CITIES SERVICE COMPANY
ENERGY RESOURCES GROUP

900 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
(303) 861-2464

June 10, 1983

State of Utah
Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, Utah 84114

RE: Cities Service Oil & Gas Corporation
Federal BM-1
SE SW Section 24-T3N-R7E
Summit County, Utah
Federal Lease #U-23463

Dear Sir:

Enclosed please find two copies of U.S.G.S. Form 9-331C, "Application for Permit to Drill, Deepen, or Plug Back", and accompanying survey plats for the above referenced well.

If you have any further needs, please contact this office.

Sincerely,

Richard O. Berg
Operations Manager
Rocky Mountain Region

ROB/SCJ/slw
Enclosures

RECEIVED
JUN 13 1983
DIVISION OF
OIL, GAS & MINING

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-23463

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

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Federal BM

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: ~~North Pineview~~

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 24-T3N-R7E

12. COUNTY OR PARISH: Summit

13. STATE: Utah

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Cities Service Oil & Gas Corporation

3. ADDRESS OF OPERATOR: 1600 Broadway, Suite 900, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1143' FSL & 1637' FWL (SE SW)
At proposed prod. zone: 590' FSL & 1980' FWL (C/SE SW)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 21.5 miles northeast of Coalville, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 590'

16. NO. OF ACRES IN LEASE: 256.50

17. NO. OF ACRES ASSIGNED TO THIS WELL: 80

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

19. PROPOSED DEPTH: 13,800' NUGGET

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 7525' Ungraded

22. APPROX. DATE WORK WILL START*: July 15, 1983

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	106#	640'	± 1010 sxs (100% excess)
17-1/2"	13-3/8"	68# & 72#	6,200'	± 925 sxs (Volume to be calculated from caliper log + 50% excess).
12-1/4"	9-5/8"	43.5#, 47# & 62.8#	11,500'	± 686 sxs (Volume to be calculated from caliper log + 100% excess).
8-1/2"	5-1/2"	17#	13,800'	± 460 sxs (Volume to be calculated from caliper log to cover 500' above any hydrocarbon bearing zone + 25% excess).

1) Drill 17-1/2" hole to 640'. Open hole to 26".
2) Set 20" surface casing, nipple up BOPE and test.
3) Drill 17-1/2" hole to 6,200'.
4) Set 13-3/8" Intermediate "A" casing. Nipple up BOPE and test.
5) Drill 12-1/4" hole to 10,000', convert mud system to salt-gel mud and drill to 11,500'.

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 Richard O. Berg TITLE Operations Manager DATE June 10, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
JUN 13 1983
DIV. OF OIL, GAS & MINING

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 6-14-83
BY: [signature]

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the road to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 20: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

BY
DATE
OIL CONSERVATION COMMISSION
APPROVED

6) Set 9-5/8" Intermediate "B" casing. Nipple up BOPE and test.
7) Drill 8-1/2" hole to 13,800' using fresh water mud.
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9) Logs
   A) Dual Induction Laterolog w/Gamma Ray from total depth to the base of the surface casing.
   B) Borehole Compensated Sonic w/Gamma Ray from total depth to the base of the surface casing.
   C) Compensated Neutron - Formation Density w/Gamma Ray from total depth to top of the Twin Creek.
   D) Four Arm Digital Dipmeter from total depth to top of the Twin Creek.
10) Coring
   A) None planned.
11) Drill Stem Testing
   A) One in the Nugget Formation.
12) Mud Logging
   A) Manned unit from base of surface casing to total depth.

☆ U.S. GOVERNMENT PRINTING OFFICE 1972 782 222/208 REGION NO. 8

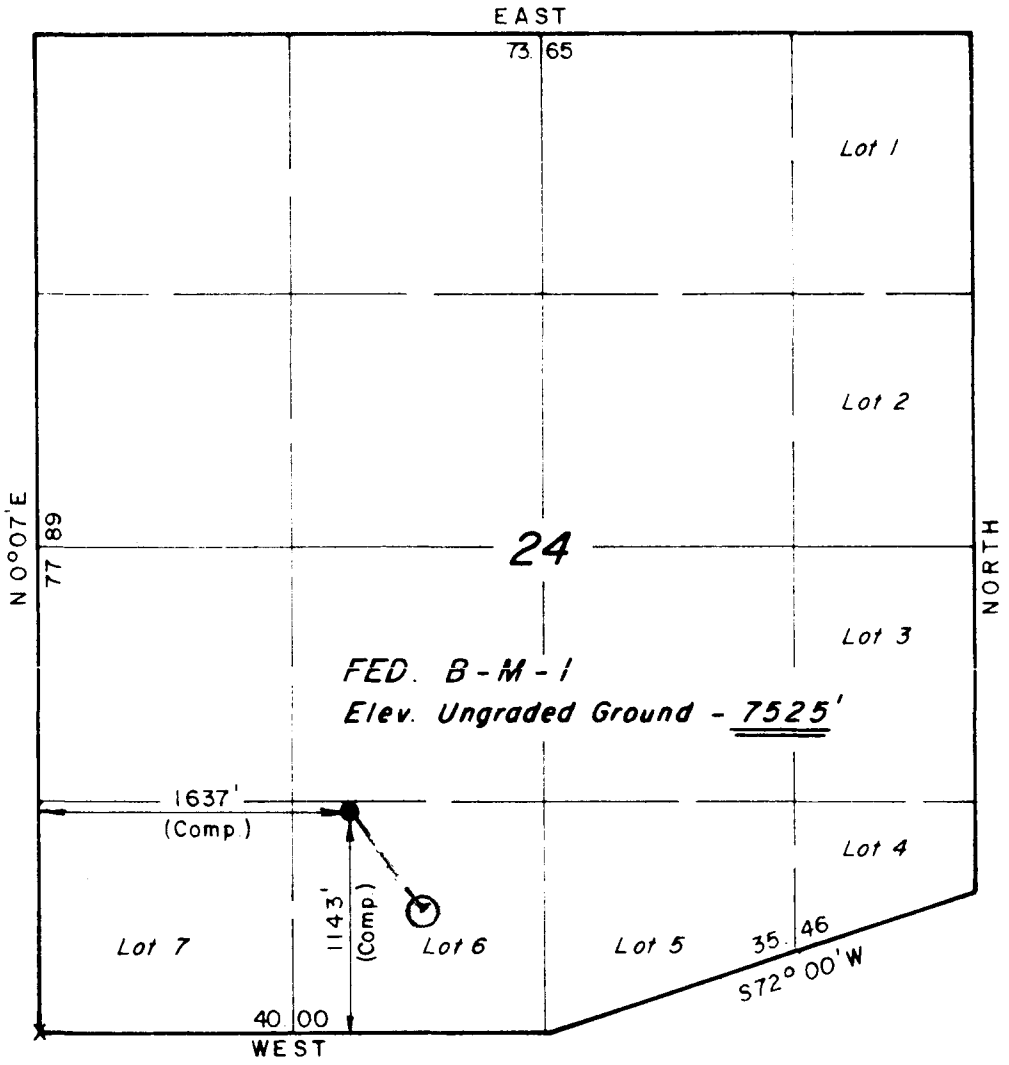
PROJECT

CITIES SERVICE COMPANY

Well location, *FED. B-M-1*, located as shown in the SE 1/4 SW 1/4 Section 24, T3N, R7E, S.L.B. & M. Summit County, Utah.

Note: Basis of Bearings is from Solar Observations of the Sun.

T3N, R7E, S.L.B.&M.



X = Section Corners Located

REGISTERED LAND SURVEYOR
REGISTRATION NO. 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q ~ 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	5/26/83
PARTY	DA RK JK RP	REFERENCES	GLO Plat
WEATHER	FAIR	FILE	CITIES SERVICE

Form 9-331 C
(May 1963)

SUBMIT IN T ICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U-23463

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

7. UNIT AGREEMENT NAME: N/A

8. FARM OR LEASE NAME: Federal BM

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: North Pineview

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Section 24-T3N-R7E

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b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER SINGLE ZONE [X] MULTIPLE ZONE [ ]

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3. ADDRESS OF OPERATOR: 1600 Broadway, Suite 900, Denver, CO 80202

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12. COUNTY OR PARISH: Summit

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 590'

16. NO. OF ACRES IN LEASE: 256.50

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24. SIGNED Richard O Berg TITLE Operations Manager DATE June 10, 1983

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE for E. W. Guynn, Chief, Branch of Fluid Minerals DATE JUL 27 1983

CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

*See Instructions On Reverse Side

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

State O & G

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

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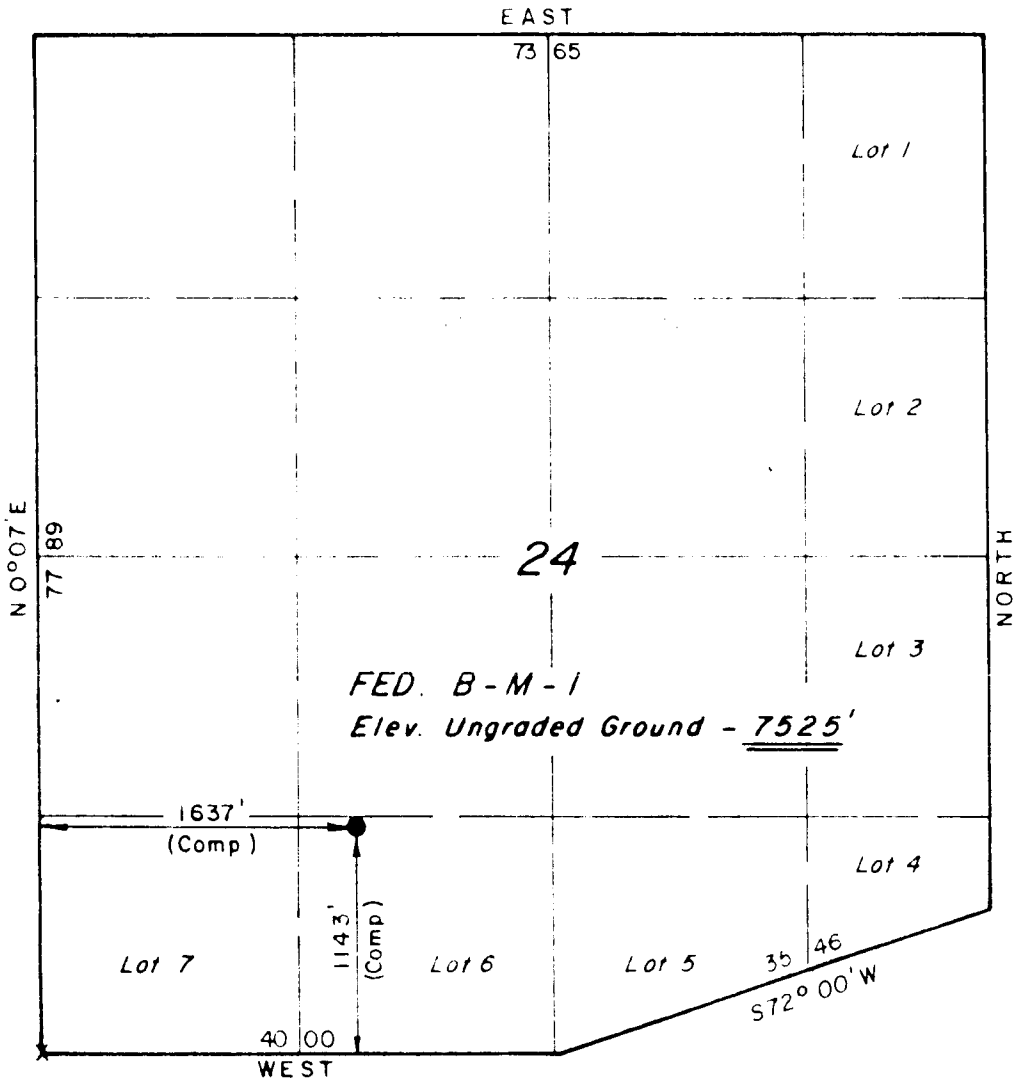
   A) Manned unit from base of surface casing to total depth.

☆ U S GOVERNMENT PRINTING OFFICE 1972 782 222/208 REGION NO 8

PLAT C
SURVEY PLAT

T 3N , R7E , S.L.B.&M.



X = Section Corners Located

CITIES SERVICE COMPANY

Well location, *FED. B-M-1*, located as shown in the SE 1/4 SW 1/4 Section 24, T3N, R7E, S.L.B.&M. Summit County, Utah.

Note Basis of Bearings is from Solar Observations of the Sun

REGISTERED LAND SURVEYOR
REGISTRATION No. 2454

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	5/26/83
PARTY	DA RK JK RP	REFERENCES	GLO Plat
WEATHER	FAIR	FILE	CITIES SERVICE

Cities Service Oil & Gas Corporation
Well No. 1
Section 24, T. 3 N., R. 7 E.
Summit County, Utah
Lease U-23463

Supplemental Stipulations

1) The fill portions of the pit will be keyseated or core trenched with the dike compacted in lifts.

2) Drainage shall be diverted from the upper side of the pad, around the location.

3) All applicable State and County permits must be obtained.

4) The first 12 inches of soil covering the well location should be considered topsoil and stockpiled as per plan. In addition to the seed mixture prescribed by the surface landowner, the BLM Salt Lake District Office recommends, if agreeable with the landowner, that containerized stock of bitterbrush and serviceberry be planted at a rate of about 200 stems per acre.

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

(1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

(2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.

(3) All disturbed areas not required for operations will be rehabilitated.

(4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.

(5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.

(6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.

(7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.

(8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.

(9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.

(10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.

(11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.

(12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

Amerada-Hess Corp

OPERATOR ~~CITIES SERVICE OIL & GAS CORP~~ DATE 6-14-83

WELL NAME FED BM #1

SEC SESW 24 T 3N R 7E COUNTY SUMMIT

43-043-30234	FED
API NUMBER	TYPE OF LEASE

POSTING CHECK OFF:

[ ] INDEX	[ ] MAP	[ ] HL
[ ] NID	[ ]	[ ] PI

PROCESSING COMMENTS:

IRREGULAR SECTION

✓ CHIEF PETROLEUM ENGINEER REVIEW:

6/14/83 Stipulations: 1. water
2 directional drlg
3 BHP + prod limitation (203-1)

APPROVAL LETTER:

SPACING: [ ] A-3 _____ UNIT [X] c-3-a 203-4 Jan 27, 1983 CAUSE NO. & DATE

[ ] c-3-b [ ] c-3-c

SPECIAL LANGUAGE:

1. A copy of the Utah Div. of Water Rights (801-533-6071) approval for use or purchase of drilling water must be submitted to this office prior to spudding, otherwise this approval is void.
2. Operator is required to report results of bottom hole pressure test + production limitations within 30 days. 3. Directional drilling data will be supplied to the Division upon well completion.

- [x] RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.
- [x] AUTHENTICATE LEASE AND OPERATOR INFORMATION
- [x] VERIFY ADEQUATE AND PROPER BONDING
- [x] AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.
- [ ] APPLY SPACING CONSIDERATION
  - [x] ORDER 203-4 8 acre spacing
  - [ ] UNIT _____
  - [ ] c-3-b
  - [ ] c-3-c
- [ ] CHECK DISTANCE TO NEAREST WELL.
- [ ] CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.
- [x] IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER
- [x] IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

June 14, 1983

Cities Service Oil & Gas Corporation
1600 Broadway, Suite 900
Denver, Colorado 80202

RE: Well No. Federal BM #1
SESW Sec. 24, T.3N, R.7E
(Surface) 1143 FSL, 1637 FWL
(BHL) 590 FSL, 1980 FWL
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 203-4 dated January 27, 1983. This approval is contingent upon your acceptance of and concurrence with the following stipulations: (1) A copy of the Utah Division of Water Rights (801-533-6071) approval for use or puchase of drilling water must be submitted to this office prior to spudding, otherwise this approval is void. (2) Submittal of directional drilling data upon completion of drilling operations to properly ascertain the location of the Nugget producing formation. (3) Submittal of bottom hole pressure testing information and compliance with the production volume limitations as outlined in the Order of Cause No. 203-1.

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

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

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-043-30234.

Sincerely,

Norman C. Stout
Administrative Assistant

Utah State Office
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

11 AUG 1983

Cities Service Oil and Gas Corporation
1600 Broadway, Suite 900
Denver, Colorado 80202

Re: Application for Permit to Drill (APD)
Well Federal BM No. 1
SE SW Section 24, T. 3 N., R. 7 E.
Summit County, Utah
Lease U-23463

Gentlemen:

On July 27, 1983 this office approved the referenced application.

On August 1, 1983 this office received a letter from you documenting problems which had arisen concerning the access road and private surface owner after approval of your application.

According to our records lease U-23463 has an expiration date of August 31, 1983.

In order to provide an adequate time frame within which to perfect the access road problem it is necessary that the approval of the referenced application be suspended. The approval of the APD is hereby suspended effective August 1, 1983 for a period not to exceed sixty (60) days. It will be reinstated upon satisfactorily working out the problem concerning the access road.

This office recognizes the Designation of Operator submitted in favor of Amerada Hess Corporation to cover the drilling operations.

Should you have any questions please feel free to contact this office.

Sincerely,

(ORIG. SGD.) W. P. MARTENS

for E. W. Guynn
Chief, Branch of Fluid Minerals

bcc: Well File
Lease File

Salt Lake District BLM
State BLM

Utah State O&G

922:WPMartens:kr:08-11-83:X4590

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: AMERADA HESS

WELL NAME: FEDERAL BM #1

SECTION SESW 24 TOWNSHIP 3N RANGE 7E COUNTY Summit

DRILLING CONTRACTOR Loffland

RIG # 8

SPUDDED: DATE 10-25-83

TIME 2:30 AM

HOW

DRILLING WILL COMMENCE

REPORTED BY Gary Hatley

TELEPHONE # 918-599-4226 (Jody Wilson)

DATE 11-18-83 SIGNED Norm

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [X] gas well [ ] other

2. NAME OF OPERATOR
Amerada Hess Corportation

3. ADDRESS OF OPERATOR Attn:Drilling Services
P.O. Box 2040 Tulsa Oklahoma 74102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1143' FSL 1637' FWL (SE SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: 590' FSL 1980' FWL (C/SE SW

5. LEASE
U-23463

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

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal BM

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
North Pineview

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24, T3N, R7E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7525 Ungraded

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Report of Spudding		

(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.)*
Moved in and rigged up Loffland Rig #8, Spudded 26" hole @ 2:30 a.m. October 25,1983.

RECEIVED
NOV 15 1983
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 J.R. Wilson J.R. Wilson TITLE Supervisor DATE 11-9-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-1123
(Rev. Dec. 1967)

(Submit in triplicate to appropriate Regional Oil and Gas or Mining Supervisor)

DESIGNATION OF OPERATOR

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

DISTRICT LAND OFFICE: 2370 South 2300 West, Salt Lake City, Utah 84119
SERIAL NO.: Utah 23463

and hereby designates

NAME: Amerada Hess Corporation
ADDRESS: Suite 500, 1380 Lawrence Street
Denver, Colorado 80204

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

TOWNSHIP 3 NORTH, RANGE 7 EAST, SLM

Section 24: Lots 6 and 7

Summit County, Utah

RECEIVED
NOV 21 1983
DIVISION OF
OIL, GAS & MINING

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

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

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

CITIES SERVICE OIL AND GAS CORPORATION

R. P. Pasquel
(Signature of lessee)
R. P. Pasquel, Attorney-in-Fact
900 Colorado State Bank Bldg.
1600 Broadway
Denver, Colorado 80202
(Address)

July 29, 1983
(Date)

U.S. GOVERNMENT PRINTING OFFICE : 1978 O - 277-141

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 12/30/83

OIL CO.: Amerada HESS

WELL NAME & NUMBER Fed BM-#1

SECTION

TOWNSHIP

RANGE

COUNTY Summit Utah

DRILLING CONTRACTOR Loffland Bros

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

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

OIL CO. SITE REPRESENTATIVE

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyo

NOTIFIED PRIOR TO TEST: State of Utah

COPIES OF THIS TEST REPORT SENT COPIES TO: State of Utah
Oil Co Site Rep.

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

Amerada Hess Loffland 8

(1) 9:35 outside manuals @ 5000 EXEPT 2nd 4" valve on main line (we are working on valve)

(2) 10:01 inside manuals

(3) 10:46 vertical valve ... still can't get a test on 2nd, 4" manual - Blinds - check valve

(4) 11:09 — Blinds, second manual kill line, H.C.R.

