frac{1}{4}$ SE $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

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

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

Well was spudded at 5:00 p.m. September 22, 1985.

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

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

SIGNED *J. L. Gurd* TITLE Consulting Engineer DATE 9/24/85

(This space for Federal or State office use)

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

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE

SALT LAKE CITY, UTAH 84116

Gentlemen,

Enclosed please find two copies of the "Report of Operations and Well Status Report" for the month of December, 1985 for the Armstrong-Federal 12-1 located in the SW/4 SE/4 section 12, T21S-R18E, Grand County, Utah. If you have any questions concerning this matter, do not hesitate to contact me.

Bob Cohan

Bob Cohan

Reservoir Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. oil well gas well other

2. NAME OF OPERATOR
Universal Oil and Gas Inc.

3. ADDRESS OF OPERATOR
4050 Youngfield St., Wheat Ridge, CO 80033

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 573'FSL, 2140'FEL, SW $\frac{1}{4}$ SE $\frac{1}{4}$
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

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

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

| | |
|--|---------------------|
| 5. LEASE | U-56529 |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 7. UNIT AGREEMENT NAME | |
| 8. FARM OR LEASE NAME | Armstrong - Federal |
| 9. WELL NO. | 12-1 |
| 10. FIELD OR WILDCAT NAME | Blaze Canyon |
| 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA | Sec. 12, T21S, R18E |
| 12. COUNTY OR PARISH | Grand |
| 13. STATE | Utah |
| 14. API NO. | |
| 15. ELEVATIONS (SHOW DF, KDB, AND WD) | G.L. 5463 |

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

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

The above well has been permitted with a contingency plan for Hydrogen Sulfide. This well is proposed to be a Navajo test and will not penetrate any zones containing Hydrogen Sulfide. The current producing well, Blaze #1A which is located approximately 1/2 mile to the northwest, does not produce any Hydrogen Sulfide

RECEIVED

SEP 30 1985

DIVISION OF OIL
GAS & MINING

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

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

SIGNED Ron Scott TITLE Field Supervisor DATE September 13, 1985

(This space for Federal or State office use)

APPROVED BY Home pedone TITLE District Mgr DATE 9/20/85

CONDITIONS OF APPROVAL, IF ANY:

REC'D MDO SEP 17 1985 7:45 A.M.

HALLIBURTON SERVICES

FORMATION TESTING SERVICE REPORT

07-OCT-85

COMPANY NAME: UNIVERSAL OIL AND GAS
DRILLING CONTRACTOR: BECO DRILLING RIG #2
TICKET NUMBER: 24536001
TEST DATE: 10-4-85
LEASE NAME: ARMSTRONG FEDERAL
WELL NUMBER: 12-1
TEST NUMBER: 1
JOB TYPE: OPEN HOLE
LEGAL LOCATION: SEC 12 T 21S R 18E
COUNTY: GRAND
STATE: UTAH
HALLIBURTON CAMP: VERNAL
FIELD AREA: WILDCAT
ELEVATION: 5472.0 FEET
NET PAY: 14.0 FEET
HOLE SIZE: 7.9 INCH(ES)
TESTED INTERVAL: 4142.0 FEET - 4259.4 FEET

NOTICE:

THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM TEST PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH CALCULATIONS AND OPINIONS.

9YF19

ARMSTRONG FEDERAL 12-1

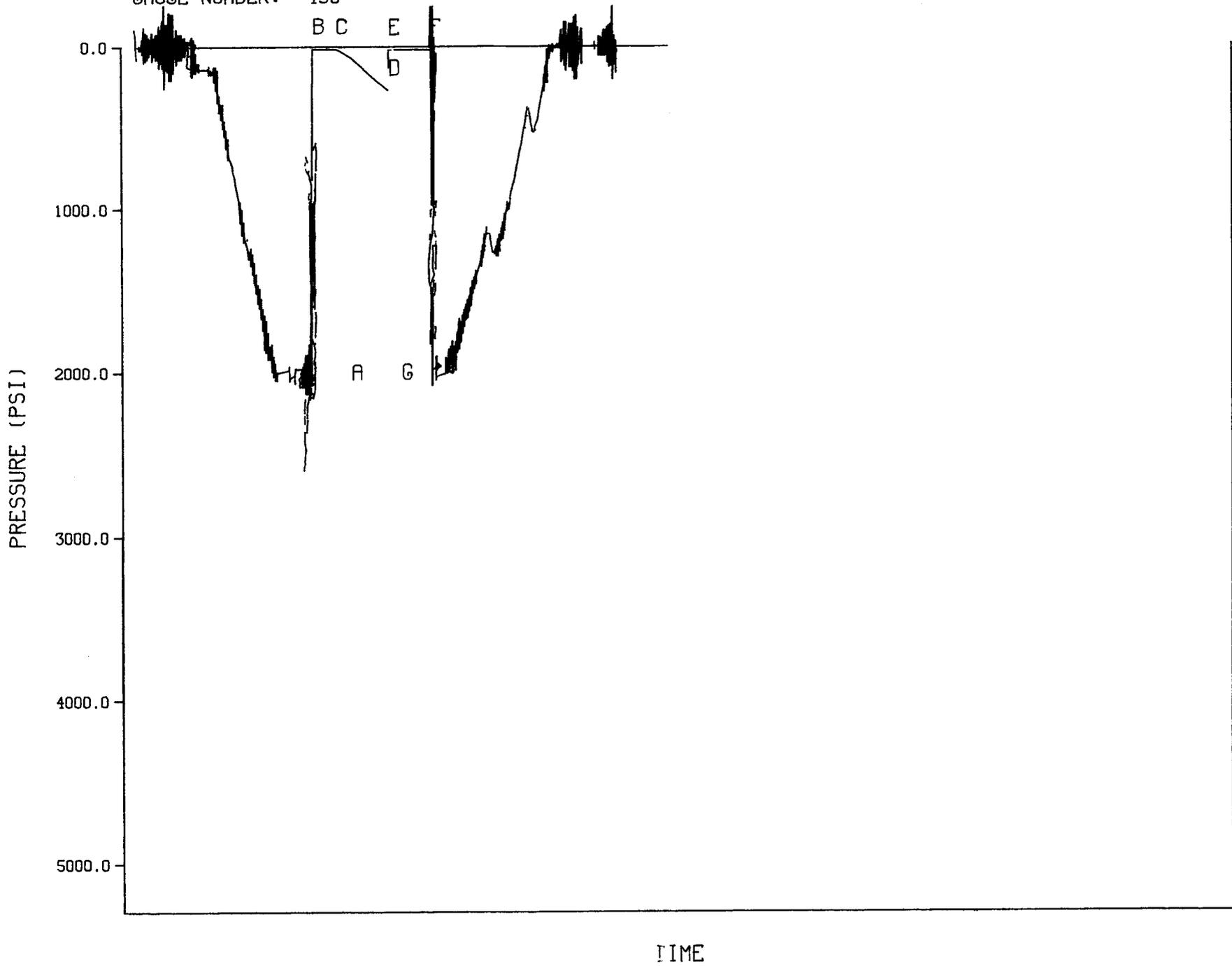
TEST #1

4,142' - 4,259'

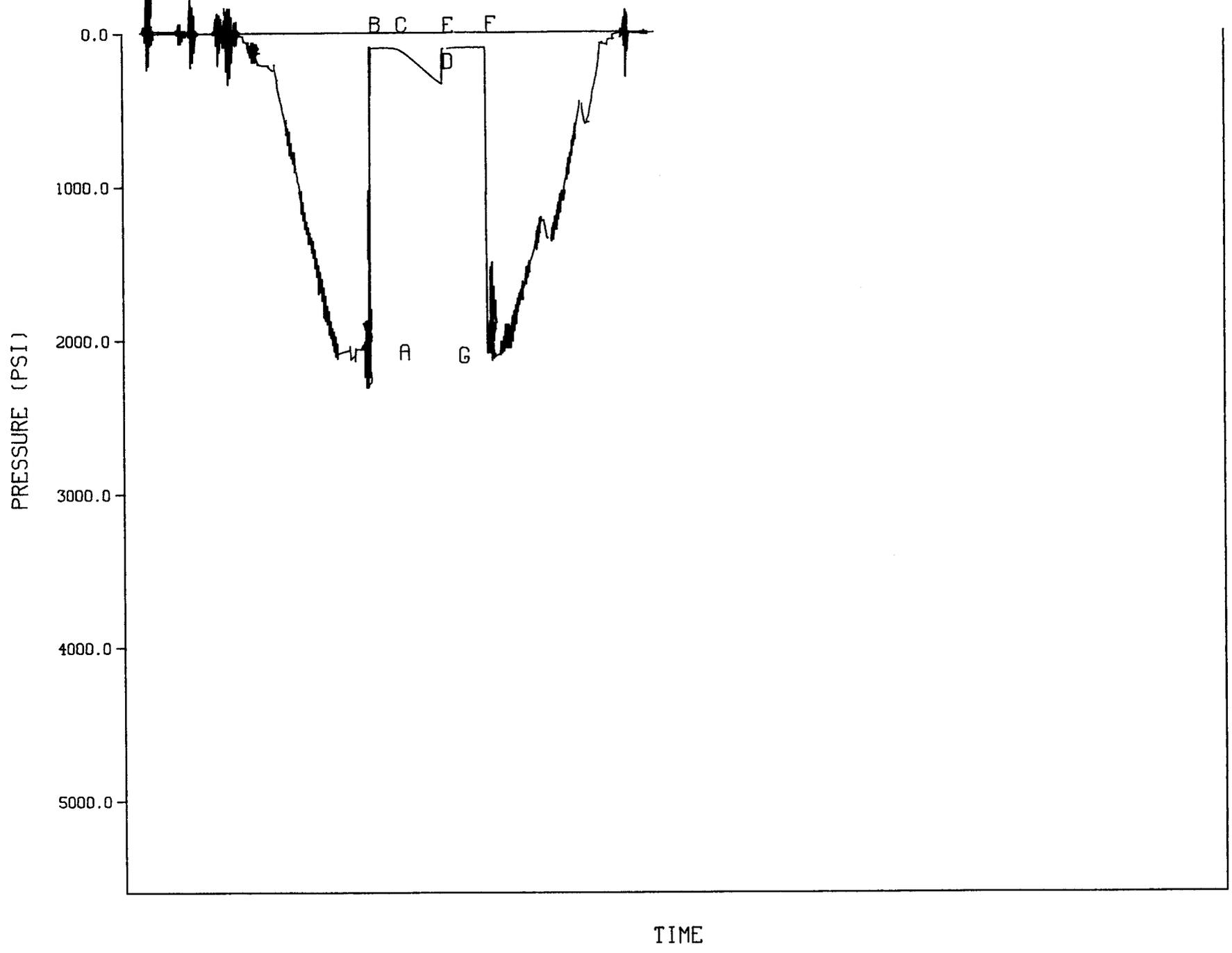
UNIVERSAL OIL AND GAS

TICKET NUMBER: 24536001

GAUGE NUMBER: 430



TICKET NUMBER: 24536001
GAUGE NUMBER: 76



HALLIBURTON SERVICES

TICKET NUMBER: 24536001
 TEST DATE: 10-4-85

GAUGE NUMBER: 430
 GAUGE DEPTH: 4119.7

BLANKED OFF: NO
 CLOCK HOUR: 24

| DESCRIPTION | PRESSURE | | TIME | | TYPE |
|---------------------------|----------|------------|----------|------------|------|
| | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A INITIAL HYDROSTATIC | 0 | 1984.3 | | | |
| B INITIAL FIRST FLOW | 0 | 13.3 | | | |
| C FINAL FIRST FLOW | 0 | 13.6 | 33.0 | 32.6 | F |
| C INITIAL FIRST CLOSED-IN | 0 | 13.6 | | | |
| D FINAL FIRST CLOSED-IN | 0 | 269.6 | 72.0 | 74.0 | C |
| E INITIAL SECOND FLOW | 0 | 18.6 | | | |
| F FINAL SECOND FLOW | 0 | 17.4 | 60.0 | 58.4 | F |
| G FINAL HYDROSTATIC | 0 | 1977.0 | | | |

HALLIBURTON SERVICES

TICKET NUMBER: 24536001
 TEST DATE: 10-4-85

GAUGE NUMBER: 76
 GAUGE DEPTH: 4256.4

BLANKED OFF: YES
 CLOCK HOUR: 24

| DESCRIPTION | PRESSURE | | TIME | | TYPE |
|---------------------------|----------|------------|----------|------------|------|
| | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A INITIAL HYDROSTATIC | 0 | 2055.3 | | | |
| B INITIAL FIRST FLOW | 0 | 97.7 | | | |
| C FINAL FIRST FLOW | 0 | 97.5 | 33.0 | 32.6 | F |
| C INITIAL FIRST CLOSED-IN | 0 | 97.5 | | | |
| D FINAL FIRST CLOSED-IN | 0 | 335.4 | 72.0 | 74.0 | C |
| E INITIAL SECOND FLOW | 0 | 100.6 | | | |
| F FINAL SECOND FLOW | 0 | 92.2 | 60.0 | 58.4 | F |
| G FINAL HYDROSTATIC | 0 | 2070.5 | | | |

TICKET NUMBER: 245360
TEST DATE: 10-4-85

EQUIPMENT & HOLE DATA

FORMATION TESTED: MORRISON
NET PAY: 14.0 FT.
GROSS TESTED FOOTAGE: 117.4 FT.
ALL DEPTHS MEASURED FROM:
CASING PERFORATIONS:
HOLE/CASING SIZE: 7.9 IN.
ELEVATION: 5472.0 FT. KELLY BUSHING
TOTAL DEPTH: 4259.4 FT.
PACKER DEPTH(S): 4134.5 FT.
4142.5 FT.
FINAL SURFACE CHOKE:
BOTTOM HOLE CHOKE: 0.750 IN.
MUD WEIGHT: 9.00 LB/GAL
MUD VISCOSITY: 31.00 SEC.
ESTIMATED HOLE TEMPERATURE: 0.0 F
ACTUAL HOLE TEMPERATURE: 118.0 F @ 4255.0 FT.

HYDROCARBON PROPERTIES

OIL GRAVITY:
GAS/OIL RATIO:
GAS GRAVITY:

SAMPLER DATA

SURFACE PRESSURE:
GAS VOLUME:
OIL VOLUME:
WATER VOLUME:
MUD VOLUME:
TOTAL LIQUID VOLUME:

TESTER(S):

EROS R AROCHO

WITNESS(ES):

JOHN GORDON

TICKET NUMBER: 2453600
TEST DATE: 10-4-85

FLUID PROPERTIES FOR RECOVERED MUD AND WATER

| SOURCE | RESISTIVITY | | CHLORIDES |
|-----------------|-------------|--------|-------------|
| MUD PIT | 0.400 @ | 68.0 F | 16500.0 PPM |
| TOP OF RECOVERY | 0.360 @ | 68.0 F | 20000.0 PPM |
| SAMPLER | 0.330 @ | 68.0 F | 21000.0 PPM |
| | 0.0 @ | 0.0 F | 0.0 PPM |
| | 0.0 @ | 0.0 F | 0.0 PPM |
| | 0.0 @ | 0.0 F | 0.0 PPM |

CUSHION DATA

| TYPE | AMOUNT | WEIGHT |
|------|--------|--------|
| | 0.0 | 0.0 |
| | 0.0 | 0.0 |

RECOVERED (MEASURED FROM TESTER VALVE):

APPROXIMATELY 25 FEET OF MUD

REMARKS:

SAMPLER PRESSURE WAS 1 PSI, NOT ABLE TO DRAIN ALL THE FLUID OUT OF THE SAMPLER.

TICKET NUMBER: 24536001
TEST DATE: 10-4-85

TYPE AND SIZE MEASURING DEVICE: LT-20 MANIFOLD

| TIME | CHOKE SIZE | SURFACE PRESSURE (PSI) | GAS RATE (MCF) | LIQUID RATE (BPD) | REMARKS |
|---------|---------------|------------------------------|----------------------|-------------------------|---|
| 10-3-85 | | | | | ON LOCATION |
| 2000 | | | | | |
| 10-4-85 | | | | | |
| 0800 | | | | | START CLOCKS AND PICK UP TOOLS |
| 1000 | | | | | RUN IN HOLE |
| 1300 | | | | | CLOSE TO BOTTOM, RIG UP MANIFOLD. |
| 1319 | | | | | HYDROSPRING OPEN TO SURFACE TO A 1/8" BUBBLE HOSE. HAD A 1" BLOW. |
| 1324 | BH | | | | .5" BLOW |
| 1329 | BH | | | | .5" BLOW |
| 1334 | BH | | | | .25" BLOW |
| 1339 | BH | | | | 1/16" BLOW |
| 1344 | BH | | | | BLOW DEAD |
| 1352 | | | | | CLOSE TOOL |
| 1504 | | | | | OPEN TOOL WITH NO BLOW, DEAD |
| 1604 | | | | | CLOSE TOOL, ROTATE |
| 1606 | | | | | OPEN BYPASS, CUSTOMER DID NOT WAIT FOR SECOND CLOSED IN PERIOD. |
| 1900 | | | | | LAY DOWN TOOLS |
| 2200 | | | | | END OF JOB |

| | TOOL EQUIPMENT | O.D. | I.D. | LENGTH | DEPTH |
|----|--------------------------|-------|-------|--------|--------|
| 1 | DRILL PIPE | 3.500 | 2.764 | 3783.0 | |
| 3 | DRILL COLLARS | 6.000 | 2.375 | 275.0 | |
| 50 | IMPACT REVERSING SUB | 6.000 | 3.000 | 1.0 | 4045.0 |
| 3 | DRILL COLLARS | 6.000 | 2.375 | 59.3 | |
| 5 | CROSSOVER | 6.250 | 2.875 | 1.2 | |
| 13 | DUAL CIP SAMPLER | 5.000 | 0.750 | 6.9 | |
| 60 | HYDROSPRING TESTER | 5.000 | 0.750 | 5.0 | 4117.6 |
| 80 | AP RUNNING CASE | 5.000 | 2.250 | 4.1 | 4119.7 |
| 15 | JAR | 5.000 | 1.750 | 5.0 | |
| 16 | VR SAFETY JOINT | 5.000 | 1.000 | 2.8 | |
| 70 | OPEN HOLE PACKER | 7.000 | 1.530 | 5.8 | 4134.5 |
| 18 | DISTRIBUTOR VALVE | 5.000 | 1.680 | 2.1 | |
| 70 | OPEN HOLE PACKER | 7.000 | 1.530 | 5.8 | 4142.5 |
| 20 | FLUSH JOINT ANCHOR | 5.750 | 3.500 | 27.0 | |
| 5 | CROSSOVER | 5.750 | 2.875 | 0.9 | |
| 3 | DRILL COLLARS | 5.750 | 2.375 | 60.7 | |
| 5 | CROSSOVER | 6.000 | 2.500 | 1.2 | |
| 20 | FLUSH JOINT ANCHOR | 5.750 | 3.500 | 21.0 | |
| 81 | BLANKED-OFF RUNNING CASE | 5.750 | 0.000 | 4.1 | 4256.4 |
| | TOTAL DEPTH | | | | 4259.4 |



HALLIBURTON SERVICES

TICKET NUMBER: 24536001
 TEST DATE: 10-4-85

CLOCK NUMBER: 7139
 HOUR: 24

GAUGE NUMBER: 430
 GAUGE DEPTH: 4119.7

| REFERENCE | TIME (MINUTES) | PRESSURE (PSI) | DP | (T*DT) ----- (T+DT) | (T+DT) LOG----- DT |
|-----------|--------------------|--------------------|----|---------------------------|--------------------------|
|-----------|--------------------|--------------------|----|---------------------------|--------------------------|

FIRST FLOW

| | | | | | |
|---|----|------|------|------|--|
| B | 1 | 0.0 | 13.3 | | |
| | 2 | 2.0 | 13.1 | -0.2 | |
| | 3 | 4.0 | 12.7 | -0.4 | |
| | 4 | 6.0 | 12.3 | -0.4 | |
| | 5 | 8.0 | 12.3 | -0.0 | |
| | 6 | 10.0 | 12.4 | 0.1 | |
| | 7 | 12.0 | 12.5 | 0.1 | |
| | 8 | 14.0 | 12.6 | 0.1 | |
| | 9 | 16.0 | 12.8 | 0.1 | |
| | 10 | 18.0 | 12.9 | 0.1 | |
| | 11 | 20.0 | 13.0 | 0.1 | |
| | 12 | 22.0 | 13.1 | 0.1 | |
| | 13 | 24.0 | 13.3 | 0.1 | |
| | 14 | 26.0 | 13.4 | 0.1 | |
| | 15 | 28.0 | 13.5 | 0.1 | |
| | 16 | 30.0 | 13.7 | 0.1 | |
| | 17 | 32.0 | 13.8 | 0.1 | |
| C | 18 | 32.6 | 13.6 | -0.2 | |

FIRST CLOSED-IN

| | | | | | | |
|---|----|------|------|------|------|-------|
| C | 1 | 0.0 | 13.6 | | | |
| | 2 | 1.0 | 15.7 | 2.1 | 1.0 | 1.526 |
| | 3 | 2.0 | 17.7 | 4.1 | 1.9 | 1.238 |
| | 4 | 3.0 | 19.7 | 6.2 | 2.7 | 1.074 |
| | 5 | 4.0 | 21.7 | 8.2 | 3.6 | 0.961 |
| | 6 | 5.0 | 23.7 | 10.2 | 4.3 | 0.876 |
| | 7 | 6.0 | 25.8 | 12.2 | 5.1 | 0.808 |
| | 8 | 7.0 | 27.9 | 14.3 | 5.8 | 0.752 |
| | 9 | 8.0 | 30.3 | 16.7 | 6.4 | 0.705 |
| | 10 | 9.0 | 32.8 | 19.2 | 7.1 | 0.665 |
| | 11 | 10.0 | 35.2 | 21.6 | 7.7 | 0.629 |
| | 12 | 12.0 | 40.7 | 27.1 | 8.8 | 0.570 |
| | 13 | 14.0 | 46.6 | 33.0 | 9.8 | 0.522 |
| | 14 | 16.0 | 52.5 | 38.9 | 10.7 | 0.482 |
| | 15 | 18.0 | 58.4 | 44.8 | 11.6 | 0.449 |
| | 16 | 20.0 | 64.3 | 50.8 | 12.4 | 0.420 |
| | 17 | 22.0 | 71.2 | 57.6 | 13.1 | 0.395 |
| | 18 | 24.0 | 78.2 | 64.7 | 13.8 | 0.373 |
| | 19 | 26.0 | 85.3 | 71.7 | 14.5 | 0.353 |

HALLIBURTON SERVICES

TICKET NUMBER: 24536001
 TEST DATE: 10-4-85

CLOCK NUMBER: 7139
 HOUR: 24

GAUGE NUMBER: 430
 GAUGE DEPTH: 4119.7

| REFERENCE | TIME (MINUTES) | PRESSURE (PSI) | DP | (T*DT) ----- (T+DT) | (T+DT) LOG----- DT | |
|-----------|--------------------|--------------------|-------|---------------------------|--------------------------|-------|
| | 20 | 28.0 | 92.7 | 79.1 | 15.1 | 0.335 |
| | 21 | 30.0 | 100.7 | 87.1 | 15.6 | 0.319 |
| | 22 | 35.0 | 120.7 | 107.1 | 16.9 | 0.286 |
| | 23 | 40.0 | 141.5 | 127.9 | 18.0 | 0.259 |
| | 24 | 45.0 | 162.4 | 148.8 | 18.9 | 0.237 |
| | 25 | 50.0 | 183.2 | 169.6 | 19.7 | 0.218 |
| | 26 | 55.0 | 203.0 | 189.4 | 20.5 | 0.202 |
| | 27 | 60.0 | 221.4 | 207.8 | 21.1 | 0.188 |
| | 28 | 70.0 | 256.3 | 242.7 | 22.2 | 0.166 |
| D | 29 | 74.0 | 269.6 | 256.0 | 22.6 | 0.159 |

SECOND FLOW

| | | | | | | |
|---|----|------|------|------|--|--|
| E | 1 | 0.0 | 18.6 | | | |
| | 2 | 3.0 | 16.7 | -1.9 | | |
| | 3 | 6.0 | 16.5 | -0.2 | | |
| | 4 | 9.0 | 16.8 | 0.3 | | |
| | 5 | 12.0 | 16.8 | -0.0 | | |
| | 6 | 15.0 | 16.7 | -0.0 | | |
| | 7 | 18.0 | 16.7 | -0.0 | | |
| | 8 | 21.0 | 16.6 | -0.0 | | |
| | 9 | 24.0 | 16.6 | -0.0 | | |
| | 10 | 27.0 | 16.6 | -0.0 | | |
| | 11 | 30.0 | 16.5 | -0.0 | | |
| | 12 | 33.0 | 16.5 | -0.0 | | |
| | 13 | 36.0 | 16.6 | 0.1 | | |
| | 14 | 39.0 | 16.7 | 0.1 | | |
| | 15 | 42.0 | 16.8 | 0.1 | | |
| | 16 | 45.0 | 16.9 | 0.1 | | |
| | 17 | 48.0 | 17.0 | 0.1 | | |
| | 18 | 51.0 | 17.1 | 0.1 | | |
| | 19 | 54.0 | 17.3 | 0.1 | | |
| | 20 | 57.0 | 17.4 | 0.1 | | |
| F | 21 | 58.4 | 17.4 | -0.0 | | |

HALLIBURTON SERVICES

TICKET NUMBER: 24536001

TEST DATE: 10-4-85

CLOCK NUMBER: 2786

HOUR: 24

GAUGE NUMBER: 76

GAUGE DEPTH: 4256.4

| REFERENCE | TIME (MINUTES) | PRESSURE (PSI) | DP | (T*DT) ----- (T+DT) | (T+DT) LOG----- DT |
|-----------|--------------------|--------------------|----|---------------------------|--------------------------|
|-----------|--------------------|--------------------|----|---------------------------|--------------------------|

FIRST FLOW

| | | | | | |
|---|----|------|------|------|--|
| B | 1 | 0.0 | 97.7 | | |
| | 2 | 4.0 | 97.7 | 0.0 | |
| | 3 | 6.0 | 97.3 | -0.4 | |
| | 4 | 8.0 | 96.9 | -0.4 | |
| | 5 | 10.0 | 96.4 | -0.4 | |
| | 6 | 12.0 | 95.9 | -0.5 | |
| | 7 | 14.0 | 95.3 | -0.6 | |
| | 8 | 16.0 | 94.7 | -0.6 | |
| | 9 | 18.0 | 94.7 | 0.0 | |
| | 10 | 20.0 | 95.1 | 0.4 | |
| | 11 | 22.0 | 95.5 | 0.4 | |
| | 12 | 24.0 | 95.9 | 0.4 | |
| | 13 | 26.0 | 96.3 | 0.4 | |
| | 14 | 28.0 | 96.7 | 0.4 | |
| | 15 | 30.0 | 97.1 | 0.4 | |
| | 16 | 32.0 | 97.5 | 0.4 | |
| C | 17 | 32.6 | 97.5 | 0.0 | |

FIRST CLOSED-IN

| | | | | | | |
|---|----|------|-------|------|------|-------|
| C | 1 | 0.0 | 97.5 | | | |
| | 2 | 1.0 | 100.0 | 2.5 | 1.0 | 1.526 |
| | 3 | 2.0 | 102.2 | 4.7 | 1.9 | 1.238 |
| | 4 | 3.0 | 104.4 | 6.9 | 2.7 | 1.074 |
| | 5 | 4.0 | 106.6 | 9.1 | 3.6 | 0.961 |
| | 6 | 5.0 | 108.8 | 11.2 | 4.3 | 0.876 |
| | 7 | 6.0 | 111.0 | 13.4 | 5.1 | 0.808 |
| | 8 | 7.0 | 113.1 | 15.6 | 5.8 | 0.752 |
| | 9 | 8.0 | 115.3 | 17.8 | 6.4 | 0.705 |
| | 10 | 9.0 | 117.5 | 20.0 | 7.1 | 0.665 |
| | 11 | 10.0 | 119.7 | 22.2 | 7.7 | 0.629 |
| | 12 | 12.0 | 124.1 | 26.5 | 8.8 | 0.570 |
| | 13 | 14.0 | 128.5 | 30.9 | 9.8 | 0.522 |
| | 14 | 16.0 | 134.7 | 37.2 | 10.7 | 0.482 |
| | 15 | 18.0 | 141.4 | 43.9 | 11.6 | 0.449 |
| | 16 | 20.0 | 148.2 | 50.7 | 12.4 | 0.420 |
| | 17 | 22.0 | 154.9 | 57.4 | 13.1 | 0.395 |
| | 18 | 24.0 | 161.7 | 64.2 | 13.8 | 0.373 |
| | 19 | 26.0 | 168.4 | 70.9 | 14.5 | 0.353 |
| | 20 | 28.0 | 175.2 | 77.7 | 15.1 | 0.335 |

HALLIBURTON SERVICES

TICKET NUMBER: 24536001

TEST DATE: 10-4-85

CLOCK NUMBER: 2786

HOUR: 24

GAUGE NUMBER: 76

GAUGE DEPTH: 4256.4

| REFERENCE | TIME (MINUTES) | PRESSURE (PSI) | DP | (T*DT) ----- (T+DT) | (T+DT) LOG----- DT | |
|-----------|--------------------|--------------------|-------|---------------------------|--------------------------|-------|
| | 21 | 30.0 | 181.9 | 84.4 | 15.6 | 0.319 |
| | 22 | 35.0 | 200.2 | 102.7 | 16.9 | 0.286 |
| | 23 | 40.0 | 218.8 | 121.3 | 18.0 | 0.259 |
| | 24 | 45.0 | 237.4 | 139.9 | 18.9 | 0.237 |
| | 25 | 50.0 | 255.5 | 157.9 | 19.7 | 0.218 |
| | 26 | 55.0 | 273.4 | 175.8 | 20.5 | 0.202 |
| | 27 | 60.0 | 291.0 | 193.4 | 21.1 | 0.188 |
| | 28 | 70.0 | 322.0 | 224.4 | 22.2 | 0.166 |
| D | 29 | 74.0 | 335.4 | 237.8 | 22.6 | 0.159 |

SECOND FLOW

| | | | | | | |
|---|----|------|-------|------|--|--|
| E | 1 | 0.0 | 100.6 | | | |
| | 2 | 3.0 | 99.2 | -1.4 | | |
| | 3 | 6.0 | 98.6 | -0.6 | | |
| | 4 | 9.0 | 97.3 | -1.4 | | |
| | 5 | 12.0 | 95.9 | -1.4 | | |
| | 6 | 15.0 | 94.5 | -1.4 | | |
| | 7 | 18.0 | 93.6 | -0.9 | | |
| | 8 | 21.0 | 93.2 | -0.4 | | |
| | 9 | 24.0 | 92.8 | -0.4 | | |
| | 10 | 27.0 | 92.4 | -0.4 | | |
| | 11 | 30.0 | 92.0 | -0.4 | | |
| | 12 | 33.0 | 91.7 | -0.2 | | |
| | 13 | 36.0 | 91.8 | 0.1 | | |
| | 14 | 39.0 | 91.9 | 0.1 | | |
| | 15 | 42.0 | 92.0 | 0.1 | | |
| | 16 | 45.0 | 92.0 | 0.1 | | |
| | 17 | 48.0 | 92.1 | 0.1 | | |
| | 18 | 51.0 | 92.2 | 0.1 | | |
| | 19 | 54.0 | 92.3 | 0.1 | | |
| | 20 | 57.0 | 92.4 | 0.1 | | |
| F | 21 | 58.4 | 92.2 | -0.2 | | |



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

UNIVERSAL OIL & GAS, INC.
COMPANY

ARMSTRONG FEDERAL #12-1
WELL NAME

GRAND COUNTY, UTAH
LOCATION

JOB NUMBER

RM985 S1768

TYPE OF SURVEY

MULTI-SHOT

DATE

08-OCT-85

SURVEY BY
JON VALENZUELA

OFFICE
RM 410

EASTMAN WHIPSTOCK, INC.