11:25 - 2:30 Put in rig floor - elevators ..... —

2:35 (5) Pipes, inside manuals on choke line + kill

3:00 (6) Pipes ~~ANNULAR~~ — @ 5000 p.s.i. 2nd manual kill line

3:25 (7) ANNULAR - @ 3000 psi

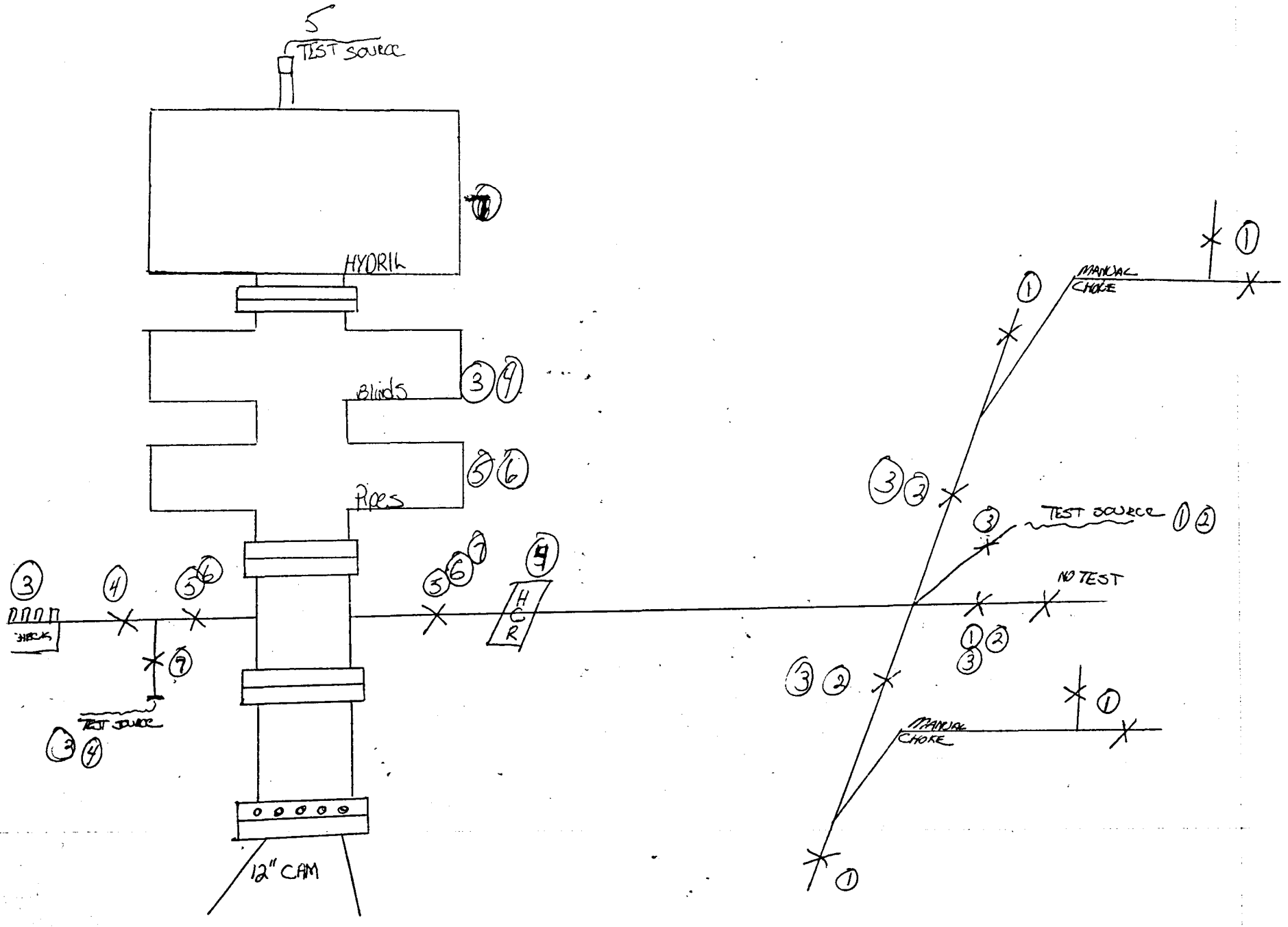
3:55 Rig down - wearbushing set — Rig up kelly

4:00 (8) lower kelly —

4:20 (9) Upper kelly —

4:35 (10) Dart Valve —

Amerada HESS 12/30/83 Lottland



PRINTED IN U.S.A.
DOUBLE D ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
AM
PM
NOON
MIDNIGHT

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
19
MIDNIGHT
NOON
AM
PM

PRINTED IN U.S.A.
6 AM
7
8
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3
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DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
19

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [XX] gas well [ ] other

2. NAME OF OPERATOR
Amerada Hess Corporation

3. ADDRESS OF OPERATOR Attn: Drilling Services
P. O. Box 2040, Tulsa, Oklahoma, 74102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1143' FSL 1637'FWL (SE SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: 590' FSL 1980' FWL (C/SE SW)

5. LEASE
U-23463

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal BM

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
North Pineview

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 24, T3N, R7E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7525 ungraded

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[ ]
(other) Monthly report on well.		

(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.)*

See Attached.

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 J. R. Wilson TITLE Supervisor DATE 1-5-83

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

DOUBLE "D" ENTERPRISES

RECEIVED

B.O.P. Test Report

DIVISION OF
OIL, GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 2-4-84

OIL CO.: AMERADA HESS

WELL NAME & NUMBER FEDERAL BM-1

SECTION 24

TOWNSHIP 3N

RANGE 7E

COUNTY SUMMIT UTAH

DRILLING CONTRACTOR LOFFLAND #8

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

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

OIL CO. SITE REPRESENTATIVE JIM CONNOR

RIG TOOL PUSHER ED HENRY

TESTED OUT OF EVANSTON

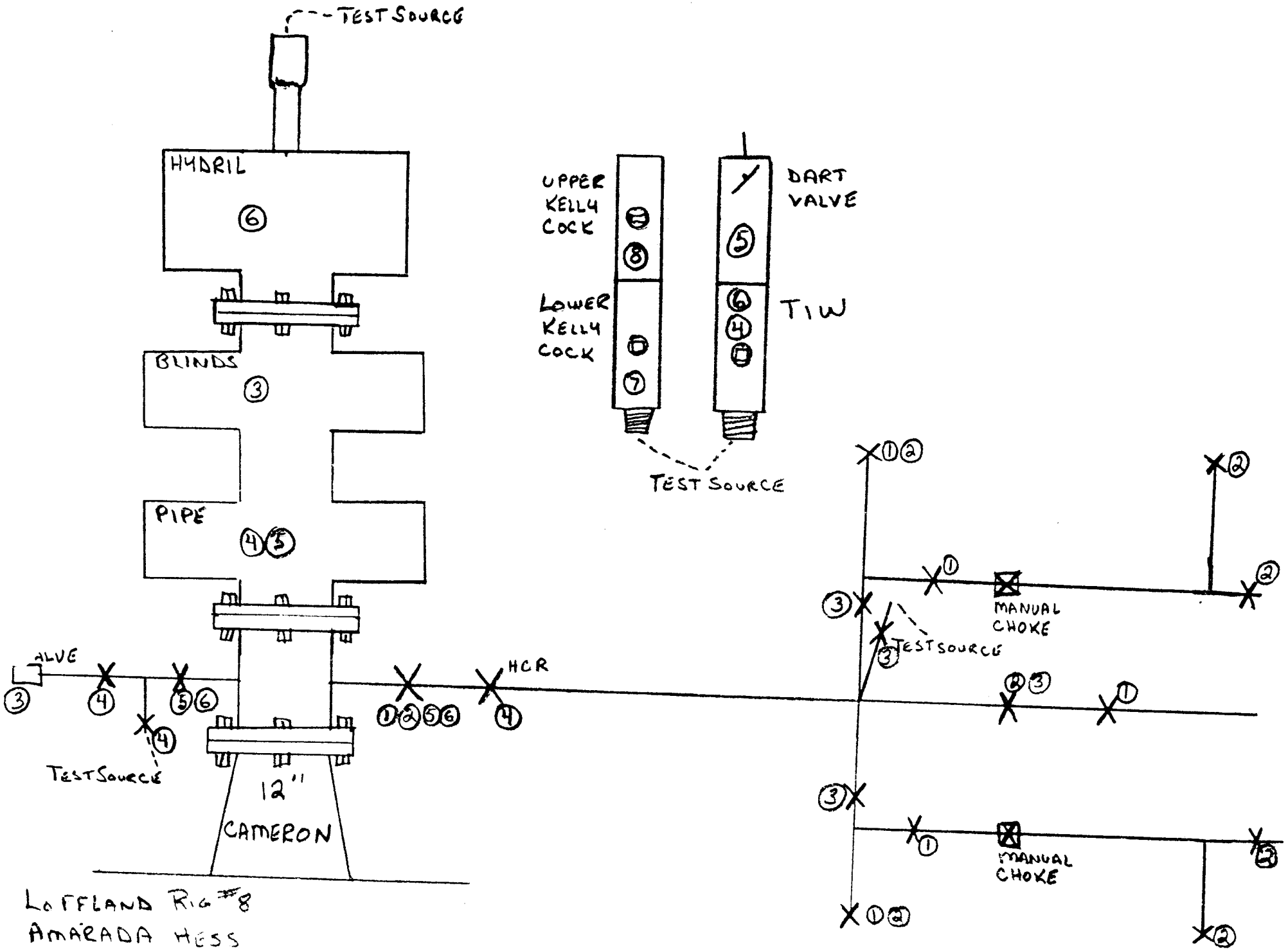
NOTIFIED PRIOR TO TEST: STATE OF UTAH

COPIES OF THIS TEST REPORT SENT COPIES TO: Co. Rep
BLM
STATE OF UTAH

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON, WYO OFFICE

Company	Lease and Well Name #	Date of test	Rig #
AMERADA HESS	FEDERAL BM-1	2-4-84	LOFFLA 8

Test #	Time	
	1:00 - 2:00	LOAD TRUCK + DRIVE TO LOCATION - UNLOAD TOOLS RIG UP TRUCK
#1	2:04 - 2:19	5000 PSI O.K. (SEE DIAGRAM FOR ITEMS TESTED)
#2	2:28 - 2:43	" " " "
	2:43 - 5:00	SET UP TO TEST STACK, JET CELLAR, HOSE DOWN BOPS FINISH T.O.O.H. + MAGNAFLUXING, RETRIEVE WEAR RING SET PLUG, FILL HOLE, CLOSE BLIND RAMS
#3	5:05 - 5:15	5000 PSI - LEAK IN TIE DOWN PACKING, RETIGHTEN PACKING + JAM NUT
RR #3	5:20 - 5:35	" " O.K.
	5:35 - 6:15	RIG UP TO CIRC. SUB, T.I.W., DART VALVE, STAB PLUG, CLOSE HCR, SWITCH VALVES
#4	6:15 - 6:20	5000 - LEAK IN RAM DOOR, HCR LEAKED, RETIGHTEN RAM DOOR
RR #4	6:20 - 6:25	5000 - LEAK IN RAM DOOR, HCR LEAKED.
	6:25 - 6:50	WORK + WASH THRU HCR, RETIGHTEN RAM DOOR
RR #4	6:50 - 7:05	5000 PSI O.K. HCR + RAM DOOR HELD O.K.
	7:05 - 7:15	SWITCH VALVES
#5	7:15 - 7:30	5000 PSI O.K.
	7:30 - 7:35	CLOSE HYDRIL, OPEN PIPES
#6	7:35 - 7:41	2500 PSI NO TEST
	7:41 - 7:47	WORK HYDRIL
RR #6	7:47 - 8:02	2500 PSI O.K.
	8:02 - 8:14	WORK HYDRIL TO PRESSURE UP TO 3000 (CO. REP. INS)
#6	8:14 - 8:25	3000 PSI NO TEST
	8:27 - 8:55	STEAM STACK, CLOSE HYDRIL
#6	8:58 - 9:04	3000 PSI - BLEEDING 10 PSI PER MIN.
	9:04 - 9:28	Pull Plug
	9:28 - 10:30	SET WEAR BUSHING, BREAK DOWN TOOLS, P.U. KELLY + SUBS
#7	10:46 - 11:01	5000 O.K.
#8	11:04 - 11:19	5000 O.K.
	11:19 - 1:00	LOAD OUT TOOLS MAKE TICKET OUT - TIME TO SHOP



LOFFLAND RIG #8
AMARADA HESS
FED BM-1
SUMMIT UTAH

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
PRINTED IN U.S.A.
NOON
6 PM
MIDNIGHT
6 AM
GC GC-1526
Alnmarah
HC53
Feb 8m
Left Rm #3

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
AMARADA
HESS
FED.
BM1
2-4
GC GC-15216
1984
6 PM
7
8
9
10
11
MIDNIGHT
1
2
3
4
5
6 AM
7
8
9
10
11
NOON
1
2
3
4
5

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
MIDNIGHT
NOON
6 AM
6 PM

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 2-20-84

OIL CO.: American Hess

WELL NAME & NUMBER Federal BM-1

SECTION 24

TOWNSHIP 3N

RANGE 7E

COUNTY Summit Utah

DRILLING CONTRACTOR Luff 8

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

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

OIL CO. SITE REPRESENTATIVE Philip

RIG TOOL PUSHER

TESTED OUT OF Evan.

NOTIFIED PRIOR TO TEST: State

COPIES OF THIS TEST REPORT SENT COPIES TO: Co. Rep
BLM
State

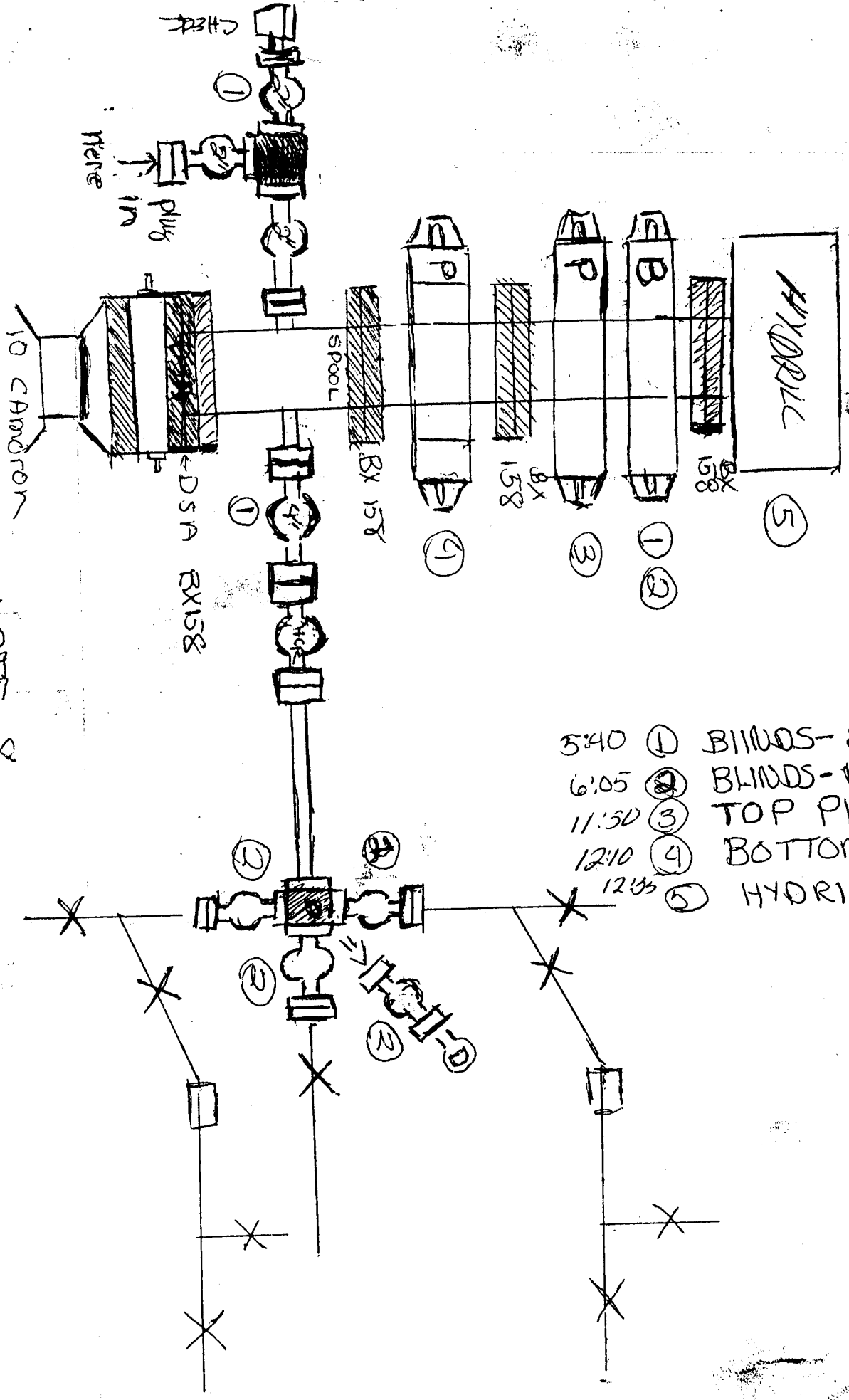
ORIGINAL CHART & TEST REPORT ON FILE AT: Evans. OFFICE

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
MIDNIGHT
6 AM
NOON
6 PM
GC GC-15216

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
19
MIDNIGHT
NOON
6 PM
6 AM
PRINTED IN U.S.A.