RECORD OF SURVEY

FOR

```
* * * * *
*
* OPERATOR      : UNIVERSAL OIL & GAS, INC.
*
* WELL NAME     : ARMSTRONG FEDERAL # 12-1
*
* LOCATION      : GRAND COUNTY, UTAH
*
* JOB NUMBER    : RM985 S1768
*
* RIG           : VECO #2
*
* DECLINATION   : 15.00 E
*
*
*               PLANE OF VERTICAL SECTION
*
*
*               DIRECTION : N 0 0 E
*
* * * * *
```

FW DISTRICT : ROCKY MOUNTAIN DIST.



UNIVERSAL OIL & GAS, INC.
 ARMSTRONG FEDERAL # 12-1
 GRAND COUNTY, UTAH

PBHL : N O O E

DATE PRINTED : 02-OCT-85
 OUR REF. NO. : S01689.4UJ
 JOB NUMBER :

PAGE NO. 2

| MEASURED DEPTH | DRIFT ANGLE D M | DRIFT DIRECTION D M | COURSE LENGTH | TRUE VERTICAL DEPTH | VERTICAL SECTION | RECTANGULAR COORDINATES | DOGLEO SEVERITY |
|----------------|-----------------|---------------------|---------------|---------------------|------------------|-------------------------|-----------------|
| 509.00 | 0 0 | N 0 0 E | 0.00 | 509.00 | 0.00 | 0.00 N 0.00 E | 0.00 |
| 561.00 | 1 15 | N 79 0 E | 52.00 | 561.00 | 0.11 | 0.11 N 0.56 E | 2.40 |
| 624.00 | 1 45 | N 80 0 E | 63.00 | 623.97 | 0.41 | 0.41 N 2.18 E | 0.79 |
| 686.00 | 1 45 | N 86 0 E | 62.00 | 685.95 | 0.64 | 0.64 N 4.06 E | 0.30 |
| 749.00 | 2 0 | N 89 0 E | 63.00 | 748.91 | 0.73 | 0.73 N 6.12 E | 0.43 |
| 811.00 | 2 0 | N 89 0 E | 62.00 | 810.87 | 0.77 | 0.77 N 8.28 E | 0.00 |
| 874.00 | 2 0 | N 86 0 E | 63.00 | 873.84 | 0.86 | 0.86 N 10.48 E | 0.17 |
| 936.00 | 2 0 | N 81 0 E | 62.00 | 935.80 | 1.11 | 1.11 N 12.63 E | 0.28 |
| 999.00 | 2 0 | N 80 0 E | 63.00 | 998.76 | 1.47 | 1.47 N 14.79 E | 0.06 |
| 1061.00 | 2 0 | N 78 0 E | 62.00 | 1060.72 | 1.88 | 1.88 N 16.92 E | 0.11 |
| 1124.00 | 1 45 | N 75 0 E | 63.00 | 1123.69 | 2.37 | 2.37 N 18.92 E | 0.43 |
| 1186.00 | 1 45 | N 71 0 E | 62.00 | 1185.66 | 2.92 | 2.92 N 20.73 E | 0.20 |
| 1248.00 | 1 45 | N 65 0 E | 62.00 | 1247.63 | 3.63 | 3.63 N 22.49 E | 0.30 |
| 1311.00 | 1 45 | N 79 0 E | 63.00 | 1310.60 | 4.22 | 4.22 N 24.31 E | 0.68 |
| 1373.00 | 1 45 | N 55 0 E | 62.00 | 1372.57 | 4.95 | 4.95 N 26.04 E | 1.17 |
| 1436.00 | 2 0 | N 50 0 E | 63.00 | 1435.54 | 6.21 | 6.21 N 27.68 E | 0.47 |
| 1498.00 | 2 0 | N 46 0 E | 62.00 | 1497.50 | 7.66 | 7.66 N 29.29 E | 0.23 |
| 1561.00 | 2 0 | N 44 0 E | 63.00 | 1560.46 | 9.21 | 9.21 N 30.84 E | 0.11 |
| 1623.00 | 2 15 | N 44 0 E | 62.00 | 1622.42 | 10.87 | 10.87 N 32.44 E | 0.40 |
| 1686.00 | 2 30 | N 45 0 E | 63.00 | 1685.36 | 12.73 | 12.73 N 34.27 E | 0.40 |
| 1748.00 | 2 30 | N 44 0 E | 62.00 | 1747.31 | 14.66 | 14.66 N 36.16 E | 0.07 |
| 1811.00 | 2 45 | N 47 0 E | 63.00 | 1810.24 | 16.68 | 16.68 N 38.22 E | 0.45 |
| 1873.00 | 3 0 | N 50 0 E | 62.00 | 1872.16 | 18.74 | 18.74 N 40.55 E | 0.47 |
| 1935.00 | 3 0 | N 51 0 E | 62.00 | 1934.08 | 20.80 | 20.80 N 43.05 E | 0.08 |
| 1998.00 | 3 0 | N 50 0 E | 63.00 | 1996.99 | 22.90 | 22.90 N 45.60 E | 0.08 |
| 2060.00 | 3 15 | N 49 0 E | 62.00 | 2058.90 | 25.10 | 25.10 N 48.17 E | 0.41 |
| 2123.00 | 3 30 | N 47 0 E | 63.00 | 2121.79 | 27.58 | 27.58 N 50.93 E | 0.44 |
| 2185.00 | 3 45 | N 46 0 E | 62.00 | 2183.66 | 30.28 | 30.28 N 53.77 E | 0.42 |
| 2248.00 | 4 0 | N 42 0 E | 63.00 | 2246.52 | 33.34 | 33.34 N 56.73 E | 0.58 |
| 2310.00 | 4 30 | N 40 0 E | 62.00 | 2308.35 | 36.80 | 36.81 N 59.74 E | 0.84 |

CONTINUED ON NEXT PAGE ...



| MEASURED DEPTH | DRIFT ANGLE D M | DRIFT DIRECTION D M | COURSE LENGTH | TRUE VERTICAL DEPTH | VERTICAL SECTION | RECTANGULAR COORDINATES | | DOGLEG SEVERITY |
|----------------|--------------------|------------------------|---------------|---------------------|------------------|-------------------------|----------|-----------------|
| 2373.00 | 4 45 | N 40 0 E | 63.00 | 2371.14 | 40.70 | 40.70 N | 63.01 E | 0.40 |
| 2435.00 | 5 0 | N 39 0 E | 62.00 | 2432.92 | 44.76 | 44.76 N | 66.36 E | 0.43 |
| 2497.00 | 5 0 | N 39 0 E | 62.00 | 2494.68 | 48.96 | 48.96 N | 69.76 E | 0.00 |
| 2560.00 | 5 0 | N 38 0 E | 63.00 | 2557.44 | 53.26 | 53.26 N | 73.18 E | 0.14 |
| 2622.00 | 5 0 | N 37 0 E | 62.00 | 2619.21 | 57.54 | 57.54 N | 76.46 E | 0.14 |
| 2685.00 | 5 0 | N 35 0 E | 63.00 | 2681.97 | 61.99 | 61.99 N | 79.69 E | 0.28 |
| 2747.00 | 5 0 | N 35 0 E | 62.00 | 2743.73 | 66.41 | 66.41 N | 82.79 E | 0.00 |
| 2810.00 | 5 0 | N 37 0 E | 63.00 | 2806.49 | 70.86 | 70.86 N | 86.02 E | 0.28 |
| 2872.00 | 5 15 | N 38 0 E | 62.00 | 2868.25 | 75.25 | 75.25 N | 89.39 E | 0.43 |
| 2935.00 | 5 45 | N 31 0 E | 63.00 | 2930.96 | 80.22 | 80.22 N | 92.81 E | 1.33 |
| 2997.00 | 5 45 | N 25 0 E | 62.00 | 2992.64 | 85.70 | 85.70 N | 95.72 E | 0.97 |
| 3060.00 | 6 0 | N 25 0 E | 63.00 | 3055.31 | 91.55 | 91.55 N | 98.45 E | 0.40 |
| 3122.00 | 6 45 | N 23 0 E | 62.00 | 3116.93 | 97.84 | 97.84 N | 101.25 E | 1.26 |
| 3184.00 | 8 0 | N 21 0 E | 62.00 | 3178.41 | 105.22 | 105.22 N | 104.23 E | 2.06 |
| 3247.00 | 8 30 | N 18 0 E | 63.00 | 3240.76 | 113.74 | 113.74 N | 107.25 E | 1.05 |
| 3309.00 | 9 0 | N 17 0 E | 62.00 | 3302.04 | 122.73 | 122.73 N | 110.08 E | 0.84 |
| 3372.00 | 9 0 | N 17 0 E | 63.00 | 3364.26 | 132.16 | 132.16 N | 112.96 E | 0.00 |
| 3434.00 | 8 45 | N 17 0 E | 62.00 | 3425.52 | 141.30 | 141.30 N | 115.76 E | 0.40 |
| 3497.00 | 8 0 | N 17 0 E | 63.00 | 3487.85 | 150.08 | 150.08 N | 118.44 E | 1.19 |
| 3559.00 | 8 30 | N 18 0 E | 62.00 | 3549.21 | 158.56 | 158.56 N | 121.12 E | 0.84 |
| 3590.00 | 8 30 | N 18 0 E | 31.00 | 3579.87 | 162.92 | 162.92 N | 122.53 E | 0.00 |
| 3615.00 | 8 30 | N 19 0 E | 25.00 | 3604.59 | 166.43 | 166.43 N | 123.71 E | 0.59 |

CLOSURE - DISTANCE : 207.37
 DIRECTION : N 36 37 E

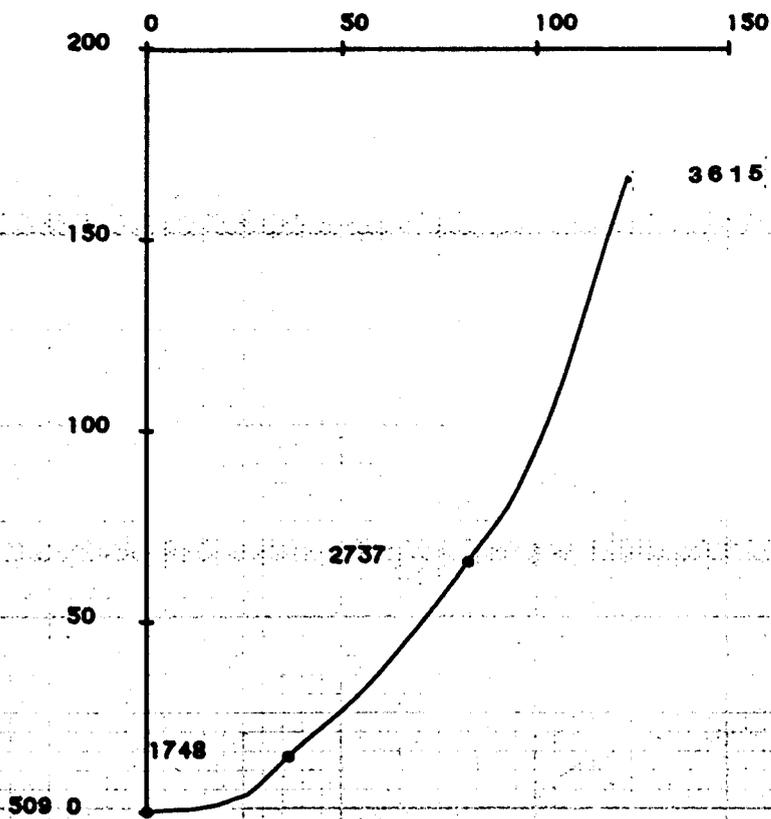
REPORT UNITS : Feet
 SURVEY CALCULATION METHOD : Radius of curvature

SURVEY RUN INFORMATION

=====

ASSUME VERTICLE TO 509'
 ALL DIRECTION READINGS HAVE 2 DEG. SUBTRACTED AS PER
 COMPANY REPRESENTATIVE: JOHN GORDON
 MULTISHOT: 509-3615'/RM985 S1758/9-28-85/JON VALENZUELA





SCALE 1"=50FT.

NOTE: COORDINATES RELATIVE
TO SLOT

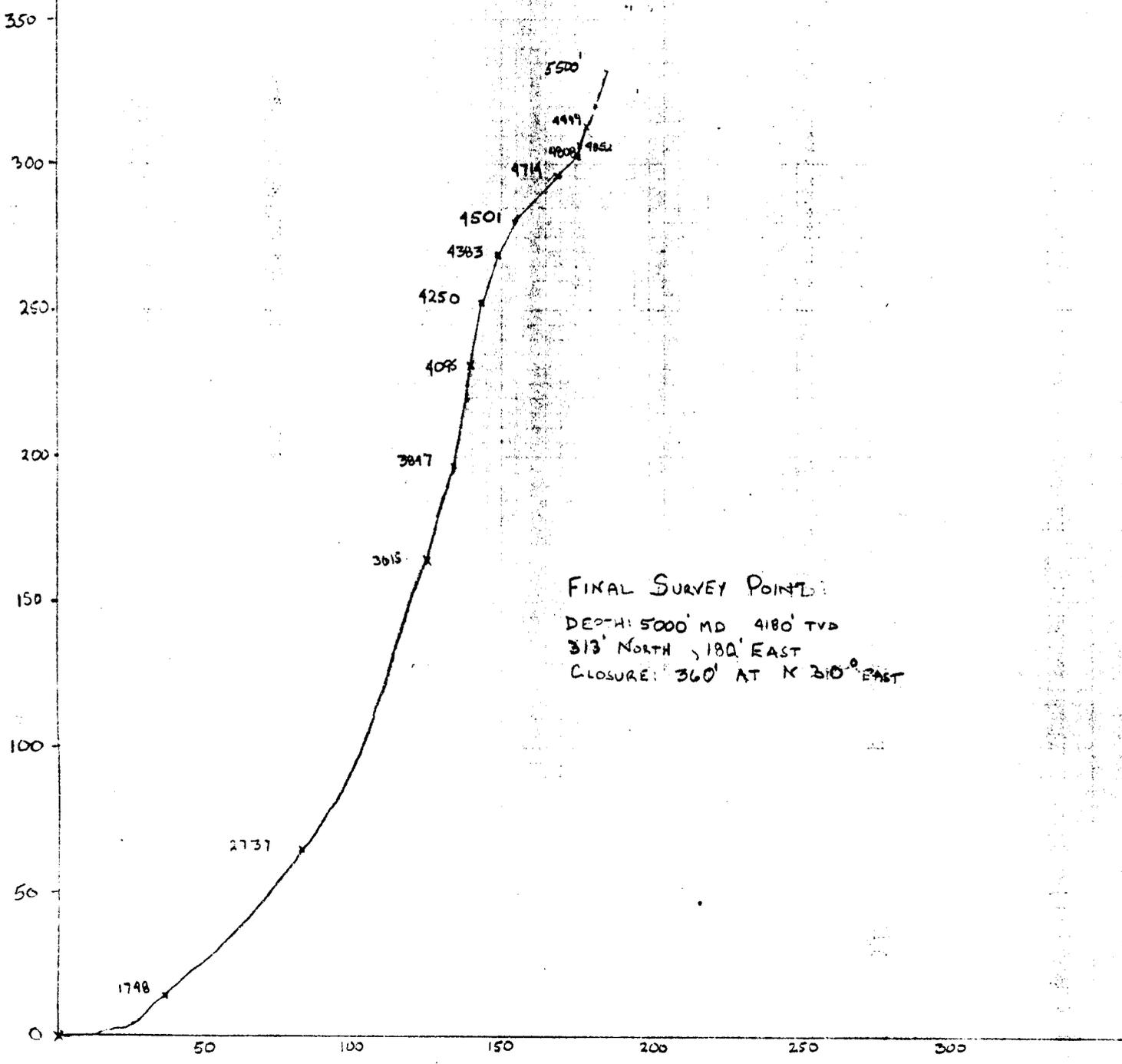
FINAL STATION:
 DEPTH: 3615.00 MD. 3604.59 TVD
 166.43 NORTH. 123.71 EAST
 CLOSURE: 207.37 AT N 36 37 E

UNIVERSAL OIL & GAS, INC.
 ARMSTRONG FEDERAL # 12-1
 GRAND COUNTY, UTAH

WELL: AMSTG FED 12-1

SLOT: 1

| DEPTH | DIRECTION | MD | TVD |
|-------|-----------|------|---------|
| 3.25 | N 15° E | 3015 | 3604.59 |
| 3 | N 9° E | 2847 | 3834.19 |
| 3 | N 10° E | 4095 | 4079.76 |
| 7.5 | N 10° E | 4250 | 4233.27 |
| 7.5 | N 15° E | 4383 | 4365.13 |
| 5.5 | N 20° E | 4501 | 4482.48 |
| 5 | N 42° E | 4714 | 4694.50 |
| 4 | N 42° E | 4808 | 4788.14 |
| 4 | N 17° E | 4852 | 4832.03 |
| 2.25 | N 10° E | 4994 | 4978.92 |
| 2.25 | N 18° E | 5500 | 5179.53 |



FINAL SURVEY POINT:
 DEPTH: 5000 MD, 4180 TVD
 313 NORTH, 180 EAST
 CLOSURE: 360 AT N 30° EAST

ANALYST: K.T. MIWA

26-OCT-85 22:05:52

```
*****  
*                                     *  
*                                     *  
*                                     *  
*****  
*                                     *  
*   SCHLUMBERGER   *  
*                                     *  
*****
```

HIGH RESOLUTION DIPMETER - CLUSTER LISTING

COMPANY : UNIVERSAL OIL & GAS INC.
WELL : ARMSTRONG-FEDERAL 12-1
FIELD : BLAZE CANYON
COUNTRY : U.S.A.
REFERENCE: RMCC.17422
LOGGED : 26-OCT-85

COMPANY : UNIVERSAL OIL & GAS INC.

WELL : ARMSTRONG-FEDERAL 12-1

CORRELATION PARAMETERS :

| COR. INT. FT | COR. STEP % | SEARCH ANG DEG | NB OF DIP |
|-----------------|----------------|-------------------|-----------|
| 4.0 | 50.0 | 40.0 | 2 |

COMPANY : UNIVERSAL OIL & GAS INC.

WELL

: ARMSTRONG-FEDERAL 12-1

FILE : 2

```
*****
*          *          FORMATION          *          *          BOREHOLE          *          *          *
*          *-----*-----*-----*-----*-----*-----*-----*-----*          *          QUALITY*
* DEPTH *   DIP *   DIP * DEVIAT * DEVIAT * CALIPER * CALIPER * INDEX *
*          *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
* FT     *   DEG *   DEG *   DEG *   DEG *   IN   *   IN   *   *   *   *   *   *   *   *   *
*****
*          *          *          *          *          *          *          *          *
* 5462.00*   19.3*   260*   2.5*   154*   6.9*   6.9*   *          *
* 5464.00*   35.6*   257*   2.6*   154*   7.0*   7.2*D  *          *
* 5466.00*   37.8*   253*   2.6*   154*   7.1*   7.4*B  *          *
* 5468.00*   34.5*   253*   2.6*   153*   7.3*   7.5*B  *          *
*****
```

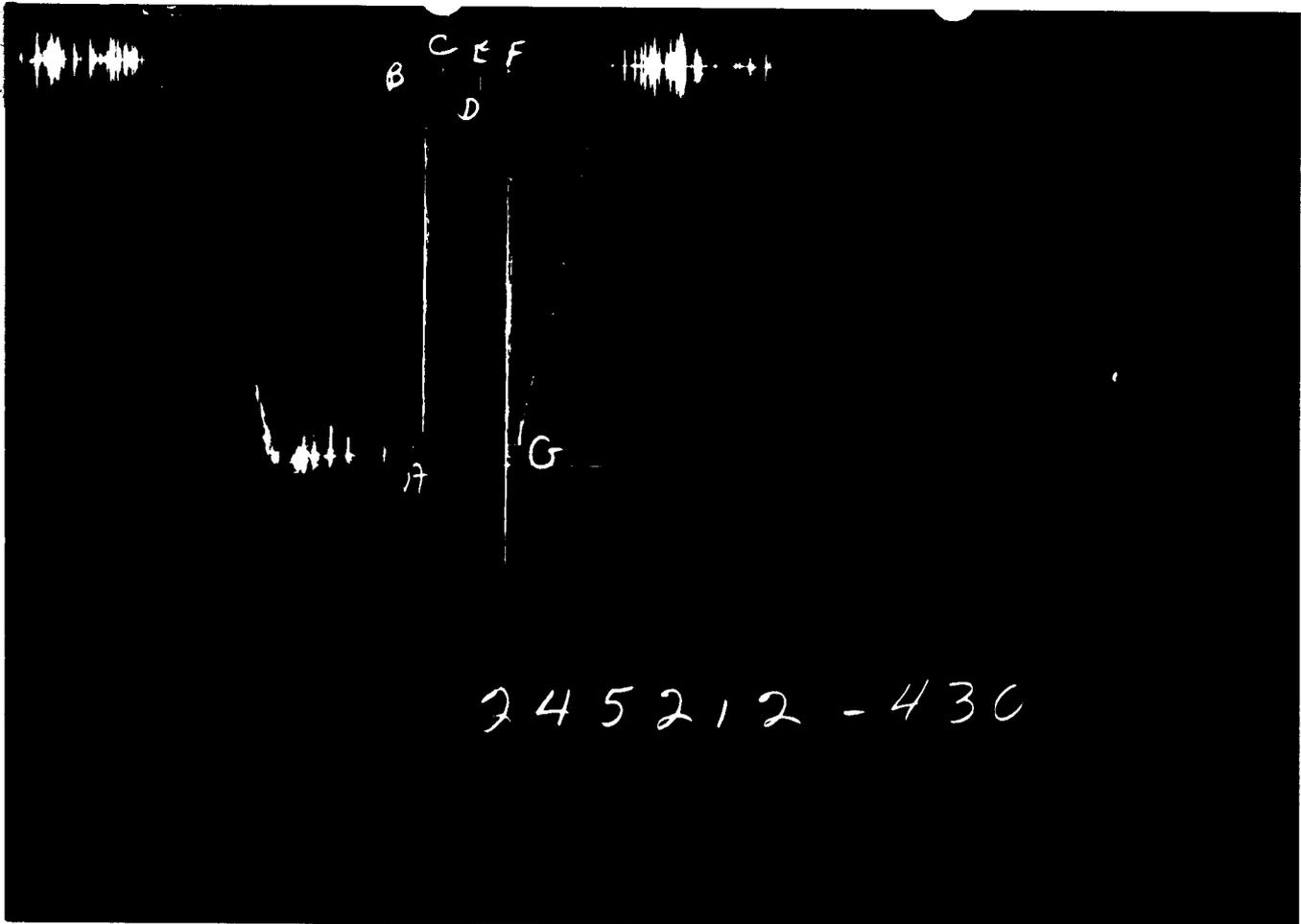
ARMSTRONG FED. 0-1 2 TESTED INTERVAL UNIVERSAL OIL AND GAS
LEASE NAME WELL NO. TEST NO. LEASE OWNER/COMPANY NAME

LEGAL LOCATION 12-215-18E FIELD AREA WILDCAT COUNTY GRAND STATE UTAH OR
SEC. - TYP. - RING.



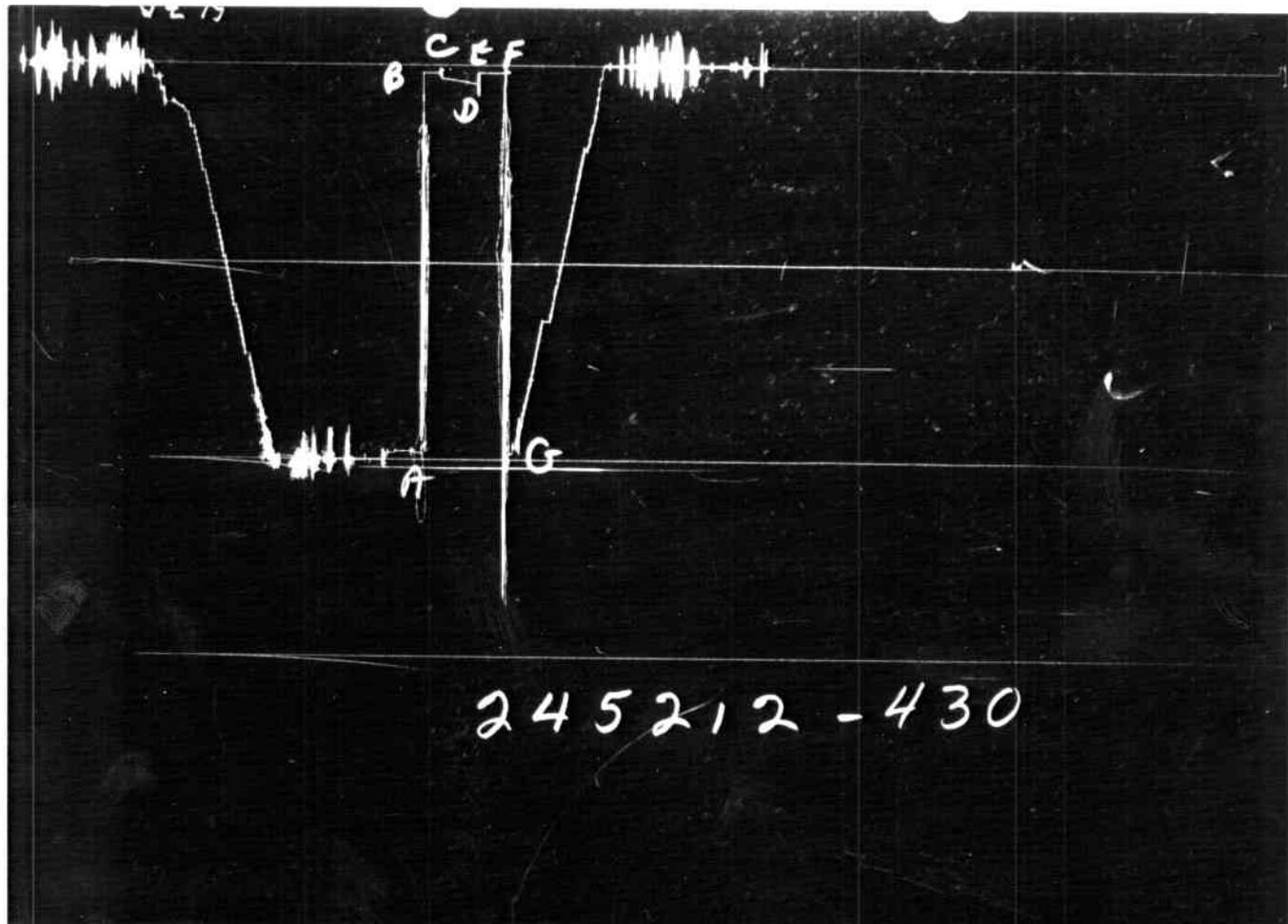
TICKET NO. 24521200
06-NOV-85
VERNAL

FORMATION TESTING SERVICE REPORT

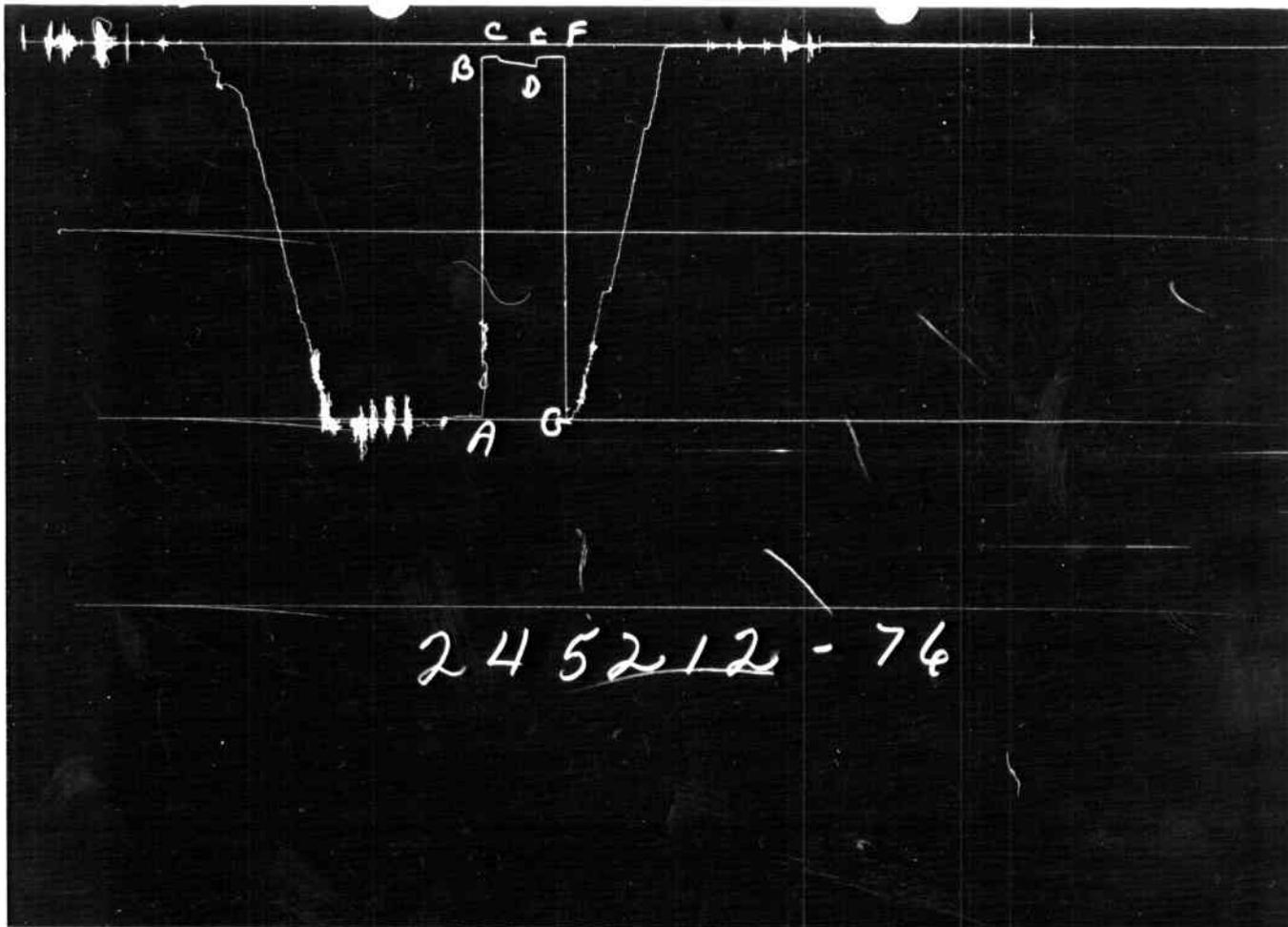


GAUGE NO: 430 DEPTH: 4082.9 BLANKED OFF: NO HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|-------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | | 1965.3 | | | |
| B | INITIAL FIRST FLOW | | 39.0 | | | |
| C | FINAL FIRST FLOW | | 39.0 | 10.0 | 19.0 | F |
| C | INITIAL FIRST CLOSED-IN | | 39.0 | | | |
| D | FINAL FIRST CLOSED-IN | | 94.9 | 45.0 | 43.5 | C |
| E | INITIAL SECOND FLOW | | 38.8 | | | |
| F | FINAL SECOND FLOW | | 38.8 | 30.0 | 31.5 | F |
| G | FINAL HYDROSTATIC | | 1966.9 | | | |
| H | HYDROSTATIC RELEASE | | | | | |