Company	Lease and Well Name #	Date of Test	Rig #
American Hess	Tedford 6 m-1	2-20-84	Jeff 8

Test #	Time	
	10:00	VASCE + DAVE LOAD TOOLS - Left at 11:00 - GATE was
		Locked so they got there a little late.
	2:30	STARTED RIGGING down
	6:00	MIKE DANIEM LOADED TRUCK - 6:40 Left to Location
	8:30	Put casing head on + hooked up to
		Test.
	10:00	STARTED STACKING BOPS DRILLER DROPPED
		DSA + SCREWED UP THREADS on BOTTOM
		OF DSA The STUDS were to long also
		had to cut four of THEM The STUDS
		COST RIG an HOUR and a half
	11:30	STARTED STACKING REST OF STACK
	5:00	had STACK TIGHT & Rams Changed
		hooked up Koomey lines.
	~~6:05~~ 5:40	Blinds - 2ND Kill - 4" manual
	6:05	Blinds - 1ST manifold.
	6:30-11:50	Took Rig. 5 hrs to put floor in, some
		of the time they were waiting on welder
		to rebuild flow nipple so THERE ROTARY Beams
		would fit.
	11:50	Top Pipes
	12:10	Bottom Pipes
	12:35	HYDRILL
	12:55	Pulled Plug + TRY TO SET wear bushing
		TIE Down BOLTS are SIZED up can't
		move THEM HARDLY USED a 6' CHEATER.
		HAD TO push bushing threw hydrill.
		Set wear bushing without Tie Down BOLTS
		Let Company man know.
	3:00	Rolled TOOLS up + made out tickets.
	4:00	GOT TO Shop.
	5:00	left shop after cleaning TOOLS & UNIT.
		NOTE TO TESTER on BACK


CHECK
Here
plug
in
TO CAMERON
DSA BX158
SPOOL
BX 158
BX 158
BX 158
HYDRILL
5:40 ① BLINDS- 2ND KILL-4"
6:05 ② BLINDS- 1ST manofold
11:50 ③ TOP PIPES
12:10 ④ BOTTOM PIPES
12:35 ⑤ HYDRILL

DFT-X
2-20-2

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 3-22-84

OIL CO.: AMERADA HESS

WELL NAME & NUMBER FEDERAL BM-1

SECTION 24

TOWNSHIP 3N

RANGE 7E

COUNTY SUMMIT, UTAH

DRILLING CONTRACTOR LOFFLAND #8

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
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Shoshoni, Wyoming 82649
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712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Phil TROGDEN

RIG TOOL PUSHER ED HENRY

TESTED OUT OF EVANSTON

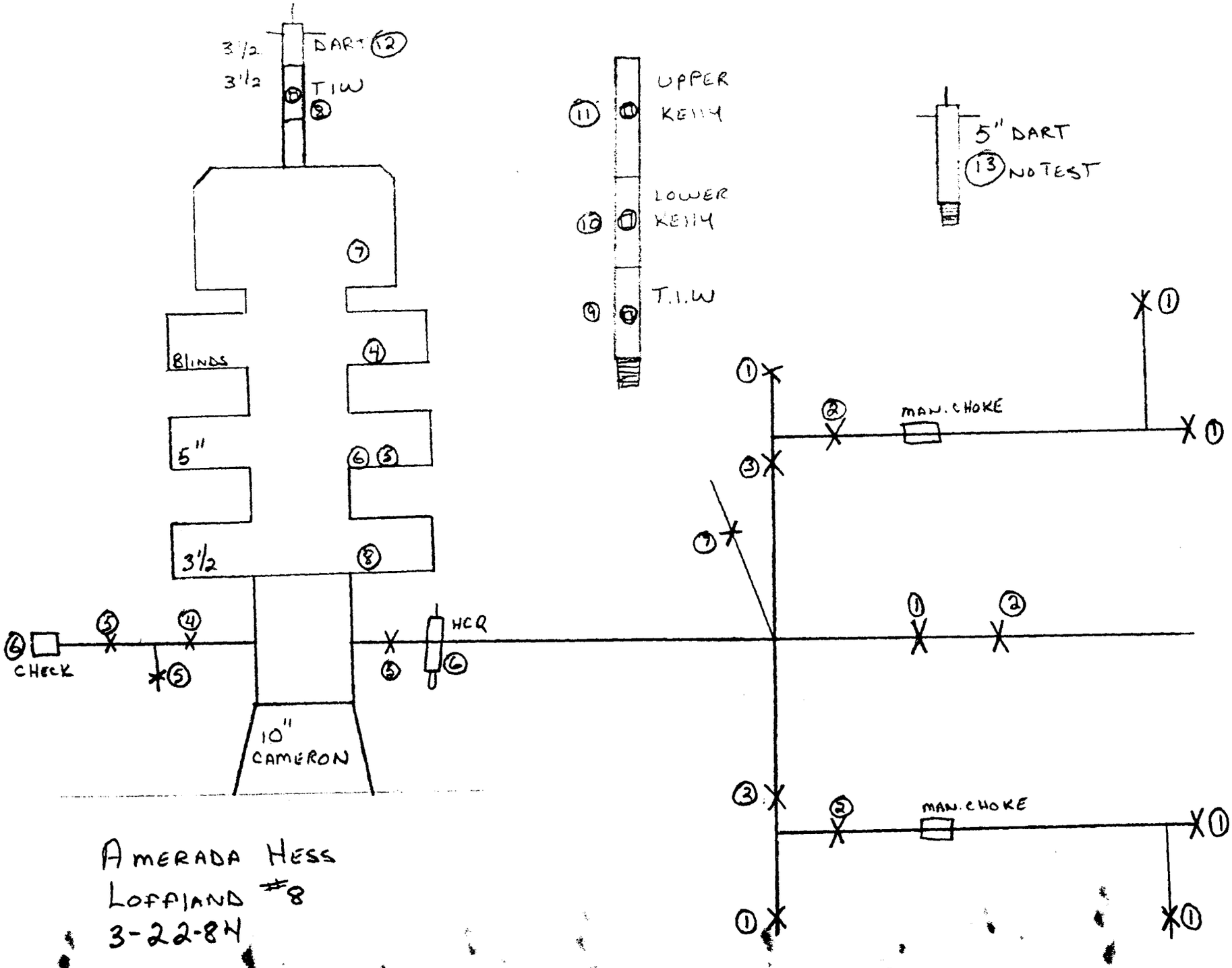
NOTIFIED PRIOR TO TEST: —

COPIES OF THIS TEST REPORT SENT COPIES TO: SITE REP
BLM
STATE

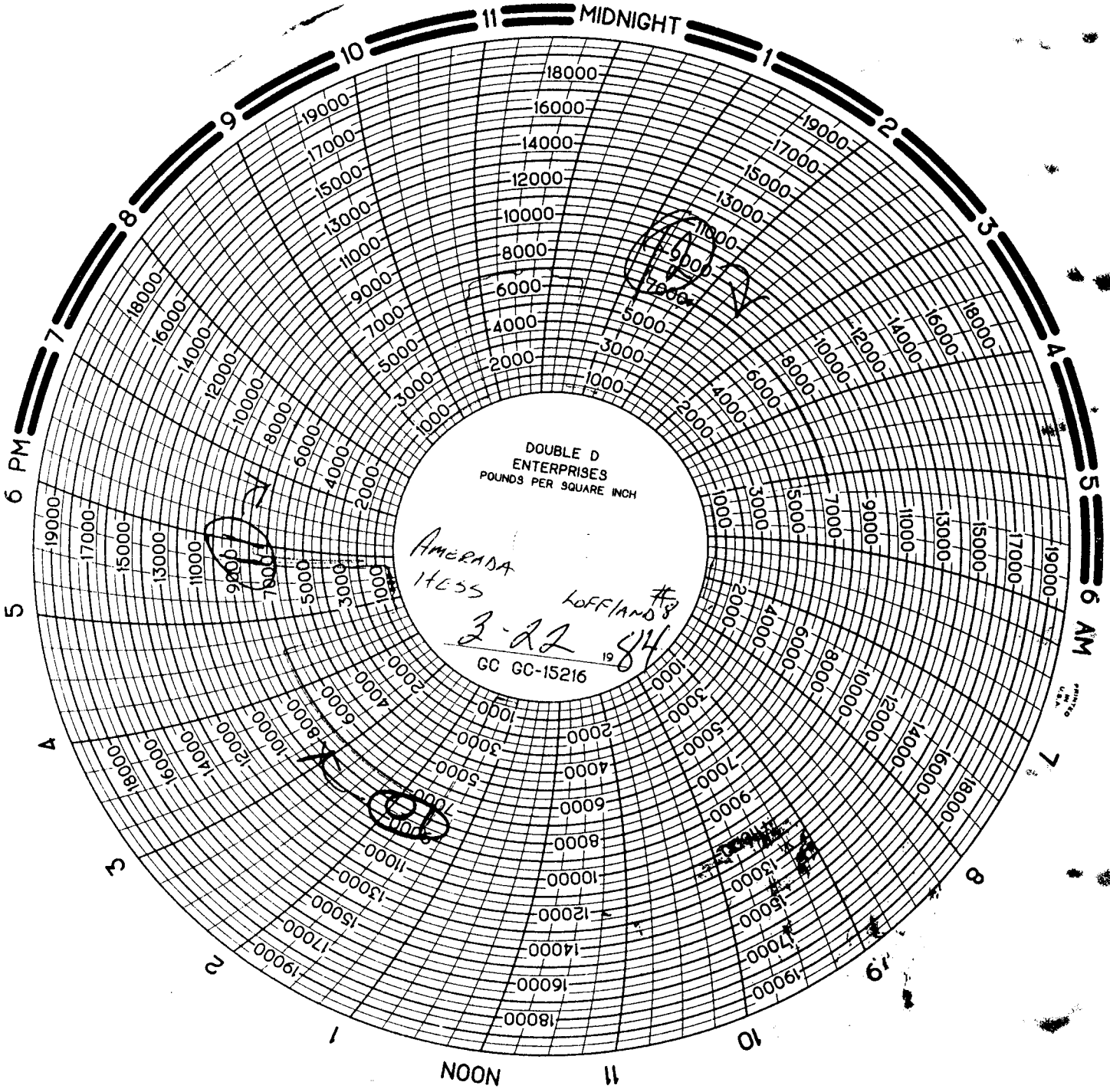
ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE

Company	Lease and Well Name #	Date of test	Rig #
AMERADA HESS	FEDERAL BM 1	3-22-84	LOFFLAND 8

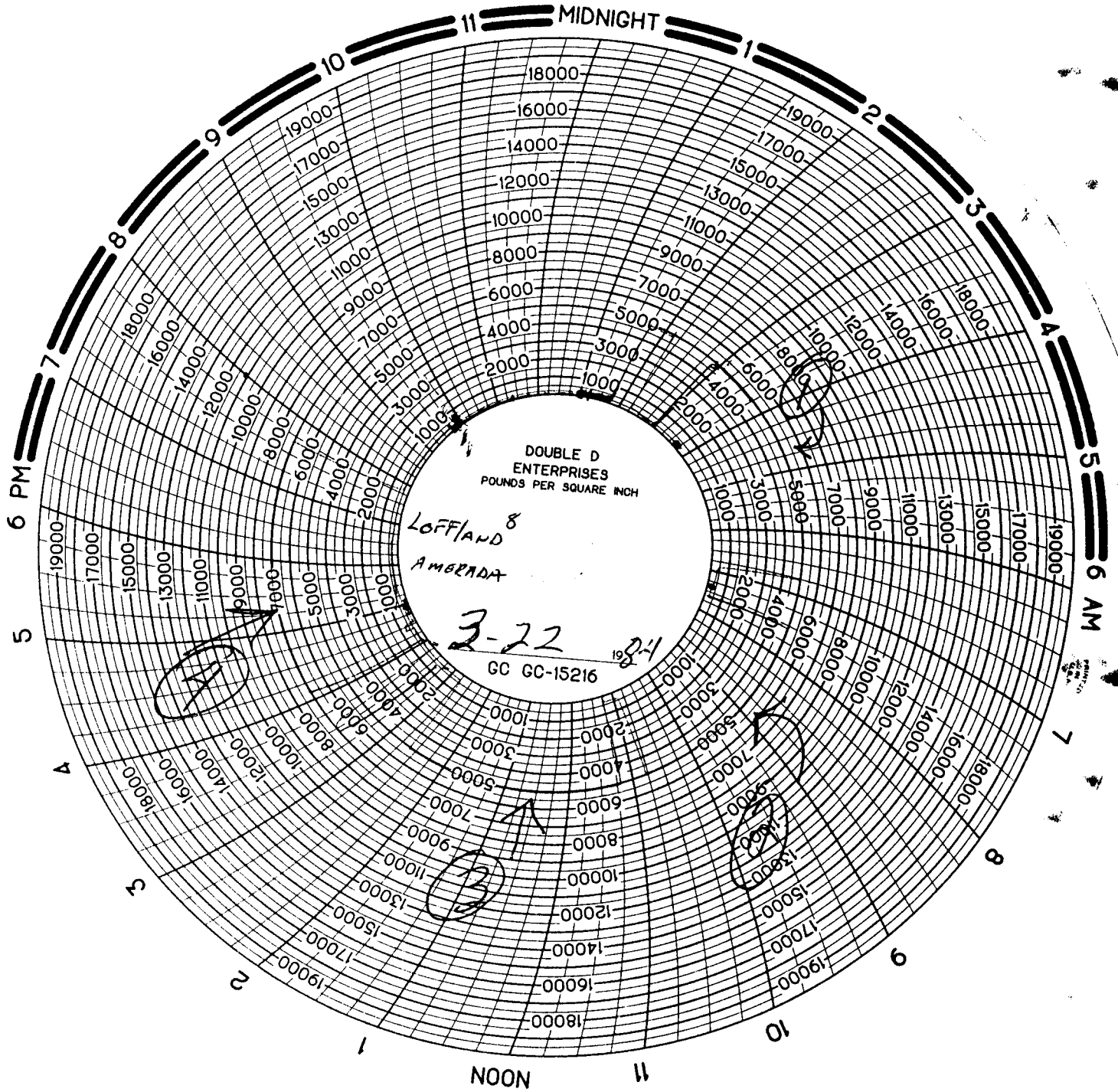
Test #	Time	
	3:00 - 5:00	LOAD TRUCK + TRAVEL TO RIG
	5:00 - 5:30	RIG T.O.O.H. - RUN HOSES TO TEST choke - UNLOAD TOOLS
1	5:30 - 5:45	5000 O.K.
2	5:50 - 6:10	5000 O.K.
3	6:15 - 6:30	5000 O.K.
	6:30 - 7:00	RIG T.O.O.H.
	7:00	P.U. JT. 5" - Pull WEAR RING - HOSE OUT STACK - SET PLUG
		FILL STACK - TIEDOWN LEAKING - 0 PSI - REPACK ALL
	8:30	TIEDOWNS
4	8:30 - 8:35	7000 - TIE DOWN LEAKING
	8:35 - 8:37	TIGHTEN PACKING
RR 4	8:37 - 8:52	7000 O.K.
	8:52 - 9:20	MAKE UP SUBS - STAB PLUG - RUN HOSES TO FLOOR
	9:20 - 9:36	REPLACE HOSE ENDS
5	9:36 - 9:51	7000 O.K.
6	9:55 - 10:10	7000 O.K.
7	10:20 - 10:35	3000 O.K.
	10:35 - 11:10	LAYDOWN 5" - P.U. 3½ chg SUBS STAB PLUG
8	11:10 - 11:25	7000 O.K. — SHUT CSG VALVE AFTER TESTS
	11:25	Pull PLUG - SET WEAR BUSHING. BREAK DOWN
	12:00	SUBS LAYDOWN 3½ - P.U. KELLY - MAKE UP T.I.W.
9	12:00 - 12:15	7000 O.K.
10	12:25 - 12:40	7000 O.K.
11	12:50 - 1:05	7000 O.K.
	1:05	BREAK DOWN TOOLS + LOAD OUT - SET KELLY BACK
	120	MAKE UP DARTS + TEST ON CATWALK
12	120 - 135	7000 - LOST 1000 PSI - WORKED VALVE HELD O.K. 2ND TIME
13	140 - 155	7000 - NO TEST 4½ INSIDE B.O.P.
	155 -	SPOOL UP - MAKE OUT TICKET - TRAVEL HOME



AMERADA HESS
LOFFLAND #8
3-22-8N


MIDNIGHT
NOON
6 PM
6 AM
DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
AMERADA
HESS
LOFFLAND #8
3-22 1984
GC GC-15216

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
GC GC-15216
ANGRADA
HESS
LOFFLAND #3
FEDBM-1
3-22
1984
MIDNIGHT
NOON
6 AM
6 PM


MIDNIGHT
NOON
6 AM
6 PM
DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
LOFFLAND 8
AMBRADA
3-22 1984
GC GC-15216

FLOPETROL JOHNSTON
Schlumberger

WELL PERFORMANCE TEST REPORT

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

Test Date
4-4-84

Report No.:
37758 E

COMPANY
AMERADA HESS CORP.

WELL
FEDERAL BM #1

TEST IDENTIFICATION

Test Type	OPEN HOLE DST
Test Number	2
Formation	NUGGET
Test Interval	13393 - 13436 FT.
Reference Depth	KELLY BUSHING

WELL LOCATION

Field	NORTH PINEVIEW
County	SUMMIT
State	UTAH
Sec / Twn / Rng	NOT GIVEN
Elevation	754[illegible] FT.

HOLE CONDITIONS

Total Depth (MVD/TVD)	13436 FT.
Hole Size / Deviation Angle	6 1/2 IN./STRAIGHT
Csg / Liner ID	N/A
Perf'd Interval	N/A
Shot Density / Phasing	N/A
Gun Type / Perf Cond	N/A

MUD PROPERTIES

Mud Type	LSND
Mud Weight	8.9 LB/GAL
Mud Resistivity	NOT GIVEN
Filtrate Resistivity	NOT GIVEN
Filtrate Chlorides	18000 CL PPM
Filtrate Nitrates	NOT GIVEN

INITIAL TEST CONDITIONS

Gas Cushion Type	NONE
Surface Pressure	N/A
Liquid Cushion Type	NONE
Height Above DST Valve	N/A

TEST STRING CONFIGURATION

Pipe Length / ID	12682 FT./4.29 IN.
Collar Length / ID	661 FT./1.875 IN.
Packer Depth(s)	13386 -13393 FT.
BH Choke Size	15/16 IN.

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties
11.9 BBL	WATER	TOP: 18500 PPM CL
		BTM: 29500 PPM CL.

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
.26 SCF	GAS	
2080 CC	WATER	.2 OHM -M @ 50°F
		29K PPM CL.
Pressure: 1100 PSIG	GOR: --	GLR: 22.97

INTERPRETATION RESULTS

Reservoir Pressure @Gauge Depth:	N/A
Gauge Depth	13399 FT.
Hydrostatic Gradient	N/A
Potentiometric Surface	N/A
Effective Permeability to _____	N/A
Transmissibility	N/A
Skin Factor / Damage Ratio	N/A
Omega / Lambda (2Φ System)	N/A
Radius of Investigation	N/A
Measured Wellbore Storage	N/A

ROCK / FLUID / WELLBORE PROPERTIES

Reservoir Temperature	230°F.
Analysis Fluid Type	N/A
Formation Volume Factor	N/A
Viscosity	N/A
Z-Factor (gas only)	N/A
Net Pay	N/A
Porosity	N/A
Total System Compressibility	N/A
Wellbore Radius	.27 FT.
Expected Wellbore Storage	N/A

FLOW RATE DURING DST

101.62 BLPD avg. rate from TELEFLOW

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

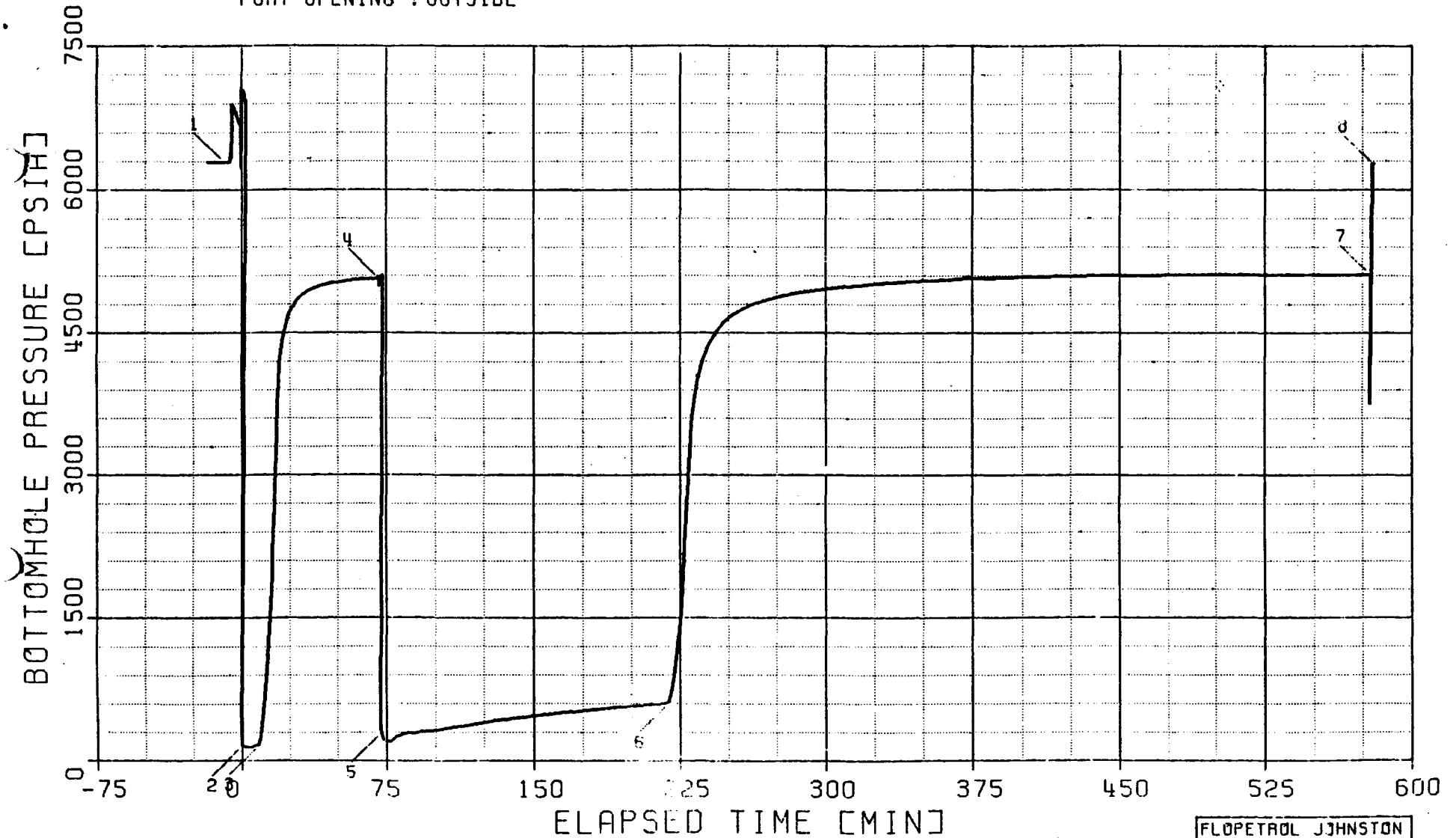
This rate is based on a specific completion design & producing time. Call FJS for details