245212-430



245212 - 76

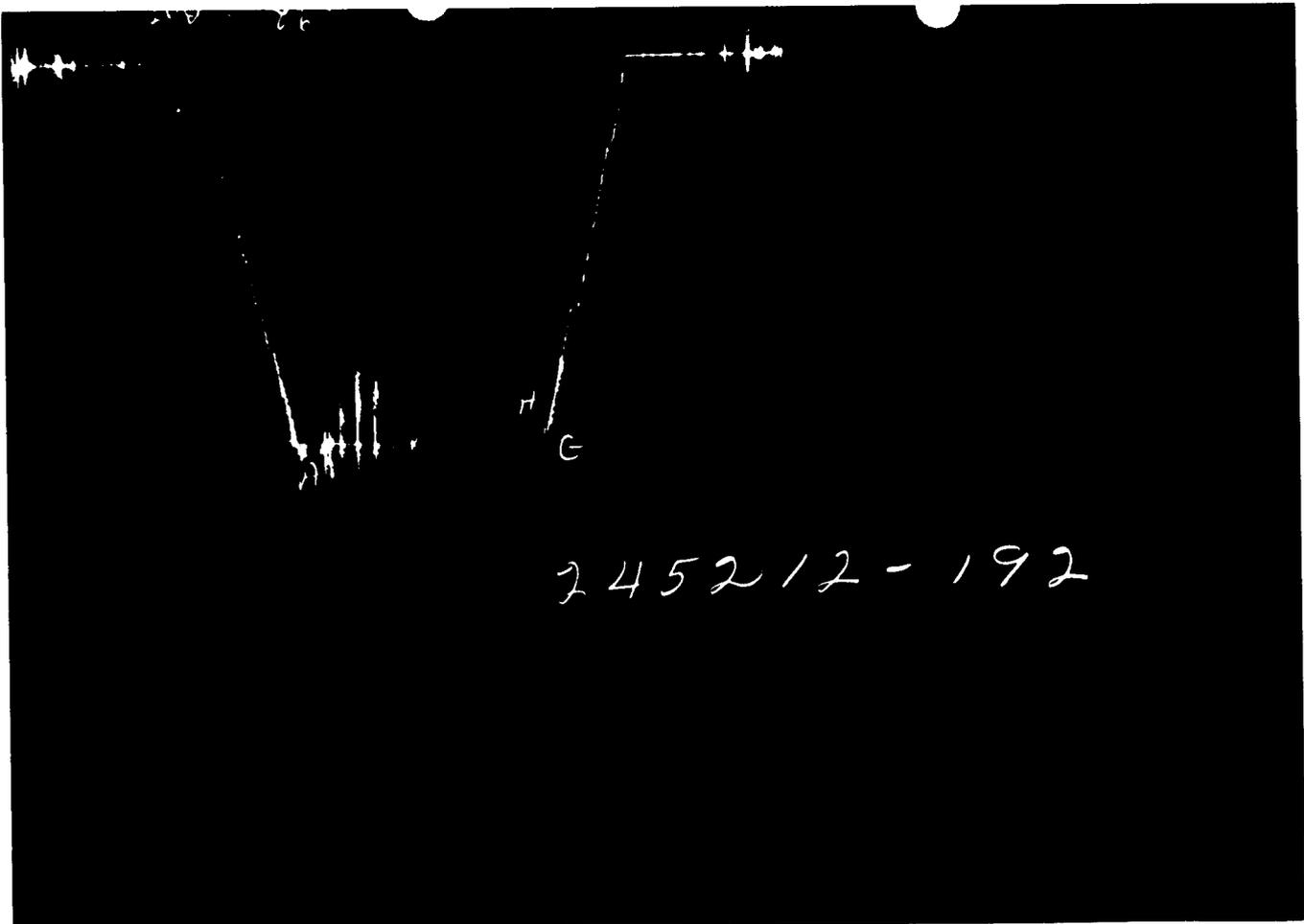
C E F
B D

A G

245212 - 76

GAUGE NO: 76 DEPTH: 4119.1 BLANKED OFF: YES HOUR OF CLOCK: 24

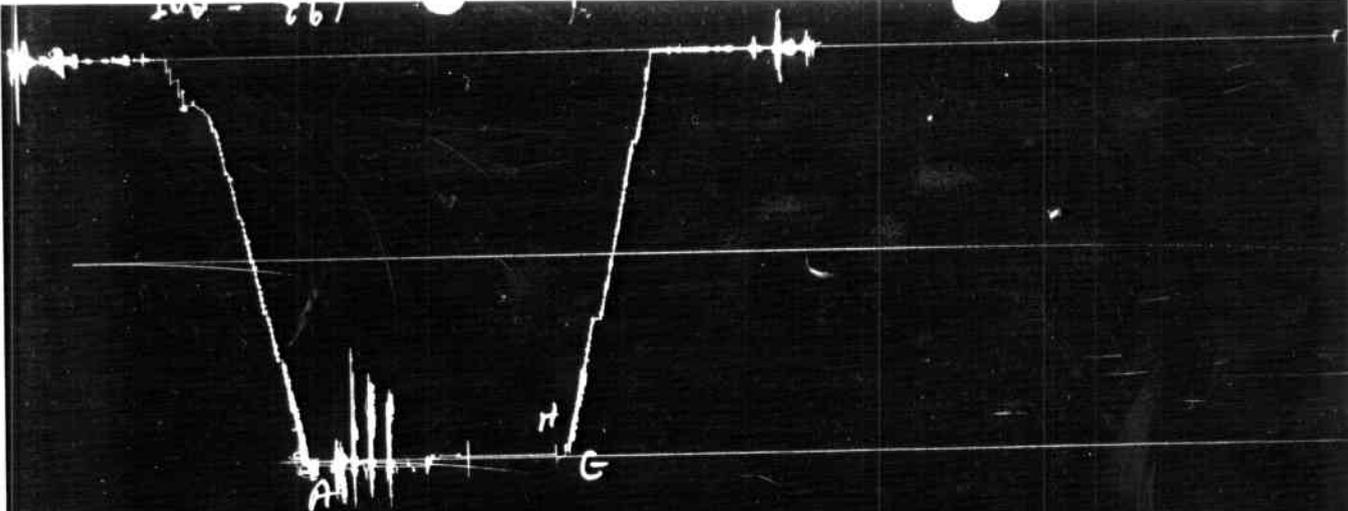
| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|-------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | | 1986.3 | | | |
| B | INITIAL FIRST FLOW | | 75.2 | | | |
| C | FINAL FIRST FLOW | | 66.2 | 10.0 | 19.0 | F |
| C | INITIAL FIRST CLOSED-IN | | 66.2 | | | |
| D | FINAL FIRST CLOSED-IN | | 119.1 | 45.0 | 43.5 | C |
| E | INITIAL SECOND FLOW | | 80.3 | | | |
| F | FINAL SECOND FLOW | | 66.2 | 30.0 | 31.5 | F |
| G | FINAL HYDROSTATIC | | 1991.0 | | | |
| H | HYDROSTATIC RELEASE | | | | | |



GAUGE NO: 192 DEPTH: 4138.1 BLANKED OFF: YES HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|-------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | | 2018.9 | | | |
| B | INITIAL FIRST FLOW | | | 10.0 | | F |
| C | FINAL FIRST FLOW | | | | | |
| C | INITIAL FIRST CLOSED-IN | | | 45.0 | | C |
| D | FINAL FIRST CLOSED-IN | | | | | |
| E | INITIAL SECOND FLOW | | | 30.0 | | F |
| F | FINAL SECOND FLOW | | | | | |
| G | FINAL HYDROSTATIC | | 1999.1 | | | |
| H | HYDROSTATIC RELEASE | | 1986.7 | | | |

190 - 267



245212-192

EQUIPMENT & HOLE DATA

FORMATION TESTED: SALT WASCH
 NET PAY (ft): 12.0
 GROSS TESTED FOOTAGE: _____
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 5473.0 KELLY BUSHING
 TOTAL DEPTH (ft): 5477.0
 PACKER DEPTH(S) (ft): _____
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 51
 ESTIMATED HOLE TEMP. (°F): 110
 ACTUAL HOLE TEMP. (°F): _____ @ _____ ft

TICKET NUMBER: 24521200
 DATE: 10-27-85 TEST NO: 2
 TYPE DST: OFF BT. STRADDLE
 HALLIBURTON CAMP: VERNAL
 TESTER: EROS ROY AROCHO
 WITNESS: _____
 DRILLING CONTRACTOR: VECO-2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

| SOURCE | RESISTIVITY | CHLORIDES |
|----------------|----------------------|------------------|
| <u>MUD PIT</u> | <u>0.390 @ 68 °F</u> | <u>15000 ppm</u> |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |
| _____ | _____ @ _____ °F | _____ ppm |

SAMPLER DATA

Psig AT SURFACE: _____
 cu.ft. OF GAS: _____
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: _____
 TOTAL LIQUID cc: _____

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

| TYPE | AMOUNT | WEIGHT |
|-------|--------|--------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

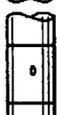
RECOVERED:

MEASURED FROM TESTER VALVE

REMARKS:

MISRUN-TOOLS WOULD NOT GO PAST 4000'-ATTEMPTED TO TEST INTERVAL BETWEEN 4105'-4124'. PULLED TO 3900' AND SET PACKER TO CHECK FOR PACKER SEAT. CUSTOMER ON LOCATION REQUESTED FLOWS AND CLOSED IN PERIOD. THIS ZONE IS TO BE RE-TESTED ON A SUCCEEDING TEST.

TOOL DEPTHS NOT REPORTED FOR THE SECOND INTERVAL.

| | | O.D. | I.D. | LENGTH | DEPTH |
|-------------|---|----------------------------------|-------|--------|--------|
| 1 |  | DRILL PIPE..... | 3.500 | 2.764 | |
| 3 |  | DRILL COLLARS..... | 6.000 | 2.250 | |
| 50 |  | IMPACT REVERSING SUB..... | 6.000 | 3.000 | 1.0 |
| 3 |  | DRILL COLLARS..... | 6.000 | 2.250 | 56.4 |
| 5 |  | CROSSOVER..... | 5.750 | 2.375 | 1.0 |
| 13 |  | DUAL CIP SAMPLER..... | 5.000 | 0.750 | 7.0 |
| 60 |  | HYDROSPRING TESTER..... | 5.000 | 0.750 | 5.0 |
| 80 |  | AP RUNNING CASE..... | 5.000 | 2.250 | 4.1 |
| 15 |  | JAR..... | 5.000 | 1.750 | 5.0 |
| 16 |  | VR SAFETY JOINT..... | 5.000 | 1.000 | 2.8 |
| 17 |  | PRESSURE EQUALIZING CROSSOVER... | 5.000 | 0.750 | 1.0 |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 5.8 |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 5.8 |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.750 | 3.500 | 10.0 |
| 17 |  | PRESSURE EQUALIZING CROSSOVER... | 5.000 | 0.750 | 1.6 |
| 81 |  | BLANKED-OFF RUNNING CASE..... | 5.000 | | 4.1 |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 7.4 |
| 90 |  | SIDE WALL ANCHOR..... | 7.500 | 1.620 | 5.5 |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.750 | 3.500 | 2.0 |
| 81 |  | BLANKED-OFF RUNNING CASE..... | 5.750 | | 4.2 |
| TOTAL DEPTH | | | | | 5477.0 |

EQUIPMENT DATA



TICKET NO. 24536700

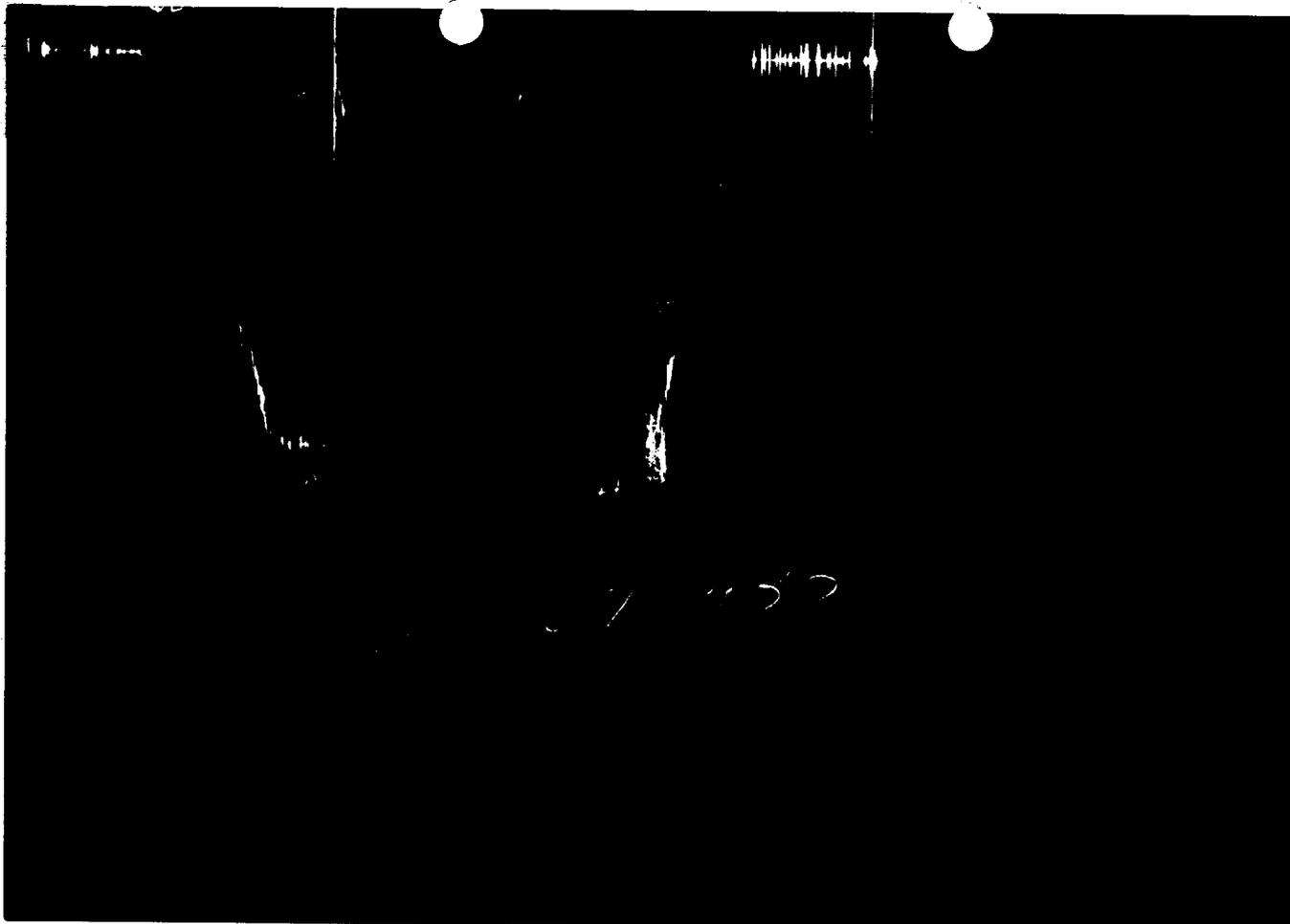
04-NOV-85

VERNAL

FORMATION TESTING SERVICE REPORT

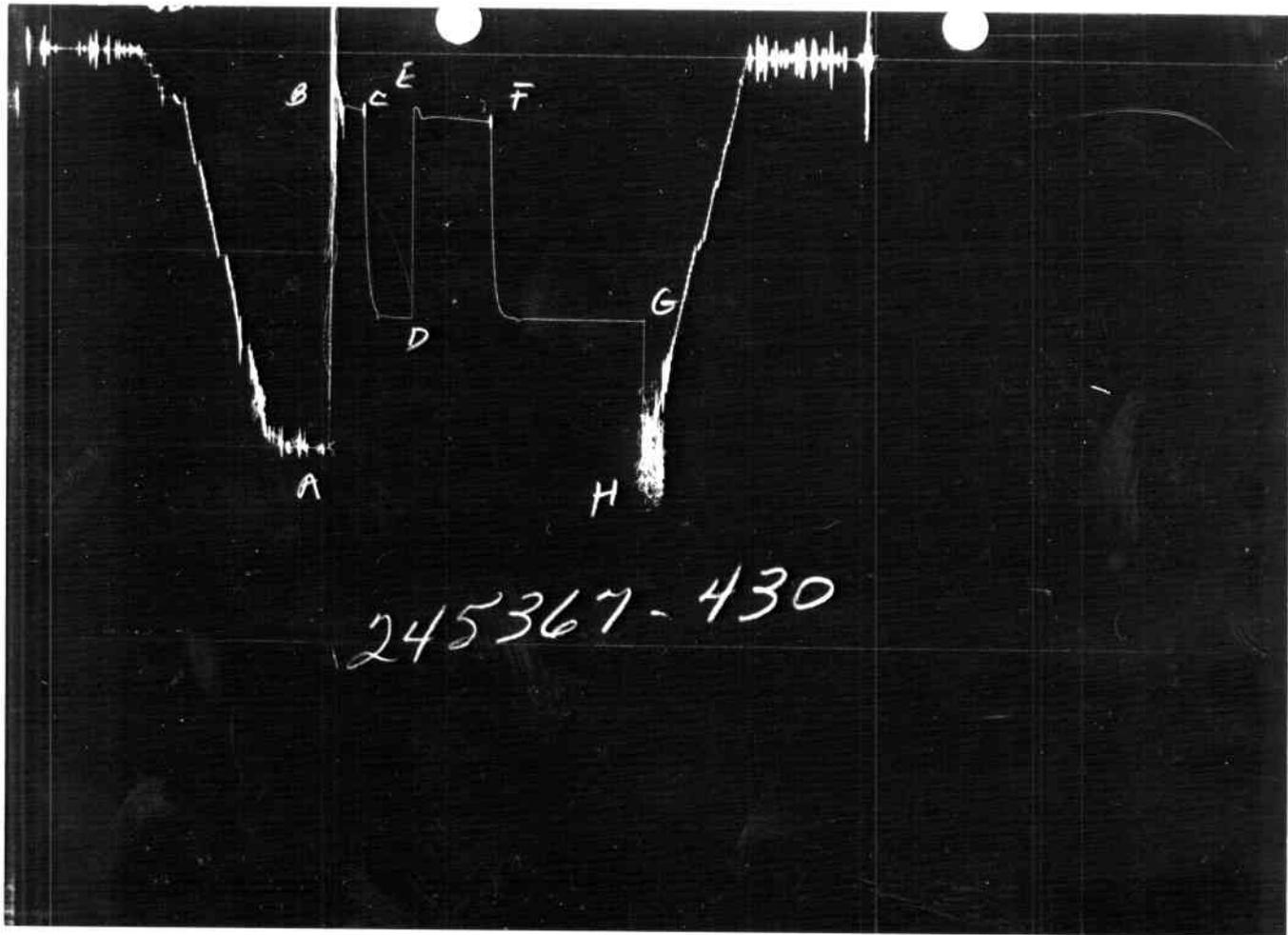
| | | | | |
|--------------------|------------|------------|-----------------|--------------------------|
| ARMSTRONG FEDERAL | 1 | 3 | 4105.0 - 4124.0 | UNIVERSAL OIL AND GAS |
| LEASE NAME | WELL NO. | TEST NO. | TESTED INTERVAL | LEASE OWNER/COMPANY NAME |
| LEGAL LOCATION | 12-21S-18E | FIELD AREA | WILDCAT | COUNTY |
| SEC. - TWP. - RNG. | | | | GRAND |
| | | | | STATE |
| | | | | UTAH |
| | | | | IC |

225

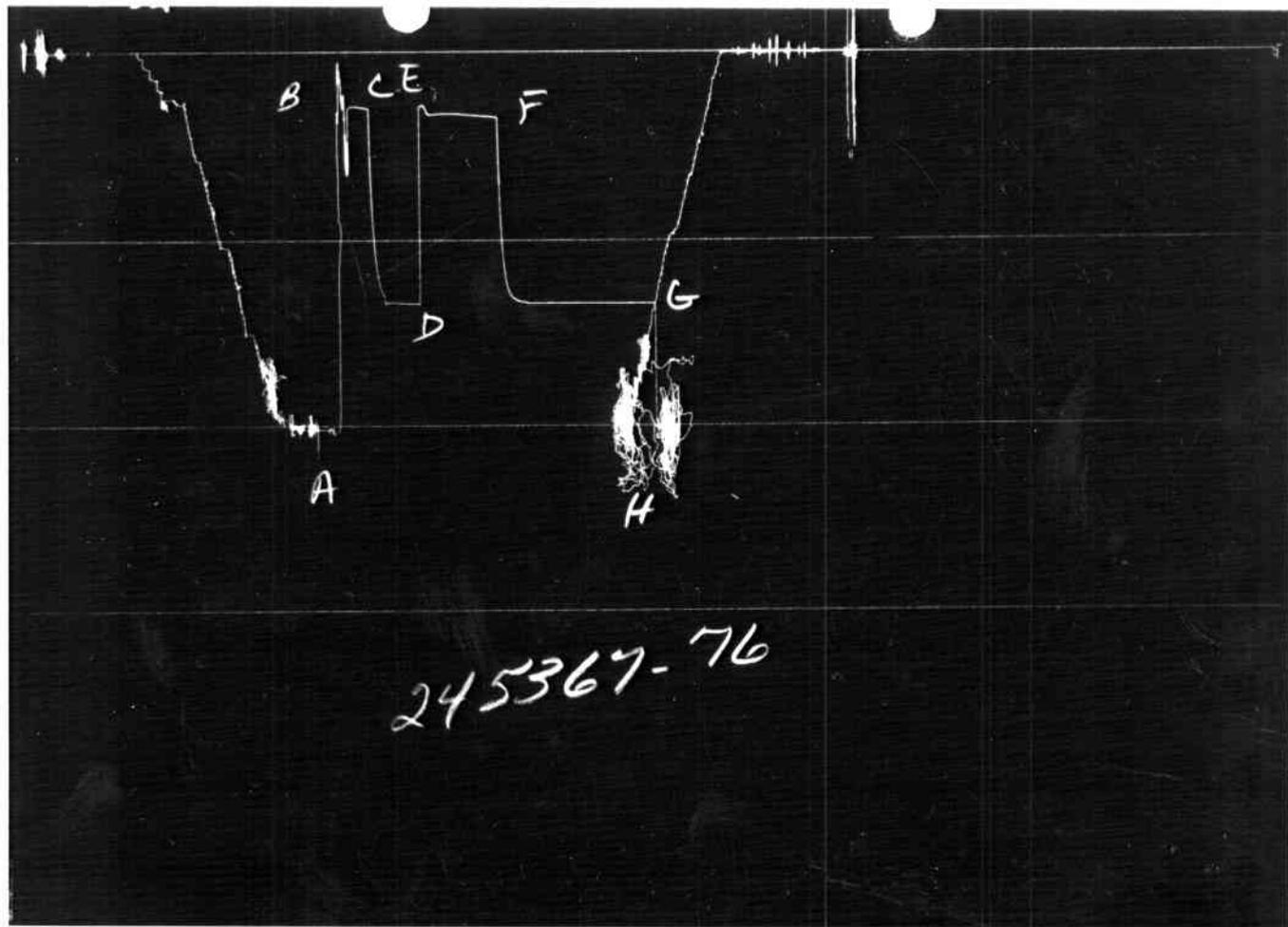


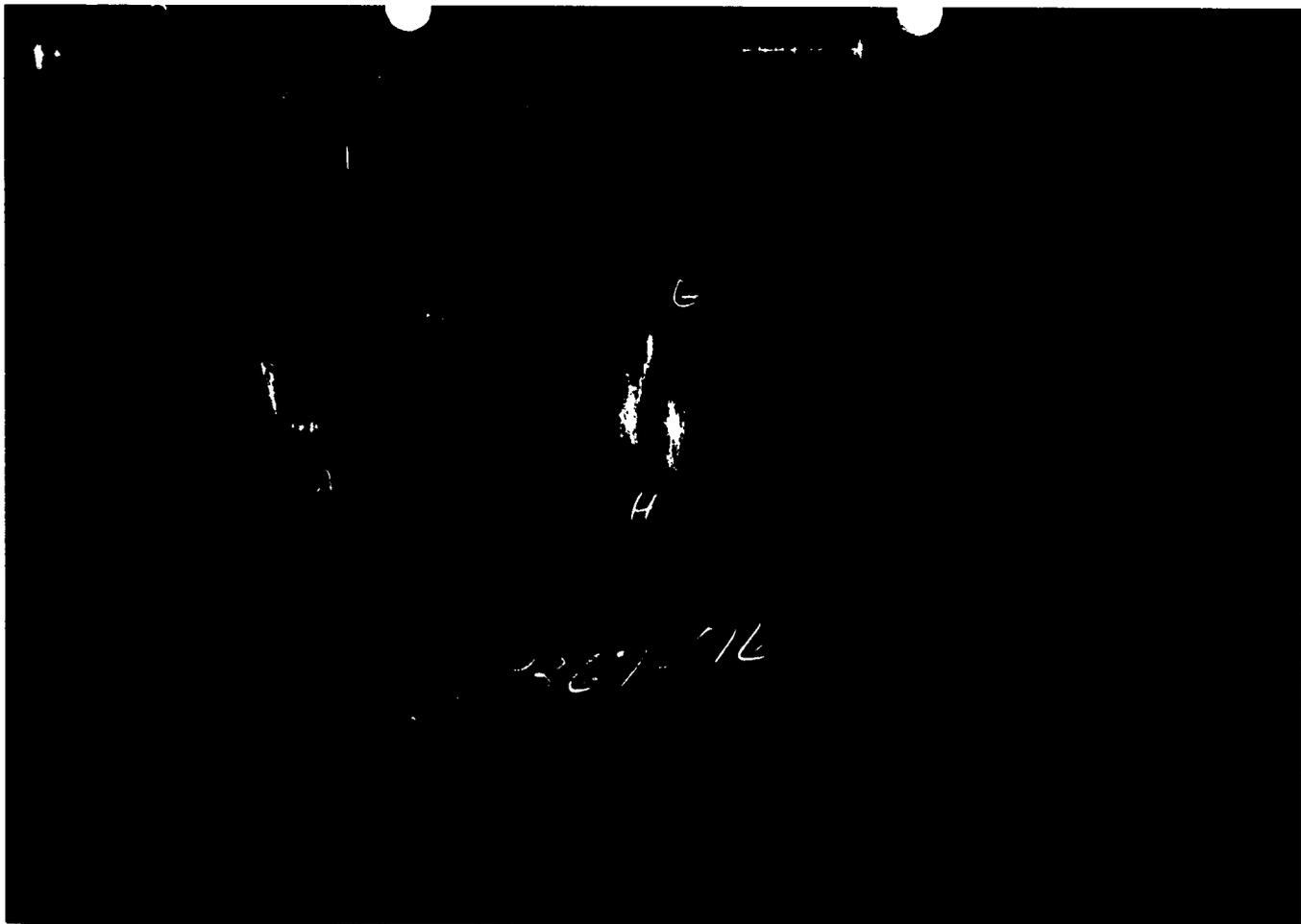
GAUGE NO: 430 DEPTH: 4082.9 BLANKED OFF: NO HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|--------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | 2006 | 2019.8 | | | |
| B | INITIAL FIRST FLOW | 53 | 66.3 | | | |
| C | FINAL FIRST FLOW | 277 | 294.4 | 36.0 | 35.6 | F |
| C | INITIAL FIRST CLOSED-IN | 277 | 294.4 | | | |
| D | FINAL FIRST CLOSED-IN | 1346 | 1351.6 | 60.0 | 58.2 | C |
| E | INITIAL SECOND FLOW | 264 | 278.3 | | | |
| F | FINAL SECOND FLOW | 344 | 345.3 | 90.0 | 91.2 | F |
| F | INITIAL SECOND CLOSED-IN | 344 | 345.3 | | | |
| G | FINAL SECOND CLOSED-IN | 1346 | 1351.3 | 181.0 | 182.0 | C |
| H | FINAL HYDROSTATIC | 2019 | 1950.8 | | | |
| I | HYDROSTATIC RELEASE | | | | | |