FJS-5 B14059

BØTTØMHØLE PRESSURE LØG

FIELD REPØRT NØ. 37758E
INSTRUMENT NØ. J-1863
DEPTH : 13399 FT
CAPACITY : 9000 PSI
PØRT ØPENING : ØUTSIDE

COMPANY : AMERADA HESS CORP.
WELL : FDEDERAL BM #1



FLOPETROL JOHNSTON
SCHLUMBERGER

JOHNSTON-MACCO
Schlumberger

DST EVENT SUMMARY

Field Report # 37758 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION		SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
4-4-84	0355	—	SET PACKER	1		C
	0646	—	OPENED TEST TOOL FOR INITIAL FLOW	2		L
						O
			"SEE TELEFLOW DATA INFORMATION SHEET"			S
						E
						D
	0655	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN	3		
						C
						H
						A
	0758		FINISHED SHUT-IN	4		M
	0758	—	OPENED TEST TOOL FOR FINAL FLOW	5		B
						E
						R
						T
						E
						L
						E
						F
						L
						O
	1028	—	CLOSED TEST TOOL FOR FINAL SHUT-IN	6		W
						"
						"
						"
	1625	—	FINISHED FINAL SHUT-IN	7		"
	1630	—	UNSEATED PACKER	8		—
		—	REVERSED OUT			
		—	BEGAN TRIP OUT OF HOLE			

```
****************************
* WELL TEST DATA PRINTOUT *
****************************
```

FIELD REPORT # : 37758E

COMPANY : AMERADA HESS CORP.
WELL : FDEDERAL BM #1

INSTRUMENT # : J-1863
CAPACITY [PSI] : 9000.
DEPTH [FT] : 13399.0
PORT OPENING : OUTSIDE
TEMPERATURE [DEG F] : 230.0

LABEL POINT INFORMATION

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	6:37: 7	4-AP	HYDROSTATIC MUD	-8.88	6286
2	6:46: 0	4-AP	START FLOW	0.00	153
3	6:54:41	4-AP	END FLOW & START SHUT-IN	8.69	166
4	7:57: 5	4-AP	END SHUT-IN	71.09	5069
5	7:58:13	4-AP	START FLOW	72.22	290
6	10:25: 8	4-AP	END FLOW & START SHUT-IN	219.14	604
7	16:25: 0	4-AP	END SHUT-IN	579.00	5107
8	16:26:13	4-AP	HYDROSTATIC MUD	580.22	6269

SUMMARY OF FLOW PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	8.69	8.69	153	166
2	72.22	219.14	146.92	290	604

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	8.69	71.09	62.40	166	5069	166	8.69
2	219.14	579.00	359.86	604	5107	604	155.61

TEST PHASE : FLOW PERIOD # 1

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
6:46: 0	4-AP	0.00	0.00	153
6:51: 0	4-AP	5.00	5.00	145
6:54:41	4-AP	8.69	8.69	166

TEST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 166
PRODUCING TIME [MIN] = 8.69

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
6:54:41	4-AP	8.69	0.00	166	0	
6:55:41	4-AP	9.69	1.00	281	116	0.986
6:56:41	4-AP	10.69	2.00	430	264	0.728
6:57:41	4-AP	11.69	3.00	620	455	0.591
6:58:41	4-AP	12.69	4.00	841	675	0.501
6:59:41	4-AP	13.69	5.00	1134	968	0.437
7: 0:41	4-AP	14.69	6.00	1510	1344	0.389
7: 1:41	4-AP	15.69	7.00	2033	1867	0.351
7: 2:41	4-AP	16.69	8.00	2654	2488	0.319
7: 3:41	4-AP	17.69	9.00	3335	3169	0.293
7: 4:41	4-AP	18.69	10.00	3873	3707	0.272
7: 6:41	4-AP	20.69	12.00	4352	4186	0.237
7: 8:41	4-AP	22.69	14.00	4571	4406	0.210
7:10:41	4-AP	24.69	16.00	4699	4533	0.188
7:12:41	4-AP	26.69	18.00	4780	4614	0.171
7:14:41	4-AP	28.69	20.00	4841	4675	0.157
7:16:41	4-AP	30.69	22.00	4883	4717	0.145
7:18:41	4-AP	32.69	24.00	4914	4748	0.134
7:20:41	4-AP	34.69	26.00	4940	4774	0.125
7:22:41	4-AP	36.69	28.00	4961	4795	0.117
7:24:41	4-AP	38.69	30.00	4977	4812	0.110
7:29:41	4-AP	43.69	35.00	5008	4842	0.096
7:34:41	4-AP	48.69	40.00	5027	4861	0.085
7:39:41	4-AP	53.69	45.00	5040	4874	0.077
7:44:41	4-AP	58.69	50.00	5052	4886	0.070
7:49:41	4-AP	63.69	55.00	5061	4896	0.064
7:54:41	4-AP	68.69	60.00	5066	4901	0.059
7:57: 5	4-AP	71.09	62.40	5069	4903	0.057

EST PHASE : FLOW PERIOD # 2

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
********	*****	********	********	*********
7:58:13	4-AP	72.22	0.00	290
8: 3:13	4-AP	77.22	5.00	206
8: 8:13	4-AP	82.22	10.00	271
8:13:13	4-AP	87.22	15.00	295
8:18:13	4-AP	92.22	20.00	302
8:23:13	4-AP	97.22	25.00	315
8:28:13	4-AP	102.22	30.00	328
8:33:13	4-AP	107.22	35.00	343
8:38:13	4-AP	112.22	40.00	358
8:43:13	4-AP	117.22	45.00	372
8:48:13	4-AP	122.22	50.00	389
8:53:13	4-AP	127.22	55.00	403
8:58:13	4-AP	132.22	60.00	420
9: 3:13	4-AP	137.22	65.00	433
9: 8:13	4-AP	142.22	70.00	446
9:13:13	4-AP	147.22	75.00	458
9:18:13	4-AP	152.22	80.00	469
9:23:13	4-AP	157.22	85.00	480
9:28:13	4-AP	162.22	90.00	493
9:33:13	4-AP	167.22	95.00	504
9:38:13	4-AP	172.22	100.00	515
9:43:13	4-AP	177.22	105.00	525
9:48:13	4-AP	182.22	110.00	535
9:53:13	4-AP	187.22	115.00	545
9:58:13	4-AP	192.22	120.00	556
10: 3:13	4-AP	197.22	125.00	565
10: 8:13	4-AP	202.22	130.00	573
10:13:13	4-AP	207.22	135.00	582
10:18:13	4-AP	212.22	140.00	591
10:23:13	4-AP	217.22	145.00	600
10:25: 8	4-AP	219.14	146.92	604

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 604
PRODUCING TIME [MIN] = 155.61

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
********	*****	********	********	*********	*********	******
10:25: 8	4-AP	219.14	0.00	604	0	
10:26: 8	4-AP	220.14	1.00	687	83	2.195
10:27: 8	4-AP	221.14	2.00	794	190	1.897
10:28: 8	4-AP	222.14	3.00	919	315	1.723
10:29: 8	4-AP	223.14	4.00	1077	473	1.601
10:30: 8	4-AP	224.14	5.00	1271	667	1.507
10:31: 8	4-AP	225.14	6.00	1525	921	1.430

TEST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 604
PRODUCING TIME [MIN] = 155.61

TIME OF DAY HH:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
10:32: 8	4-AP	226.14	7.00	1836	1232	1.366
10:33: 8	4-AP	227.14	8.00	2189	1585	1.311
10:34: 8	4-AP	228.14	9.00	2603	1999	1.262
10:35: 8	4-AP	229.14	10.00	3014	2410	1.219
10:37: 8	4-AP	231.14	12.00	3603	2999	1.145
10:39: 8	4-AP	233.14	14.00	3913	3309	1.083
10:41: 8	4-AP	235.14	16.00	4109	3505	1.030
10:43: 8	4-AP	237.14	18.00	4249	3645	0.984
10:45: 8	4-AP	239.14	20.00	4348	3744	0.944
10:47: 8	4-AP	241.14	22.00	4427	3823	0.907
10:49: 8	4-AP	243.14	24.00	4503	3899	0.874
10:51: 8	4-AP	245.14	26.00	4549	3945	0.844
10:53: 8	4-AP	247.14	28.00	4597	3993	0.817
10:55: 8	4-AP	249.14	30.00	4633	4029	0.791
11: 0: 8	4-AP	254.14	35.00	4709	4105	0.736
11: 5: 8	4-AP	259.14	40.00	4765	4161	0.689
11:10: 8	4-AP	264.14	45.00	4809	4205	0.649
11:15: 8	4-AP	269.14	50.00	4842	4238	0.614
11:20: 8	4-AP	274.14	55.00	4869	4265	0.583
11:25: 8	4-AP	279.14	60.00	4894	4290	0.556
11:30: 8	4-AP	284.14	65.00	4915	4311	0.531
11:35: 8	4-AP	289.14	70.00	4931	4327	0.508
11:40: 8	4-AP	294.14	75.00	4946	4343	0.488
11:45: 8	4-AP	299.14	80.00	4961	4357	0.469
11:50: 8	4-AP	304.14	85.00	4973	4369	0.452
11:55: 8	4-AP	309.14	90.00	4984	4380	0.436
12: 0: 8	4-AP	314.14	95.00	4993	4389	0.421
12: 5: 8	4-AP	319.14	100.00	5002	4398	0.408
12:10: 8	4-AP	324.14	105.00	5011	4407	0.395
12:15: 8	4-AP	329.14	110.00	5019	4415	0.383
12:20: 8	4-AP	334.14	115.00	5026	4423	0.372
12:25: 8	4-AP	339.14	120.00	5032	4428	0.361
12:30: 8	4-AP	344.14	125.00	5038	4434	0.351
12:35: 8	4-AP	349.14	130.00	5043	4439	0.342
12:40: 8	4-AP	354.14	135.00	5048	4445	0.333
12:45: 8	4-AP	359.14	140.00	5054	4450	0.325
12:50: 8	4-AP	364.14	145.00	5059	4455	0.317
12:55: 8	4-AP	369.14	150.00	5063	4460	0.309
13: 0: 8	4-AP	374.14	155.00	5067	4464	0.302
13: 5: 8	4-AP	379.14	160.00	5071	4467	0.295
13:10: 8	4-AP	384.14	165.00	5074	4470	0.288
13:15: 8	4-AP	389.14	170.00	5077	4473	0.282
13:20: 8	4-AP	394.14	175.00	5080	4476	0.276
13:25: 8	4-AP	399.14	180.00	5082	4478	0.271
13:30: 8	4-AP	404.14	185.00	5084	4481	0.265
13:35: 8	4-AP	409.14	190.00	5087	4484	0.260
13:40: 8	4-AP	414.14	195.00	5089	4485	0.255
13:45: 8	4-AP	419.14	200.00	5090	4486	0.250

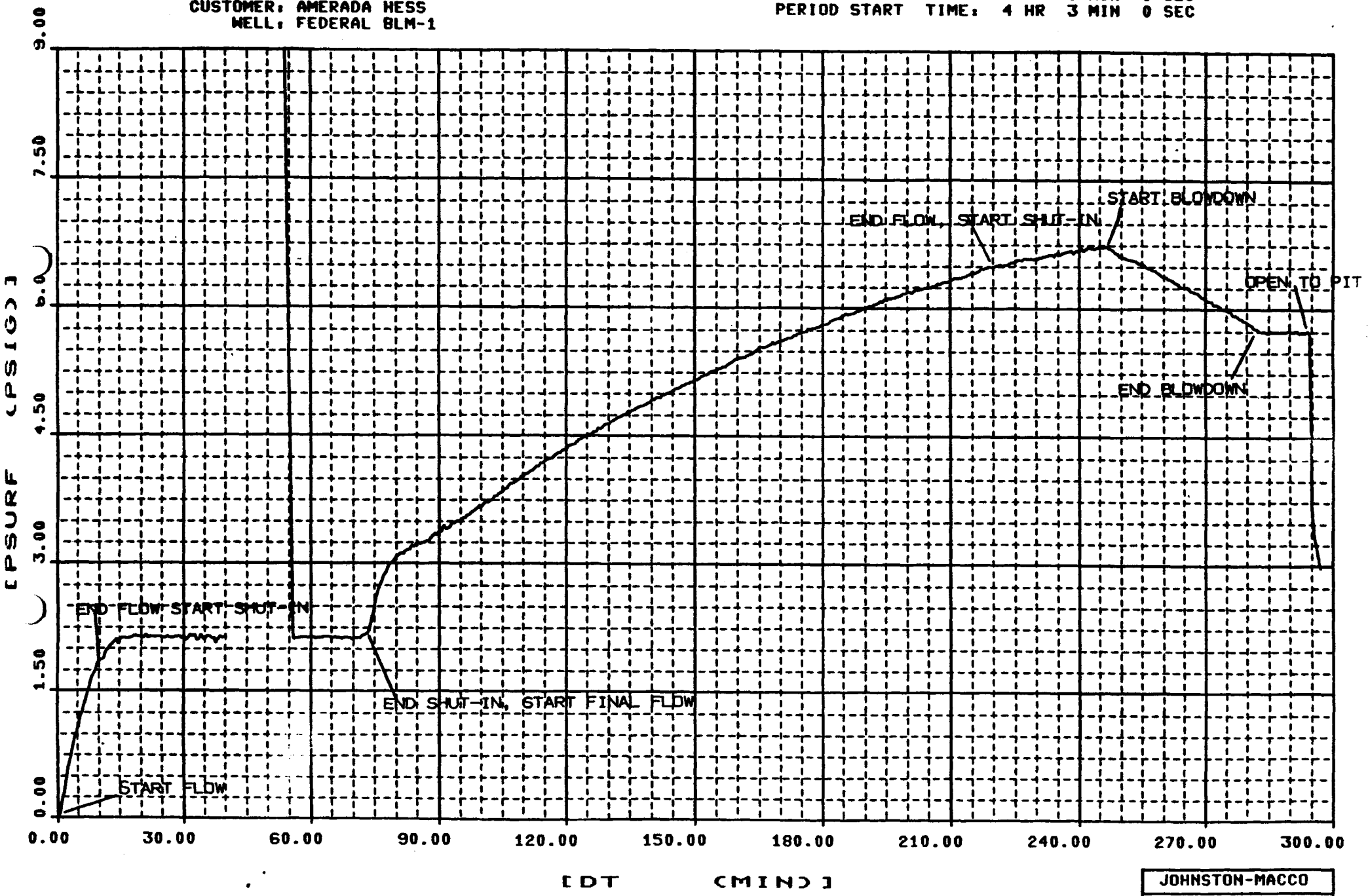
EST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 604
PRODUCING TIME [MIN] = 155.61

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BDT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
3:50: 8	4-AP	424.14	205.00	5092	4488	0.245
3:55: 8	4-AP	429.14	210.00	5094	4490	0.241
4: 0: 8	4-AP	434.14	215.00	5097	4493	0.236
4: 5: 8	4-AP	439.14	220.00	5099	4495	0.232
4:10: 8	4-AP	444.14	225.00	5100	4496	0.228
4:15: 8	4-AP	449.14	230.00	5101	4497	0.224
4:20: 8	4-AP	454.14	235.00	5101	4497	0.221
4:25: 8	4-AP	459.14	240.00	5101	4497	0.217
4:30: 8	4-AP	464.14	245.00	5102	4498	0.214
4:35: 8	4-AP	469.14	250.00	5104	4500	0.210
4:40: 8	4-AP	474.14	255.00	5105	4501	0.207
4:45: 8	4-AP	479.14	260.00	5106	4502	0.204
4:50: 8	4-AP	484.14	265.00	5106	4502	0.201
4:55: 8	4-AP	489.14	270.00	5106	4502	0.198
5: 0: 8	4-AP	494.14	275.00	5106	4502	0.195
5: 5: 8	4-AP	499.14	280.00	5106	4502	0.192
5:10: 8	4-AP	504.14	285.00	5106	4502	0.189
5:15: 8	4-AP	509.14	290.00	5106	4502	0.187
5:20: 8	4-AP	514.14	295.00	5106	4502	0.184
5:25: 8	4-AP	519.14	300.00	5106	4502	0.181
5:30: 8	4-AP	524.14	305.00	5106	4502	0.179
5:35: 8	4-AP	529.14	310.00	5106	4502	0.177
5:40: 8	4-AP	534.14	315.00	5106	4502	0.174
5:45: 8	4-AP	539.14	320.00	5106	4502	0.172
5:50: 8	4-AP	544.14	325.00	5106	4502	0.170
5:55: 8	4-AP	549.14	330.00	5106	4502	0.168
6: 0: 8	4-AP	554.14	335.00	5106	4502	0.166
6: 5: 8	4-AP	559.14	340.00	5106	4502	0.164
6:10: 8	4-AP	564.14	345.00	5106	4502	0.162
6:15: 8	4-AP	569.14	350.00	5106	4502	0.160
6:20: 8	4-AP	574.14	355.00	5106	4503	0.158
6:25: 0	4-AP	579.00	359.86	5107	4503	0.156

TELEFLOW DATA - SURFACE PRESSURE LOG

FIELD REPORT NO 37757E
INSTRUMENT NO
CUSTOMER: AMERADA HESS
WELL: FEDERAL BLM-1

PLOT START TIME: 4 HR 3 MIN 0 SEC
PLOT STOP TIME: 9 HR 0 MIN 0 SEC
PERIOD START TIME: 4 HR 3 MIN 0 SEC



JOHNSTON-MACCO
SCHLUMBERGER

JOHNSTON-MACCO
Schlumberger

TELEFLOW DATA SUMMARY

(Closed Chamber Monitoring)

Field Report # 37758 E

INITIAL **FLOW PERIOD** PCS START ET (HR:MIN:SEC) 4:03 PCS END ET (HR:MIN:SEC) 4:12

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS SAT. H_2O FLOW RATE BBLS/DAY	DESCRIPTION
6:46	4:03	0.0	0.02	--	OPENED TEST TOOL
6:47	4:04	1.0	0.21	548	
6:48	4:05	2.0	0.47	745	
6:49	4:06	3.0	0.72	676	
6:50	4:07	4.0	0.93	593	
6:51	4:08	5.0	1.10	466	
6:52	4:09	6.0	1.26	464	
6:53	4:10	7.0	1.46	542	
6:54	4:11	8.0	1.63	473	
6:55	4:12	9.0	1.74	296	AVG. FLOWRATE = 534.4 BBLS/D

INITIAL **SHUT-IN PERIOD** PCS START ET (HR:MIN:SEC) 4:12 PCS END ET (HR:MIN:SEC) 5:15

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS BREAKOUT RATE (MSCF/D)	DESCRIPTION
6:55	4:12	0.0	1.74	--	CLOSED TEST TOOL
7:05	4:22	10.0	2.14	12	
7:15	4:32	20.0	2.15	0	
7:25	4:42	30.0	2.13	-13	
7:40	4:57	45.0	--	--	
7:45	5:02	50.0	2.13	--	
7:55	5:12	60.0	2.13	-3	
7:58	5:15	63.0	2.16	18	

BLOWDOWN RESULTS LIQUID RECOVERY _____ BBL AVERAGE GLR _____ SCF/BBL

JOHNSTON-MACCO
Schlumberger

TELEFLOW DATA SUMMARY

(Closed Chamber Monitoring)