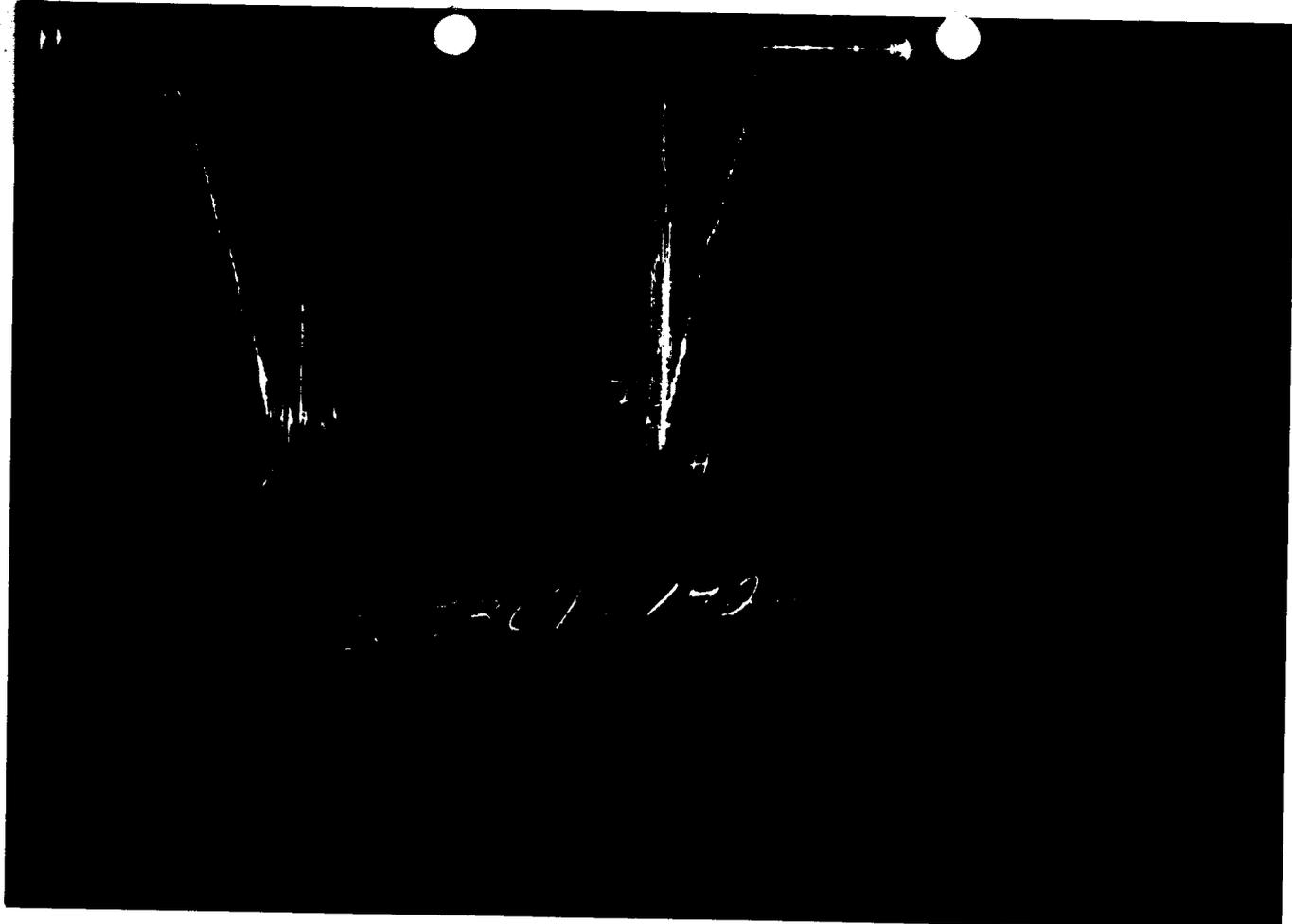
245367-430





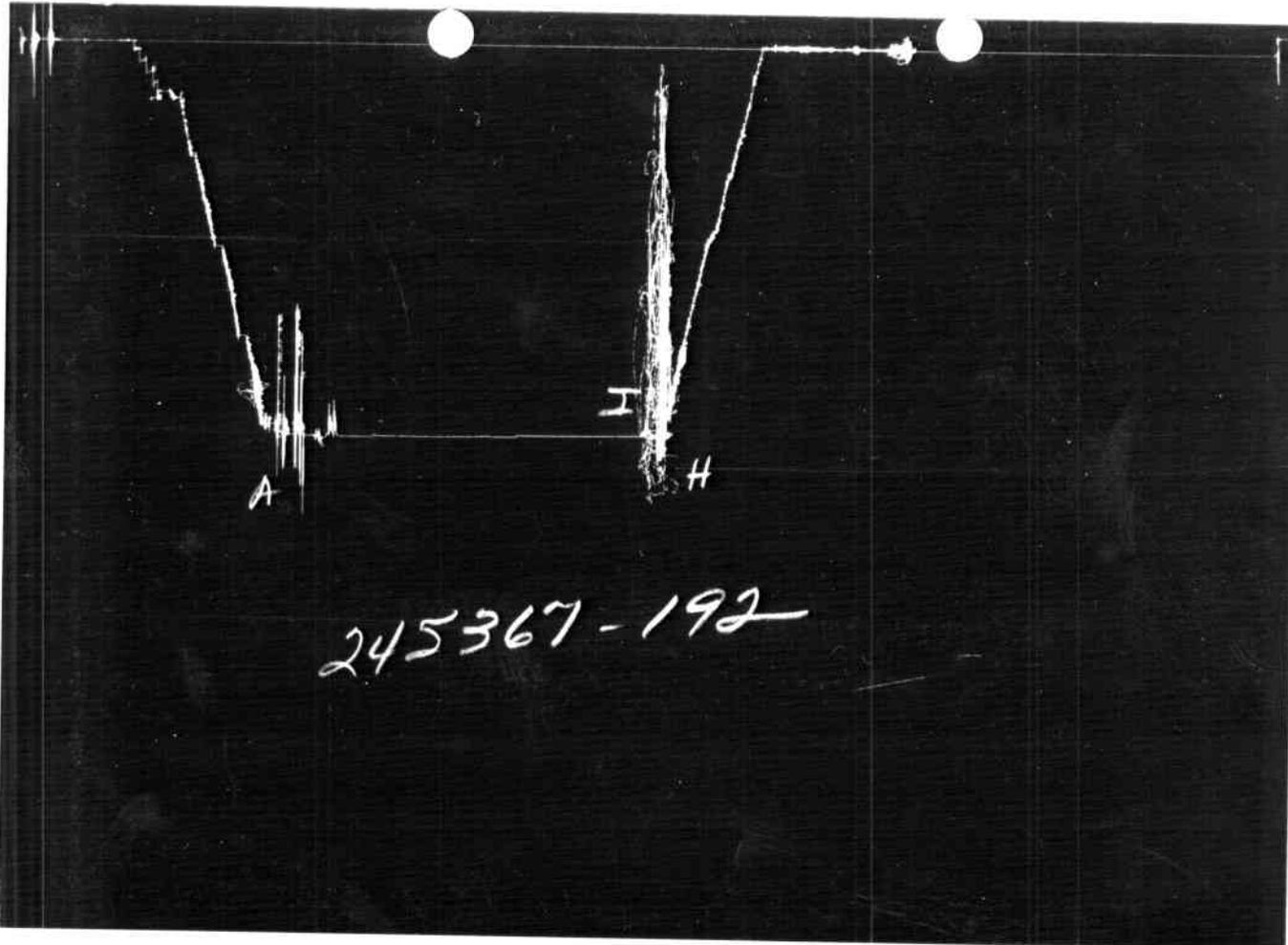
GAUGE NO: 76 DEPTH: 4119.1 BLANKED OFF: YES HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|--------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | 2044 | 2040.4 | | | |
| B | INITIAL FIRST FLOW | 83 | 98.9 | | | |
| C | FINAL FIRST FLOW | 307 | 305.9 | 36.0 | 35.6 | F |
| C | INITIAL FIRST CLOSED-IN | 307 | 305.9 | | | |
| D | FINAL FIRST CLOSED-IN | 1350 | 1358.6 | 60.0 | 58.2 | C |
| E | INITIAL SECOND FLOW | 293 | 300.4 | | | |
| F | FINAL SECOND FLOW | 349 | 354.5 | 90.0 | 91.2 | F |
| F | INITIAL SECOND CLOSED-IN | 349 | 354.5 | | | |
| G | FINAL SECOND CLOSED-IN | 1350 | 1358.3 | 181.0 | 182.0 | C |
| H | FINAL HYDROSTATIC | 2058 | 1977.3 | | | |
| I | HYDROSTATIC RELEASE | | | | | |



GAUGE NO: 192 DEPTH: 4138.1 BLANKED OFF: YES HOUR OF CLOCK: 24

| ID | DESCRIPTION | PRESSURE | | TIME | | TYPE |
|----|--------------------------|----------|------------|----------|------------|------|
| | | REPORTED | CALCULATED | REPORTED | CALCULATED | |
| A | INITIAL HYDROSTATIC | 1974 | 2044.5 | | | |
| B | INITIAL FIRST FLOW | | | 36.0 | | F |
| C | FINAL FIRST FLOW | | | | | |
| C | INITIAL FIRST CLOSED-IN | | | 60.0 | | C |
| D | FINAL FIRST CLOSED-IN | | | | | |
| E | INITIAL SECOND FLOW | | | 90.0 | | F |
| F | FINAL SECOND FLOW | | | | | |
| F | INITIAL SECOND CLOSED-IN | | | 181.0 | | C |
| G | FINAL SECOND CLOSED-IN | | | | | |
| H | FINAL HYDROSTATIC | 2015 | 2035.9 | | | |
| I | HYDROSTATIC RELEASE | | 2029.2 | | | |



A

H

H

245367-192

EQUIPMENT & HOLE DATA

FORMATION TESTED: SALT WASH
 NET PAY (ft): 12.0
 GROSS TESTED FOOTAGE: 19.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 5473.0 KELLY BUSHING
 TOTAL DEPTH (ft): 5500.0
 PACKER DEPTH(S) (ft): 4099. 4105. 4124
 FINAL SURFACE CHOKE (in): 0.25000
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 9.20
 MUD VISCOSITY (sec): 51
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 116 @ 4137.0 ft

TICKET NUMBER: 24536700
 DATE: 10-28-85 TEST NO: 3
 TYPE DST: OFF BTM.STRADDLE
 HALLIBURTON CAMP: VERNAL
 TESTER: EROS ROY AROCHO
 WITNESS: JAMES JONES
 DRILLING CONTRACTOR: VECO DRILLING RIG #2

FLUID PROPERTIES FOR RECOVERED MUD & WATER

| SOURCE | RESISTIVITY | CHLORIDES |
|---------|----------------------|------------------|
| MUD PIT | <u>0.398 @ 68 °F</u> | <u>15000 ppm</u> |
| _____ | _____ °F | _____ ppm |
| _____ | _____ °F | _____ ppm |
| _____ | _____ °F | _____ ppm |
| _____ | _____ °F | _____ ppm |
| _____ | _____ °F | _____ ppm |

SAMPLER DATA

Pstg AT SURFACE: 280.0
 cu.ft. OF GAS: 1.020
 cc OF OIL: 950.0
 cc OF WATER: _____
 cc OF MUD: 200.0
 TOTAL LIQUID cc: 1150.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): 49.0 @ 60 °F
 GAS/OIL RATIO (cu.ft. per bbl): 170
 GAS GRAVITY: _____

CUSHION DATA

| TYPE | AMOUNT | WEIGHT |
|-------|--------|--------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |

RECOVERED:

APPROXIMATELY 90' OF OIL (.66 BBLs)
 APPROXIMATELY 60' OF MUD CUT OIL (.44 BBLs)
 APPROXIMATELY 630' OF OIL CUT MUD (2.25 BBLs)
 APPROXIMATELY 20' OF SAND
 TOTAL FLUID - 3.35 BARRELS + 20' OF SAND

MEASURED FROM
TESTER VALVE

REMARKS:

CHARTS INDICATE POSSIBLE PACKER SLIPPAGE DURING THE INITIAL OPENING OF THE TOOL ALLOWING MUD HYDROSTATIC TO ENTER THE TOOL STRING. THIS ALSO APPARENTLY OCCURED MOMENTARILY DURING THE CLOSED-IN PERIODS. IT WAS RECOMMENDED THAT THIS TEST BE RE-RUN.

| TYPE & SIZE MEASURING DEVICE: LT-20 MANIFOLD | | | | | TICKET NO: 24536700 |
|--|------------|----------------------|--------------|-----------------|----------------------------------|
| TIME | CHOKE SIZE | SURFACE PRESSURE PSI | GAS RATE MCF | LIQUID RATE BPD | REMARKS |
| 10-28-85 | | | | | |
| 0400 | | | | | RAN IN HOLE - CONDITIONING |
| 1800 | | | | | PICKED UP CORE GUN |
| 2200 | | | | | PICKED UP TOOLS |
| 2300 | | | | | RAN IN HOLE |
| 10-29-85 | | | | | |
| 0334 | | | | | SET HOOK |
| 0341 | .125" BH | | 2.05 | | OPENED TOOL WITH 15" OF WATER |
| 0346 | | 18 | | | |
| 0348 | .25 | | | | |
| 0351 | | 22 | | | LOST APPROXIMATELY 40' IN |
| | | | | | ANNULUS - STABILIZED |
| 0356 | | 17 | 47.12 | | |
| 0401 | | 17 | 47.12 | | |
| 0406 | | 18 | 48.60 | | |
| 0411 | | 19 | 50.07 | | |
| 0417 | | 20 | 51.54 | | CLOSED TOOL |
| 0517 | BH | | | | OPENED TOOL WITH 6" OF WATER |
| 0522 | | 1.5 | | | |
| 0527 | .25 | 40 | | | OPENED TO 1/4" CHOKE |
| 0532 | | 36 | | | |
| 0537 | | 31 | | | |
| 0542 | | 29 | | | |
| 0547 | | 27 | 61.85 | | |
| 0552 | | 27 | | | |
| 0557 | | 26 | | | |
| 0602 | | 26 | | | |
| 0607 | | 26 | | | |
| 0617 | | 26 | | | |
| 0627 | | 26 | | | |
| 0637 | | 26 | | | |
| 0642 | | 27 | | | |
| 0647 | | 27 | | | CLOSED TOOL |
| 0948 | | | | | OPENED BYPASS AND PULLED OUT OF |
| | | | | | HOLE |
| 1400 | | | | | LAI D DOWN TOOLS AND READ CHARTS |
| | | | | | |

TICKET NO: 24536700
 CLOCK NO: 32034 HOUR: 24



GAUGE NO: 430
 DEPTH: 4002.9

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|-----------------------------|---------|----------|--------|--|--------------------------------------|
| FIRST FLOW | | | | | |
| B 1 | 0.0 | 66.3 | | | |
| 2 | 3.0 | 122.1 | 55.8 | | |
| 3 | 6.0 | 194.5 | 72.4 | | |
| 4 | 9.0 | 251.0 | 56.5 | | |
| 5 | 12.0 | 292.3 | 41.3 | | |
| 6 | 15.0 | 272.2 | -20.1 | | |
| 7 | 18.0 | 275.1 | 2.9 | | |
| 8 | 21.0 | 279.8 | 4.8 | | |
| 9 | 24.0 | 283.9 | 4.1 | | |
| 10 | 27.0 | 287.4 | 3.4 | | |
| 11 | 30.0 | 290.2 | 2.8 | | |
| 12 | 33.0 | 292.4 | 2.3 | | |
| C 13 | 35.6 | 294.4 | 2.0 | | |
| FIRST CLOSED-IN | | | | | |
| C 1 | 0.0 | 294.4 | | | |
| 2 | 1.0 | 621.3 | 326.9 | 1.0 | 1.572 |
| 3 | 2.0 | 781.9 | 487.5 | 1.9 | 1.270 |
| 4 | 3.0 | 894.8 | 600.4 | 2.8 | 1.110 |
| 5 | 4.0 | 985.5 | 691.1 | 3.6 | 0.995 |
| 6 | 5.0 | 1046.6 | 752.3 | 4.4 | 0.911 |
| 7 | 6.0 | 1099.3 | 804.9 | 5.1 | 0.843 |
| 8 | 7.0 | 1147.9 | 853.5 | 5.9 | 0.784 |
| 9 | 8.0 | 1188.5 | 894.1 | 6.5 | 0.736 |
| 10 | 9.0 | 1219.6 | 925.2 | 7.2 | 0.696 |
| 11 | 10.0 | 1244.0 | 949.6 | 7.8 | 0.660 |
| 12 | 12.0 | 1280.6 | 986.2 | 9.0 | 0.598 |
| 13 | 14.0 | 1302.6 | 1008.3 | 10.0 | 0.550 |
| 14 | 16.0 | 1317.7 | 1023.3 | 11.0 | 0.509 |
| <input type="checkbox"/> 15 | 17.5 | 1322.1 | 1027.7 | 11.7 | 0.482 |
| 16 | 18.0 | 1351.9 | 1057.5 | 12.0 | 0.474 |
| 17 | 20.0 | 1342.4 | 1048.0 | 12.8 | 0.444 |
| 18 | 22.0 | 1340.8 | 1046.4 | 13.6 | 0.418 |
| 19 | 24.0 | 1341.4 | 1047.0 | 14.3 | 0.395 |
| 20 | 26.0 | 1342.8 | 1048.4 | 15.0 | 0.375 |
| 21 | 28.0 | 1344.2 | 1049.8 | 15.7 | 0.356 |
| 22 | 30.0 | 1345.4 | 1051.0 | 16.3 | 0.340 |
| 23 | 35.0 | 1347.5 | 1053.1 | 17.6 | 0.305 |
| 24 | 40.0 | 1348.7 | 1054.3 | 18.8 | 0.277 |
| 25 | 45.0 | 1349.7 | 1055.3 | 19.9 | 0.253 |
| 26 | 50.0 | 1350.4 | 1056.0 | 20.8 | 0.233 |
| 27 | 55.0 | 1350.8 | 1056.4 | 21.6 | 0.217 |
| D 28 | 58.2 | 1351.6 | 1057.2 | 22.1 | 0.207 |
| SECOND FLOW | | | | | |
| E 1 | 0.0 | 278.3 | | | |
| 2 | 5.0 | 276.7 | -1.6 | | |

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|--------------------------------|---------|----------|--------|--|--------------------------------------|
| SECOND FLOW - CONTINUED | | | | | |
| 3 | 10.0 | 331.4 | 54.7 | | |
| 4 | 15.0 | 330.1 | -1.3 | | |
| 5 | 20.0 | 325.6 | -4.5 | | |
| 6 | 25.0 | 323.8 | -1.7 | | |
| 7 | 30.0 | 323.8 | 0.0 | | |
| 8 | 35.0 | 323.8 | 0.0 | | |
| 9 | 40.0 | 324.8 | 0.9 | | |
| 10 | 45.0 | 327.4 | 2.6 | | |
| 11 | 50.0 | 329.5 | 2.1 | | |
| 12 | 55.0 | 331.4 | 1.9 | | |
| 13 | 60.0 | 332.8 | 1.5 | | |
| 14 | 65.0 | 335.4 | 2.5 | | |
| 15 | 70.0 | 337.1 | 1.7 | | |
| 16 | 75.0 | 338.8 | 1.7 | | |
| 17 | 80.0 | 340.5 | 1.7 | | |
| 18 | 85.0 | 342.6 | 2.1 | | |
| F 19 | 91.2 | 345.3 | 2.6 | | |
| SECOND CLOSED-IN | | | | | |
| F 1 | 0.0 | 345.3 | | | |
| 2 | 1.0 | 652.5 | 307.2 | 1.0 | 2.122 |
| 3 | 2.0 | 819.5 | 474.2 | 2.0 | 1.811 |
| 4 | 3.0 | 938.0 | 592.7 | 2.9 | 1.639 |
| 5 | 4.0 | 1025.0 | 679.7 | 3.9 | 1.517 |
| 6 | 5.0 | 1097.6 | 752.3 | 4.8 | 1.423 |
| 7 | 6.0 | 1150.8 | 805.5 | 5.7 | 1.347 |
| 8 | 7.0 | 1195.9 | 850.6 | 6.7 | 1.280 |
| 9 | 8.0 | 1230.7 | 885.5 | 7.5 | 1.226 |
| 10 | 9.0 | 1253.8 | 908.5 | 8.4 | 1.177 |
| 11 | 10.0 | 1275.9 | 930.6 | 9.3 | 1.136 |
| 12 | 12.0 | 1301.3 | 956.0 | 11.0 | 1.063 |
| 13 | 14.0 | 1317.6 | 972.3 | 12.6 | 1.001 |
| 14 | 16.0 | 1327.5 | 982.2 | 14.2 | 0.951 |
| 15 | 18.0 | 1333.7 | 988.4 | 15.8 | 0.905 |
| 16 | 20.0 | 1337.7 | 992.4 | 17.2 | 0.867 |
| 17 | 22.0 | 1341.4 | 996.1 | 18.8 | 0.830 |
| 18 | 24.0 | 1342.9 | 997.6 | 20.2 | 0.798 |
| 19 | 26.0 | 1344.2 | 998.9 | 21.6 | 0.770 |
| 20 | 28.0 | 1345.4 | 1000.1 | 22.9 | 0.743 |
| 21 | 30.0 | 1346.3 | 1001.0 | 24.3 | 0.718 |
| 22 | 35.0 | 1353.8 | 1008.6 | 27.4 | 0.665 |
| 23 | 40.0 | 1347.7 | 1002.5 | 30.4 | 0.620 |
| 24 | 45.0 | 1347.1 | 1001.8 | 33.2 | 0.582 |
| 25 | 50.0 | 1347.3 | 1002.1 | 35.8 | 0.549 |
| 26 | 55.0 | 1348.0 | 1002.7 | 38.4 | 0.519 |
| 27 | 60.0 | 1348.7 | 1003.4 | 40.7 | 0.493 |
| 28 | 70.0 | 1349.3 | 1004.1 | 45.1 | 0.449 |
| 29 | 80.0 | 1349.7 | 1004.5 | 49.0 | 0.413 |
| 30 | 90.0 | 1349.9 | 1004.6 | 52.6 | 0.382 |
| 31 | 100.0 | 1350.4 | 1005.1 | 55.9 | 0.356 |
| 32 | 110.0 | 1350.7 | 1005.4 | 58.9 | 0.333 |

LEGEND:
 POSSIBLE MOMENTARY LEAKAGE

REMARKS:
 FIRST FLOW READINGS EXTREMELY QUESTIONABLE.

TICKET NO: 24536700
 CLOCK NO: 32034 HOUR: 24



GAUGE NO: 430
 DEPTH: 4082.9

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|------------------------------|---------|----------|--------|--|--------------------------------------|
| SECOND CLOSED-IN - CONTINUED | | | | | |
| 33 | 120.0 | 1351.1 | 1005.8 | 61.7 | 0.313 |
| 34 | 150.0 | 1351.3 | 1006.0 | 68.7 | 0.266 |
| G 35 | 182.0 | 1351.3 | 1006.0 | 74.7 | 0.230 |

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|-----|---------|----------|----|--|--------------------------------------|
| | | | | | |

LEGEND:
 POSSIBLE MOMENTARY LEAKAGE

REMARKS:
 FIRST FLOW READINGS EXTREMELY QUESTIONABLE.

TICKET NO: 24536700
 CLOCK NO: 11654 HOUR: 24



GAUGE NO: 76
 DEPTH: 4119.1

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|-----------------------------|---------|----------|--------|--|--------------------------------------|
| FIRST FLOW | | | | | |
| B 1 | 0.0 | 98.9 | | | |
| 2 | 3.0 | 154.7 | 55.7 | | |
| 3 | 6.0 | 235.7 | 81.0 | | |
| 4 | 9.0 | 528.1 | 292.4 | | |
| 5 | 12.0 | 304.6 | -223.5 | | |
| 6 | 15.0 | 296.2 | -8.4 | | |
| 7 | 18.0 | 295.0 | -1.3 | | |
| 8 | 21.0 | 297.0 | 2.1 | | |
| 9 | 24.0 | 298.6 | 1.5 | | |
| 10 | 27.0 | 301.4 | 2.8 | | |
| 11 | 30.0 | 302.9 | 1.5 | | |
| 12 | 33.0 | 304.9 | 2.0 | | |
| C 13 | 35.6 | 305.9 | 1.0 | | |
| FIRST CLOSED-IN | | | | | |
| C 1 | 0.0 | 305.9 | | | |
| 2 | 1.0 | 620.0 | 314.2 | 1.0 | 1.573 |
| 3 | 2.0 | 753.8 | 448.0 | 1.9 | 1.271 |
| 4 | 3.0 | 861.2 | 555.4 | 2.7 | 1.114 |
| 5 | 4.0 | 945.4 | 639.6 | 3.6 | 0.998 |
| 6 | 5.0 | 1018.6 | 712.8 | 4.4 | 0.907 |
| 7 | 6.0 | 1071.6 | 765.7 | 5.1 | 0.842 |
| 8 | 7.0 | 1124.6 | 818.8 | 5.9 | 0.783 |
| 9 | 8.0 | 1165.0 | 859.2 | 6.6 | 0.735 |
| 10 | 9.0 | 1197.3 | 891.4 | 7.2 | 0.694 |
| 11 | 10.0 | 1225.8 | 919.9 | 7.8 | 0.658 |
| 12 | 12.0 | 1267.4 | 961.6 | 9.0 | 0.597 |
| 13 | 14.0 | 1290.9 | 985.1 | 10.0 | 0.550 |
| 14 | 16.0 | 1310.4 | 1004.5 | 11.0 | 0.508 |
| <input type="checkbox"/> 15 | 17.5 | 1319.7 | 1013.8 | 11.7 | 0.483 |
| 16 | 18.0 | 1354.3 | 1048.4 | 12.0 | 0.474 |
| 17 | 20.0 | 1354.3 | 1048.4 | 12.8 | 0.444 |
| 18 | 22.0 | 1352.9 | 1047.0 | 13.6 | 0.418 |
| 19 | 24.0 | 1352.2 | 1046.3 | 14.3 | 0.395 |
| 20 | 26.0 | 1352.2 | 1046.3 | 15.0 | 0.374 |
| 21 | 28.0 | 1352.2 | 1046.3 | 15.7 | 0.356 |
| 22 | 30.0 | 1352.7 | 1046.9 | 16.3 | 0.340 |
| 23 | 35.0 | 1354.0 | 1048.1 | 17.7 | 0.305 |
| 24 | 40.0 | 1355.8 | 1049.9 | 18.8 | 0.277 |
| 25 | 45.0 | 1357.2 | 1051.3 | 19.9 | 0.253 |
| 26 | 50.0 | 1357.7 | 1051.9 | 20.8 | 0.234 |
| 27 | 55.0 | 1358.7 | 1052.9 | 21.6 | 0.217 |
| D 28 | 58.2 | 1358.6 | 1052.7 | 22.1 | 0.207 |
| SECOND FLOW | | | | | |
| E 1 | 0.0 | 300.4 | | | |
| 2 | 5.0 | 289.8 | -10.6 | | |

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|--------------------------------|---------|----------|--------|--|--------------------------------------|
| SECOND FLOW - CONTINUED | | | | | |
| 3 | 10.0 | 332.1 | 42.4 | | |
| 4 | 15.0 | 339.3 | 7.1 | | |
| 5 | 20.0 | 337.4 | -1.8 | | |
| 6 | 25.0 | 334.9 | -2.5 | | |
| 7 | 30.0 | 334.4 | -0.6 | | |
| 8 | 35.0 | 334.7 | 0.3 | | |
| 9 | 40.0 | 334.7 | 0.0 | | |
| 10 | 45.0 | 335.5 | 0.8 | | |
| 11 | 50.0 | 338.1 | 2.7 | | |
| 12 | 55.0 | 339.8 | 1.7 | | |
| 13 | 60.0 | 342.5 | 2.7 | | |
| 14 | 65.0 | 344.3 | 1.8 | | |
| 15 | 70.0 | 346.1 | 1.8 | | |
| 16 | 75.0 | 348.2 | 2.1 | | |
| 17 | 80.0 | 349.6 | 1.4 | | |
| 18 | 85.0 | 351.7 | 2.1 | | |
| F 19 | 91.2 | 354.5 | 2.8 | | |
| SECOND CLOSED-IN | | | | | |
| F 1 | 0.0 | 354.5 | | | |
| 2 | 1.0 | 586.0 | 231.5 | 1.0 | 2.116 |
| 3 | 2.0 | 780.5 | 426.0 | 1.9 | 1.818 |
| 4 | 3.0 | 908.4 | 553.9 | 2.9 | 1.641 |
| 5 | 4.0 | 984.7 | 630.2 | 3.9 | 1.514 |
| 6 | 5.0 | 1062.8 | 708.3 | 4.8 | 1.423 |
| 7 | 6.0 | 1122.8 | 768.3 | 5.8 | 1.342 |
| 8 | 7.0 | 1162.2 | 807.7 | 6.6 | 1.282 |
| 9 | 8.0 | 1202.2 | 847.7 | 7.6 | 1.225 |
| 10 | 9.0 | 1231.0 | 876.5 | 8.4 | 1.178 |
| 11 | 10.0 | 1253.5 | 899.0 | 9.3 | 1.137 |
| 12 | 12.0 | 1285.5 | 931.0 | 10.9 | 1.064 |
| 13 | 14.0 | 1306.3 | 951.8 | 12.6 | 1.002 |
| 14 | 16.0 | 1320.3 | 965.8 | 14.2 | 0.951 |
| 15 | 18.0 | 1328.8 | 974.3 | 15.8 | 0.905 |
| 16 | 20.0 | 1334.9 | 980.4 | 17.3 | 0.866 |
| 17 | 22.0 | 1340.6 | 986.1 | 18.7 | 0.830 |
| 18 | 24.0 | 1343.6 | 989.1 | 20.1 | 0.799 |
| 19 | 26.0 | 1345.9 | 991.4 | 21.6 | 0.769 |
| 20 | 28.0 | 1347.9 | 993.4 | 22.9 | 0.743 |
| 21 | 30.0 | 1349.3 | 994.8 | 24.3 | 0.718 |
| 22 | 35.0 | 1355.1 | 1000.6 | 27.4 | 0.665 |
| 23 | 40.0 | 1355.7 | 1001.2 | 30.4 | 0.620 |
| 24 | 45.0 | 1355.5 | 1001.0 | 33.2 | 0.582 |
| 25 | 50.0 | 1355.1 | 1000.6 | 35.8 | 0.549 |
| 26 | 55.0 | 1355.1 | 1000.6 | 38.3 | 0.520 |
| 27 | 60.0 | 1355.1 | 1000.6 | 40.7 | 0.493 |
| 28 | 70.0 | 1355.1 | 1000.6 | 45.1 | 0.449 |
| 29 | 80.0 | 1355.1 | 1000.6 | 49.1 | 0.413 |
| 30 | 90.0 | 1355.2 | 1000.7 | 52.6 | 0.382 |
| 31 | 100.0 | 1355.9 | 1001.4 | 55.9 | 0.356 |
| 32 | 110.0 | 1356.1 | 1001.6 | 58.9 | 0.333 |

LEGEND:
 POSSIBLE MOMENTARY LEAKAGE

REMARKS:
 FIRST FLOW READINGS ARE EXTREMELY QUESTIONABLE.