Field Report # 37758 E

FINAL **FLOW PERIOD** PCS START ET (HR:MIN:SEC) 5:15 PCS END ET (HR:MIN:SEC) 7:45

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS SAT. H2O FLOW RATE BBLS/DAY	DESCRIPTION
7:58	5:15	0.0	2.16	--	OPENED TEST TOOL
8:08	5:25	10.0	3.15	156	
8:18	5:35	20.0	3.42	79	
8:28	5:45	30.0	3.75	89	
8:38	5:55	40.0	4.10	80	
8:48	6:05	50.0	4.41	79	
8:58	6:15	60.0	4.71	83	
9:08	6:25	70.0	4.95	56	
9:18	6:35	80.0	5.21	62	
9:28	6:45	90.0	5.44	66	
9:38	6:55	100.0	5.66	46	
9:48	7:05	110.0	5.85	52	
9:58	7:15	120.0	6.05	52	
10:08	7:25	130.0	6.22	49	
10:18	7:35	140.0	6.35	31	
10:28	7:45	150.0	6.49	14	AVG. FLOWRATE = 75.65 BBLS/D

FINAL **SHUT-IN PERIOD** PCS START ET (HR:MIN:SEC) 7:45 PCS END ET (HR:MIN:SEC)

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS BREAKOUT RATE (MSCF/D)	DESCRIPTION
10:28	7:45	0.0	6.49	--	CLOSED TEST TOOL
10:43	8:00	15.0	6.67	15.0	
10:52	8:09	24.0	6.73	3.0	BEGIN BLOWDOWN
11:29	8:46	61.0	5.74	--	END BLOWDOWN
11:40	8:57	72.0	5.76	28.0	OPEN TO PIT

BLOWDOWN RESULTS LIQUID RECOVERY BBL AVERAGE GLR SCF/BBL

CALCULATED INSTANTANEOUS FLOW RATES — TELEFLOW DATA

FLOW PERIOD: SURFACE VALVE CLOSED — INITIAL FLOW PERIOD

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
4 3 0	0.00	0.02	0.00	0.
	CUM VOLUME			0.000
4 4 0	1.00	0.21	0.19	548.
	CUM VOLUME			0.381
4 5 0	2.00	0.47	0.26	745.
	CUM VOLUME			0.898
4 6 0	3.00	0.72	0.24	676.
	CUM VOLUME			1.37
4 7 0	4.00	0.93	0.21	593.
	CUM VOLUME			1.78
4 8 0	5.00	1.10	0.17	466.
	CUM VOLUME			2.10
4 9 0	6.00	1.26	0.17	464.
	CUM VOLUME			2.43
4 10 0	7.00	1.46	0.20	542.
	CUM VOLUME			2.80
4 11 0	8.00	1.63	0.17	473.
	CUM VOLUME			3.13
4 12 0	9.00	1.74	0.11	296.
	CUM VOLUME			3.34

LIQ CUSHION CALCULATED STANTANEOUS FLOW RATES
SHUTIN PERIOD: SURFACE VALVE CLOSED

ELEFLOW DATA
INITIAL SHUT-IN PERIOD

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
4 12 0	0.00	1.74	0.00	0.
		CUM VOLUME		0.000
4 17 0	5.00	2.11	0.07	135.
		CUM VOLUME		0.468
4 22 0	10.00	2.14	0.01	12.
		CUM VOLUME		0.510
4 27 0	15.00	2.14	0.00	2.
		CUM VOLUME		0.517
4 32 0	20.00	2.15	0.00	0.
		CUM VOLUME		0.518
4 37 0	25.00	2.16	0.00	6.
		CUM VOLUME		0.538
4 42 0	30.00	2.13	-0.01	-13.
		CUM VOLUME		0.538
4 56 55	44.92	11.45	0.63	473.
		CUM VOLUME		5.44
5 2 0	50.00	2.13	-1.83	-3381.
		CUM VOLUME		5.44
5 7 0	55.00	2.13	0.00	2.
		CUM VOLUME		5.45
5 12 0	60.00	2.13	-0.00	-3.
		CUM VOLUME		5.45
5 15 0	63.00	2.16	0.01	18.
		CUM VOLUME		5.48

CALCULATED INSTANTANEOUS FLOW RATES
FLOW PERIOD: SURFACE VALVE CLOSED

TELEFLOW DATA
FINAL FLOW PERIOD

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
5 15 0	0.00	2.16	0.00	0.
	CUM VOLUME			0.000
5 20 0	5.00	2.86	0.14	382.
	CUM VOLUME			1.33
5 25 0	10.00	3.15	0.06	156.
	CUM VOLUME			1.87
5 30 0	15.00	3.27	0.02	62.
	CUM VOLUME			2.09
5 35 0	20.00	3.42	0.03	79.
	CUM VOLUME			2.36
5 40 0	25.00	3.58	0.03	86.
	CUM VOLUME			2.66
5 45 0	30.00	3.75	0.03	89.
	CUM VOLUME			2.96
5 50 0	35.00	3.95	0.04	105.
	CUM VOLUME			3.33
5 55 0	40.00	4.10	0.03	80.
	CUM VOLUME			3.61
6 0 0	45.00	4.26	0.03	86.
	CUM VOLUME			3.91
6 5 0	50.00	4.41	0.03	79.
	CUM VOLUME			4.18
6 10 0	55.00	4.55	0.03	74.
	CUM VOLUME			4.44
6 15 0	60.00	4.71	0.03	83.
	CUM VOLUME			4.72
6 20 0	65.00	4.84	0.03	68.
	CUM VOLUME			4.96
6 25 0	70.00	4.95	0.02	56.
	CUM VOLUME			5.16
6 30 0	75.00	5.09	0.03	70.
	CUM VOLUME			5.40
6 35 0	80.00	5.21	0.02	62.
	CUM VOLUME			5.61

CALCULATED INSTANTANEOUS FLOW RATES
FLOW PERIOD SURFACE VALVE CLOSED

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
6 40 0	85.00	5.32	0.02	55.
	CUM VOLUME			5.81
6 45 0	90.00	5.44	0.03	66.
	CUM VOLUME			6.03
6 50 0	95.00	5.57	0.02	62.
	CUM VOLUME			6.25
6 55 0	100.00	5.66	0.02	46.
	CUM VOLUME			6.41
7 0 0	105.00	5.75	0.02	49.
	CUM VOLUME			6.58
7 5 0	110.00	5.85	0.02	52.
	CUM VOLUME			6.76
7 10 0	115.00	5.94	0.02	45.
	CUM VOLUME			6.92
7 15 0	120.00	6.05	0.02	52.
	CUM VOLUME			7.10
7 20 0	125.00	6.12	0.02	39.
	CUM VOLUME			7.24
7 25 0	130.00	6.22	0.02	49.
	CUM VOLUME			7.41
7 30 0	135.00	6.29	0.01	35.
	CUM VOLUME			7.53
7 35 0	140.00	6.35	0.01	31.
	CUM VOLUME			7.64
7 40 0	145.00	6.46	0.02	55.
	CUM VOLUME			7.83
7 45 0	150.00	6.49	0.01	14.
	CUM VOLUME			7.88

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES TELEFLOW DATA

SHUTIN PERIOD: SURFACE VALVE CLOSED FINAL SHUT-IN PERIOD (1 OF 3)

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
7 45 0	0.00	6.49	0.00	0.
	CUM VOLUME			0.000
7 50 0	5.00	6.59	0.02	28.
	CUM VOLUME			0.986E-01
7 55 0	10.00	6.62	0.01	8.
	CUM VOLUME			0.127
8 0 0	15.00	6.67	0.01	15.
	CUM VOLUME			0.180
8 5 0	20.00	6.72	0.01	15.
	CUM VOLUME			0.232
8 9 0	24.00	6.73	0.00	3.
	CUM VOLUME			0.241

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES WELLFLOW DATA
SHUTIN PERIOD: POS DISPLACEMENT METER FINAL SHUT-IN PERIOD (2 OF 3)

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	CUM DELT PS
8 9 0	0.00	6.73	0.00	0.
8 14 0	5.00	6.59	-0.03	-0.
8 19 0	10.00	6.49	-0.02	-0.
8 24 0	15.00	6.35	-0.03	-0.
8 29 0	20.00	6.23	-0.02	-0.
8 34 0	25.00	6.09	-0.03	-1.
8 39 0	30.00	5.97	-0.02	-1.
8 44 0	35.00	5.81	-0.03	-1.
8 46 0	37.00	5.74	-0.04	-1.

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES TELEFLOW DATA
SHUTIN PERIOD: SURFACE VALVE CLOSED FINAL SHUT-IN PERIOD (3 OF 3)

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
8 46 0	0.00	5.74	0.00	0.
	CUM VOLUME			0.000
8 48 0	2.00	5.72	-0.01	-13.
	CUM VOLUME			0.000
8 50 0	4.00	5.74	0.01	11.
	CUM VOLUME			0.158E-01
8 52 0	6.00	5.74	0.00	1.
	CUM VOLUME			0.178E-01
8 54 0	8.00	5.75	0.01	8.
	CUM VOLUME			0.289E-01
8 56 0	10.00	5.74	-0.01	-11.
	CUM VOLUME			0.289E-01
8 57 0	11.00	5.76	0.02	28.
	CUM VOLUME			0.486E-01

FLOPETROL JOHNSTON SERVICES

WELL PERFORMANCE TESTS (WPT)*

- **Drillstem**
- **Production**
- **Drawdown**
- **Injectivity**
- **Buildup**
- **Falloff**
- **Reservoir Limits**
- **Deliverability**
- **Multi-rate**
- **Interference**
- **Pulse**
- **Pumping Well Buildup**

*All WPT's include:

1. Test planning and simulation to design a TEST PROCEDURE which will ACHIEVE YOUR TEST OBJECTIVES.
2. State-of-the-art TEST EQUIPMENT for SAFE, RELIABLE tests.
3. EXPERIENCED test ENGINEERS knowledgeable in well test interpretation practices and YOUR SPECIFIC TEST OBJECTIVES.
4. MODEL VERIFIED INTERPRETATION of the test data.
5. NODAL™ ANALYSIS of the WELL TEST DATA to predict the combined RESERVOIR/COMPLETION system PERFORMANCE.

WELL TEST EQUIPMENT

Pressure Measurement

DPTT™ (Downhole Pressure/Temperature Transmitter). An electronic, surface readout recorder which transmits data to surface via wireline.

J-300 An electronic, battery-powered bottomhole pressure/temperature recorder for use on DST's only.

SSDP™ (Solid State Downhole Processor). An electronic, battery-powered bottomhole pressure/temperature recorder for use on production tests (slickline runnable).

J-200 A mechanical bottomhole pressure recorder for use on DST's only.

Test Monitoring Systems

SPRO™ (Surface Pressure Readout). Real Time display and analysis of bottomhole pressure/temperature data for use on any type of test.

TELEFLOW™ Real Time display and analysis of surface pressure data for use on Closed Chamber DST's and Pumping Well Buildup tests.

DRILLSTEM TEST EQUIPMENT

MFE (Multi-Flow Evaluator) An open or cased hole DST valve operated by up and down pipe movement (sleeve).

PCT (Pressure-Controlled Tester) A cased hole DST valve operated by annulus pressure (sleeve or full bore).

E-Z TREE™ A subsea test tree used on offshore, floating rig DST's (full bore).

RETAINER VALVE A valve run on the drillstring just above the E-Z TREE that prevents dumping of hydrocarbons in the event a subsea disconnect becomes necessary (full bore).

LUBRICATOR VALVE A valve run on the drillstring 60 to 90 feet below the rotary table to eliminate the need for a surface lubricator during wireline operations.

SURFACE PRODUCTION HANDLING EQUIPMENT

PORTABLE SEPARATORS Skid-mounted (offshore) and trailer-mounted (onshore) single stage, 3-phase, 1440 psig working pressure separators capable of handling up to 60MMscf/d gas and 10,000 bbl/d liquid.

PORTABLE HEATERS Skid-mounted (offshore) and trailer-mounted (onshore) indirect fixed units with capacities up to 4.3MM BTU/hr and 15,000 psig working pressure.

PORTABLE BURNERS Pollution-free burning of multi-phase flow streams at rates up to 5000 bbl/d per burner head. Gas flare stacks also available.

SUBSURFACE CONTROL EQUIPMENT

RP Tubing Packoff Assemblies
Boll Weevil Tubing Stops
Flow Couplings
Chemical Injection Valves
Landing Nipples
Equidapter Equalizing Subs
Subsurface Safety Valves (SSSV's)

DRILLING AND FISHING EQUIPMENT

Earthquaker Jars-mechanical drilling jars
Shock Guard-drilling shock absorbers
N_2 Jar Booster-gas-operated jar boosters
DC (Drilling & Coring) Jars-hydraulic jars
TR (Time Regulated) Jars-hydraulic jars
FB (Full Bore) Jars-hydraulic jars
Bumper Subs

GAS LIFT EQUIPMENT

Gas Lift Valves & Mandrels
Retrievable Valve Latches
Dummy Valves
Reverse Flow Check Valves
Screened Orifice Valves
Adjustable Orifice Control Valves
GLAD™ (Gas Lift Analysis & Design) Computerized Design

FLOPETROL JOHNSTON
Schlumberger

WELL PERFORMANCE TEST REPORT

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

Test Date
4-7-84

Report No.:
37760 E

COMPANY
AMERADA HESS CORP.

WELL
FEDERAL BM #1

TEST IDENTIFICATION

Test Type	OPEN HOLE DST
Test Number	3
Formation	NUGGET
Test Interval	13643 - 13679 FT.
Reference Depth	KELLY BUSHING

WELL LOCATION

Field	PINEVIEW
County	SUMMIT
State	UTAH
Sec / Twn / Rng	24, R7E
Elevation	7546 FT.

HOLE CONDITIONS

Total Depth (MVD/TVD)	13679 FT.
Hole Size / Deviation Angle	6 1/2 IN.
Csg / Liner ID	N/A
Perf'd Interval	N/A
Shot Density / Phasing	N/A
Gun Type / Perf Cond	N/A

MUD PROPERTIES

Mud Type	LSND
Mud Weight	8.9 LB/GAL
Mud Resistivity	NOT GIVEN
Filtrate Resistivity	NOT GIVEN
Filtrate Chlorides	NOT GIVEN
Filtrate Nitrates	NOT GIVEN

INITIAL TEST CONDITIONS

Gas Cushion Type	NONE
Surface Pressure	N/A
Liquid Cushion Type	WATER
Height Above DST Valve	1700 FT.

TEST STRING CONFIGURATION

Pipe Length / ID	12897 FT./2.5 IN.
Collar Length / ID	689 FT./1.875 IN.
Packer Depth(s)	13636 - 13643 FT.
BH Choke Size	15/16 IN.

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
Pressure:	GOR:	GLR:

INTERPRETATION RESULTS

Reservoir Pressure @Gauge Depth:	N/A
Gauge Depth	13650 FT.
Hydrostatic Gradient	N/A
Potentiometric Surface	N/A
Effective Permeability to _____	N/A
Transmissibility	N/A
Skin Factor / Damage Ratio	N/A
Omega / Lambda (2ϕ System)	N/A
Radius of Investigation	N/A
Measured Wellbore Storage	N/A

ROCK / FLUID / WELLBORE PROPERTIES

Reservoir Temperature	230°F.
Analysis Fluid Type	N/A
Formation Volume Factor	N/A
Viscosity	N/A
Z-Factor (gas only)	N/A
Net Pay	35 FT.
Porosity	NOT GIVEN
Total System Compressibility	N/A
Wellbore Radius	.27 FT.
Expected Wellbore Storage	N/A

FLOW RATE DURING DST

UNSUCCESSFUL TEST; PACKER SEAT FAILURE

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

JS-5 B14059

JOHNSTON-MACCO
Schlumberger

DST EVENT SUMMARY

Field Report # 37760 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
4-7-84		—	SET PACKER 1		
		—	OPENED TEST TOOL FOR INITIAL FLOW 2		
			"UNSUCCESSFUL TEST" PACKER SEAT FAILURE.		
			PULLED LOOSE 3		
		—	CLOSED TEST TOOL FOR INITIAL SHUT-IN		
		—	OPENED TEST TOOL FOR FINAL FLOW		
		—	CLOSED TEST TOOL FOR FINAL SHUT-IN		
		—	FINISHED FINAL SHUT-IN 4		
		—	UNSEATED PACKER		
		—	REVERSED OUT		
		—	BEGAN TRIP OUT OF HOLE		

BOTTOM HOLE PRESSURE AND TIME DATA

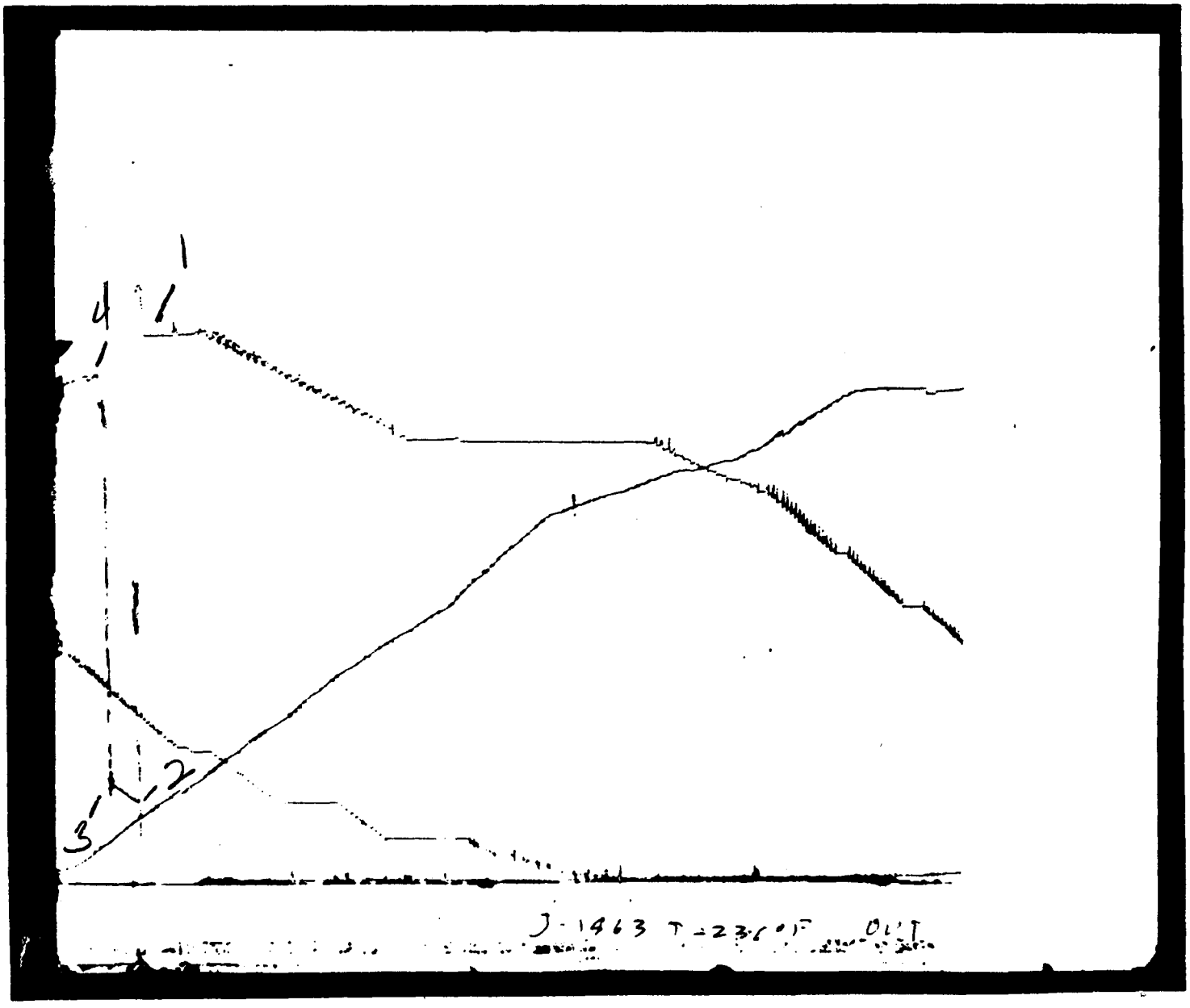
JS-193-A

JOHNSTON-MACCO
Schlumberger

INSTRUMENT NUMBER	CAPACITY (P.S.I.)	DEPTH
J-1863	9000 P.S.I.	13650'
PORT OPENING	**BOTTOM HOLE TEMPERATURE**	**FIELD REPORT NUMBER**
OUTSIDE	230°F.	37760 E

DESCRIPTION	LABELED POINTS	PRESSURE (P.S.I.)	GIVEN TIME	COMPUTED TIME
INITIAL HYDROSTATIC MUD	1	6336		
INITIAL FLOW (1)	2	958		
INITIAL FLOW (2)				
INITIAL SHUT-IN				
SECOND FLOW (1)				
SECOND FLOW (2)				
SECOND SHUT-IN				
FINAL FLOW (1)				
FINAL FLOW (2)				
FINAL SHUT-IN				
FINAL HYDROSTATIC MUD	4	5863		
REMARKS: PULLED LOOSE	3	1165		

UNSUCCESSFUL TEST: PACKER SEAT FAILURE



FLOPETROL JOHNSTON
Schlumberger

WELL PERFORMANCE TEST REPORT

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

Test Date
4-10-84

Report No.:
37757 E

COMPANY
AMERADA HESS CORP.