TICKET NO: 24536700
 CLOCK NO: 11654 HOUR: 24



GAUGE NO: 76
 DEPTH: 4119.1

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|------------------------------|---------|----------|--------|--|--------------------------------------|
| SECOND CLOSED-IN - CONTINUED | | | | | |
| 33 | 120.0 | 1356.1 | 1001.6 | 61.7 | 0.313 |
| 34 | 150.0 | 1356.6 | 1002.1 | 68.7 | 0.266 |
| G 35 | 182.0 | 1358.3 | 1003.8 | 74.7 | 0.230 |

| REF | MINUTES | PRESSURE | ΔP | $\frac{t \times \Delta t}{t + \Delta t}$ | $\log \frac{t + \Delta t}{\Delta t}$ |
|-----|---------|----------|----|--|--------------------------------------|
| | | | | | |

LEGEND:
 POSSIBLE MOMENTARY LEAKAGE

REMARKS:
 FIRST FLOW READINGS ARE EXTREMELY QUESTIONABLE.

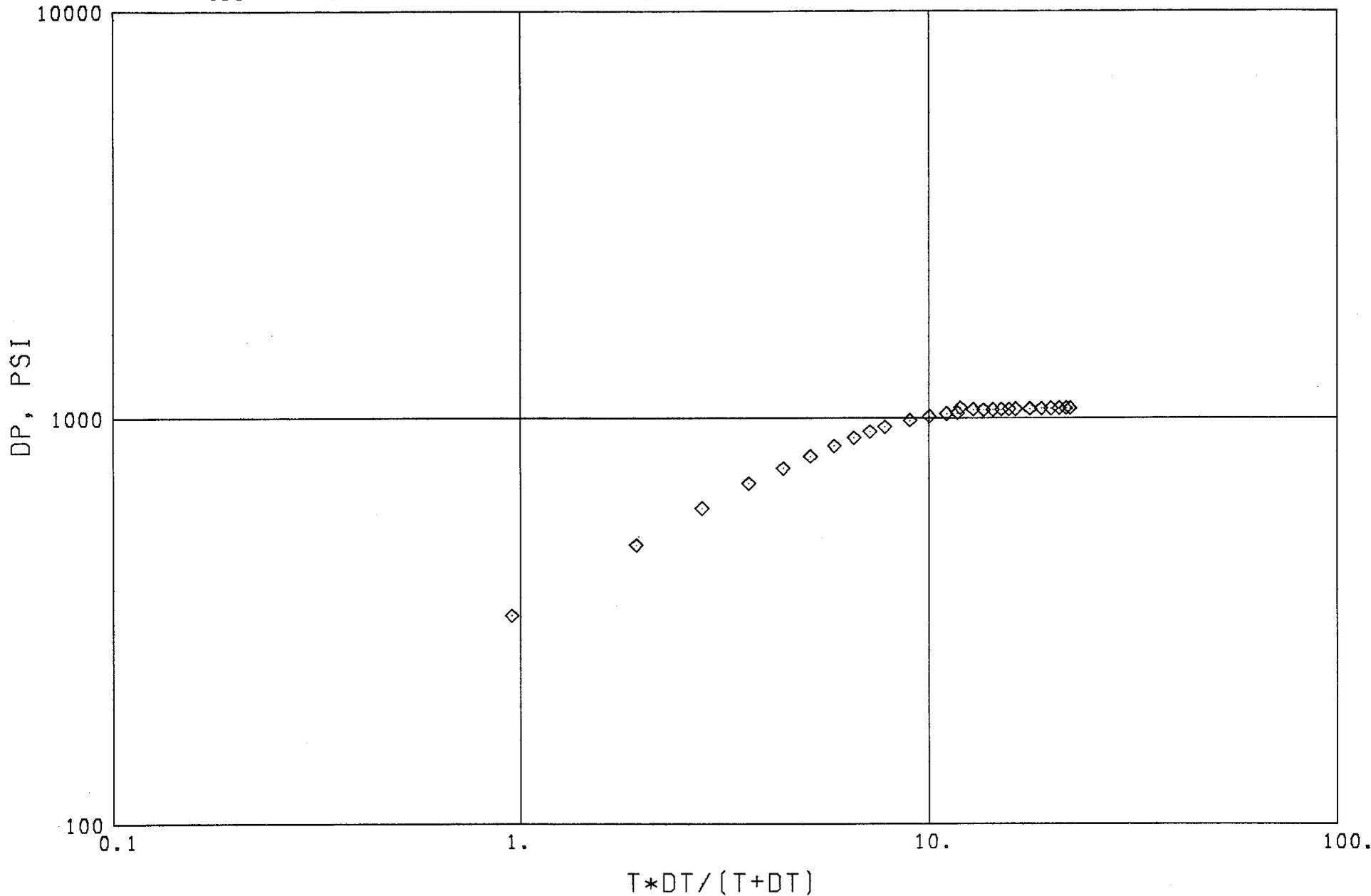
| | | O.D. | I.D. | LENGTH | DEPTH | |
|-------------|---|----------------------------------|-------|--------|--------|--------|
| 1 |  | DRILL PIPE..... | 3.500 | 2.764 | 3519.0 | |
| 3 |  | DRILL COLLARS..... | 6.000 | 2.250 | 493.0 | |
| 50 |  | IMPACT REVERSING SUB..... | 6.000 | 3.000 | 1.0 | 4011.9 |
| 3 |  | DRILL COLLARS..... | 6.000 | 2.250 | 56.4 | |
| 5 |  | CROSSOVER..... | 5.750 | 2.375 | 1.0 | |
| 13 |  | DUAL CIP SAMPLER..... | 5.000 | 0.750 | 7.0 | |
| 60 |  | HYDROSPRING TESTER..... | 5.000 | 0.750 | 5.0 | 4080.8 |
| 80 |  | AP RUNNING CASE..... | 5.000 | 2.250 | 4.1 | 4082.9 |
| 15 |  | JAR..... | 5.000 | 1.750 | 5.0 | |
| 16 |  | VR SAFETY JOINT..... | 5.000 | 1.000 | 2.8 | |
| 17 |  | PRESSURE EQUALIZING CROSSOVER... | 5.000 | 0.750 | 1.0 | |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 5.8 | 4098.7 |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 5.8 | 4105.0 |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.750 | 3.500 | 10.0 | |
| 17 |  | PRESSURE EQUALIZING CROSSOVER... | 5.000 | 0.750 | 1.6 | |
| 81 |  | BLANKED-OFF RUNNING CASE..... | 5.000 | | 4.1 | 4119.1 |
| 70 |  | OPEN HOLE PACKER..... | 7.750 | 1.530 | 7.4 | 4123.9 |
| 90 |  | SIDE WALL ANCHOR..... | 7.750 | 1.620 | 5.5 | 4130.0 |
| 20 |  | FLUSH JOINT ANCHOR..... | 5.750 | 3.500 | 2.0 | |
| 81 |  | BLANKED-OFF RUNNING CASE..... | 5.750 | | 4.2 | 4138.1 |
| TOTAL DEPTH | | | | | 5500.0 | |

EQUIPMENT DATA

GAUGE NO CIP 1 2
430 ◇

GAUGE NO CIP 1 2
76

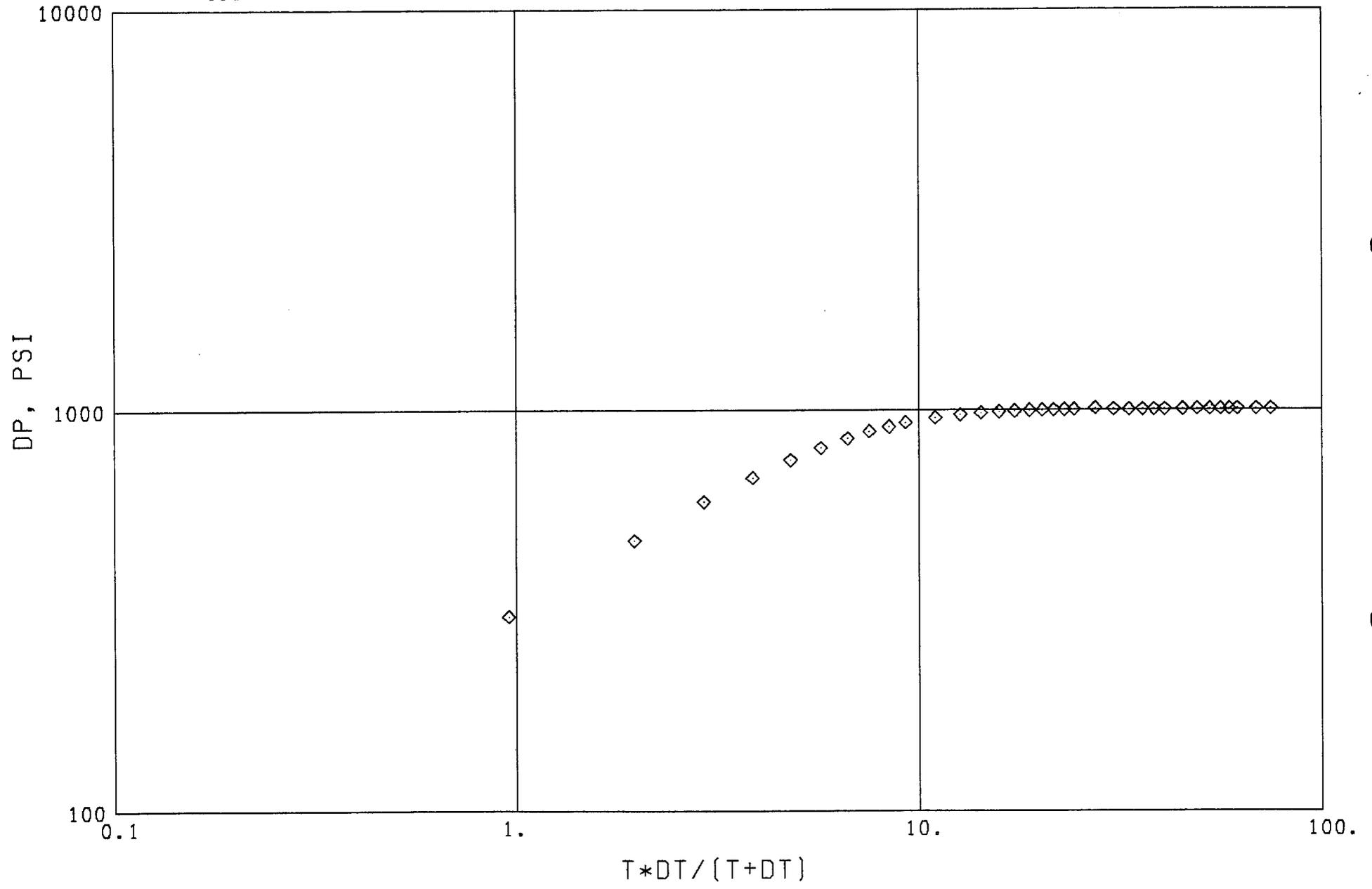
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192



GAUGE NO CIP 1 2
430 ◇

GAUGE NO CIP 1 2
76

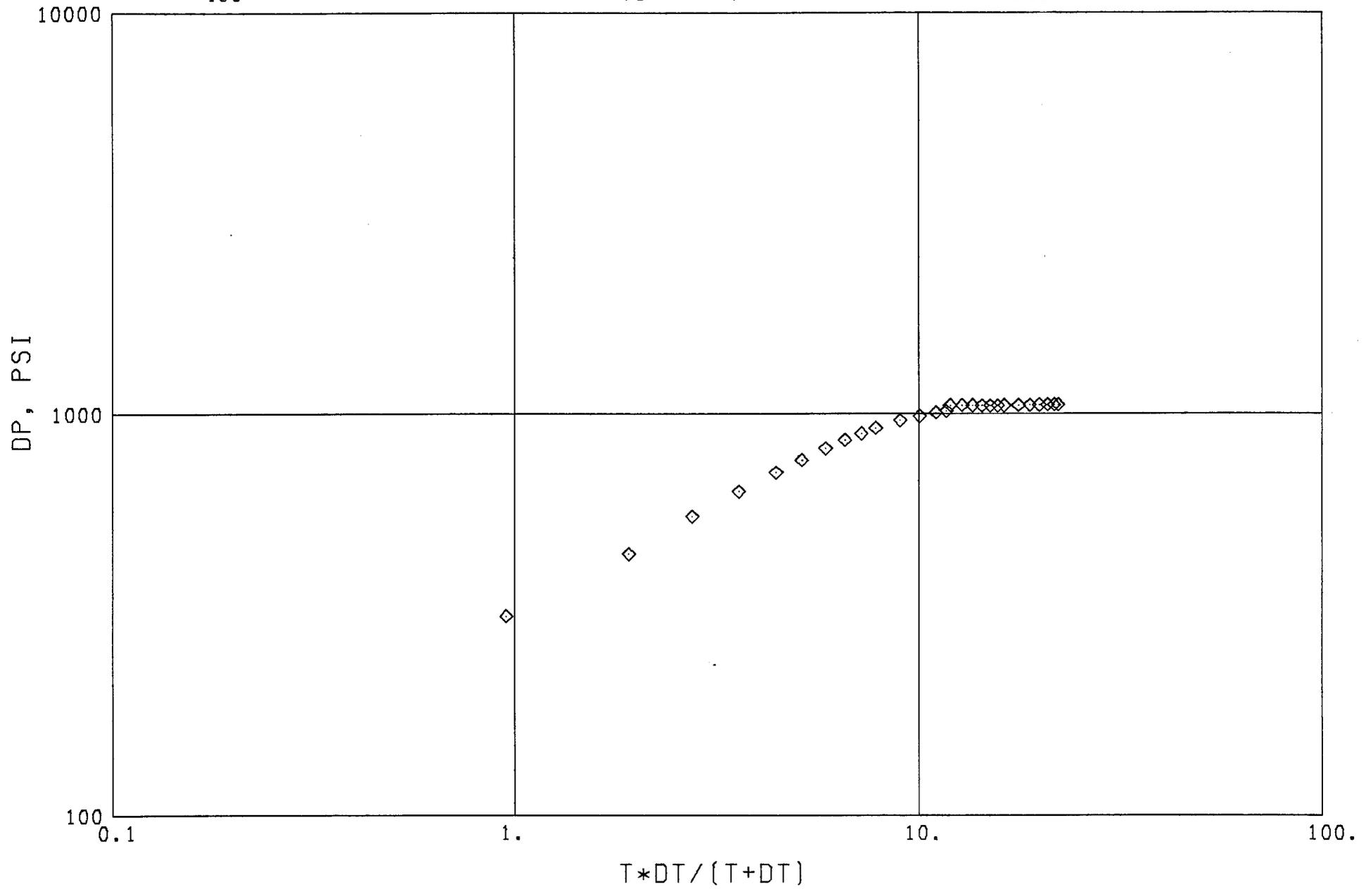
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GAUGE NO CIP 1 2
430

GAUGE NO CIP 1 2
76

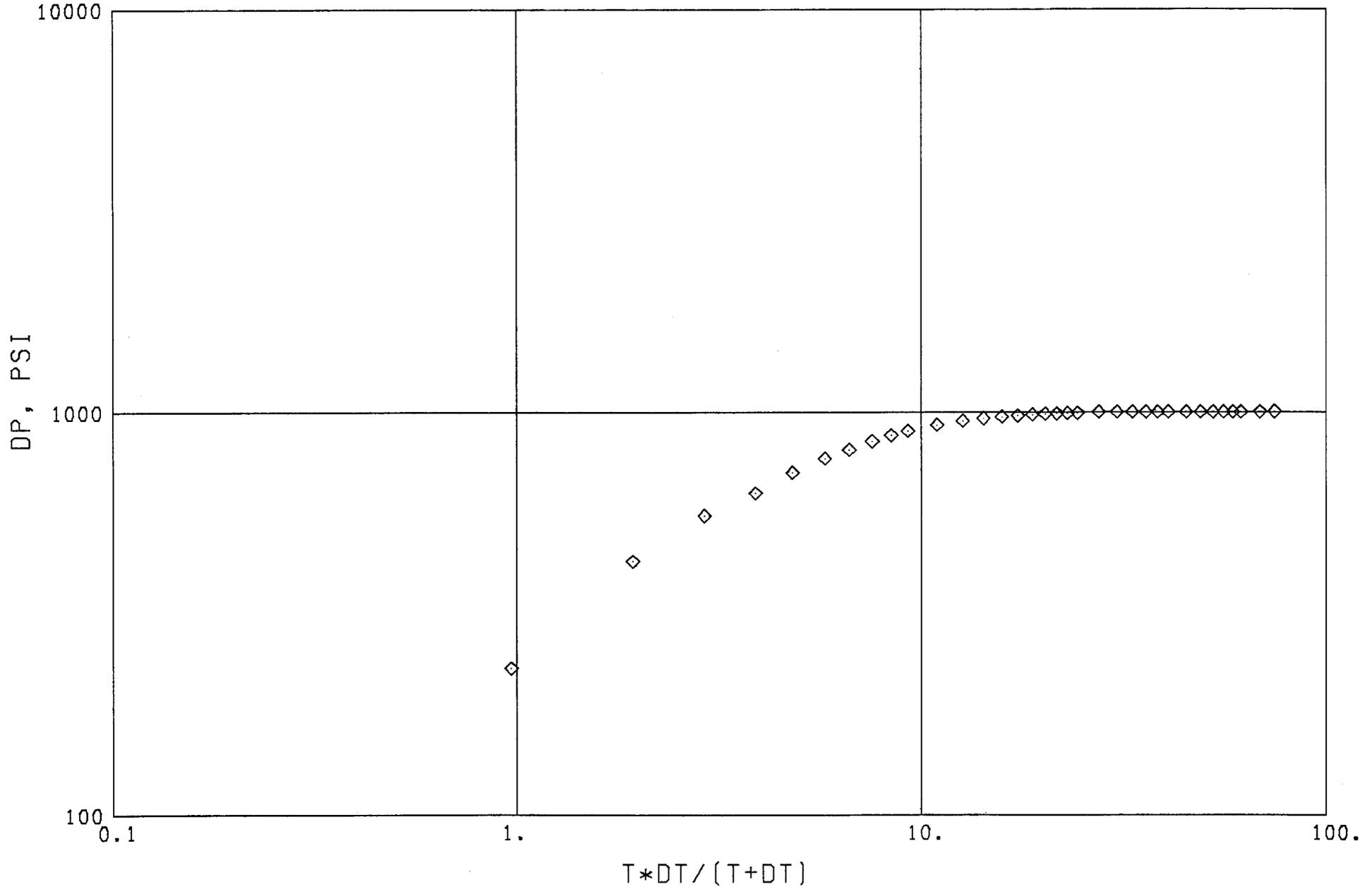
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192



GAUGE NO CIP 1 2
430

GAUGE NO CIP 1 2
76

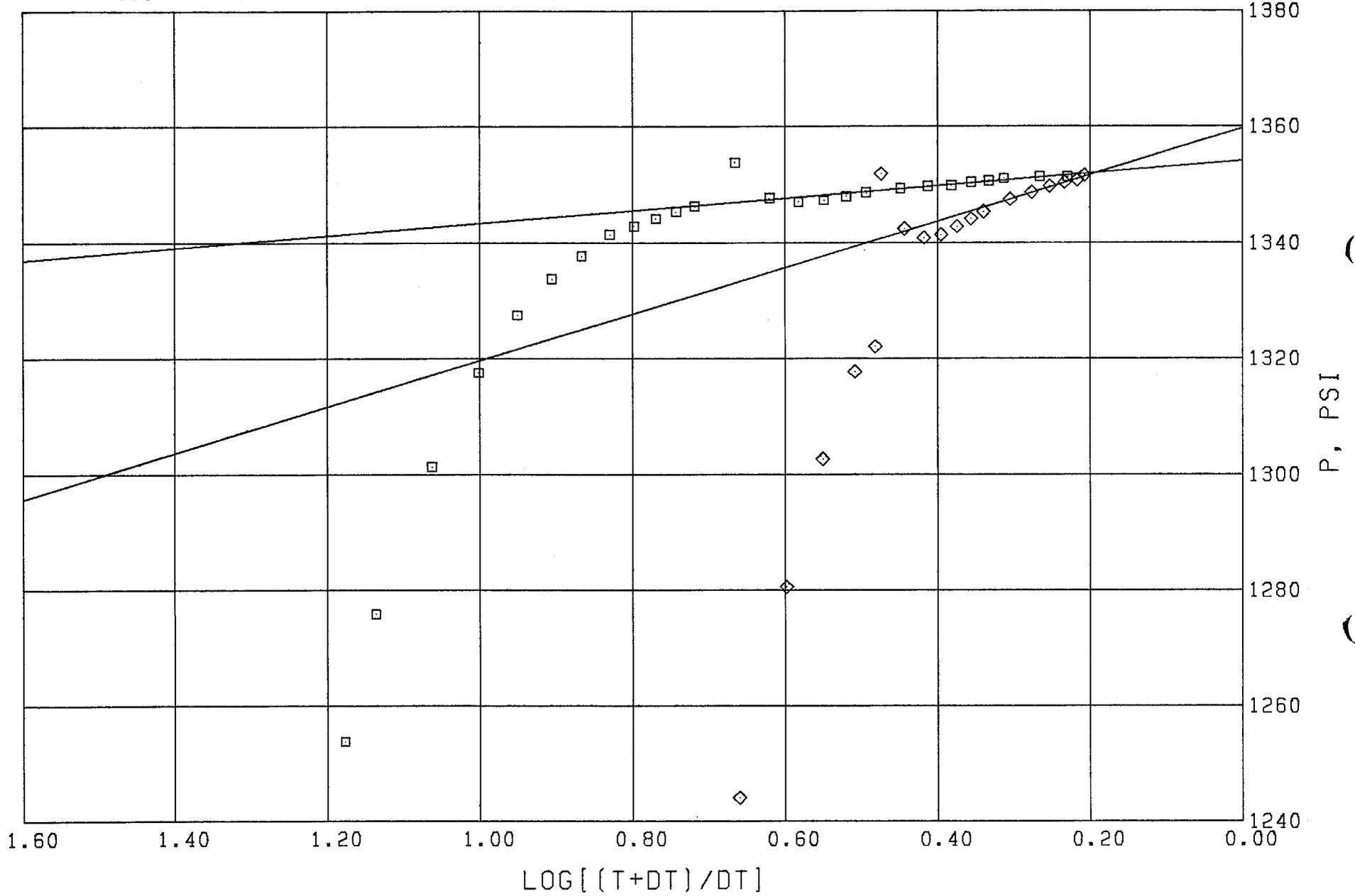
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GAUGE NO CIP 1 2
430 ◇ □

GAUGE NO CIP 1 2
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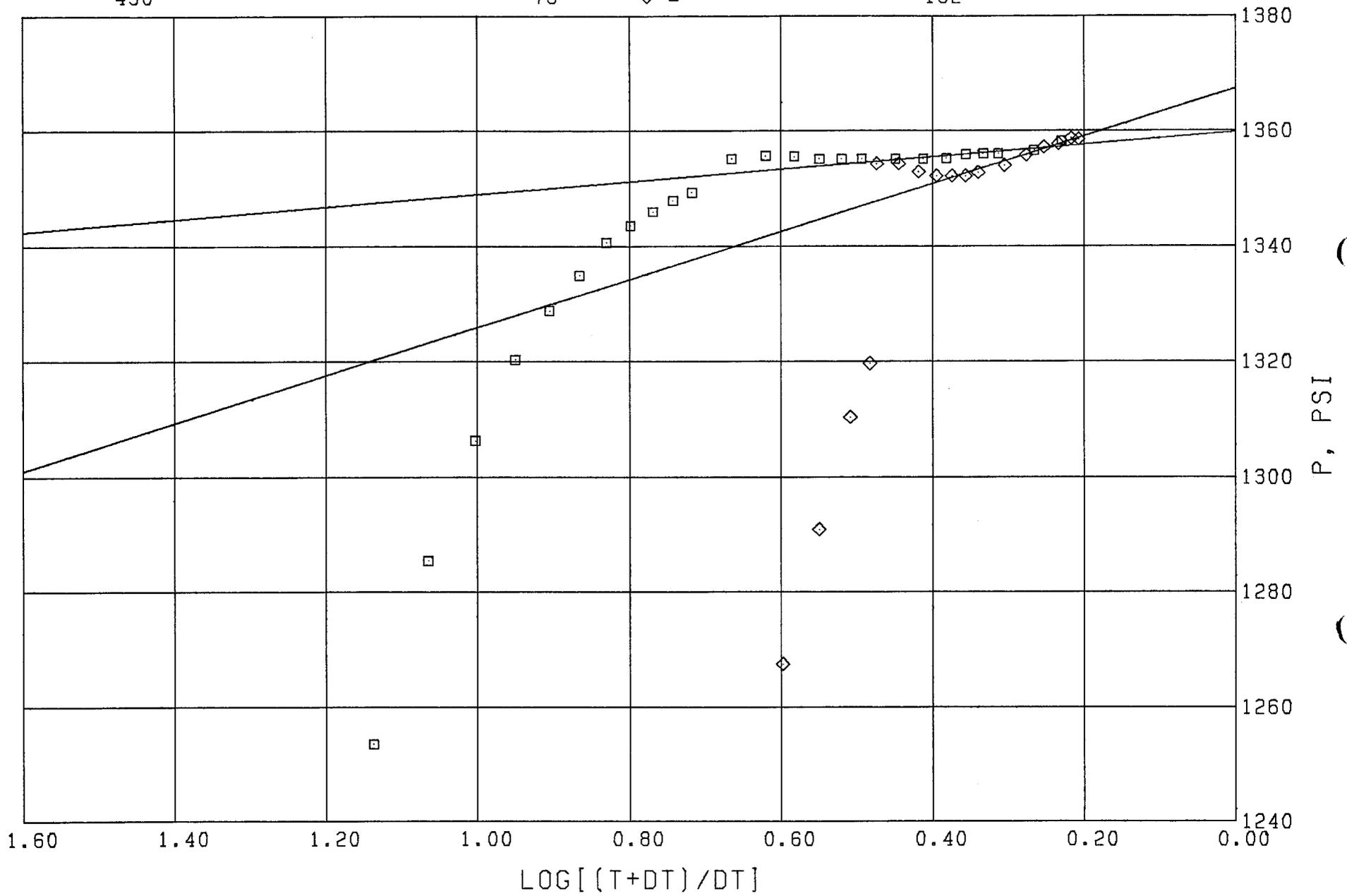
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430

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192



SUMMARY OF RESERVOIR PARAMETERS USING HORNER METHOD FOR LIQUID WELLS

| | |
|--------------------------------------|--|
| OIL GRAVITY <u>49.0</u> °API@60°F | WATER SALINITY <u>0.0</u> % SALT |
| GAS GRAVITY <u>0.700</u> | FLUID GRADIENT <u>0.3397</u> pst/ft |
| GAS/OIL RATIO <u>170.4</u> SCF/STB | FLUID PROPERTIES AT <u>1359.9</u> pstg |
| TEMPERATURE <u>116.0</u> °F | VISCOSITY <u>1.023</u> cp |
| NET PAY <u>12.0</u> ft | FMT VOL FACTOR <u>1.116</u> Rvol/Svol |
| POROSITY <u>10.0</u> % | SYSTEM COMPRESSIBILITY <u>8.13</u> ×10 ⁻⁶ vol/vol/pst |
| PIPE CAPACITY FACTORS <u>0.00492</u> | <u>0.00742</u> bbl/ft |

| GAUGE NUMBER | 430 | 430 | 76 | 76 | | | |
|-------------------------------|--------|---------|--------|---------|--|--|--------------------|
| GAUGE DEPTH | 4082.9 | 4082.9 | 4119.1 | 4119.1 | | | |
| FLOW AND CIP PERIOD | 1 | 2 | 1 | 2 | | | UNITS |
| FINAL FLOW PRESSURE P_f | 294.4 | 345.3 | 305.9 | 354.5 | | | pstg |
| TOTAL FLOW TIME t | 35.6 | 126.8 | 35.6 | 126.8 | | | min |
| EXTRAPOLATED PRESSURE P^* | 1359.7 | 1354.1 | 1367.5 | 1359.9 | | | pstg |
| ONE CYCLE PRESSURE | 1319.7 | 1343.4 | 1326.0 | 1349.0 | | | pstg |
| PRODUCTION RATE Q | | 12.5 | | 11.9 | | | BPD |
| TRANSMISSIBILITY kh/μ | | 211.3 | | 198.5 | | | $\frac{md-ft}{cp}$ |
| FLOW CAPACITY kh | | 216.206 | | 203.085 | | | md-ft |
| PERMEABILITY k | | 18.0172 | | 16.9238 | | | md |
| SKIN FACTOR S | | 102.1 | | 100.0 | | | |
| DAMAGE RATIO DR | | 18.4 | | 18.2 | | | |
| POTENTIAL RATE Q_1 | | 230.3 | | 216.5 | | | BPD |
| RADIUS OF INVESTIGATION r_i | | 216.5 | | 209.8 | | | ft |

REMARKS: CALCULATION RESULTS MAY BE SOMEWHAT QUESTIONABLE. THE APPARENT MOMENTARY LEAKAGE DURING THE EARLY PORTION OF THE CLOSED-IN PERIODS MAKE THE EXTRAPOLATED PRESSURES QUESTIONABLE. IT IS THEREFORE NOT POSSIBLE TO RENDER A CONCLUSIVE JUDGEMENT CONCERNING DEPLETION. IT IS FELT THAT IF THE EXTRAPOLATIONS ARE VALID, THE INDICATED PRESSURE LOSS IS NOT OF A SIGNIFICANT AMOUNT TO INDICATE DEPLETION.

A RELIABLE PRODUCTION RATE COULD NOT BE OBTAINED FOR THE FIRST FLOW PERIOD DUE TO REPORTED LEAKAGE.

NOTICE: THESE CALCULATIONS ARE BASED UPON INFORMATION FURNISHED BY YOU AND TAKEN FROM DRILL STEM PRESSURE CHARTS, AND ARE FURNISHED YOU FOR YOUR INFORMATION. IN FURNISHING SUCH CALCULATIONS AND EVALUATIONS BASED THEREON, HALLIBURTON IS MERELY EXPRESSING ITS OPINION. YOU AGREE THAT HALLIBURTON MAKES NO WARRANTY EXPRESS OR IMPLIED AS TO THE ACCURACY OF SUCH CALCULATIONS OR OPINIONS, AND THAT HALLIBURTON SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE, WHETHER DUE TO NEGLIGENCE OR OTHERWISE, IN CONNECTION WITH SUCH OPINIONS.