WELL
FEDERAL BM #1

TEST IDENTIFICATION

Test Type	OPEN HOLE DST
Test Number	4
Formation	NUGGET
Test Interval	13624 - 13679 FT.
Reference Depth	KELLY BUSHING

WELL LOCATION

Field	PINEVIEW
County	SUMMIT
State	UTAH
Sec / Twn / Rng	24 TEN R7E
Elevation	7546 FT.

HOLE CONDITIONS

Total Depth (MVD/TVD)	13679 FT.
Hole Size / Deviation Angle	6 1.2 IN./STRAIGHT
Csg / Liner ID	N/A
Perf'd Interval	N/A
Shot Density / Phasing	N/A
Gun Type / Perf Cond	N/A

MUD PROPERTIES

Mud Type	LSND
Mud Weight	8.9 LB/GAL
Mud Resistivity	.38 OHMS @ 60°F.
Filtrate Resistivity	
Filtrate Chlorides	
Filtrate Nitrates	NOT GIVEN

INITIAL TEST CONDITIONS

Gas Cushion Type	NONE
Surface Pressure	N/A
Liquid Cushion Type	WATER
Height Above DST Valve	1000 FT.

TEST STRING CONFIGURATION

Pipe Length / ID	12878 FT./2.5 IN.
Collar Length / ID	689 FT./1.875 IN.
Packer Depth(s)	13617 - 13624 FT.
BH Choke Size	15/16 IN.

NET PIPE RECOVERY

Volume	Fluid Type	Physical Properties
14.57 BBL	WATER	.18 OHM -M @ 60°F

NET SAMPLE CHAMBER RECOVERY

Volume	Fluid Type	Physical Properties
4.97 SCF	GAS	
1000 CC	WATER	.18 OHM -M @ 60°F

Pressure: NOT GIVEN GOR: -- GLR: 790.5

INTERPRETATION RESULTS

Reservoir Pressure @Gauge Depth:	N/A
Gauge Depth	13625 FT.
Hydrostatic Gradient	N/A
Potentiometric Surface	N/A
Effective Permeability to _____	N/A
Transmissibility	N/A
Skin Factor / Damage Ratio	N/A
Omega / Lambda (2Φ System)	N/A
Radius of Investigation	N/A
Measured Wellbore Storage	N/A

ROCK / FLUID / WELLBORE PROPERTIES

Reservoir Temperature	240°F.
Analysis Fluid Type	N/A
Formation Volume Factor	N/A
Viscosity	N/A
Z-Factor (gas only)	N/A
Net Pay	NOT GIVEN
Porosity	NOT GIVEN
Total System Compressibility	N/A
Wellbore Radius	.27 FT.
Expected Wellbore Storage	N/A

FLOW RATE DURING DST

430 BWPD Avg. rate from Teleflow

MAXIMUM FLOW RATE POTENTIAL AFTER COMPLETION

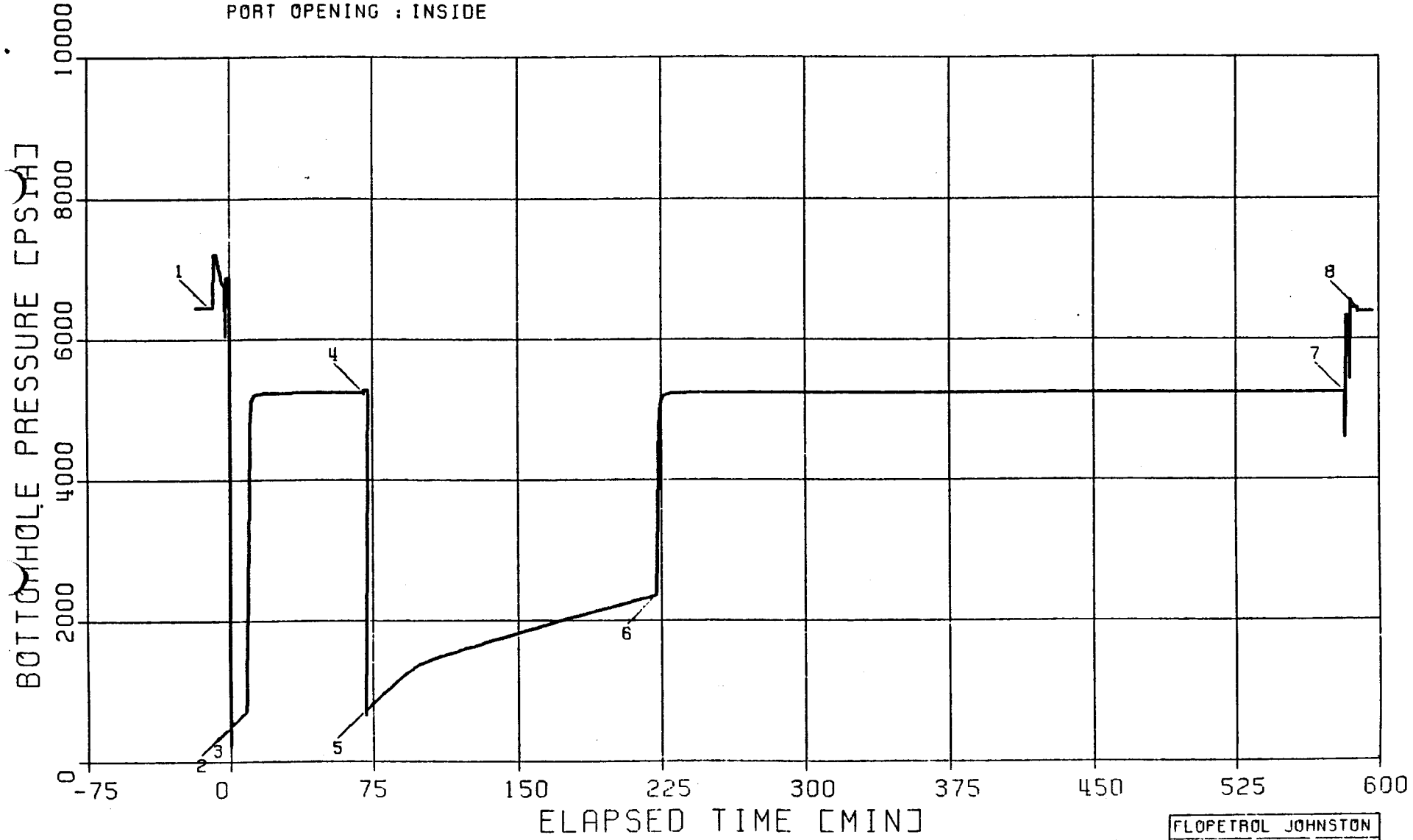
This rate is based on a specific completion design & producing time. Call FJS for details

FJS-5 B14059

BØTTØMHØLE PRESSURE LØG

FIELD REPØRT NØ. 37757E
INSTRUMENT NØ. J-1904
DEPTH : 13625 FT
CAPACITY : 9000 PSI
PØRT ØPENING : INSIDE

CØMPANY : AMERADA HESS CØRP.
WELL : FEDERAL BM #1



FLOPETROL JOHNSTON
SCHLUMBERGER

JOHNSTON-MACCO
Schlumberger

DST EVENT SUMMARY

Field Report # 37757 E

DATE (M/D/Y)	TIME (HR:MIN)	EVENT E.T. (MIN)	EVENT DESCRIPTION	SURFACE PRESSURE (PSIG)	FLOOR MANIFOLD CHOKE SIZE (64ths INCH)
4-10-84	0645	—	SET PACKER 1		
	0652	—	OPENED TEST TOOL FOR INITIAL FLOW 2		
			"SEE TELEFLOW DATA INFORMATION SHEET"		
	0703	—	CLOSED TEST TOOL FOR INITIAL SHUT-IN 3		
	0803		FINISHED SHUT-IN 4		
	0804	—	OPENED TEST TOOL FOR FINAL FLOW 5		
	1034	—	CLOSED TEST TOOL FOR FINAL SHUT-IN 6		
	1634	—	FINISHED FINAL SHUT-IN 7		
	1635	—	UNSEATED PACKER 8		
		—	REVERSED OUT		
		—	BEGAN TRIP OUT OF HOLE		

BEST COPY AVAILABLE

* WELL TEST DATA PRINTOUT *

ELD REPORT # : 37757E

INSTRUMENT # : J-1964
CAPACITY [PSI] : 5000.
DEPTH [FT] : 13625.0
PORT OPENING : IMPIDE
TEMPERATURE [DEG F] : 240.0

MPANY : AMERADA HESS CORP.
WELL : FEDERAL BM #1

BEL POINT INFORMATION

*	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	6:41:38	10-AP	HYDROSTATIC MUD	-10.36	6446.90
2	6:52: 0	10-AP	START FLOW	0.00	509.80
3	7: 0:24	10-AP	END FLOW & START SHUT-IN	8.40	710.67
4	8: 2:26	10-AP	END SHUT-IN	70.44	5235.03
5	8: 3:24	10-AP	START FLOW	71.40	740.73
6	10:34:17	10-AP	END FLOW & START SHUT-IN	222.28	2361.81
7	16:34: 0	10-AP	END SHUT-IN	582.00	5236.39
8	16:42:16	10-AP	HYDROSTATIC MUD	590.26	6392.42

MMARY OF FLOW PERIODS

RIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	8.40	8.40	509.80	710.67
2	71.40	222.28	150.88	740.73	2361.81

MMARY OF SHUTIN PERIODS

RIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	8.40	70.44	62.04	710.67	5235.03	710.67	8.40
2	222.28	582.00	359.72	2361.81	5236.39	2361.81	159.28

EST PHASE : FLOW PERIOD # 1

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
6:52: 0	10-AP	0.00	0.00	509.80
6:57: 0	10-AP	5.00	5.00	627.29
7: 0:24	10-AP	8.40	8.40	710.67

EST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 710.67
PRODUCING TIME [MIN] = 8.40

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
7: 0:24	10-AP	8.40	0.00	710.67	0.00	
7: 1:24	10-AP	9.40	1.00	2308.22	1597.55	0.973
7: 2:24	10-AP	10.40	2.00	4432.58	3721.91	0.716
7: 3:24	10-AP	11.40	3.00	5113.40	4402.73	0.580
7: 4:24	10-AP	12.40	4.00	5180.23	4469.56	0.491
7: 5:24	10-AP	13.40	5.00	5203.94	4493.27	0.428
7: 6:24	10-AP	14.40	6.00	5214.61	4503.94	0.380
7: 7:24	10-AP	15.40	7.00	5221.15	4510.48	0.342
7: 8:24	10-AP	16.40	8.00	5225.00	4514.33	0.312
7: 9:24	10-AP	17.40	9.00	5227.64	4516.97	0.286
7:10:24	10-AP	18.40	10.00	5230.08	4519.41	0.265
7:12:24	10-AP	20.40	12.00	5231.37	4520.70	0.230
7:14:24	10-AP	22.40	14.00	5232.42	4521.75	0.204
7:16:24	10-AP	24.40	16.00	5232.87	4522.20	0.183
7:18:24	10-AP	26.40	18.00	5233.31	4522.64	0.166
7:20:24	10-AP	28.40	20.00	5233.71	4523.04	0.152
7:22:24	10-AP	30.40	22.00	5234.11	4523.44	0.140
7:24:24	10-AP	32.40	24.00	5234.49	4523.82	0.130
7:26:24	10-AP	34.40	26.00	5234.86	4524.19	0.122
7:28:24	10-AP	36.40	28.00	5235.03	4524.36	0.114
7:30:24	10-AP	38.40	30.00	5235.03	4524.36	0.107
7:35:24	10-AP	43.40	35.00	5235.03	4524.36	0.093
7:40:24	10-AP	48.40	40.00	5235.03	4524.36	0.083
7:45:24	10-AP	53.40	45.00	5235.03	4524.36	0.074
7:50:24	10-AP	58.40	50.00	5235.03	4524.36	0.067
7:55:24	10-AP	63.40	55.00	5235.03	4524.36	0.062
8: 0:24	10-AP	68.40	60.00	5235.03	4524.36	0.057
8: 2:26	10-AP	70.44	62.04	5235.03	4524.36	0.055

EST PHASE : FLOW PERIOD # 2

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
8: 3:24	10-AP	71.40	0.00	740.73
8: 8:24	10-AP	76.40	5.00	857.17
8:13:24	10-AP	81.40	10.00	982.11
8:18:24	10-AP	86.40	15.00	1103.57
8:23:24	10-AP	91.40	20.00	1218.35
8:28:24	10-AP	96.40	25.00	1329.45
8:33:24	10-AP	101.40	30.00	1402.34
8:38:24	10-AP	106.40	35.00	1454.06
8:43:24	10-AP	111.40	40.00	1502.17
8:48:24	10-AP	116.40	45.00	1542.63
8:53:24	10-AP	121.40	50.00	1584.02
8:58:24	10-AP	126.40	55.00	1625.82
9: 3:24	10-AP	131.40	60.00	1667.79
9: 8:24	10-AP	136.40	65.00	1711.00
9:13:24	10-AP	141.40	70.00	1752.14
9:18:24	10-AP	146.40	75.00	1793.31
9:23:24	10-AP	151.40	80.00	1834.34
9:28:24	10-AP	156.40	85.00	1873.38
9:33:24	10-AP	161.40	90.00	1911.29
9:38:24	10-AP	166.40	95.00	1949.09
9:43:24	10-AP	171.40	100.00	1987.54
9:48:24	10-AP	176.40	105.00	2027.40
9:53:24	10-AP	181.40	110.00	2064.82
9:58:24	10-AP	186.40	115.00	2100.33
0: 3:24	10-AP	191.40	120.00	2137.25
: 8:24	10-AP	196.40	125.00	2174.70
:13:24	10-AP	201.40	130.00	2210.78
:18:24	10-AP	206.40	135.00	2246.57
:23:24	10-AP	211.40	140.00	2280.75
:28:24	10-AP	216.40	145.00	2315.63
:33:24	10-AP	221.40	150.00	2354.37
:34:17	10-AP	222.28	150.88	2361.81

ST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 2361.81
PRODUCING TIME [MIN] = 159.28

TIME F DAY :MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
:34:17	10-AP	222.28	0.00	2361.81	0.00	
:35:17	10-AP	223.28	1.00	3789.04	1427.23	2.205
:36:17	10-AP	224.28	2.00	4915.73	2553.92	1.907
:37:17	10-AP	225.28	3.00	5138.76	2776.95	1.733
:38:17	10-AP	226.28	4.00	5186.86	2825.05	1.611
:39:17	10-AP	227.28	5.00	5205.70	2843.89	1.517

EST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 2361.81
PRODUCING TIME [MIN] = 159.28

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
*******	*****	********	********	*********	*********	******
0:40:17	10-AP	228.28	6.00	5216.14	2854.33	1.440
0:41:17	10-AP	229.28	7.00	5221.12	2859.31	1.376
0:42:17	10-AP	230.28	8.00	5225.79	2863.98	1.320
0:43:17	10-AP	231.28	9.00	5228.33	2866.52	1.272
0:44:17	10-AP	232.28	10.00	5230.87	2869.06	1.229
0:46:17	10-AP	234.28	12.00	5233.14	2871.33	1.155
0:48:17	10-AP	236.28	14.00	5234.31	2872.50	1.093
0:50:17	10-AP	238.28	16.00	5235.32	2873.51	1.040
0:52:17	10-AP	240.28	18.00	5236.28	2874.47	0.993
0:54:17	10-AP	242.28	20.00	5236.39	2874.58	0.953
0:56:17	10-AP	244.28	22.00	5236.39	2874.58	0.916
0:58:17	10-AP	246.28	24.00	5236.39	2874.58	0.883
: 0:17	10-AP	248.28	26.00	5236.39	2874.58	0.853
: 2:17	10-AP	250.28	28.00	5236.39	2874.58	0.825
: 4:17	10-AP	252.28	30.00	5236.39	2874.58	0.800
: 9:17	10-AP	257.28	35.00	5236.39	2874.58	0.744
:14:17	10-AP	262.28	40.00	5236.39	2874.58	0.697
:19:17	10-AP	267.28	45.00	5236.39	2874.58	0.657
:24:17	10-AP	272.28	50.00	5236.39	2874.58	0.622
:29:17	10-AP	277.28	55.00	5236.39	2874.58	0.591
:34:17	10-AP	282.28	60.00	5236.39	2874.58	0.563
:39:17	10-AP	287.28	65.00	5236.39	2874.58	0.538
:44:17	10-AP	292.28	70.00	5236.39	2874.58	0.515
:49:17	10-AP	297.28	75.00	5236.39	2874.58	0.495
:54:17	10-AP	302.28	80.00	5236.39	2874.58	0.476
:59:17	10-AP	307.28	85.00	5236.39	2874.58	0.458
: 4:17	10-AP	312.28	90.00	5236.39	2874.58	0.442
: 9:17	10-AP	317.28	95.00	5236.39	2874.58	0.428
:14:17	10-AP	322.28	100.00	5236.39	2874.58	0.414
:19:17	10-AP	327.28	105.00	5236.39	2874.58	0.401
:24:17	10-AP	332.28	110.00	5236.39	2874.58	0.389
:29:17	10-AP	337.28	115.00	5236.39	2874.58	0.377
:34:17	10-AP	342.28	120.00	5236.39	2874.58	0.367
:39:17	10-AP	347.28	125.00	5236.39	2874.58	0.357
:44:17	10-AP	352.28	130.00	5236.39	2874.58	0.347
:49:17	10-AP	357.28	135.00	5236.39	2874.58	0.338
:54:17	10-AP	362.28	140.00	5236.39	2874.58	0.330
:59:17	10-AP	367.28	145.00	5236.39	2874.58	0.322
: 4:17	10-AP	372.28	150.00	5236.39	2874.58	0.314
: 9:17	10-AP	377.28	155.00	5236.39	2874.58	0.307
:14:17	10-AP	382.28	160.00	5236.39	2874.58	0.300
:19:17	10-AP	387.28	165.00	5236.39	2874.58	0.293
:24:17	10-AP	392.28	170.00	5236.39	2874.58	0.287
:29:17	10-AP	397.28	175.00	5236.39	2874.58	0.281
:34:17	10-AP	402.28	180.00	5236.39	2874.58	0.275
:39:17	10-AP	407.28	185.00	5236.39	2874.58	0.270
:44:17	10-AP	412.28	190.00	5236.39	2874.58	0.264
:49:17	10-AP	417.28	195.00	5236.39	2874.58	0.259