NOV 1 1985

CORE LABORATORIES, INC.
 Petroleum Reservoir Engineering
 DALLAS, TEXAS

NOV 1 1985

THOMAS G. DOROUGH, JR.
 ARMSTRONG FEDERAL 12-1
 WILDCAT
 GRAND COUNTY, UTAH

DATE : 29-OCT-85
 FORMATION : MORRISON
 DRLG. FLUID: WATER BASE MUD
 LOCATION : SW SE SEC 12-T21S-R18E

FILE NO. : 38060-7824
 LABORATORY : AURORA
 API WELL NO. :
 CORES :

SIDEWALL CORE ANALYSIS

| DEPTH FEET | PERM(Ka) MD | FLD POR | OILZ PORE | WTRZ PORE | DESCRIPTION |
|---------------|----------------|------------|--------------|--------------|-------------------------------------|
| 4112.0 | | | | | UNSUITABLE FOR ANALYSIS |
| 4113.0 | | | | | UNSUITABLE FOR ANALYSIS |
| 4114.0 | | | | | UNSUITABLE FOR ANALYSIS |
| 4118.0 | 1.0 | 15.7 | 3.2 | 43.9 | SD GRY-BRN VFG-MED NO ODOR FAIR FLU |
| 4119.0 | 1.5 | 16.1 | 4.3 | 58.4 | SD GRY-BRN VFG-MED NO ODOR FAIR FLU |
| 4120.0 | 1.1 | 15.8 | 3.8 | 58.2 | SD GRY-BRN VFG-MED NO ODOR FAIR FLU |
| 4121.0 | | | | | UNSUITABLE FOR ANALYSIS |
| 4144.0 | 1.1 | 15.8 | 5.7 | 59.5 | SD GRY-BRN VFG-MED NO ODOR GOOD FLU |

Note: Permeability values for percussion type sidewall cores determined empirically.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc. and its officers and employees, assume no responsibility and make no warranty or expressed or implied as to the productivity, proper operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.



Universal Oil & Gas, Inc.
300 Union Blvd., Suite 600; Lakewood, Colorado 80228

January 2, 1986

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

RECEIVED

JAN 06 1986

**DIVISION OF OIL
GAS & MINING**

Re: U.O.&G., Inc.
Armstrong-Federal 12-1 Well
T21S-R18E Sec. 12: SWSE
Grand County, Utah

Gentlemen:

Enclosed please find the following information on the
Armstrong-Federal 12-1 located in the SWSE Section 12 T21S-R18E:

- * Report of Operations and Well Status Report (Form DOGC-4)
for September, October, November, 1985
- * Well Completion or Recompletion Report and Log (Form
OGC-3)
- * Sundry Notices and Reports on Wells (Form OGCC-1be)
- * DST #1, DST #2, DST #3
- * Sidewall core analysis
- * Mud log
- * Directional Survey

- * BHC-GR, Dipmeter, and gamma ray-acoustic cement bond log

Copies of the DIL/SFL-SP & GR-CNL/FDC have been ordered from
Schlumberger and will be sent when received. Please contact me
if you have any questions on this data.

Thank you,

UNIVERSAL OIL & GAS, INC.

Robert Cohan

Robert Cohan
Reservoir Engineer

RC:ki

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

State Lease No. n/a
 Federal Lease No. U-56529
 Indian Lease No. n/a
 Fee & Pat. n/a

1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY GRAND FIELD/LEASE Blaze Canyon

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
SEPTEMBER, 1985

Agent's Address C T CORPORATION SYSTEM
170 South Main Street, Suite 1500
Salt Lake City, Utah 84101
 Phone No. (801) 521-3200

Company U.O.&G. INC.
 Signed [Signature]
 Title President
300 Union Blvd., Suite 600, Lakewood, Co 80228

| Sec. and % of % | 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) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| 12-1 | SWSE | 21S | 18E | DRG | -0- | -0- | -0- | -0- | -0- | Spud 9/21/85 Depth on 9/30/85 3859' |

RECEIVED
JAN 06 1986
DIVISION OF OIL
GAS & MINING

Gas Sold 0
 Flared/Vented 0
 Used on/off Lease 0

NOTE: There were 0 runs or sales of oil; 0 M. cu. ft. of gas sold;
0 runs or sales of gasoline during the month.

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.**

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

State Lease No. n/a
 Federal Lease No. U-56529
 Indian Lease No. n/a
 Fee & Pat. n/a

1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY GRAND FIELD/LEASE Blaze Canyon

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 C T CORPORATION SYSTEM
170 South Main Street, Suite 1500
Salt Lake City, Utah 84101
 Phone No. (801) 521-3200

Company U.O. & G. INC.
 Signed [Signature]
 Title President
300 Union Blvd., Suite 600, Lakewood, Co 80228

| Sec. and 1/4 of 1/4 | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (in thousands) | Galons of Gasoline Recovered | Barrels of Water (if none, so state) | REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|---------------------|------|-------|----------|---------------|----------------|---------|-------------------------------|------------------------------|--------------------------------------|---|
| 12-1 | SWSE | 21S | 18E | DRG | -0- | -0- | -0- | -0- | -0- | 10/4/85 DST #1 4142-4259 10/25/85 Reached TD @ 5500 10/26/85 Ran open hole log 10/27/85 Ran DST #2 Misrun 10/28/85 DST #3 4105-4124 Shot sidewall cores @4112,13,14,18,19,20, 21,44 10/29/85 Set 50sx cement plugs @ 5130-5300 & 4655-4825 10/30/85 Set 5 1/2" production casing @ 4507 KB 10/31/85 Rig released, fencing pit and clean location. |

RECEIVED

JAN 06 1986

**DIVISION OF OIL
 GAS & MINING**

Gas Sold 0
 Flared/Vented 0
 Used on/off Lease 0

NOTE: There were 0 runs or sales of oil; 0 M. cu. ft. of gas sold;
0 runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month with 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.**

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

State Lease No. n/a
 Federal Lease No. U-56529
 Indian Lease No. n/a
 Fee & Pat. n/a

1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328-5771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE UTAH COUNTY GRAND FIELD/LEASE Blaze Canyon

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
NOVEMBER, 1985

Agent's Address C T CORPORATION SYSTEM
170 South Main Street, Suite 1500
Salt Lake City, Utah 84101
 Phone No. (801) 521-3200

Company U.O. & G., INC.
 Signed [Signature]
 Title President
300 Union Blvd., Suite 600, Lakewood, Co. 80228

| Sec. and % of % | 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) | REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------|------|-------|----------|--|----------------|---------|--|-------------------------------|--------------------------------------|--|
| 12-1 | SWSE | 21S | 18E | Completing & Testing 11 (flowtest) | 97 | | 900 (estimated from FTP & choke size) | -0- | -0- | Perforate, acidize, fracture treat, swab, and flow test zones @ 4320-4333, 4138-4145, & 4109-4121. (See Form OGC-1b for details) 11/5/85 Ran GR-CBL 11/6/85 SET CIBP @ 4260' 11/25-12/2 SI to build pressure. |

RECEIVED

JAN 06 1986

**DIVISION OF OIL
 GAS & MINING**

Gas Sold 0
 Flared/Vented 900
 Used on/off Lease 0

NOTE: There were 0 runs or sales of oil; 0 M. cu. ft. of gas sold;
0 runs or sales of gasoline during the month.

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.**

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.)

| | | |
|---|--|---|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. U-56529 (Federal Lease) |
| 2. NAME OF OPERATOR U.O.&G., INC. | | 6. IF INDIAN, ALLOTTED OR TRIBE NAME N/A |
| 3. ADDRESS OF OPERATOR 300 Union Blvd., Suite 600, Lakewood, Colorado 80228 | | 7. UNIT AGREEMENT NAME N/A |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 573' FSL, 2140' FEL SWSE Sec 12, T21S-R18E | | 8. FARM OR LEASE NAME ARMSTRONG-FEDERAL |
| 14. PERMIT NO. -- | | 9. WELL NO. 12-1 |
| 15. ELEVATIONS (Show whether DP, RT, OR, etc.) 5463' GL 5473' KB | | 10. FIELD AND POOL, OR WILDCAT Blaze Canyon |
| | | 11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA Sec 12, T21S-R18E |
| | | 12. COUNTY OR PARISH Grand |
| | | 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 checked="" type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input checked="" type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <u>Setting cement plugs</u> <input type="checkbox"/> | |
| (Other) <input type="checkbox"/> | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | |

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

10/25/85 Reached T.D. @ 5500' (drillers depth)

10/31/85 Set cement plugs at 5130-5300' (50 sx) & 4655-4825' (50 sx)

10/31/85 Set 5 1/2" production casing @ 4507 KB w/180 sx Halco-lite & 250 sx Class H cement, PBD = 4451

11/5-11/6 Perforate 4320-4333, Acidize w/1,000 gallons 7 1/2% HCL. Set C1BP @ 4260.

11/6-11/20 Perforate 4138-4145, Acidize w/2500 gallons diesel, 500 gallons 7 1/2% HCL

Perforate 4109-4121, Acidize w/1500 gallons diesel, 1000 gallons 7 1/2% HCL

Fracture 4109-4121 & 4138-4145 w/40,400 gals 70 quality foam & 5,000# 100 mesh sand, & 52,000# 16-30 sand.

11/20/85 Land 2 7/8" tubing @ 4081'

11/20-12/16 Well was alternately flow tested, shut-in, or swab tested.

12/16-Present Well has been shut-in.

RECEIVED

JAN 06 1986

DIVISION OF OIL
GAS & MINING

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

SIGNED [Signature] TITLE President DATE 1/3/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

SUBMIT IN DUPLICATE*
(See other instructions
on reverse)

15

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL [X] GAS WELL [] DRY [] Other []

2. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. CENVR. [] Other []

3. NAME OF OPERATOR: U.O.&G., INC.

4. ADDRESS OF OPERATOR: 300 Union Blvd., Suite 600, Lakewood, Colorado 80228

5. LOCATION OF WELL (Report location clearly and in accordance with any State or Federal Well Log Rules):
At surface 573' FSL, 2140' FEL SWSE Sec 12, T21S-R18E
At top prod. interval reported below 808' FSL, 2000' FEL
At total depth 886' FSL, 1961' FEL @4999' (last survey point)

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JAN 06 1986

5. LEASE DESIGNATION AND SERIAL NO: U-56529 (Federal Lease)
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: n/a
7. UNIT AGREEMENT NAME: n/a
8. FARM OR LEASE NAME: ARMSTRONG-FEDERAL
9. WELL NO.: *12-1
10. FIELD AND POOL, OR WILDCAT: Blaze Canyon
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 12, T21S-R18E

12. COUNTY OR PARISH: Grand
13. STATE: Utah
14. PERMIT NO.: 4301931200
DATE ISSUED: DIVISION OF OIL GAS & MINING

15. DATE SPUDDED: 9/21/85
16. DATE T.D. REACHED: 10/25/85
17. DATE COMPL. (Ready to prod.): 12/16/85
18. DEPTH TO TOP OF PERFORATION (T.D., T.B., ET, OR, ETC.): 5463' GL 5473' KB
19. ELEV. CASINGHEAD: 5465' KB

20. TOTAL DEPTH, MD & TVD: 5500' MD 5480' TVD
21. PLUG, BACK T.D., MD & TVD: 4451' MD 4433' TVD
22. IF MULTIPLE COMPL., HOW MANY?: 2
23. INTERVALS DRILLED BY: ROTARY TOOLS [X] CABLE TOOLS []

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Salt Wash 4109'-4121 MD 4094'-4106' TVD 4138'-4145 MD 4123'-4130' TVD
25. WAS DIRECTIONAL SURVEY MADE: Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SFL-SP, GR-CNL/FDC, GR-BHC, DIPMETER, GR-CBL met by HRD
27. WAS WELL CORED: Yes (Sidewall)

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Rows include 8 5/8" and 5 1/2" casing sizes.

Table with 8 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD), PACKERS SET (MD). Rows include 2 7/8" size.

Table with 2 columns: PERFORATION RECORD (Interval, size and number) and ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Rows include 4138-45, 4109-21, 4320-33 intervals.

Table with 8 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL--BBL., GAS--MCF., WATER--BBL., GAS-OIL RATIO. Rows include 12/14-12/15 1985 test data.

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

35. LIST OF ATTACHMENTS: DST #1, DST #2, DST #3, Sidewall Core Analysis, Directional Survey, Complete Log Suite

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

SIGNED: [Signature] TITLE: President DATE: 1/3/86

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

Handwritten signature and date: 2/6/86

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 report 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. |
|-----------|------|--------|---|
| Salt Wash | 4109 | 4121 | SS, fine-medium grained, grey-brown, friable, good oil stain, good fluorescence and cut, good porosity SS, white, fine-medium grained, friable, fair yellow fluorescence, good stain, good cut. DST #1 Salt Wash 4142-4259 op 35 min, SI 72 min, op 60 min. IFP: 13.3-13.6#, ISIP: 13.6-270#, FFP: 18.6-17.4# Recovered 25' of mxd DST #2 Salt Wash mistrun DST #3 Salt Wash 4105-4124' op 36 min, SI 60 min, op 90 min, SI 181 min IFP: 53-277#, ISIP: 277-1346# FFP: 264-344#, PSIP: 344-1346# Recovered 90' of oil, 60' of mud cut oil 630' of oil cut mud, 20' of sand Sample chamber: 950cc of oil, 200 cc of mud 1.02 cu ft of gas Sidewall cores: 4112, 4113, 4114, 4118, 4119, 4120, 4121, 4144 |
| | 4138 | 4145 | |
| | 4320 | 4333 | |

38. GEOLOGIC MARKERS

| NAME | TOP | |
|-----------------------|-------------|------------------|
| | MEAS. DEPTH | TRUE VERT. DEPTH |
| Dakota Silt | 3670 | 3658 |
| Dakota Sand Morrison: | 3850 | 3836 |
| Brushy Basin | 3894 | 3880 |
| Salt Wash | 4078 | 4063 |
| Moab Tongue | 4592 | 4574 |
| Summerville | 4607 | 4589 |
| Entrada | 4764 | 4744 |
| Carmel | 5094 | 5074* |
| Navajo | 5235 | 5215* |

*Projected



Universal Oil & Gas, Inc.
300 Union Blvd., Suite 600, Lakewood, Colorado 80228

January 6, 1986

RECEIVED

JAN 14 1986

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

**DIVISION OF OIL
GAS & MINING**

Re: U.O.&G., Inc.
Armstrong-Federal 12-1 Well
T21S-R18E Sec. 12: SWSE
Grand County, Utah

Gentlemen:

Enclosed please find the following information on the Armstrong-Federal 12-1 Well located in the SWSE Sec. 12 T21S-R18E Grand County, Utah:

- * Dual Induction/SFL
- * Compensated Neutron/Formation Density
- * Borehole Compensated Sonic
- * Four-Arm High Resolution Continuous Dipmeter (Computed)
- * High Resolution Dipmeter (Field Log)
- * Cyberdip
- * Cyberlook
- * High Resolution Dipmeter - Cluster Listing

If you have any questions on the above information, do not hesitate to contact me.

Sincerely,

UNIVERSAL OIL & GAS, INC.

Robert Cohan

Robert Cohan
Reservoir Engineer

RC:ki

encl.



Universal Oil & Gas, Inc.
300 Union Blvd., Suite 600, Lakewood, Colorado 80228

RECEIVED

JAN 22 1986

**DIVISION OF OIL
GAS & MINING**

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

Gentlemen,

This letter is to confirm the "Tight Hole" Status of the
Armstrong-Federal 12-1 located in the SW SE section 12 T21S R18E.
If you have any questions concerning this matter, do not hesitate
to contact me.

Sincerely,
Robert Cohan
Robert Cohan
Reservoir Engineer

CH;jj

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

1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328-5771

State Lease No. n/a
 Federal Lease No. U-56529
 Indian Lease No. n/a
 Fee & Pat. n/a

RECEIVED
JAN 27 1986

REPORT OF OPERATIONS AND WELL STATUS REPORT

DIVISION OF OIL & GAS CONSERVATION
GAS & MINING

STATE Utah COUNTY Grand FIELD/LEASE Blaze Canyon

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
December 1985

Agent's Address CT Corporation System Company U. O. & S., Inc.
170 South Main Street, Suite 1500 Signed James J. Jones
Salt Lake City, Utah 84101 Title President
 Phone No. (801) 521-3200

| Sec. and 1/4 of 1/4 | Twp. | Range | Well No. | Days Produced | Barrels of Oil | Gravity | Cu. Ft. of Gas (in thousands) | Barrels of Gasoline Recovered | Barrels of Water (if none, so state) | REMARKS (if drilling, depth; if shut down, cause, date and result of test for gasoline content of gas) |
|---|------|-------|----------|-------------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|---|
| 12 SW SE | 215 | 18E | 12-1 | 8 (flow tests) | 118 | 44* | 1150 | -0- | -0- | 12/5-12/11: Shut-in to build pressure 12/16-Present: Shut-in. Will test well further after Marathon-Federal 13-1 well is drilled (NE SE sec.13 T215 R18E) to determine gas and oil deliverability from both wells. |
| <p align="right">Gas Sold <u>-0-</u> Flared/Vented <u>1150</u> Used on/off Lease <u>-0-</u></p> | | | | | | | | | | |

NOTE: There were 215 bbls. sold runs or sales of oil; -0- M. cu. ft. of gas sold;
-0- runs or sales of gasoline during the month.

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.**

3
Conf.

Form DOGC-4

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION
1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. N/A
Federal Lease No. U-56529
Indian Lease No. N/A
Fee & Pat. N/A

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Grand FIELD/LEASE Undesignated

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1986

RECEIVED
FEB 28 1986

Agent's Address CT Corporation System
170 South Main Street, Suite 1500
Salt Lake City, Utah 84101
Phone No. (801) 521-3200

Company U.O. & G., Inc.
Signed Robert Cohen
Title Reservoir Engineer
DIVISION OF OIL, GAS & MINING

| Sec. and % of % | 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) | REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas) |
|-----------------|------|-------|----------|---------------|----------------|---------|-------------------------------|-------------------------------|--------------------------------------|--|
| 12 SW SE | 21S | 18E | 12-1 | -0- | -0- | -0- | -0- | -0- | -0- | Shut-in. Will test well further after Marathon-Federal 13-1 well is completed in March or April (NE SE 13-T21S-R18E) to determine gas & oil deliverability from both wells |
| | | | | | | | | | | Gas Sold <u>-0-</u> Flared/Vented <u>-0-</u> Used on/off Lease <u>-0-</u> |

NOTE: There were -0- runs or sales of oil; -0- M. cu. ft. of gas sold;
-0- runs or sales of gasoline during the month.

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.



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 18, 1986

U O & G Incorporated
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Attention: Production Department

Dear Gentlemen:

Re: Past Due Reports - 1st Notice

Our records indicate that the required May 1986 Monthly Oil & Gas Production and Disposition reports which were due July 16, 1986 have not been received.

Please provide the completed reports within ten (10) working days. We are anxious to maintain a timely system of reporting, and your regular attention to reporting responsibilities will be appreciated.

If you feel that this notice has been sent in error, please call instead of just setting it aside. We recognize the possibility of error on our part, but your help is needed to resolve the reporting problem whether it be our error or your responsibility to report.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Vicky Carney.

Sincerely,

A handwritten signature in cursive script that reads "Vicky Carney".

Vicky Carney
Production Specialist

clj
cc: Dianne R. Nielson
Ronald J. Firth
Norman C. Stout
Suspense File

0335S/49



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 12, 1986

RETURN RECEIPT REQUESTED
P 707 260 294

U O & G Inc
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Attention: Production Department

Dear Gentlemen:

Re: Past Due Reports - 2nd Notice

A response to our first notice dated July 18, 1986 requesting reporting compliance for your May 1986 Monthly Oil and Gas Production and Disposition Reports has not been received. Please take care of this matter before it requires additional enforcement attention.

If the required reports cannot be provided within 10 working days, please call to discuss the possibility of a 2 or 3 day extension. Longer extensions will typically not be given.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Norm Stout.

Respectfully,

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

Norman C. Stout
Administrative Assistant

vlc
cc: Dianne R. Nielson
Ronald J. Firth
Suspense File
0002S-57

1. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article leaving the receipt attached and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
 2. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
 3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
 4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
 5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
 6. Save this receipt and present it if you make inquiry.
- STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,
CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)**

1. If you want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article leaving the receipt attached and present the article at a post office service window or hand it to your rural carrier. (no extra charge)
 2. If you do not want this receipt postmarked, stick the gummed stub on the left portion of the address side of the article, date, detach and retain the receipt, and mail the article.
 3. If you want a return receipt, write the certified mail number and your name and address on a return receipt card, Form 3811, and attach it to the front of the article by means of the gummed ends if space permits. Otherwise, affix to back of article. Endorse front of article **RETURN RECEIPT REQUESTED** adjacent to the number.
 4. If you want delivery restricted to the addressee, or to an authorized agent of the addressee, endorse **RESTRICTED DELIVERY** on the front of the article.
 5. Enter fees for the services requested in the appropriate spaces on the front of this receipt. If return receipt is requested, check the applicable blocks in item 1 of Form 3811.
 6. Save this receipt and present it if you make inquiry.
- STICK POSTAGE STAMPS TO ARTICLE TO COVER FIRST CLASS POSTAGE,
CERTIFIED MAIL FEE, AND CHARGES FOR ANY SELECTED OPTIONAL SERVICES. (see front)**

UNITED STATES POSTAL SERVICE
OFFICIAL BUSINESS

SENDER INSTRUCTIONS

Print your name, address, and ZIP Code in the space below.

- Complete items 1, 2, 3, and 4 on the front of this receipt.
- Attach to front of article if space permits. Otherwise affix to back of article.
- Endorse article "Return Receipt Requested" adjacent to number.

RECEIVED

AUG 21 1986

FOR PRIVATE USE \$300

RETURN TO

DIVISION OF OIL, GAS & MINING

(Name of Sender)

STATE OF UTAH
NATURAL RESOURCES
OIL, GAS, & MINING

(No. and Street, Apt., Suite, P.O. Box or R.D. No.)

3 TRIAD CENTER, SUITE 350

(City, State, and ZIP Code)

SALT LAKE CITY, UTAH 84180-1205

NORM

P 707 260 251

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

NORM

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

| | |
|---|----|
| Sent to U O & G INC | |
| Street and No. 5161 WARD ROAD UNIT #4 | |
| P.O., State and ZIP Code WHEATRIDGE CO 80033 | |
| Postage | \$ |
| Certified Fee | |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to whom and Date Delivered | |
| Return receipt showing to whom, Date, and Address of Delivery | |
| TOTAL Postage and Fees | \$ |
| Postmark or Date | |

★ U.S.G.P.O. 1983-403-517

PS Form 3800, Feb. 1982

| | |
|---|----|
| Sent to U O & G INC | |
| Street and No. 5161 WARD ROAD UNIT #4 | |
| P.O., State and ZIP Code WHEATRIDGE CO 80033 | |
| Postage | \$ |
| Certified Fee | |
| Special Delivery Fee | |
| Restricted Delivery Fee | |
| Return Receipt Showing to whom and Date Delivered | |
| Return receipt showing to whom, Date, and Address of Delivery | |
| TOTAL Postage and Fees | \$ |
| Postmark or Date | |

PS Form 3811, July 1983 447-945

● **SENDER: Complete items 1, 2, 3 and 4.**

Put your address in the "RETURN TO" space on reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for service(s) requested.

- Show to whom, date and address of delivery.
- Restricted Delivery.

3. Article Addressed to:

U O & G INC
5161 WARD ROAD UNIT #4
WHEATRIDGE CO 80033

| 4. Type of Service: | Article Number |
|---|----------------|
| <input type="checkbox"/> Registered | P 707 260 294 |
| <input checked="" type="checkbox"/> Certified | |
| <input type="checkbox"/> Express Mail | |
| <input type="checkbox"/> Insured | |
| <input type="checkbox"/> COD | |

Always obtain signature of addressee or agent and **DATE DELIVERED.**

5. Signature Addressed
X *Debbie Kelian*

6. Signature - Agent
X

7. Date of Delivery
8-17-86

8. Addressee's Address (ONLY if requested and fee paid)
Same as address

DOMESTIC RETURN RECEIPT

NORM STOUT

PS Form 3800, Feb. 1982

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Herbert H. Soggerter, Governor
Debra L. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84143 • 801-538-5340

September 22, 1986

Production Department
U O & G Inc.
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Gentlemen:

Re: Past Due Reports - 1st Notice

Our records indicate that the required July 1986 Monthly Oil & Gas Production and Disposition reports which were due September 16, 1986 have not been received.

Please provide the completed reports within ten (10) working days. We are anxious to maintain a timely system of reporting, and your regular attention to reporting responsibilities will be appreciated.

If you feel that this notice has been sent in error, please call instead of just setting it aside. We recognize the possibility of error on our part, but your help is needed to resolve the reporting problem whether it be our error or your responsibility to report.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Vicky Carney.

Sincerely,

Vicky Carney

Vicky Carney
Production Specialist

cc: Dianne R. Nielson
Ronald J. Firth
Norman C. Stout
Suspense File
0335S-33-



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangertter, 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

September 8, 1986

U O & G Inc
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Attention: Production Department

Gentlemen:

Re: Past Due Reports - 1st Notice

Our records indicate that the required May and June 1986 Monthly Oil & Gas Production and Disposition reports which were due July and August 16, 1986, respectively, have not been received. Copies of May, June, and July were sent to you August 18, 1986.

Please provide the completed reports within ten (10) working days. We are anxious to maintain a timely system of reporting, and your regular attention to reporting responsibilities will be appreciated.

If you feel that this notice has been sent in error, please call instead of just setting it aside. We recognize the possibility of error on our part, but your help is needed to resolve the reporting problem whether it be our error or your responsibility to report.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Vicky Carney.

Sincerely,

Vicky Carney

Vicky Carney
Production Specialist

cc: Dianne R. Nielson
Ronald J. Firth
Norman C. Stout
Suspense File

0002S-77



STATE OF UTAH
 NATURAL RESOURCES
 Oil, Gas & Mining

Norman H. Bangert, 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

September 8, 1986

U O & G Inc
 5161 Ward Road Unit #4
 Wheatridge, Colorado 80033

Attention: Production Department

Gentlemen:

Re: Past Due

*I THOUGHT WE WERE GOING TO
 USE A SEPARATE LTR FOR EACH
 MONTH ☺*

Our recor
 Oil & Gas Pro
 July and Augu
 Copies of May

nthly

Please pr
 days. We are
 your regular
 appreciated.

g
 and

If you fe
 instead of ju
 error on our
 problem whether it be our error or your responsibility to report.

call
 of

Please send your reply with explanatory cover letter to
 Attention: Suspense File - Vicky Carney.

Sincerely,

Vicky Carney

Vicky Carney
 Production Specialist

cc: Dianne R. Nielson
 Ronald J. Firth
 Norman C. Stout
 Suspense File

0002S-77



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

October ²⁰ 10, 1986

RETURN RECEIPT REQUESTED
P 707 260 251

U O & G Inc
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Gentlemen:

Re: Past Due Reports - 2nd Notice

A response to our first notice dated September 8, 1986 requesting reporting compliance for your May, June, and July 1986 Monthly Oil and Gas Production and Disposition Reports has not been received. Please take care of this matter before it requires additional enforcement attention.

If the required reports cannot be provided within 10 working days, please call to discuss the possibility of a 2 or 3 day extension. Longer extensions will typically not be given.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Norm Stout.

Respectfully,

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

Norman C. Stout
Administrative Assistant

vlc
cc: Dianne R. Nielson
Ronald J. Firth
Suspense File
0335S-63



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

October 23, 1986

Production Department
U O & G, Inc
5161 Ward Road Unit #4
Wheatridge, Colorado 80033

Gentlemen:

Re: Past Due Reports - 1st Notice

Our records indicate that the required August 1986 Monthly Oil & Gas Production and Disposition reports which were due October 16, 1986 have not been received.

Please provide the completed reports within ten (10) working days. We are anxious to maintain a timely system of reporting, and your regular attention to reporting responsibilities will be appreciated.

If you feel that this notice has been sent in error, please call instead of just setting it aside. We recognize the possibility of error on our part, but your help is needed to resolve the reporting problem whether it be our error or your responsibility to report.

Please send your reply with explanatory cover letter to
Attention: Suspense File - Vicky Carney.

Sincerely,

A handwritten signature in cursive script that reads "Vicky Carney".

Vicky Carney
Production Specialist

cc: Dianne R. Nielson
Ronald J. Firth
Norman C. Stout
Suspense File
0493S-16

COMPANY: U O & G INC UT ACCOUNT # N8680 SUSPENSE DATE: ~~DEC 9, 1986~~
1-9-87

TELEPHONE CONTACT DOCUMENTATION

012110

CONTACT NAME: ? ~~NO LISTING AS OF 11-17-86~~ *UO&G*

CONTACT TELEPHONE NO.: 1-303-424-7002 *last time I tried to call, # was temp disconnected.*

SUBJECT: *sent copies of May, June, July TAD to UO&G on 8-18-86. No TAD'S REC'D from them for May, June, July, or Aug. Sept due 11-16-86.*

UC 11-10-86

(Use attachments if necessary)

RESULTS:

POSSIBLE CANDIDATE FOR NOXXX

(Use attachments if necessary)

CONTACTED BY: UC

DATE: 11-25

ARM 518006 - FED 12-1
4301931200
JIS 18E SEC 12

COMPANY: UOEG INC UT ACCOUNT # N8680 SUSPENSE DATE: DEC 9, 1986

1-9-87

012110

TELEPHONE CONTACT DOCUMENTATION

ARM STRAUB - FED 12-1
4301931200 JIS 18E SEC 12

CONTACT NAME: ?

CONTACT TELEPHONE NO.: 1-303-4

SUBJECT: sent copies of May, JAD'S RECD from t
11-16-86.

1-12-87
Claudia - this
well can be
listed as "unknown"

N0000 SLTW

~~NO AS OF 11-17-86~~ *Yes*

I tried to call, # was
reconnected.