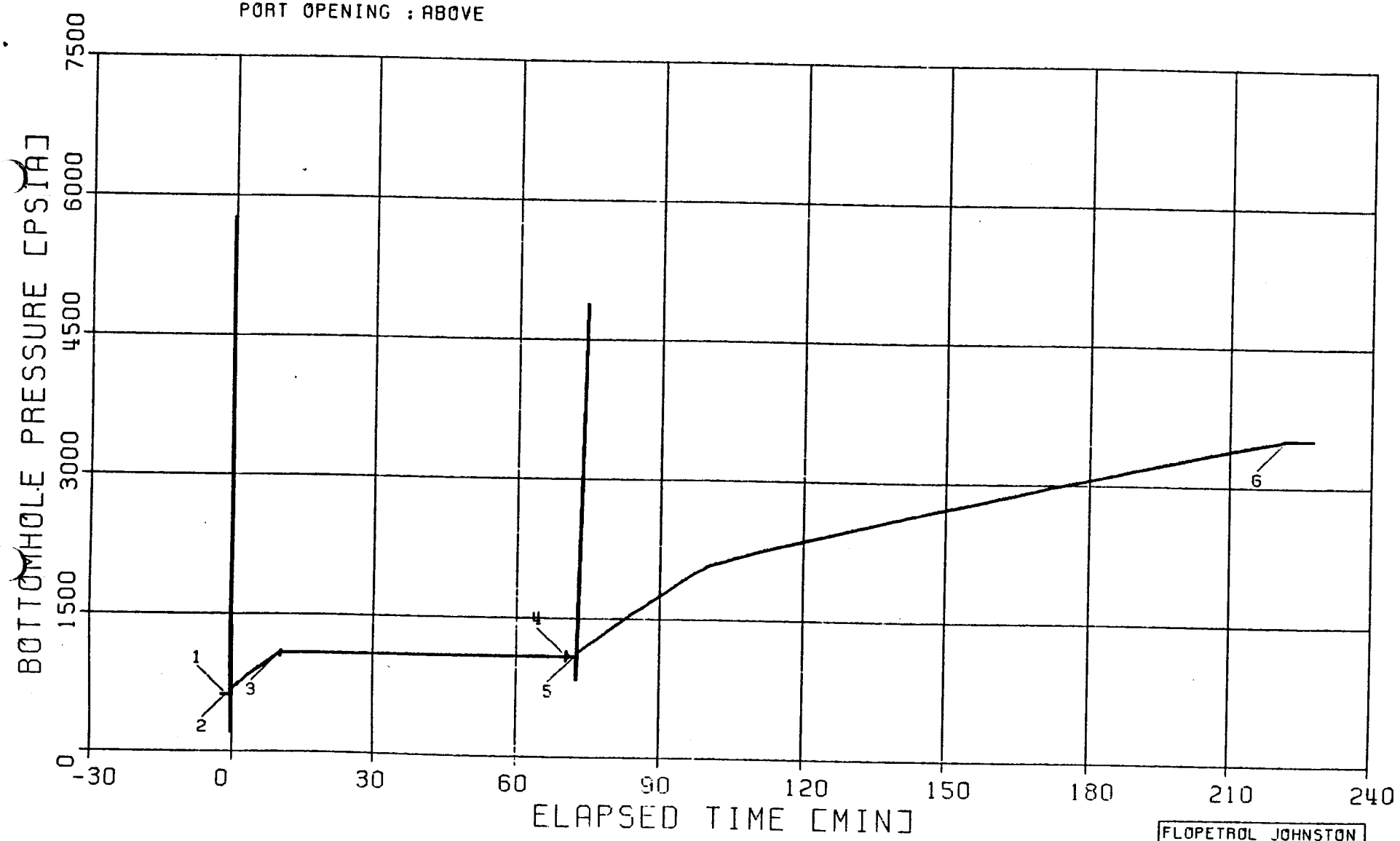
EST PHASE : SHUTIN PERIOD # 2
FINAL FLOW PRESSURE [PSIA] = 2361.81
PRODUCING TIME [MIN] = 159.28

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
*******	*****	********	********	*********	*********	******
3:54:17	10-AP	422.28	200.00	5236.39	2874.58	0.254
3:59:17	10-AP	427.28	205.00	5236.39	2874.58	0.250
: 4:17	10-AP	432.28	210.00	5236.39	2874.58	0.245
: 9:17	10-AP	437.28	215.00	5236.39	2874.58	0.241
:14:17	10-AP	442.28	220.00	5236.39	2874.58	0.237
:19:17	10-AP	447.28	225.00	5236.39	2874.58	0.233
:24:17	10-AP	452.28	230.00	5236.39	2874.58	0.229
:29:17	10-AP	457.28	235.00	5236.39	2874.58	0.225
:34:17	10-AP	462.28	240.00	5236.39	2874.58	0.221
:39:17	10-AP	467.28	245.00	5236.39	2874.58	0.218
:44:17	10-AP	472.28	250.00	5236.39	2874.58	0.214
:49:17	10-AP	477.28	255.00	5236.39	2874.58	0.211
:54:17	10-AP	482.28	260.00	5236.39	2874.58	0.208
:59:17	10-AP	487.28	265.00	5236.39	2874.58	0.204
: 4:17	10-AP	492.28	270.00	5236.39	2874.58	0.201
: 9:17	10-AP	497.28	275.00	5236.39	2874.58	0.198
:14:17	10-AP	502.28	280.00	5236.39	2874.58	0.196
:19:17	10-AP	507.28	285.00	5236.39	2874.58	0.193
:24:17	10-AP	512.28	290.00	5236.39	2874.58	0.190
:29:17	10-AP	517.28	295.00	5236.39	2874.58	0.188
:34:17	10-AP	522.28	300.00	5236.39	2874.58	0.185
:39:17	10-AP	527.28	305.00	5236.39	2874.58	0.182
:44:17	10-AP	532.28	310.00	5236.39	2874.58	0.180
:49:17	10-AP	537.28	315.00	5236.39	2874.58	0.178
:54:17	10-AP	542.28	320.00	5236.39	2874.58	0.175
:59:17	10-AP	547.28	325.00	5236.39	2874.58	0.173
: 4:17	10-AP	552.28	330.00	5236.39	2874.58	0.171
: 9:17	10-AP	557.28	335.00	5236.39	2874.58	0.169
:14:17	10-AP	562.28	340.00	5236.39	2874.58	0.167
:19:17	10-AP	567.28	345.00	5236.39	2874.58	0.165
:24:17	10-AP	572.28	350.00	5236.39	2874.58	0.163
:29:17	10-AP	577.28	355.00	5236.39	2874.58	0.161
:34: 0	10-AP	582.00	359.72	5236.39	2874.58	0.159

BØTTØMHØLE PRESSURE LØG

FIELD REPØRT NØ. 37757E
INSTRUMENT NØ. J-1865
DEPTH : 13575 FT
CAPACITY : 9000 PSI
PØRT ØPENING : ABØVE

CØMPANY : AMERADA HESS CØRP.
WELL : FEDERAL BM #1



FLOPETROL JOHNSTON
SCHLUMBERGER

156

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* WELL TEST DATA PRINTOUT *
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FIELD REPORT # : 37757E

COMPANY : AMERADA HESS CORP.
WELL : FEDERAL BM #1

INSTRUMENT # : J-1865
CAPACITY [PSI] : 5000.
DEPTH [FT] : 13575.0
PORT OPENING : ABOVE
TEMPERATURE [DEG F] : 240.0

LABEL POINT INFORMATION
****

#	TIME OF DAY HH:MM:SS	DATE DD-MM	EXPLANATION	ELAPSED TIME,MIN	BOT HOLE PRESSURE PSIA
1	6:51: 2	10-AP	HYDROSTATIC MUD	-0.97	619.84
2	6:52: 0	10-AP	START FLOW	0.00	677.14
3	7: 2:21	10-AP	END FLOW & START SHUT-IN	10.35	1089.64
4	8: 2:34	10-AP	END SHUT-IN	70.57	1088.73
5	8: 4:56	10-AP	START FLOW	72.93	1125.11
6	10:34: 0	10-AP	END FLOW & START SHUT-IN	222.00	3508.71

SUMMARY OF FLOW PERIODS
****

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA
1	0.00	10.35	10.35	677.14	1089.64
2	72.93	222.00	149.07	1125.11	3508.71

SUMMARY OF SHUTIN PERIODS
****

PERIOD	START ELAPSED TIME,MIN	END ELAPSED TIME,MIN	DURATION MIN	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, MIN
1	10.35	70.57	60.22	1089.64	1088.73	1089.64	10.35

EST PHASE : FLOW PERIOD # 1

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
******	*****	********	********	*********
6:52: 0	10-AP	0.00	0.00	677.14
6:57: 0	10-AP	5.00	5.00	894.05
7: 2: 0	10-AP	10.00	10.00	1078.10
7: 2:21	10-AP	10.35	10.35	1089.64

EST PHASE : SHUTIN PERIOD # 1
FINAL FLOW PRESSURE [PSIA] = 1089.64
PRODUCING TIME [MIN] = 10.35

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
******	*****	********	********	*********	*********	******
7: 2:21	10-AP	10.35	0.00	1089.64	0.00	
7: 3:21	10-AP	11.35	1.00	1088.73	-0.91	1.055
7: 4:21	10-AP	12.35	2.00	1088.73	-0.91	0.791
7: 5:21	10-AP	13.35	3.00	1088.73	-0.91	0.648
7: 6:21	10-AP	14.35	4.00	1088.73	-0.91	0.555
7: 7:21	10-AP	15.35	5.00	1088.73	-0.91	0.487
7: 8:21	10-AP	16.35	6.00	1088.73	-0.91	0.435
7: 9:21	10-AP	17.35	7.00	1088.73	-0.91	0.394
7:10:21	10-AP	18.35	8.00	1088.73	-0.91	0.361
7:11:21	10-AP	19.35	9.00	1088.73	-0.91	0.332
7:12:21	10-AP	20.35	10.00	1088.73	-0.91	0.309
7:14:21	10-AP	22.35	12.00	1088.73	-0.91	0.270
7:16:21	10-AP	24.35	14.00	1088.73	-0.91	0.240
7:18:21	10-AP	26.35	16.00	1088.73	-0.91	0.217
7:20:21	10-AP	28.35	18.00	1088.73	-0.91	0.197
7:22:21	10-AP	30.35	20.00	1088.73	-0.91	0.181
7:24:21	10-AP	32.35	22.00	1088.73	-0.91	0.167
7:26:21	10-AP	34.35	24.00	1088.73	-0.91	0.156
7:28:21	10-AP	36.35	26.00	1088.73	-0.91	0.146
7:30:21	10-AP	38.35	28.00	1088.73	-0.91	0.137
7:32:21	10-AP	40.35	30.00	1088.73	-0.91	0.129
7:37:21	10-AP	45.35	35.00	1088.73	-0.91	0.113
7:42:21	10-AP	50.35	40.00	1088.73	-0.91	0.100
7:47:21	10-AP	55.35	45.00	1088.73	-0.91	0.090
7:52:21	10-AP	60.35	50.00	1088.73	-0.91	0.082
7:57:21	10-AP	65.35	55.00	1088.73	-0.91	0.075
8: 2:21	10-AP	70.35	60.00	1088.73	-0.91	0.069
8: 2:34	10-AP	70.57	60.22	1088.73	-0.91	0.069

EST PHASE : FLOW PERIOD # 2

TIME OF DAY H:MM:SS	DATE DD-MM	ELAPSED TIME,MIN	DELTA TIME,MIN	BOT HOLE PRESSURE PSIA
*******	*****	********	********	*********
8: 4:56	10-AP	72.93	0.00	1125.11
8: 9:56	10-AP	77.93	5.00	1318.94
8:14:56	10-AP	82.93	10.00	1505.23
8:19:56	10-AP	87.93	15.00	1681.66
8:24:56	10-AP	92.93	20.00	1850.61
8:29:56	10-AP	97.93	25.00	2014.22
8:34:56	10-AP	102.93	30.00	2126.87
8:39:56	10-AP	107.93	35.00	2199.96
8:44:56	10-AP	112.93	40.00	2269.88
8:49:56	10-AP	117.93	45.00	2332.11
8:54:56	10-AP	122.93	50.00	2393.93
8:59:56	10-AP	127.93	55.00	2457.45
9: 4:56	10-AP	132.93	60.00	2518.51
9: 9:56	10-AP	137.93	65.00	2580.40
9:14:56	10-AP	142.93	70.00	2640.79
9:19:56	10-AP	147.93	75.00	2697.73
9:24:56	10-AP	152.93	80.00	2754.03
9:29:56	10-AP	157.93	85.00	2811.21
9:34:56	10-AP	162.93	90.00	2867.35
9:39:56	10-AP	167.93	95.00	2923.18
9:44:56	10-AP	172.93	100.00	2980.85
9:49:56	10-AP	177.93	105.00	3038.32
9:54:56	10-AP	182.93	110.00	3093.10
9:59:56	10-AP	187.93	115.00	3148.84
0: 4:56	10-AP	192.93	120.00	3203.72
0: 9:56	10-AP	197.93	125.00	3257.17
0:14:56	10-AP	202.93	130.00	3309.24
0:19:56	10-AP	207.93	135.00	3361.58
0:24:56	10-AP	212.93	140.00	3414.69
0:29:56	10-AP	217.93	145.00	3464.23
0:34: 0	10-AP	222.00	149.07	3508.71

JOHNSTON-MACCO
Schlumberger

TELEFLOW DATA SUMMARY

(Closed Chamber Monitoring)

Field Report # 37757 E

INITIAL **FLOW PERIOD** PCS START ET (HR:MIN:SEC) 06:13:00 PCS END ET (HR:MIN:SEC) 06:23:30

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	~~GAS SAT.~~ WATER FLOW RATE BBLS/DAY	DESCRIPTION
06:51:10	06:13:10	0.17	-0.03	--	OPENED TEST TOOL
06:52:10	06:14:10	1.17	-0.03	89	
06:53:10	06:15:10	2.17	-0.02	179	
06:54:10	06:16:10	3.17	-0.01	129	
06:55:20	06:17:20	4.33	0.03	515	
06:56:35	06:18:35	5.58	0.01	-293	
06:57:35	06:19:35	6.58	0.01	128	
06:58:35	06:20:35	7.58	0.03	197	
07:00:00	06:22:00	9.00	0.04	194	
07:01:00	06:23:00	10.0	0.05	108	
07:01:30	06:23:30	10.5	0.06	236	AVG. FLOWRATE = 174 BWPD

INITIAL **SHUT-IN PERIOD** PCS START ET (HR:MIN:SEC) 06:23:30 PCS END ET (HR:MIN:SEC) 07:26:30

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS BREAKOUT RATE (MSCF/D)	DESCRIPTION
07:01:30	06:23:30	0.0	0.06	--	CLOSED TEST TOOL
07:11:30	06:33:30	10.0	0.12	00	
07:21:30	06:43:30	20.0	0.24	35	
07:31:30	06:53:30	30.0	0.32	8	
07:41:30	07:03:30	40.0	0.34	-7	
07:51:30	07:13:30	50.0	0.36	9	
08:01:30	07:23:30	60.0	0.37	-22	
08:04:30	07:26:30	63.0	0.38	7	

BLOWDOWN RESULTS LIQUID RECOVERY _____ BBL AVERAGE GLR _____ SCF/BBL

JOHNSTON-MACCO
Schlumberger

TELEFLOW DATA SUMMARY

(Closed Chamber Monitoring)

Field Report # 37757 E

FINAL **FLOW PERIOD** PCS START ET (HR:MIN:SEC) 07:26:00 PCS END ET (HR:MIN:SEC) 09:56:00

TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	~~GAS SAT. WATER~~ FLOW RATE BBLS/DAY	DESCRIPTION
08:04	07:26:00	0.0	0.39	--	OPENED TEST TOOL
08:14	07:36:00	10.0	0.49	53	
08:24	07:46	20.0	0.63	205	
08:34	07:56	30.0	0.87	421	
08:44	08:06	40.0	1.21	456	
08:54	08:16	50.0	1.51	366	
09:04	08:26	60.0	1.80	436	
09:14	08:36	70.0	2.14	404	
09:24	08:46	80.0	2.63	636	
09:34	08:56	90.0	3.10	533	
09:44	09:06	100.0	3.57	486	
09:54	09:16	110.0	3.99	454	
10:04	09:26	120.0	4.44	438	
10:14	09:36	130.0	4.93	471	
10:24	09:46	140.0	5.46	564	
10:34	09:56	150.0	5.89	454	AVG. FLOWRATE = 430 BWPD

FINAL **SHUT-IN PERIOD** PCS START ET (HR:MIN:SEC) 09:56:00 PCS END ET (HR:MIN:SEC) 10:57:30

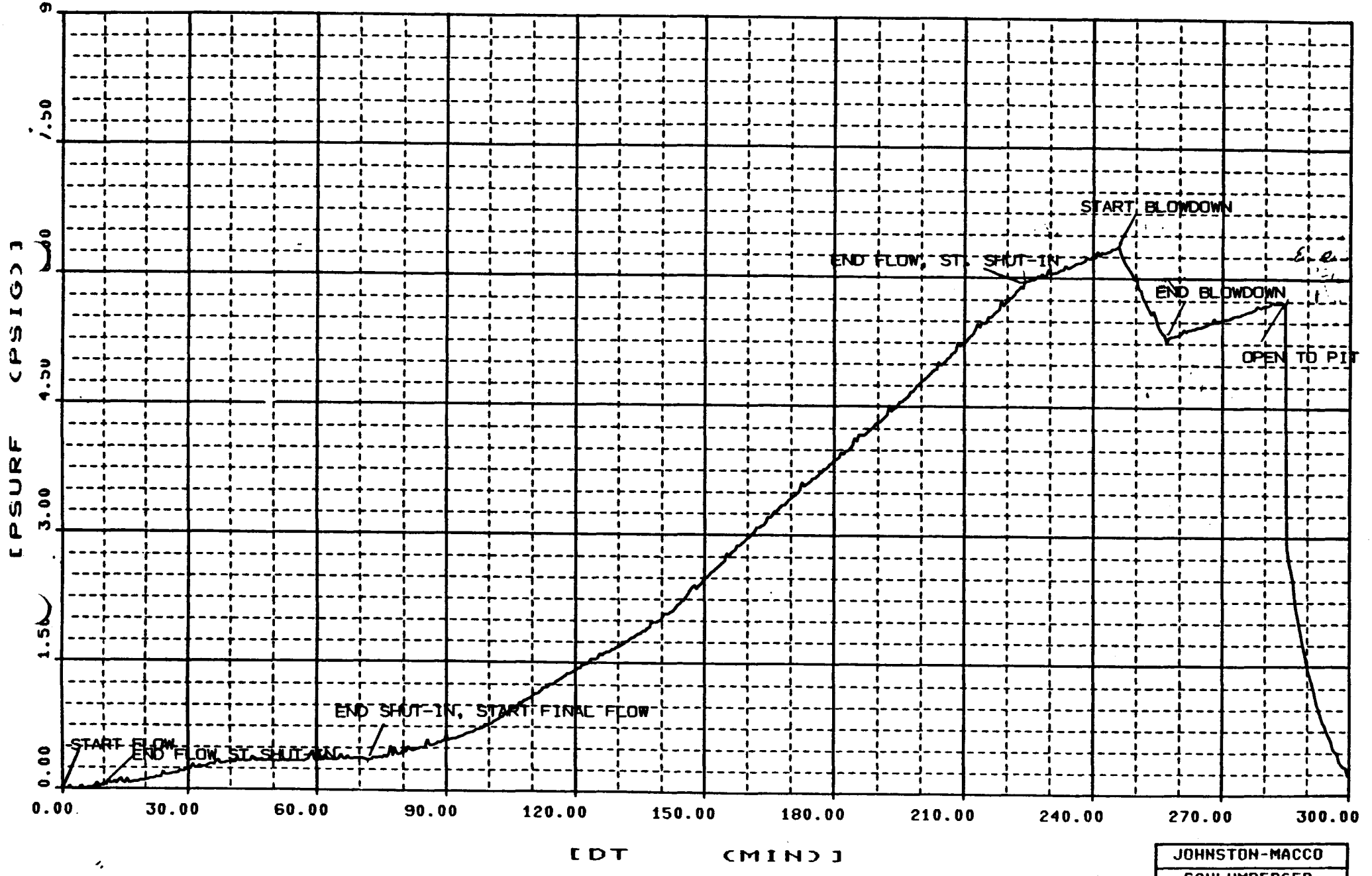
TIME (HR:MIN)	PCS E.T. (HR:MIN:SEC)	EVENT E.T. (MIN)	SURFACE PRESSURE (PSIG)	GAS BREAKOUT RATE (MSCF/D)	DESCRIPTION
10:34	09:56:00	0.0	5.89	--	CLOSED TEST TOOL
10:46	10:08:00	12.0	6.14	165	
10:57:30	10:19:30	23.5	6.27	-321	BEGIN BLOWDOWN
11:08:30	10:30:30	34.5	5.31	--	END BLOWDOWN
11:20:30	10:42:30	46.5	5.52	107	
11:35:30	10:57:30	61.5	5.71	-53	OPEN TO PIT