UOEG on 8-18-86. no
July, or Aug. Sept due

VC 11-10-86

RESULTS:

POSSIBLE C

N0000

CONTACTED BY: VC

DATE: 11-25

COMPANY: U O + G UT ACCOUNT # N8680 SUSPENSE DATE: _____

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: _____

CONTACT TELEPHONE NO.: 303-424-7002

SUBJECT: Send Letter not a valid number

(Use attachments if necessary)

RESULTS: _____

(Use attachments if necessary)

CONTACTED BY: _____

DATE: _____

COMPANY: U O + G UT ACCOUNT # N8680 SUSPENSE DATE: _____

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: _____

CONTACT TELEPHONE NO.: 303-424-7002

SUBJECT: Send Letter not a valid number

RESULTS:

*Ron said
no wells*

ary)

ary)

CONTACTED BY: _____

DATE: _____



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

453 South Carbon Avenue • P.O. Box 718 • Price, UT 84501 • 801-637-1303

August 2, 1985

Paul B. Allen
P.O. Box 537
Hotchkiss, Colorado 81419

Re: Temporary Change Application No. 85-92-11
Federal #12-1 Armstrong Well

Dear Mr. Allen:

The above referenced Temporary Application has been approved and a copy is enclosed for your records and information.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to be "MP".

Mark P. Page, Area Engineer
for Robert L. Morgan, State Engineer

cc: Universal Oil and Gas Company
Attn: Ron Scott
4050 Youngfield Street
Wheatridge, Colorado 80033

RLM/MPP/mjk

RECEIVED

JUL 15 1985

WATER RIGHTS PRICE

R18E

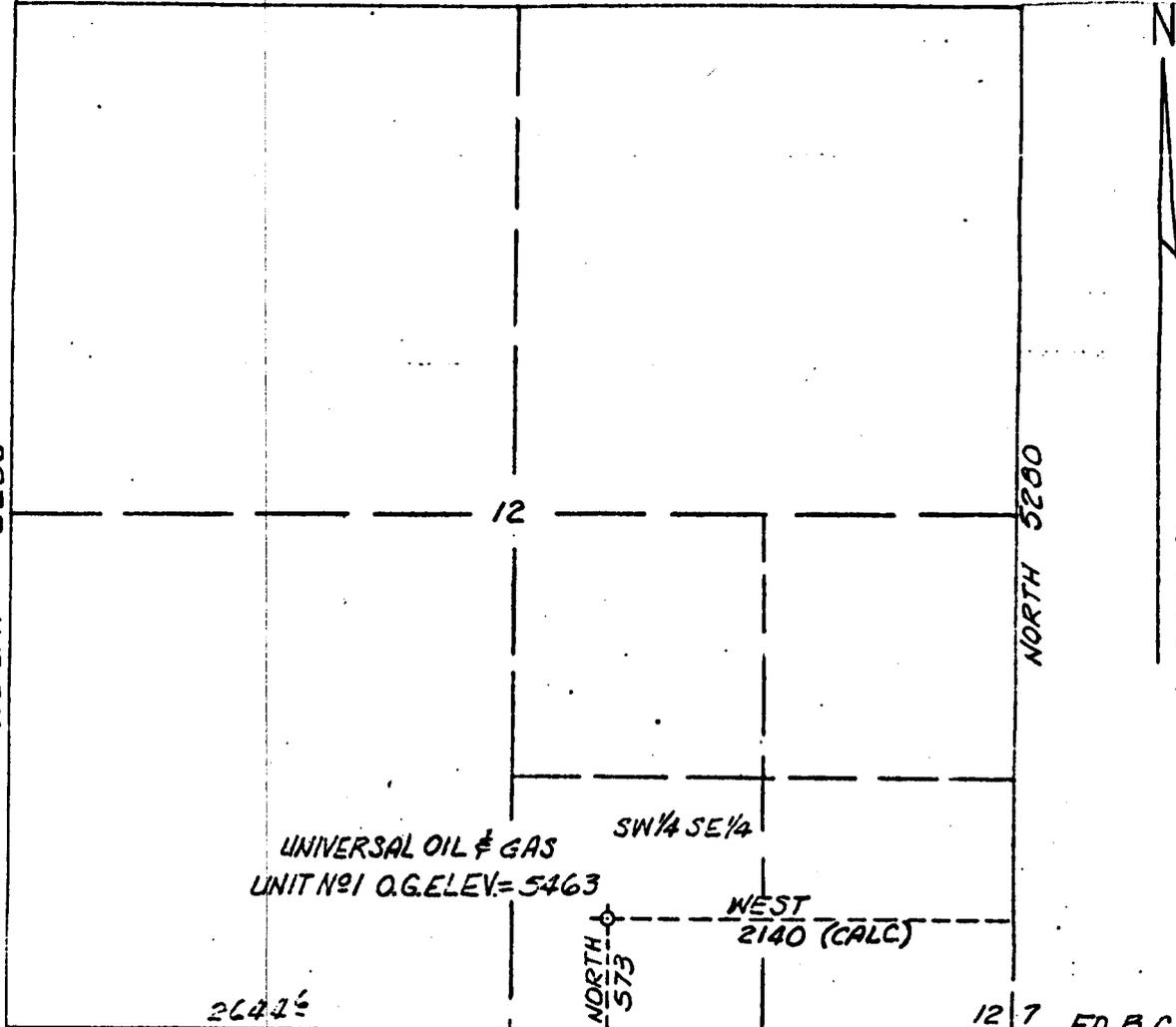
WEST 5280

BEARING BASE: S. LINE, SE. 1/4, SEC. 12 (N89°57'N)

T
21
S

N0°01'W
5280

NORTH
5280



UNIVERSAL OIL & GAS
UNIT No 1 O.G. ELEV = 5463

SW 1/4 SE 1/4

WEST
2140 (CALC)

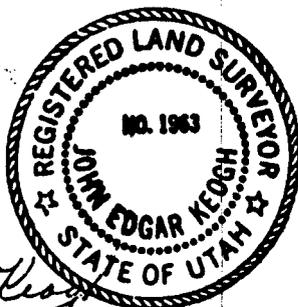
NORTH
573

2642 1/2

| | | | | |
|----------|----------|----------------|--------|----------|
| FD. B.C. | N89°57'N | 2644 1/2 | 12 7 | FD. B.C. |
| 1/4 COR. | | MEAS. 2642 1/2 | 13 18 | |
| | | | T 21 S | |

NOTE: SECTION BOUNDARY CALLS ARE RECORD

R18E | R19E



John E. Kedgh
UTAH RLS. No 1963

WELL LOCATION PLAT OF
UNIVERSAL OIL & GAS UNIT No 1 IN
SW 1/4 SE 1/4, SEC. 12, T 21 S, R 18 E, S. L. B. & M.
GRAND COUNTY, UTAH
TRANSIT & E.D.M. SURVEY FOR
UNIVERSAL OIL & GAS, INC.
SCALE: 1" = 1000' JUNE 21, 1985

ELEV. BY VER. ANGLES FROM U.S.G.S.
TOPO. QUAD. "CRESCENT JUNCTION, UTAH," 1958
(SOUTH 1/4 COR., SEC. 12 = 5490)

RECEIVED

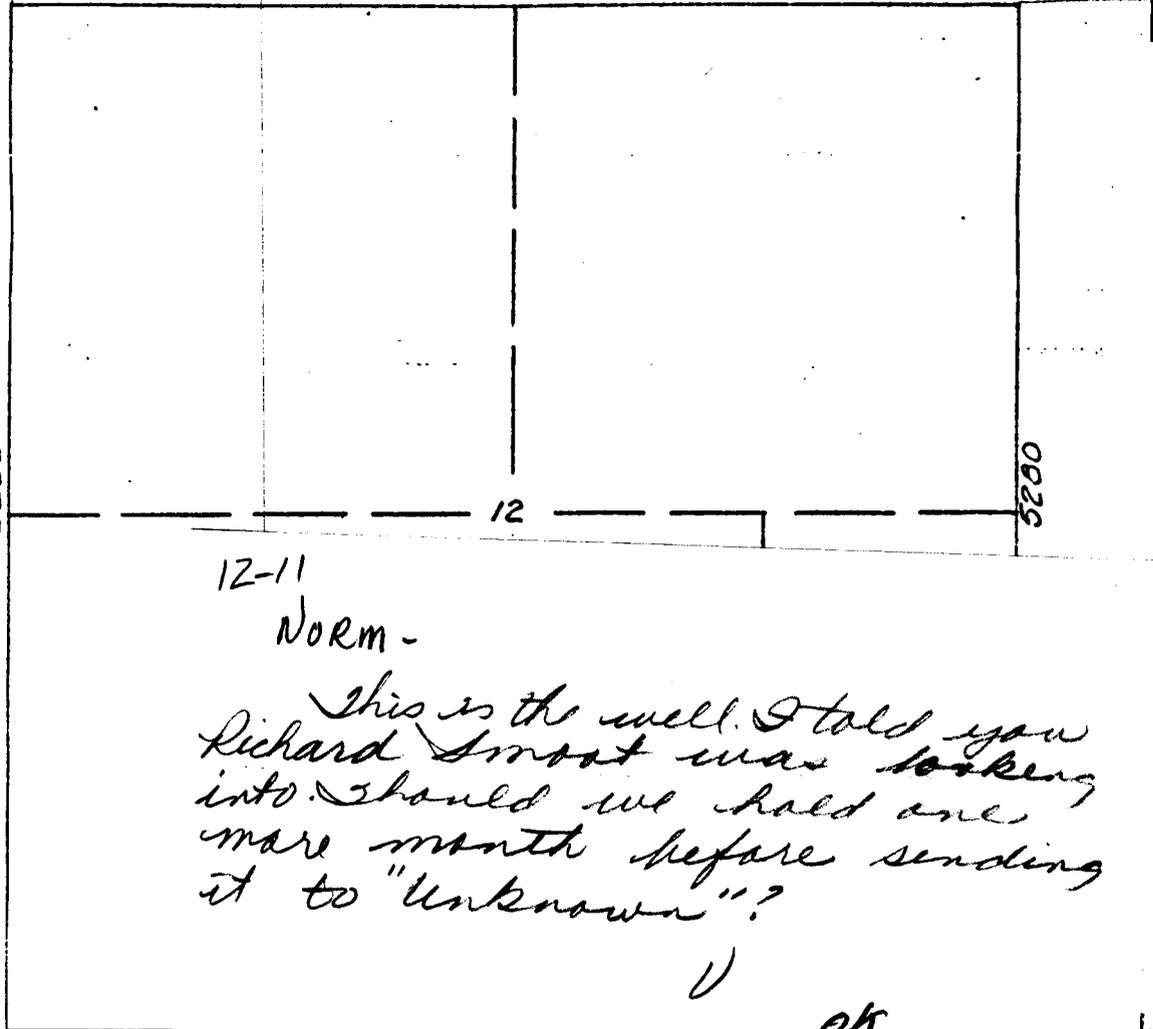
JUL 15 1985

WATER RIGHTS
PRICE

R18E

WEST 5280

BEARING BASE: S. LINE, S.E. 1/4, SEC. 12 (N89°57'N)



T
21
S

5280
N0°01'W

5280

12

12-11
NORM-

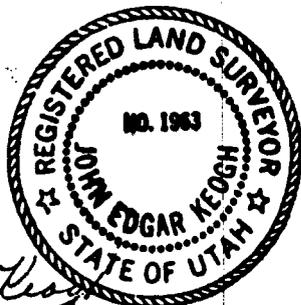
This is the well. I told you Richard Smart was looking into. Should we hold one more month before sending it to "unknown"?

OK,
Norm

i.c.

NOTE: SECTION BOUNDARY CALLS ARE RECORD

R18E | R19E



John E. Kedgh
UTAH RLS. No. 1963

WELL LOCATION PLAT OF
UNIVERSAL OIL & GAS UNIT No. 1 IN
SW 1/4 SE 1/4, SEC. 12, T21S, R18E, S.L.B. & M.
GRAND COUNTY, UTAH
TRANSIT & E.D.M. SURVEY FOR
UNIVERSAL OIL & GAS, INC.
SCALE: 1"=1000' JUNE 21, 1985

ELEV. BY VER. ANGLES FROM U.S.G.S.
TOPO. QUAD. "CRESCENT JUNCTION, UTAH," 1958
(SOUTH 1/4 COR., SEC. 12 = 5490)



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

453 South Carbon Avenue • P.O. Box 718 • Price, UT 84501 • 801-637-1303

Universal Oil & Gas

RECEIVED

AUG 05 1985

August 2, 1985

DIVISION OF OIL
GAS & MINING

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

Re: Temporary Change Application No. 85-92-11
Federal #12-1 Armstrong Well

Dear Arlene:

Enclosed is a copy of the above referenced Temporary Change Application. Please keep this for your records and information.

Sincerely,

Mark P. Page

Mark P. Page
Area Engineer

Enclosures

MPP/mjk

RECEIVED

AUG 05 1985

Form 111 8-61-2M

031029

DIVISION OF OIL
GAS & MINING

APPLICATION NO. 85-92-11
DISTRIBUTION SYSTEM

Application For Temporary Change of Point of Diversion,
Place or Purpose of Use

RECEIVED

STATE OF UTAH

AUG 1 1985

(To Be Filed in Duplicate)

WATER RIGHTS
PRICE

Price, Utah July 25, 19 85
Place Date

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by 92-7 (A-6128) Cert. No. 1513
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, 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. The owner of right or application is Paul B. Allen
- 2. The name of the person making this application is Paul B. Allen
- 3. The post office address of the applicant is P.O. Box 537 Hotchkiss, Colorado 81419

Phone: 1-303-872-3454

PAST USE OF WATER

- 4. The flow of water which has been used in second feet is 0.5
- 5. The quantity of water which has been used in acre feet is
- 6. The water has been used each year from March 1 to November 1 incl.
(Month) (Day) (Month) (Day)
- 7. The water has been stored each year from to incl.
(Month) (Day) (Month) (Day)
- 8. The direct source of supply is Floy Wash in Grand County.
- 9. The water has been diverted into ditch canal at a point located S. 390 ft. & W. 80 ft. from E 1/2 Cor. Sec. 27, T21S, R18E, SLB&M.
- 10. The water involved has been used for the following purpose: Irrigation: 3.3 acs. SE 1/4 SE 1/4 Sec. 27, T21S, R18E; 6.2 acs. NE 1/4 NE 1/4, 10.5 acs. NW 1/4 NE 1/4 Sec. 34, T21S, R18E, all SLB&M.
Total 20.0 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- 11. The flow of water to be changed in cubic feet per second is
- 12. The quantity of water to be changed in acre-feet is 3.0
- 13. The water will be diverted into the tank trucks ditch canal at a point located S. 390 ft. & W. 80 ft. from E 1/2 Cor. Sec. 27, T21S, R18E, SLB&M.
- 14. The change will be made from August 1, 1985, to July 31, 19 86
(Period must not exceed one year)
- 15. The reasons for the change are Change from agricultural to industrial use.
- 16. The water involved herein has heretofore been temporarily changed 0 years prior to this application.

43-019-31200-SOW

(List years change has been made)

- 17. The water involved is to be used for the following purpose: Exploration drilling.
Federal #12-1 Armstrong - N. 573 ft. & W. 2140 ft. from SE Cor. Sec. 12, T21S, R18E, SLB&M. (SW 1/4 SE 1/4) Total acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

This water will be used by Universal Oil & Gas Co. for the drilling of the above referenced well. Attn: Ron Scott, 4050 Youngfield Street, Wheatridge, Colorado 80033; phone 1-303-431-7468.

A filing fee in the sum of \$2.50 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Paul B. Allen
Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$5.00. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:
State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. (River System)

1. N.A. Application received by Water Commissioner (Name of Commissioner)

Recommendation of Commissioner

2. AUGUST 1, 1985 Application received over counter in State Engineer's Office by AP
by mail

3. Fee for filing application, ~~\$5.00~~ ^{7.50}, received by ; Rec. No.

4. Application returned, with letter, to for correction.

5. Corrected application resubmitted over counter to State Engineer's Office.
by mail

6. Fee for investigation requested \$.....

7. Fee for investigation \$....., received by : Rec. No.

8. Investigation made by ; Recommendations:

9. Fee for giving notice requested \$.....

10. Fee for giving notice \$....., received by : Rec. No.

11. Application approved for advertising by publication by
mail

12. Notice published in.....

13. Notice of pending change application mailed to interested parties by as follows:

14. Change application protested by (Date Received and Name)

15. Hearing set for at

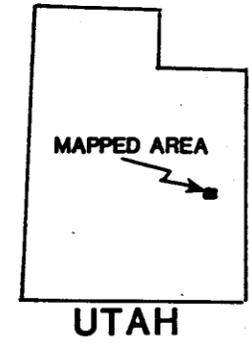
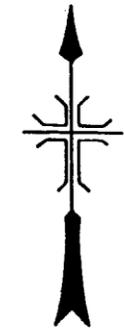
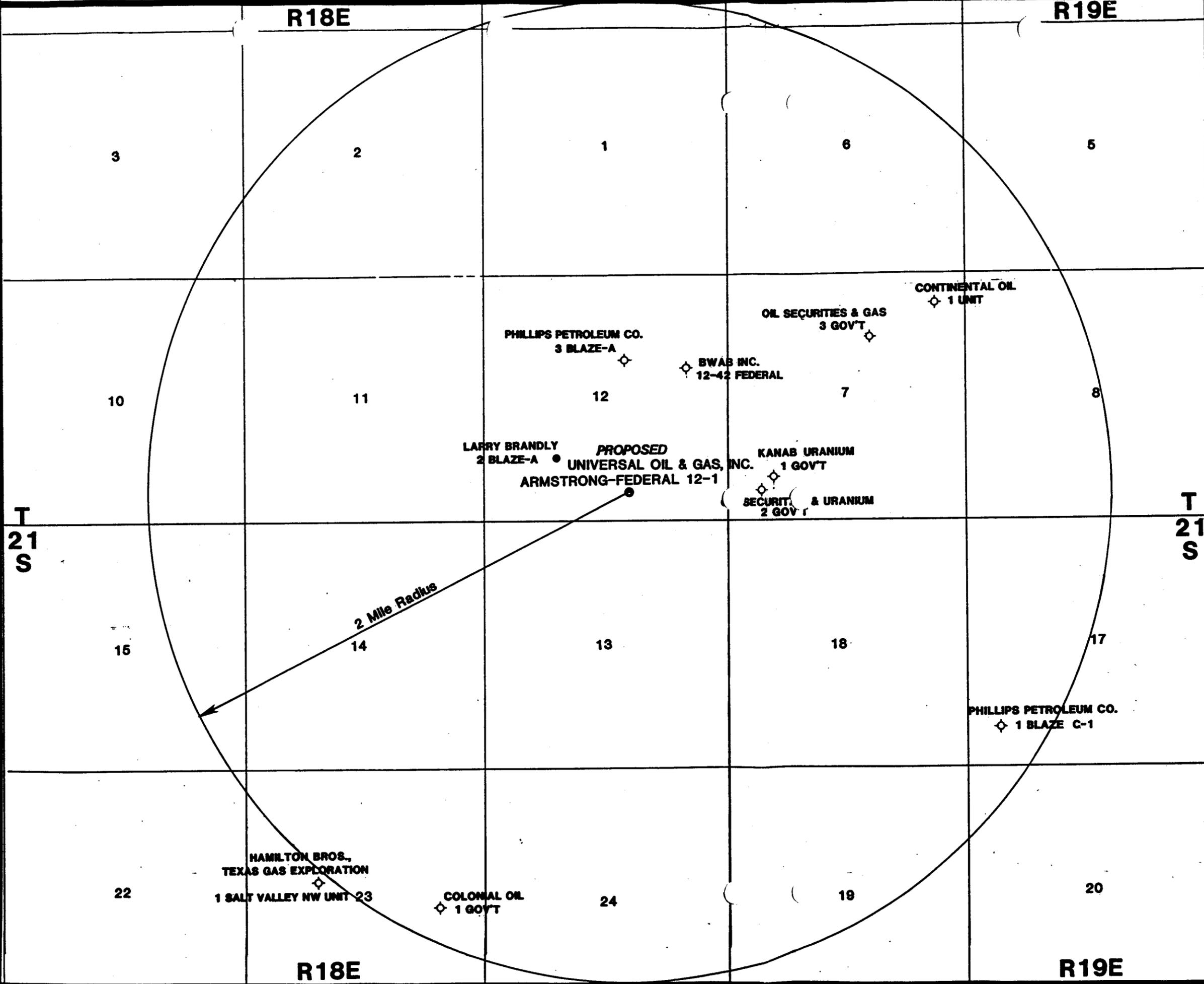
16. B-1-85 Application recommended for rejection approval by AP

17. B-1-85 Change Application rejected approved and returned to APPLICANT

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1.
- 2.
- 3.

Mark P. Page
FOR State Engineer



SCALE: 1" = 2000'

EXHIBIT "C"

UNIVERSAL OIL & GAS, INC.
EXISTING WELLS
 IN TWO MILE RADIUS
 of
ARMSTRONG-FEDERAL 12-1
 SW/4SE/4 Section 12
 T21S-R18E
 GRAND COUNTY, UTAH

July, 1985

R 18E

R 19E

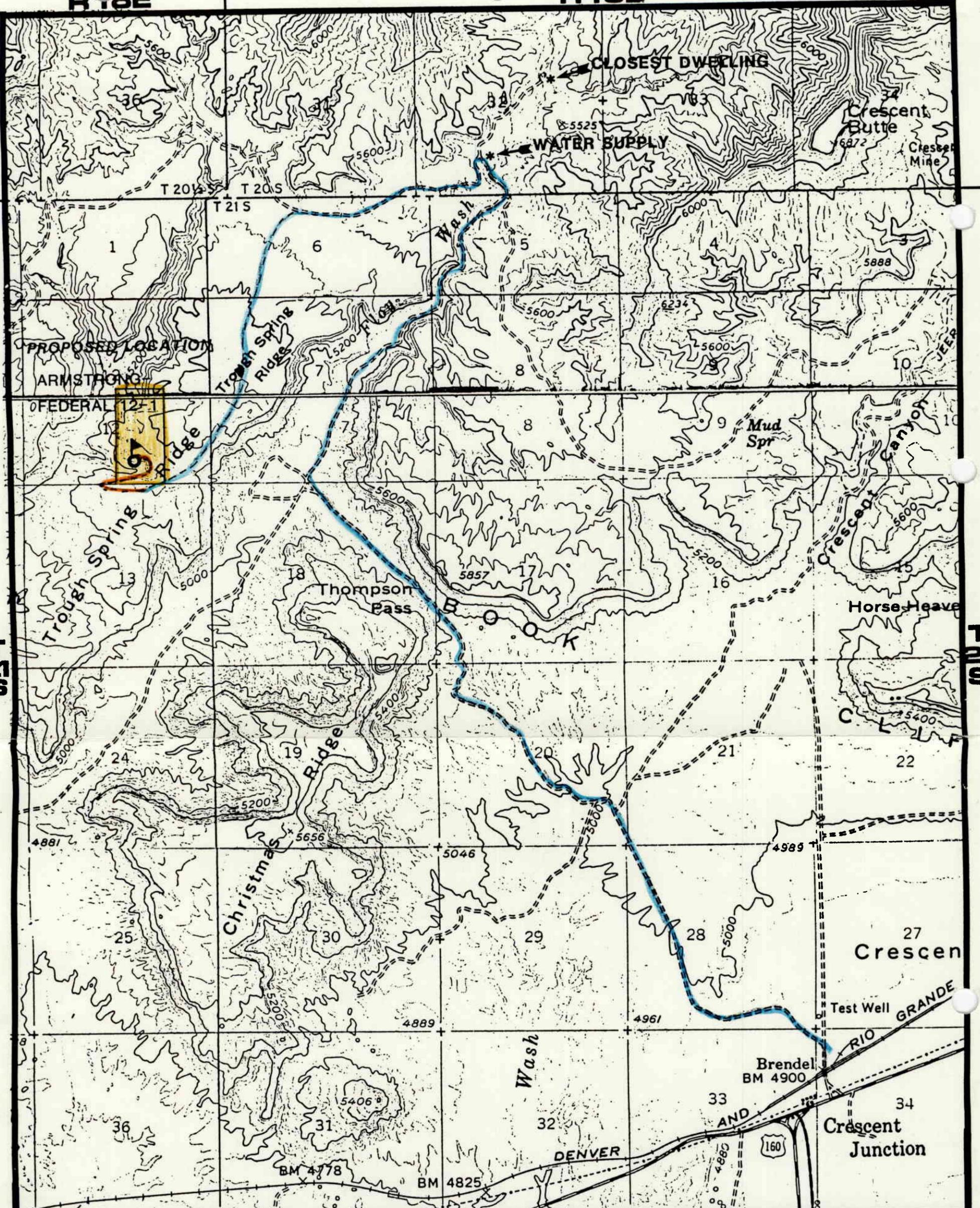
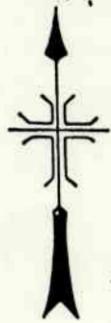


EXHIBIT "B"



UTAH



LEGEND

LEASE BOUNDARY
W/2SE/4 Sec. 12

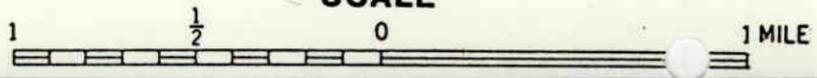


EXISTING ACCESS ROAD



PROPOSED ACCESS ROAD

SCALE



UNIVERSAL OIL & GAS, INC.

ACCESS ROADS & WATER SUPPLY

ARMSTRONG-FEDERAL 12-1
 SW/4SE/4 Section 12
 T21S-R18E
 GRAND COUNTY, UTAH

5.12.7215, R 18E

43-019-31200

July, 1985

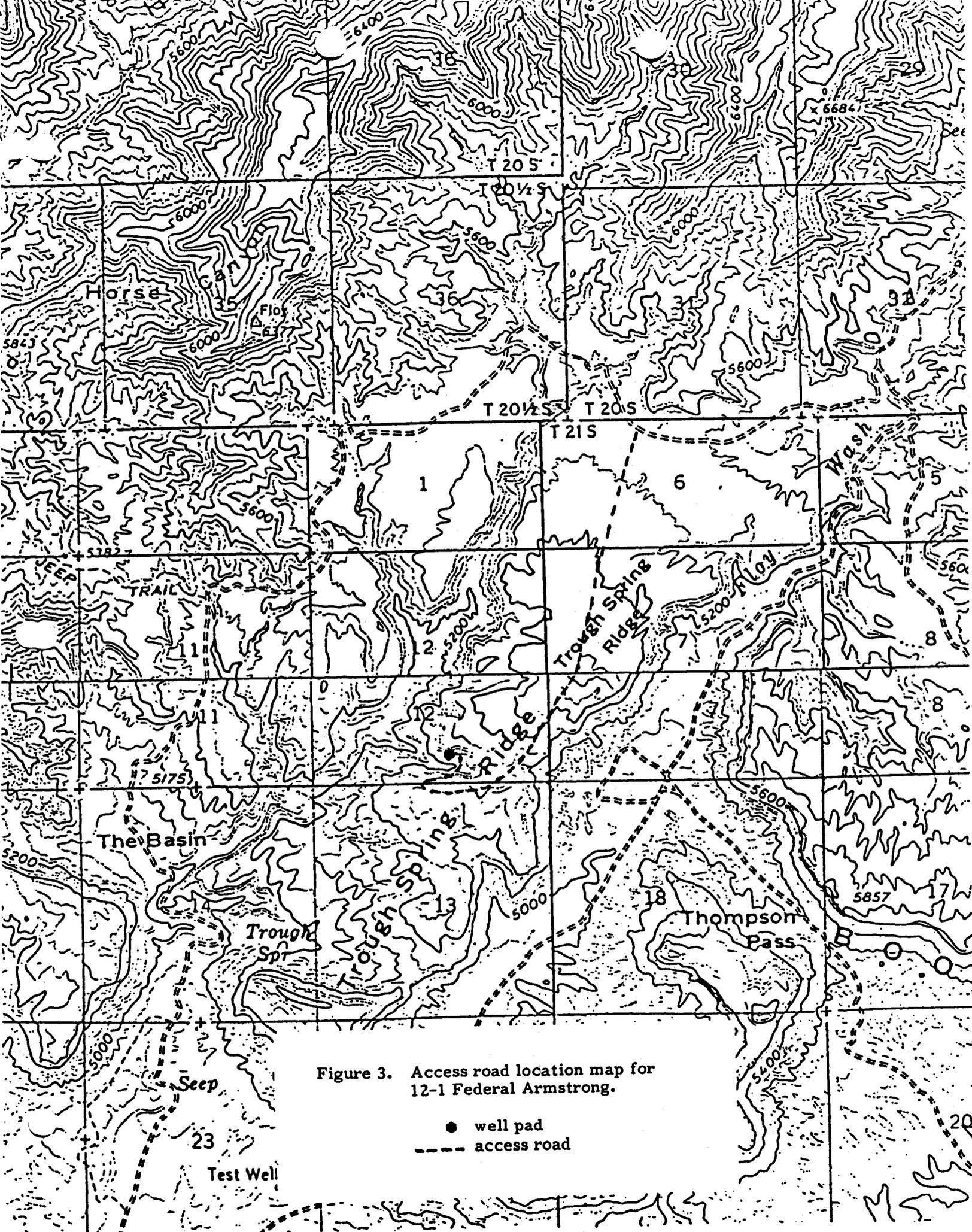


Figure 3. Access road location map for 12-1 Federal Armstrong.

- well pad
- access road

23

Test Well

Horse

Flo

TRAIL

The Basin

Trough
Spr

TROUGH
SPRING

Trough
Ridge

Thompson
Pass

23

Test Well

T 20 1/2 S

T 20 1/2 S

T 20 1/2 S

T 20 S

T 21 S

1

6

11

12

8

11

13

18

17

23

Test Well

x 6684

560

5857

20

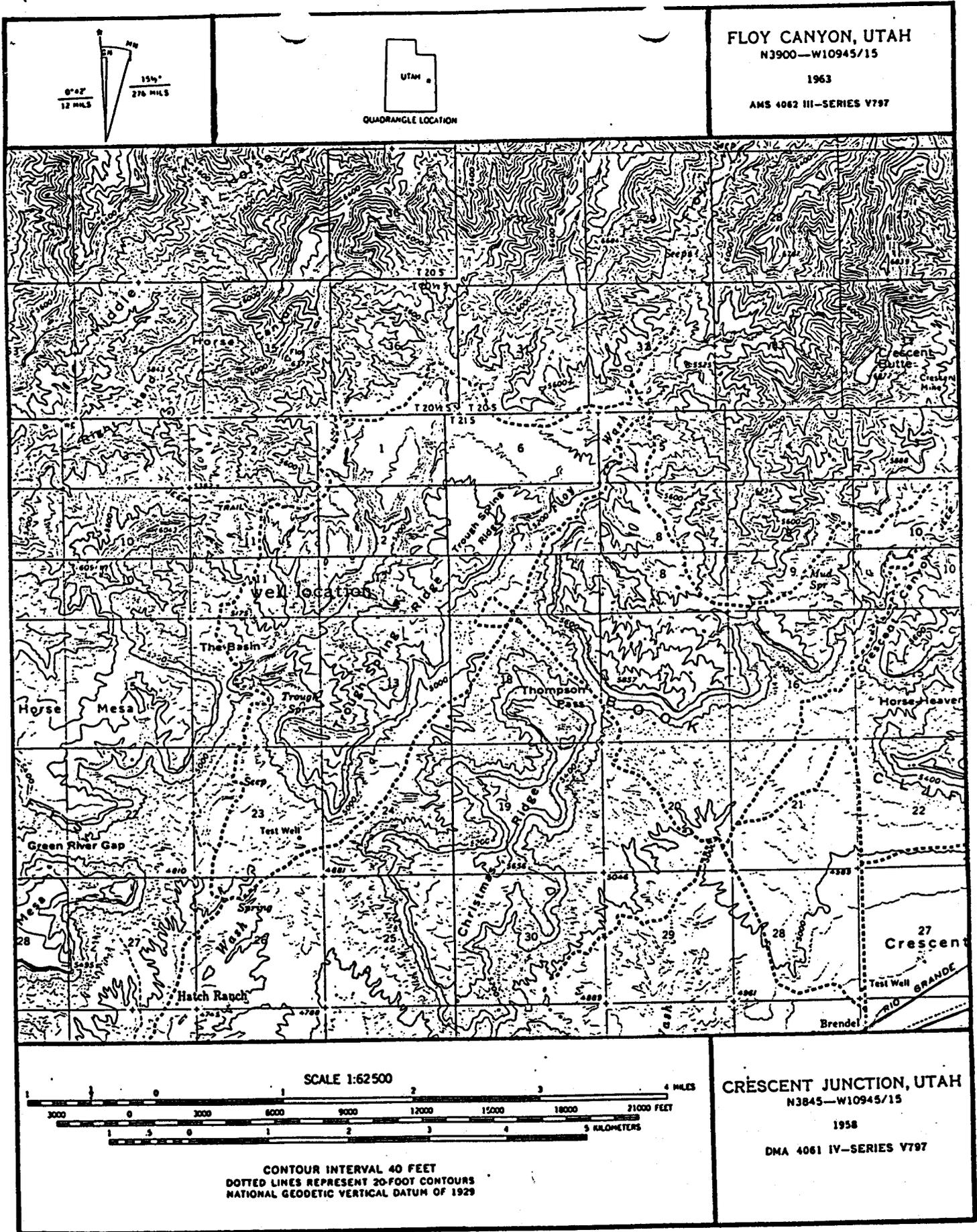
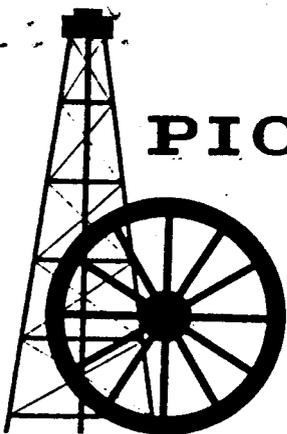


Figure 1. Location map for 12-1 Federal Armstrong well pad, Universal Oil and Gas, Inc.



PIONEER OIL & GAS

RECEIVED

OCT 03 1991

DIVISION OF
OIL GAS & MINING

October 2, 1991

Bureau of Land Management
Grand Resource Area
PO Box 970
Moab, UT 84532

Re: Change of Operator
Amstrong Federal 12-1
12-21S-18E
Grand County, Utah

Gentlemen:

Enclosed in triplicate, please find a Sundry Form 3160-5 for a Change of Operator.

Sincerely,

R. Heggie Wilson
Land Manager

RHW/tbp

Enc.

cc: State of Utah
Division of Oil, Gas and Mining
355 W. N. Temple, Suite 300
SLC, UT 84180-1204

Thomas G. Dorough
PO Box 1196
Englewood, CO 80150

**UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPPLICATE
 (Other instructions on
 reverse side)

Form approved.
 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.)*

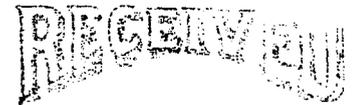
| | | | |
|---|--|---|--------------------------|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 5. LEASE DESIGNATION AND SERIAL NO. U-56529 | |
| 2. NAME OF OPERATOR Pioneer Oil and Gas | | 6. FARM OR LEASE NAME Armstrong Federal | |
| 3. ADDRESS OF OPERATOR 6925 Union Park Center, Suite 145, Midvale, UT 84047 | | 7. UNIT AGREEMENT NAME | |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Surface: 573 FSL (SW 1/4 SE 1/4) Producing: 808 FSL 2140 FEL 2000 FEL Bottom Hole: 886 FSL 1961 FEL | | 8. WELL NO. 12-1 | |
| 14. PERMIT NO. 43-019-31200 | | 9. FIELD AND POOL, OR WILDCAT Blaze Canyon | |
| 15. ELEVATIONS (Show whether DP, RT, GR, etc.) 5473 KB | | 10. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12: T21S-R18E | |
| | | 12. COUNTY OR PARISH Grand | 13. STATE Utah |

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

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|---|---|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <u>Change of Operator</u> <input checked="" type="checkbox"/> | |
| (Other) <input type="checkbox"/> | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | |

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

Please be advised, effective with the approval of assignment of Record Title Interest from Thomas G. Dorough to Pioneer Oil and Gas, Pioneer shall assume responsibility for operations of said well pursuant to the terms and conditions of Lease U-56529. Pioneer Oil and Gas's nationwide bond no. UTU-0797, #752-04-46 is hereby submitted to meet federal bonding requirements thereof.



087 0 3 1991

DIVISION OF
 OIL GAS & MINING

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

SIGNED Rt. Heggie Wilson TITLE Land Manager DATE 10/1/91

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPlicate
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0115
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Pioneer Oil and Gas

3. ADDRESS OF OPERATOR
6925 Union Park Center, Suite 145, Midvale, UT 84047

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
Surface: 573 FSL (SW1SE1/4)
2140 FEL
Producing: 808 FSL Bottom Hole: 886 FSL
2000 FEL 1961 FEL

14. PERMIT NO. 43-019-31200 15. ELEVATIONS (Show whether DF, WT, GR, etc.) 5473 KB

5. LEASE DESIGNATION AND SERIAL NO
U-56529

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Armstrong Federal

9. WELL NO.
12-1

10. FIELD AND POOL, OR WILDCAT
Blaze Canyon

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 12: T21S-R18E

12. COUNTY OR PARISH 13. STATE
Grand 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"/> | REPAIR OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <u>Change of Operator</u> <input checked="" type="checkbox"/> | |
| (Other) <input type="checkbox"/> | | (NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.) | |

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

Please be advised, effective with the approval of assignment of Record Title Interest from Thomas G. Dorough to Pioneer Oil and Gas, Pioneer shall assume responsibility for operations of said well pursuant to the terms and conditions of Lease U-56529. Pioneer Oil and Gas's nationwide bond no. UTU-0797, #752-04-46 is hereby submitted to meet federal bonding requirements thereof.

RECEIVED

OCT 24 1991

DIVISION OF
OIL GAS & MINING

eff. 9/11/91, same date as the assignment.

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

SIGNED R. Reggie Wilson TITLE Land Manager DATE 10/1/91

(This space for Federal or State office use)

APPROVED BY William C. Mungert TITLE Assistant District Manager for Minerals DATE 10/22/91

CONDITIONS OF APPROVAL, IF ANY:

CC: [unclear]

*See Instructions on Reverse Side

Approved w/ conditions 10/1/91

ALJ 10/22/91

| | |
|----------|---|
| Routing: | |
| 1- LCR | ✓ |
| 2- DTS | ✓ |
| 3- VLC | ✓ |
| 4- RJF | ✓ |
| 5- RWM | ✓ |
| 6- ADA | ✓ |

Attach all documentation received by the division regarding this change.
Initial each listed item when completed. Write N/A if item is not applicable.

Change of Operator (well sold) Designation of Agent
 Designation of Operator Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 9-1-91)
 *NOOOO-UNKNOWN OPERATOR

To (new operator) PIONEER OIL & GAS FROM (former operator) _____
 (address) 6925 UNION PARK CENTER (address) _____
SUITE 145 _____
MIDVALE, UT 84047 _____
 phone (801) 566-3000 phone () _____
 account no. N 3025 account no. N

Well(s) (attach additional page if needed):

| | | | | |
|---------------------------------------|--------------------------|----------------------|---|----------------------------|
| Name: <u>ARMSTRONG FED #12-1/SLTW</u> | API: <u>43-019-31200</u> | Entity: <u>10360</u> | Sec <u>12</u> Twp <u>21S</u> Rng <u>18E</u> | Lease Type: <u>U-56529</u> |
| Name: _____ | API: _____ | Entity: _____ | Sec ___ Twp ___ Rng ___ | Lease Type: _____ |
| Name: _____ | API: _____ | Entity: _____ | Sec ___ Twp ___ Rng ___ | Lease Type: _____ |
| Name: _____ | API: _____ | Entity: _____ | Sec ___ Twp ___ Rng ___ | Lease Type: _____ |
| Name: _____ | API: _____ | Entity: _____ | Sec ___ Twp ___ Rng ___ | Lease Type: _____ |
| Name: _____ | API: _____ | Entity: _____ | Sec ___ Twp ___ Rng ___ | Lease Type: _____ |

OPERATOR CHANGE DOCUMENTATION

- 1/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Has been in "unknown" operator status since 1-27-87)*
- 2/E 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 10-3-91)*
- 3/A 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) ____ If yes, show company file number: _____.
- 4/E 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- 5/E 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(10-24-91)*
- 6/E 6. Cardex file has been updated for each well listed above. *(10-24-91)*
- 7/E 7. Well file labels have been updated for each well listed above. *(10-24-91)*
- 8/E 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(10-24-91)*
- 9/E 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ITY REVIEW

- 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) ____ (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

D VERIFICATION (Fee wells only)

- 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no) ____.
Today's date _____ 19____. If yes, division response was made by letter
per dated _____ 19____.

SE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated _____ 19____, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- 2. Copies of documents have been sent to State Lands for changes involving State leases.

ING

- 1. All attachments to this form have been microfilmed. Date: Oct 31 1991.

ING

- 1. Copies of all attachments to this form have been filed in each well file.
- 2. The original of this form and the original attachments have been filed in the Operator Change file.

MENTS

911024 Btm/Moab "Approved on 10-22-91 eff. 9-1-91." see Btm approval. Verlene stated that the former recognized operator was "Univessal Oil & Gas". DOBm changed operator from "N 81680-UD & G" to "Unknown" operator on 1-27-87, as they were unable to locate them.

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPI
 (Other instructions
 verse side)

Form approved.
 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.)

| | | |
|--|---|--|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | | 3. LEASE DESIGNATION AND SERIAL NO U-56529 |
| 2. NAME OF OPERATOR Pioneer Oil and Gas | | 4. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| 3. ADDRESS OF OPERATOR 6925 Union Park Center, Suite 145, Midvale, UT 84047 | | 7. UNIT AGREEMENT NAME |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Surface: 573 FSL (SW1SE1) 2140 FEL Producing: 808 FSL Bottom Hole: 886 FSL 2000 FEL 1961 FEL | | 8. FARM OR LEASE NAME Armstrong Federal |
| 14. PERMIT NO. 43-019-31200 | 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5473 KB | 9. WELL NO. 12-1 |
| | | 10. FIELD AND POOL, OR WILDCAT Blaze Canyon |
| | | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 12: T21S-R18E |
| | | 12. COUNTY OR PARISH Grand |
| | | 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"/> | FILL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETION <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANE <input type="checkbox"/> | (Other) <u>Change of Operator</u> | <input checked="" type="checkbox"/> |
| (Other) <input type="checkbox"/> | | (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) | |

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

Please be advised, effective with the approval of assignment of Record Title Interest from Thomas G. Dorough to Pioneer Oil and Gas, Pioneer shall assume responsibility for operations of said well pursuant to the terms and conditions of Lease U-56529. Pioneer Oil and Gas's nationwide bond no. UTU-0797, #752-04-46 is hereby submitted to meet federal bonding requirements thereof.

eff. 9/1/91, same date as the assignment.

RECEIVED

DEC 31, 1991

DIVISION OF
 OIL GAS & MINING

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

SIGNED R. Heggie Wilson

TITLE Land Manager

DATE 10/1/91

(This space for Federal or State office use)

APPROVED BY William C. Murrer

TITLE Assistant District Manager
 for Minerals

DATE 10/22/91

CONDITIONS OF APPROVAL, IF ANY:

COND

*See Instructions on Reverse Side

Approve w/conditions 10/1/91

ALJ 10/22/91

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

RECEIVED

JAN 10 1992

SUNDRY NOTICES AND REPORTS ON OIL, GAS & MINING

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

| |
|---|
| 6. Lease Designation and Serial Number U-56529 |
| 7. Indian Allottee or Tribe Name N/A |
| 8. Unit or Communitization Agreement N/A |
| 9. Well Name and Number Armstrong-Federal |
| 10. API Well Number 12-1 43-019-31200 |
| 11. Field and Pool, or Wildcat Blaze Canyon |

1. Type of Well
 Oil Well Gas Well Other (specify)

2. Name of Operator
Pioneer Oil and Gas

3. Address of Operator
6925 Union Park Center, #145, Midvale, UT 84047

4. Telephone Number
801-566-3000

5. Location of Well
 Footage : 573' FSL, 2140' FEL
 Co. Sec. T. R. M. : SWSE Sec. 12, T21S-R18E
 County : Grand
 State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

| | |
|---|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Recompletion |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Multiple Completion | <input type="checkbox"/> Water Shut-Off |
| <input checked="" type="checkbox"/> Other <u>Change of Operator</u> | |

SUBSEQUENT REPORT
(Submit Original Form Only)

| | |
|--|---|
| <input type="checkbox"/> Abandonment | <input type="checkbox"/> New Construction |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change of Plans | <input type="checkbox"/> Shoot or Acidize |
| <input type="checkbox"/> Conversion to Injection | <input type="checkbox"/> Vent or Flare |
| <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Other | |

Approximate Date Work Will Start _____

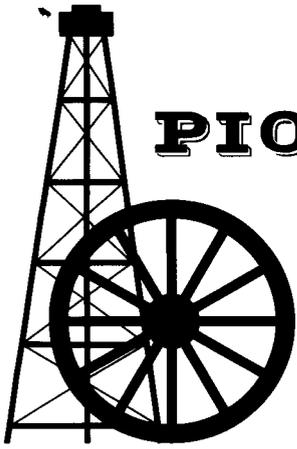
Date of Work Completion _____
 Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.
 * Must be accompanied by a cement verification report.

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

Effective September 1, 1991, Pioneer assumed operations for the above referenced well.

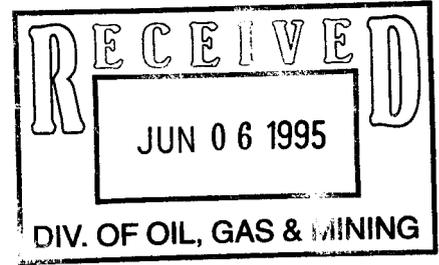
14. I hereby certify that the foregoing is true and correct

Name & Signature R. Heggie Wilson Title Land Manager Date 1/9/92
 (State Use Only)



PIONEER OIL & GAS

June 5, 1995



Mr. Mike Heberon, Engineer
Utah Division of Oil, Gas & Mining
3 Triad Center, Suite 350
Salt Lake City, Utah 84130-1203

Re: Sundry Notice
Well Test
Armstrong Fed. #12-1
Sec. 12-T215-R18E

Gentlemen:

Please find enclosed the Sundry notice outlining the proposed well test on the above referenced well.

Sincerely,

A handwritten signature in black ink, appearing to read "Jason G. Blake".

Jason G. Blake
Geology/Field Operations

JGB/cf

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

6. Lease Designation and Serial Number
U-56529

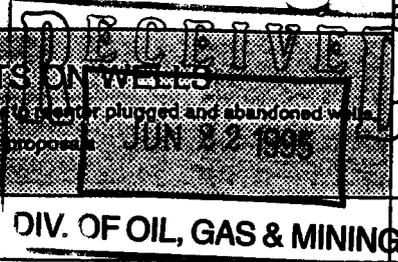
7. Indian Allottee or Tribe Name
N/A

8. Unit or Communitization Agreement
N/A

9. Well Name and Number
Armstrong Fed.#12-1

10. API Well Number
43-019-31200

11. Field and Pool, or Wildcat
Blaze Canyon



SUNDRY NOTICES AND REPORTS ON WELLS
Use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well
 Oil Well Gas Well Other (specify)

2. Name of Operator
Pioneer Oil and Gas

3. Address of Operator
1225 Ft. Union Blvd., #100, Midvale, Utah 84047

4. Telephone Number
801-566-3000

5. Location of Well
Footage : 573' FSL&2140' FEL
QQ, Sec. T., R., M. : Sec. 12-T21S-R18E
County : Grand
State : UTAH

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

NOTICE OF INTENT
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other First production
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 7/26/95

SUBSEQUENT REPORT
(Submit Original Form Only)

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

Date of Work Completion _____

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

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

Pioneer made initial production on 6/10 through 6/14, approximately 170BBLs of oil have were sold subject to this period. The well was shut-in on 6/14 awaiting construction of production facilities. Upon installation of a pumping unit and associated production facilities, Pioneer will continue to test the #12-1 in order to better estimate GOR and H₂O production.

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

Name & Signature R. H. C. Title Land Manager Date 6/20/95
(Use Only)

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU56529

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
Armstrong Federal 12-1

2. NAME OF OPERATOR:
Pioneer Oil and Gas

9. API NUMBER:
43019312000

3. ADDRESS OF OPERATOR:
1206 W So. Jordan Prkwy S Jordan UT 84095

PHONE NUMBER:
801 566 3000

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL
FOOTAGES AT SURFACE: _____ COUNTY: **Grand**
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SWSE 12 21S 18E** STATE: **UTAH**

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____ | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input checked="" type="checkbox"/> OTHER: <u>change from gas to oil designation</u> |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

There is just enough gas made to run the treater.

RECEIVED
NOV 17 2000
DIVISION OF
OIL, GAS AND MINING

NAME (PLEASE PRINT) John O. Anderson TITLE Production Manager
SIGNATURE *John O. Anderson* DATE November 16, 2000

(This space for State use only)

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

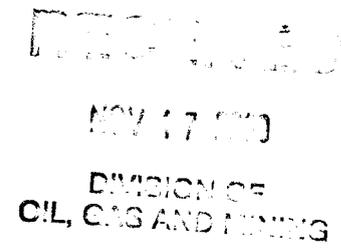
FORM 9

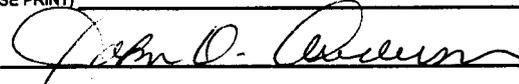
| | | |
|--|---|--|
| SUNDRY NOTICES AND REPORTS ON WELLS | | 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56529 |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| | | 7. UNIT or CA AGREEMENT NAME: |
| 1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | 8. WELL NAME and NUMBER: Armstrong Federal 12-1 | |
| 2. NAME OF OPERATOR: Pioneer Oil and Gas | 9. API NUMBER: 43019312000 | |
| 3. ADDRESS OF OPERATOR: 1206 W S Jordan Prkwy #B, S Jordan UT 84095 | PHONE NUMBER: 801566-3000 | 10. FIELD AND POOL, OR WILDCAT: |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: _____ COUNTY: Grand | | |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 12 21S 18E | | STATE: UTAH |

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | | |
|---|---|---|--|
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| <input type="checkbox"/> NOTICE OF INTENT <small>(Submit in Duplicate)</small> Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| <input type="checkbox"/> SUBSEQUENT REPORT <small>(Submit Original Form Only)</small> Date of work completion: _____ | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input checked="" type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> OTHER: _____ |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

In August 2000 approximately \$7,000 was spent to bring the well back on line. Well was pulled and some items repaired.


 RECEIVED
 NOV 17 2000
 DIVISION OF
 OIL, GAS AND MINING

| | |
|--|---------------------------------|
| NAME (PLEASE PRINT) <u>John O. Anderson</u> | TITLE <u>Production Manager</u> |
| SIGNATURE <u></u> | DATE <u>November 16, 2000</u> |

(This space for State use only)

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

RECEIVED

JAN 07 2008

FORM 9

DIV. OF OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL GAS WELL OTHER SEE ATTACHED LIST

2. NAME OF OPERATOR:
RESOURCE DEVELOPMENT TECHNOLOGY, LLC N3445

3. ADDRESS OF OPERATOR: Suite 2000,
7175 W JEFFERSON AVE CITY LAKEWOOD STATE CO ZIP 80235 PHONE NUMBER: (303) 716-3200

4. LOCATION OF WELL
FOOTAGES AT SURFACE: SEE ATTACHED LIST

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:
SEE ATTACHED LIST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
SEE ATTACHED LIST

8. WELL NAME and NUMBER:
SEE ATTACHED LIST

9. API NUMBER:
SEE ATTACH

10. FIELD AND POOL, OR WILDCAT:
SEE ATTACHED LIST

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

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input checked="" type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____ | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> OTHER: _____ |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. N3025
OLD OPERATOR: PIONEER OIL & GAS; 1206 W. SOUTH JORDAN PARKWAY; UNIT B; SOUTH JORDAN, UT 84095-4551

NAME: Gregg B. Colton TITLE: Vice President

SIGNATURE: Gregg B. Colton DATE: 1/3/2008

EFFECTIVE DATE OF TRANSFER: 1JAN2008

BLM BOND NUMBER: LPM 8720545

NAME (PLEASE PRINT) STEVE STEPANEK TITLE MANAGING MEMBER

SIGNATURE Steve Stepanek DATE 12/22/07

(This space for State use only)

APPROVED 1/16/2008

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

**Addendum to Utah Form 9
Well Listing for Change of Operator
Pioneer Oil & Gas (Old Operator) to Resource Development Technology (New Operator)**

| <u>Well Name</u> | <u>Well No</u> | <u>API Nmbr</u> | <u>Sec</u> | <u>Twn</u> | <u>Rge</u> | <u>Qtr-Qtr</u> | <u>Footages</u> | <u>Lease Nmbr</u> |
|------------------------|----------------|-----------------|------------|------------|------------|----------------|-----------------------|-------------------|
| Willow Creek East Unit | 29-13 | 43-019-30738 | 29 | 19S | 21E | SW SW | 116'FSL & 11' FWL | U-0149777 |
| Willow Creek East | 30-5 | 43-019-30745 | 30 | 19S | 21E | SE NW | 1605' FNL & 1394' FWL | U-0149777 |
| Armstrong Federal | 12-1 | 43-019-31200 | 12 | 21S | 18E | SW SE | 573' FSL & 2140' FEL | U56529 |

Effective Date: January 1, 2008

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING
 1. DJJ
 2. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

1/1/2008

| | |
|--|--|
| FROM: (Old Operator): N3025-Pioneer Oil & Gas 1206 W South Jordan Parkway, #B South Jordan, UT 84095-4551 Phone: 1 (801) 566-3000 | TO: (New Operator): N3445-Resource Development Technology, LLC 7175 W Jefferson Ave, Suite 2000 Lakewood, CO 80235 Phone: 1 (303) 716-3200 |
|--|--|

| WELL NAME | CA No. | | | Unit: | | | | WELL STATUS |
|------------------------|--------|------|------|------------|-----------|------------|-----------|-------------|
| | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | |
| WILLOW CREEK E. 29-13 | 29 | 190S | 210E | 4301930738 | 9198 | FEDERAL | GW | P |
| WILLOW CREEK EAST 30-5 | 30 | 190S | 210E | 4301930745 | 10919 | FEDERAL | GW | S |
| ARMSTRONG-FEDERAL 12-1 | 12 | 210S | 180E | 4301931200 | 10360 | FEDERAL | OW | S |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/7/2008
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/7/2008
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/16/2008
- a. Is the new operator registered in the State of Utah: YES Business Number: 6853923-0161
- b. If **NO**, the operator was contacted on: _____
- a. (R649-9-2)Waste Management Plan has been received on: Requested
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: _____
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA
- Federal and Indian Units:**
 The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 1/16/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 1/16/2008
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: LPM8720545
- Indian well(s) covered by Bond Number: n/a
- a. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number n/a
- b. The **FORMER** operator has requested a release of liability from their bond on: n/a

COMMENTS:

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

9/5/2012

FROM: (Old Operator):

N3445- Resources Development Technology, LLC
 7175 West Jefferson Ave
 Lakewood, CO 80235

Phone: 1 (303) 716-3200

TO: (New Operator):

N3000- Tidewater Oil & Gas Company, LLC
 110 16th Street, Suite 405
 Denver, CO 80202

Phone: 1 (303) 468-0656

CA No.

Unit:

N/A

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|------------------------|-----|-----|-----|------------|-----------|------------|-----------|-------------|
| Armstrong Federal 12-1 | 12 | 21S | 18E | 4301931200 | 10360 | Federal | OW | S |

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/17/2013
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/22/2013
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/23/2013
- Is the new operator registered in the State of Utah: Business Number: 5788436-0161
- (R649-9-2) Waste Management Plan has been received on: Not Yet
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 1/23/2013
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM Not Yet BIA N/A
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 1/23/2013
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 1/23/2013
- Bond information entered in RBDMS on: 1/23/2013
- Fee/State wells attached to bond in RBDMS on: N/A
- Injection Projects to new operator in RBDMS on: N/A
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: UTB000211
- Indian well(s) covered by Bond Number: N/A
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number N/A
- The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: N/A

COMMENTS:

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

RECEIVED
JAN 22 2013
DIV. OF OIL, GAS & MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

| | | |
|--|--|---|
| 1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | | 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56529 |
| 2. NAME OF OPERATOR: Tidewater Oil & Gas Company LLC N3000 | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA |
| 3. ADDRESS OF OPERATOR: 110 16th St., Suite 405 CITY Denver STATE CO ZIP 80202 | | 7. UNIT or CA AGREEMENT NAME: NA |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 573' FSL & 2140' FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 12 21S 18E 6 | | 8. WELL NAME and NUMBER: Armstrong Federal 12-1 |
| PHONE NUMBER: (303) 468-0656 | | 9. API NUMBER: 4301931200 |
| COUNTY: Grand | | 10. FIELD AND POOL, OR WILDCAT: Wildcat |
| STATE: UTAH | | |

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

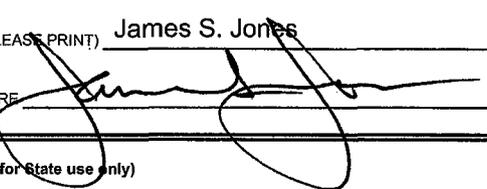
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|--|---|---|--|
| <input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 9/5/2012 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input checked="" type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/5/2012 | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> OTHER: _____ |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective 09-05-12 (Bill of Sale & Assignment Recorded 09-10-12), Resource Development Technology (RDT) transferred all rights, title, interest, and operating rights in the referenced well/lease to Tidewater Oil & Gas Company LLC. At that time Tidewater became the new operator of the well/lease. Tidewater certifies that as of 09-05-12 it is responsible for operations on the well/lease and is authorized by the proper lease interest owners to conduct operations associated with this well/lease.

Previous Operator: Resource Development Technology

Tidewater Oil & Gas Company LLC BLM Bond No.: UTB000211

| | |
|---|----------------|
| NAME (PLEASE PRINT) James S. Jones | TITLE Manager |
| SIGNATURE  | DATE 1/18/2013 |

(This space for State use only)

APPROVED

JAN 23 2013

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

FORM 9

| | | |
|--|---|---|
| SUNDRY NOTICES AND REPORTS ON WELLS | | 5. LEASE DESIGNATION AND SERIAL NUMBER: U-56529 (FEDERAL LEASE) |
| Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals. | | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA |
| | | 7. UNIT or CA AGREEMENT NAME: NA |
| 1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____ | 8. WELL NAME and NUMBER: ARMSTRONG FEDERAL 12-1 | |
| 2. NAME OF OPERATOR: RESOURCE DEVELOPMENT TECHNOLOGY, LLC <i>N3445</i> | | 9. API NUMBER: 4301931200 |
| 3. ADDRESS OF OPERATOR: 7175 W. JEFFERSON AVE LAKWOOD CO 80235 | PHONE NUMBER: (303) 716-3200 | 10. FIELD AND POOL, OR WILDCAT: BLAZE CANYON |
| 4. LOCATION OF WELL FOOTAGES AT SURFACE: 573' FSL & 2140' FEL | | COUNTY: GRAND |
| QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 12 21S 18E | | STATE: UTAH |

| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA | | | |
|---|---|---|--|
| TYPE OF SUBMISSION | TYPE OF ACTION | | |
| <input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____ <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 9/1/2012 | <input type="checkbox"/> ACIDIZE | <input type="checkbox"/> DEEPEN | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
| | <input type="checkbox"/> ALTER CASING | <input type="checkbox"/> FRACTURE TREAT | <input type="checkbox"/> SIDETRACK TO REPAIR WELL |
| | <input type="checkbox"/> CASING REPAIR | <input type="checkbox"/> NEW CONSTRUCTION | <input type="checkbox"/> TEMPORARILY ABANDON |
| | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS | <input checked="" type="checkbox"/> OPERATOR CHANGE | <input type="checkbox"/> TUBING REPAIR |
| | <input type="checkbox"/> CHANGE TUBING | <input type="checkbox"/> PLUG AND ABANDON | <input type="checkbox"/> VENT OR FLARE |
| | <input type="checkbox"/> CHANGE WELL NAME | <input type="checkbox"/> PLUG BACK | <input type="checkbox"/> WATER DISPOSAL |
| | <input type="checkbox"/> CHANGE WELL STATUS | <input type="checkbox"/> PRODUCTION (START/RESUME) | <input type="checkbox"/> WATER SHUT-OFF |
| | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE | <input type="checkbox"/> OTHER: _____ |
| | <input type="checkbox"/> CONVERT WELL TYPE | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RESOURCE DEVELOPMENT TECHNOLOGY, LLC SOLD ITS ENTIRE INTEREST IN THE ARMSTRONG FEDERAL 12-1 TO TIDEWATER OIL & GAS COMPANY, LLC (110 16TH STREET; STE 405; DENVER, CO 80202 -- (303) 468-0656 (Voice) and (303) 534-1022 (Fax)) EFFECTIVE 1SEPT2012.

CONTACT AT TIDEWATER: JAMES JONES (email: JJones@tidewater-oil.co -- Cell Phone: 720-881-7341)

| | |
|---|------------------------------|
| NAME (PLEASE PRINT) GREG TWOMBLY | TITLE MANAGING MEMBER |
| SIGNATURE | DATE 1/16/2013 |

(This space for State use only)

APPROVED

JAN 23 2013

(5/2000)

(See Instructions on Reverse Side)

DIV. OIL GAS & MINING
BY: Rachel Medina

RECEIVED

JAN 17 2013

of Oil, Gas & Mining