BLOWDOWN RESULTS LIQUID RECOVERY [ ] BBL AVERAGE GLR [ ] SCF/BBL

TELEFLOW DATA - SURFACE PRESSURE LOG

FIELD REPORT NO 37757E
INSTRUMENT NO
CUSTOMER: AMERADA HESS
WELL: FEDERAL BM-1

PLOT START TIME: 6 HR 13 MIN 0 SEC
PLOT STOP TIME: 11 HR 13 MIN 0 SEC
PERIOD START TIME: 6 HR 13 MIN 0 SEC



JOHNSTON-MACCO
SCHLUMBERGER

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES

SHUTIN PERIOD: SURFACE VALVE CLOSED

TELEFLOW DATA = INITIAL SHUT-IN

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
6 23 30	0.00	0.06	0.00	0.
		CUM VOLUME		0.000
6 28 30	5.00	0.12	0.01	31.
		CUM VOLUME		0.108
6 33 30	10.00	0.12	-0.00	-0.
		CUM VOLUME		0.108
6 38 30	15.00	0.18	0.01	30.
		CUM VOLUME		0.211
6 43 30	20.00	0.24	0.01	35.
		CUM VOLUME		0.331
6 48 30	25.00	0.31	0.01	31.
		CUM VOLUME		0.438
6 53 30	30.00	0.32	0.00	8.
		CUM VOLUME		0.465
6 58 30	35.00	0.35	0.01	16.
		CUM VOLUME		0.520
7 3 30	40.00	0.34	-0.00	-7.
		CUM VOLUME		0.520
7 8 30	45.00	0.34	0.00	3.
		CUM VOLUME		0.531
7 13 30	50.00	0.36	0.00	9.
		CUM VOLUME		0.562
7 18 30	55.00	0.42	0.01	26.
		CUM VOLUME		0.652
7 23 30	60.00	0.37	-0.01	-22.
		CUM VOLUME		0.652
7 26 30	63.00	0.38	0.00	7.
		CUM VOLUME		0.666

LIQ CUSHION CALCULATED INSTANTANEUUS FLOW RATES

FLOW PERIOD: SURFACE VALVE CLOSED

TELEFLOW DATA - INITIAL FLOW

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
6 13 10	0.17	-0.03	0.00	0.
	CUM VOLUME			0.000
6 14 10	1.17	-0.03	0.01	89.
	CUM VOLUME			0.621E-01
6 15 10	2.17	-0.02	0.01	179.
	CUM VOLUME			0.186
6 16 10	3.17	-0.01	0.01	129.
	CUM VOLUME			0.276
6 17 20	4.33	0.03	0.03	515.
	CUM VOLUME			0.693
6 18 35	5.58	0.01	-0.02	-293.
	CUM VOLUME			0.693
6 19 35	6.58	0.01	0.01	128.
	CUM VOLUME			0.782
6 20 35	7.58	0.03	0.01	197.
	CUM VOLUME			0.919
6 22 0	9.00	0.04	0.01	194.
	CUM VOLUME			1.11
6 23 0	10.00	0.05	0.01	108.
	CUM VOLUME			1.19
6 23 30	10.50	0.06	0.01	236.
	CUM VOLUME			1.27

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES

FLOW PERIOD: SURFACE VALVE CLOSED TELEFLOW DATA - FINAL FLOW

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
7 26 0	0.00	0.39	0.00	0.
	CUM VOLUME			0.000
7 31 0	5.00	0.47	0.02	275.
	CUM VOLUME			0.956
7 36 0	10.00	0.49	0.00	53.
	CUM VOLUME			1.14
7 41 0	15.00	0.57	0.02	239.
	CUM VOLUME			1.97
7 46 0	20.00	0.63	0.01	205.
	CUM VOLUME			2.68
7 51 0	25.00	0.73	0.02	302.
	CUM VOLUME			3.73
7 56 0	30.00	0.87	0.03	421.
	CUM VOLUME			5.19
8 1 0	35.00	1.05	0.04	552.
	CUM VOLUME			7.11
8 6 0	40.00	1.21	0.03	456.
	CUM VOLUME			8.69
8 11 0	45.00	1.38	0.03	475.
	CUM VOLUME			10.3
8 16 0	50.00	1.51	0.03	366.
	CUM VOLUME			11.6
8 21 0	55.00	1.64	0.03	363.
	CUM VOLUME			12.9
8 26 0	60.00	1.80	0.03	436.
	CUM VOLUME			14.4
8 31 0	65.00	1.98	0.04	481.
	CUM VOLUME			16.1
8 36 0	70.00	2.14	0.03	404.
	CUM VOLUME			17.5
8 41 0	75.00	2.37	0.05	581.
	CUM VOLUME			19.5
8 46 0	80.00	2.63	0.05	636.
	CUM VOLUME			21.7

LIQ CUSHION CALCULATED INSTANTANEUUS FLOW RATES

FLOW PERIOD: SURFACE VALVE CLOSED

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	GAS-SAT WATER BBL/D
8 51 0	85.00	2.87	0.05	585.
	CUM VOLUME			23.7
8 56 0	90.00	3.10	0.05	533.
	CUM VOLUME			25.6
9 1 0	95.00	3.35	0.05	556.
	CUM VOLUME			27.5
9 6 0	100.00	3.57	0.04	486.
	CUM VOLUME			29.2
9 11 0	105.00	3.77	0.04	438.
	CUM VOLUME			30.7
9 16 0	110.00	3.99	0.04	454.
	CUM VOLUME			32.3
9 21 0	115.00	4.23	0.05	487.
	CUM VOLUME			34.0
9 26 0	120.00	4.44	0.04	438.
	CUM VOLUME			35.5
9 31 0	125.00	4.68	0.05	470.
	CUM VOLUME			37.1
9 36 0	130.00	4.93	0.05	471.
	CUM VOLUME			38.8
9 41 0	135.00	5.15	0.04	412.
	CUM VOLUME			40.2
9 46 0	140.00	5.46	0.06	564.
	CUM VOLUME			42.1
9 51 0	145.00	5.63	0.03	301.
	CUM VOLUME			43.2
9 56 0.	150.00	5.89	0.05	454.
	CUM VOLUME			44.8

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES

SHUTIN PERIOD: SURFACE VALVE CLOSED TELEFLOW DATA - FINAL SHUT-IN

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
9 56 0	0.00	5.89	0.00	0.
	CUM VOLUME			0.000
9 58 0	2.00	5.96	0.03	253.
	CUM VOLUME			0.351
10 0 0	4.00	6.02	0.03	193.
	CUM VOLUME			0.620
10 2 0	6.00	6.03	0.00	33.
	CUM VOLUME			0.666
10 4 0	8.00	6.06	0.02	115.
	CUM VOLUME			0.826
10 6 0	10.00	6.09	0.02	121.
	CUM VOLUME			0.994
10 8 0	12.00	6.14	0.02	165.
	CUM VOLUME			1.22
10 10 0	14.00	6.18	0.02	142.
	CUM VOLUME			1.42
10 12 0	16.00	6.22	0.02	157.
	CUM VOLUME			1.64
10 14 0	18.00	6.30	0.04	294.
	CUM VOLUME			2.05
10 16 0	20.00	6.29	-0.00	-35.
	CUM VOLUME			2.05
10 18 0	22.00	6.34	0.02	149.
	CUM VOLUME			2.25
10 19 30	23.50	6.27	-0.05	-321.
	CUM VOLUME			2.25

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES
SHUTIN PERIOD: POS DISPLACEMENT METER

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	CUM DELT PS
10 19 30	0.00	6.27	0.00	0.
10 21 30	2.00	6.08	-0.09	-0.
10 23 30	4.00	5.88	-0.10	-0.
10 25 30	6.00	5.68	-0.10	-1.
10 27 30	8.00	5.54	-0.07	-1.
10 29 30	10.00	5.34	-0.10	-1.
10 30 30	11.00	5.31	-0.03	-1.

LIQ CUSHION CALCULATED INSTANTANEOUS FLOW RATES

SHUTIN PERIOD: SURFACE VALVE CLOSED

ELAPSED TIME HR MN SC	PERIOD TIME MIN	SURFACE PRESS PSIG	DPS/DT PSI/MIN	PURE GAS MSCF/D
10 30 30	0.00	5.31	0.00	0.
		CUM VOLUME		0.000
10 33 30	3.00	5.37	0.02	147.
		CUM VOLUME		0.307
10 36 30	6.00	5.42	0.02	113.
		CUM VOLUME		0.543
10 39 30	9.00	5.47	0.02	144.
		CUM VOLUME		0.843
10 42 30	12.00	5.52	0.01	107.
		CUM VOLUME		1.07
10 45 30	15.00	5.57	0.02	129.
		CUM VOLUME		1.34
10 48 30	18.00	5.61	0.01	109.
		CUM VOLUME		1.56
10 51 30	21.00	5.67	0.02	128.
		CUM VOLUME		1.83
10 54 30	24.00	5.73	0.02	163.
		CUM VOLUME		2.17
10 57 30	27.00	5.71	-0.01	-53.
		CUM VOLUME		2.17

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

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 [X] = gas well [ ] other

2. NAME OF OPERATOR
Amerada Hess Corporation

3. ADDRESS OF OPERATOR Drilling Services'
P. o. Box 2040; Tulsa, Oklahoma 74102

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1143'FSL, 1637' FWL (SE SW)
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH: 590'FSL 1980' FWL (C/SE SW)

5. LEASE
U-23463

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal BM

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
North Pine View

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 24, T3N, R7E

12. COUNTY OR PARISH
Summit

13. STATE
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7525 Ungraded

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

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	[ ]	[ ]
FRACTURE TREAT	[ ]	[ ]
SHOOT OR ACIDIZE	[ ]	[ ]
REPAIR WELL	[ ]	[ ]
PULL OR ALTER CASING	[ ]	[ ]
MULTIPLE COMPLETE	[ ]	[ ]
CHANGE ZONES	[ ]	[ ]
ABANDON*	[ ]	[X]
(other)		

RECEIVED
MAY 16 1984
DIVISION OF OIL
GAS & MINING

(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.)*

See Attached:

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

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

SIGNED J. R. Wilson TITLE Supervisor DATE 5-14-84

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Exhibit "A"

Federal BM #1 Depth of cmt plugs.

Cement plug #1;11,900'-11700' , 45 sx class "H" weth .2% R-11. Yield 1.05 cu ft/sx, SW=16.5 ppg

" " #2; 10,400'-10200', 72 sx Class"H" with .2% R-11, Yield 1.05 cu ft/sx, SW=16.5 ppg

" " #3; 5940'-6600' with 225 sx class "H", Yield=1.05 cu ft/sx, SW=16.5 ppg

" " #4; 1800'-2000' with 155 sx class "H" cmt, Yield 1.05 cu ft/sx, SW=16.5 ppg

" " #5; 304'-4', (Ground level depth) with 233 sx class "H" with 2% CaCl, Yield =1.05 cu ft/sx, SW=16.5 ppg

FEDERAL BM-#1
Summit County, Utah

Moved in and RU Loffland Rig #8 and spudded 26" hole @2:30 a.m. 10-25-83. Drilled to 1206' 11-6-83, pumped slug, circ and cond hole for 20" casing. RU Eagle Casing crew and ran 22 jt 20" OD, 133# K-55, 8RS R-3, A, casing and 8 jt 106.5# K-55 8RS R-3, A casing with guide shoe @ 1194' KDB. PU 9 jt 5" DP, ran in hole 9 stands out of derrick with Bakerline stringer on btm, sting into float collar. Cemented casing in rotary, pumped 54 bbl of Sapp water ahead of cmt. Pumped 2700 sx of 50/50 poz cmt, 2% Gel, 2% CaCl, 1/4#sx Cello-flake, 1.21 cuft/sx yield, slurry wt=14.4# per gallon. Tailed in with 400 sx Class A cmt, 2% CaCl, 1/4#/sx Cello-flake, slurry wt=15.7#/gallon, Yield=1.17 cuft/sx. Circ 106 sx of cmt to surface, quit pumping cmt @ 2:30 a.m. 11 hrs WOC, clean pits, cut off 30" @ btm of cellar, cut off 20", install 20" 3m# well head, Cameron tested weld on WH to 500 psi on calasp side, OK. NU BOP, test annular preventers, HCR valve, Choke manifold, upper and lower Kelly cock w/1500 psi (15 min for each test), tests OK. PU bit and TIH, broke circ and tagged soft cmt @ 1070'. Washed to 1154', tagged float collar @ 1154'. 1/2 hr circ to test 20" casing, 1/4 hr, test 20" casing with 1000 psi, OK (11-11-83). Drilled FC @ 1154' and cmt to 1175', Test casing shoe joint with 1000 psi, OK. Drilled cmt 1175'-1202', drld shoe @1202' 11-11-83. Drilled formation 1202'-6382'. Circ & cond hole for logs. RU Schlumberger ran DIL W/GAMMA, LDT with caliper tool, dipmeter loggers TD 6372'. RD Schlumberger. TIH, circ & cond hole for casing. RU Parish Casing crews, ran set & cmt'd 127 jt 13-1/2" & 13-3/8" casing @ 6382' with DV tool @ 4197.96'. 2 centralizers below DV tool, 2 cmt baskets on 2nd jt below DV tool, 2 centralizers above DV tool on 1st collar. Centralizers on collars @ 1076', 1033', 988' with 2 cmt baskets on jt in between. 1 centralizer 5' above FS and 1 in middle of 1st jt, 1- 5' from coupling, 1- 15' from btm of 2nd jt and 1- 15' from coupling. 3rd & 4th jt 1 on each coupling. Circ casing for cmt with rig pump, wash 20' to btm. RU BJ hughes & pressure cmt head and all exposed lines to 3000 psi. Mixed & pumped 1257 sx BJ light 35 % Poz 65% cmt, 6% Gel slurry wt=13.6#/gal, yield=1.54 cuft/sx. Tailed in with 250 sx Class G cmt with 1/4#/sx Cello-flake, slurry wt=15.8#, yield=1.14 cuft/sx, mixed & pumped @ 10 bbl per min., displaced w/962 bbl mud bumped plug on 1 stage w/1000 psi @ 9 a.m., 12-25-83. 6 hrs circ thru DV tool while WOC. Cmt'd 2nd stage with 3550 sx 50/50 Poz plus 2% Gel, slurry wt 14.4 ppg yield 1.21 cuft/sx, dropped plug, pumped 640 bbl of displacement @ 10 bbl/min., bumped plug, closed DV trool @ 7:40 p.m. 12-25-83. Had full returns, circ 198 bbl cmt to pits (910 sx). ND BOP Set 13-3/8" casing slips w/300,000# cut off 13-3/8 csg, NU & test BOP equipment to 5m psi for 15 min, OK. PU bit & TIH, Drld 60' of ratty cmt, tagged DV tool @ 4197.96', test to

1000 psi, after drlg DV tool, OK. TIH & drld float collar @6296', test casing to 1000 psi, OK. Drld float shoe @ 6382', drld 11' of formation and tested csg seat to 763 psi, equivalent to 11# mud for 15 min, OK 7:30 a.m. 12-31-83.
Drld 6393'-6459' RU and run Gryo Sperry Sun Survey. Gryo Survey: 6370 = 2.34 deg, Asmieth 135.50 deg., TVD 6367', South Coordinates 99.93', East Coordinates 134.25' Total Horozonial Displacements 167.36' South 53 deg, 20 min East.
Drld 6459'-6700' Survey @6585' 1-3/4° S46E
Drld 6700'-6870' Survey @6780' 1-1/4° S77E
Drld 6870'-7062' Survey @6970' 1-1/4° S63E
Drld 7062'-7094' Survey @7064' 1-1/4° S50E
Drld 7094'-7525' Survey @7465' 6° S33E, 7495' 6-1/4° S35E
Drld 7525'-7805' Survey @7612' 6-3/4° S35E
Drld 7805'-7955' Survey @7775' 6-1/2° S36E
Drld 7955'-8090' Survey @7933' 6-1/2° S35E
Drld 8090'-8265' Survey @8060' 6-1/4° S31E
Drld 8265'-8518' Survey @8252' 6-1/4° S26E
Drld 8518'-8683' Survey @8537' 5-3/4° S27E
Drld 8683'-8870' Survey @8820' 5-1/4° S27E
Drld 8870'-9159' Survey @9047' 5-1/4° S25E
Drld 9159'-9307' Survey @9260' 5° S25E
Drld 9307'-9605' Survey @9514' 4-3/4° + S25E
Drld 9605'-9800' Survey @9720' 4-1/2° S29E
Drld 9800'-10041' Survey @9920' 4-1/2° S19E
Drld 10041'-10115' Survey @10048' 4-1/2° S19E
Drld 10115'-10460' Survey @10320' 4-1/2° S23E
Drld 10460'-10540' Survey @10481' 3-3/4° S21E
Circ & condition hole to run, 9-5/8" intermediate casing, make up 9-5/8" 8Rd float equip, install centralizers, started in hole picking up 9-5/8" casing, Ran, set and cemented a total of 249 jts 9-5/8" 47# RS-95 8RL R-3 A, 9-5/8" 43.5# RS-95 8RL R-3, A, 9-5/8" S-95 8RL R-3 A, 9-5/8" 43.5# S-95 BUTT R-3 A casing with float shoe @10,538' & FC @10,451'. RU BJ Hughes Cmt equip. circ capacity of 9-5/8" casing with full returns reciprocated casing while circ, no problems. Pumped 909 sx BJ light cmt with 1/4# sx celloflake SW=13.6 ppg yield 1.54 cuft/sx followed with 400 sx Class G with .3% R-5 SW=15.9 ppg, yield 1.4 cuft/sx followed w/5 bbl fresh water spacer. Full returns while mixing and pumping cement, bumped plug w/3500 psi and holding. Released pressure no flow. Plug down @8 p.m. 2-19-84. Hung off 9-5/8" casing w/385000# on slips 95% of total wt. Install wellhead and BOP equip and test blind rams pipe rams, kill lines valves, choke lines, choke line valves to 5000 psi test shaffer spherical to 3M psi, OK. PU 8-1/2" bit, TIH to and test casing to 2500 psi for 15 min. Drld FC, 20' cmt @10,450'-10,470', pressure test casing to 2500 psi for 15 min OK.

Drld cement float shoe and 2' of cement, pump pill and TOH to log, Ran CET log primary estimated top of cement @8720', Ran GR/CNL 6383'-10,538' Rigged down Sch. RU SES to log, Run velocity Survey RD SES TIH w/bit test shoe to 13# eqiv mud for 1/2 hr. Held OK no bleed off. Drld 10,542'-10,643' Survey @10,624' 3-3/4° S20E, Drld 10,643'-10,802' Survey @10,752' 3-1/2° S18E. 2-29-84 Drlg @10,898'.

Drld to 11783' (Twin Creek Formation) cond hole for 7-3/4" casing liner. Ran total 31 Jt of 7-3/4" casing and hanger equipment. Tagged btm 11783', liner top @10382' 156.21' overlap in 9-5/8" csg. B. J. Hughes pumped 281 sx cement (SW= 15.9#, Yield = 1.15 cuft/sx) displaced with 249 bbl mud (3% overdisplacement) Bumped Plug @ 8:35 p.m. 3-11-84 w/2000 psi. TOH w/liner running tool LD tool, PU bit broke circ and tagged top of liner hanger @10381'. No indication of cmt. Tagged up on top of cmt @11681', drld cmt. 11681-11733 (52') Drld wiper plug and landing collar 11733-11762. One half hour test landing collar and float collar to 1000 psi, OK. Drld cement and shoe 11762'-11783' (21'). Drilling @ 13,232' 3-31-84.

Directional Surveys as follows:

10931	4-1/4	S22E	12955	4-3/4	S18W
11090	4-1/2	S27E	13055	6	S6E
11208	4-1/2	S33E	13157	8-1/2	S26E
11427	4-1/2	S35E	13218	8-1/2	S32E
11808	3-1/4	S2E	13310	6-3/4	S13E
12221	11	S55W			
12221	11+	S53W			
12312	11-1/4	S58W			
12343	11	S57W			
12405	10-3/4	S62W			
12468	10-1/4	S64W			
12562	9-3/4	S68W			
12650	9-3/4	S68W			
12710	9	S72W			
12770	8-1/4	S60W			
12835	5	S57W			
12895	4	S48W			
12895	4	S48W			

Drld. 13,323' to 13,421' MU DST tools for DST #1. Set packers @13,380 and 13,387, test interval 13,387 to 13421. Packers failed to hold. RD DST, TIH with bit, condition hole and drill 15'. PU DST tools and set packers at 13,393 and 13,400, (Nuggett Formation) Test interval 13,393-13,436'. Sample chamber recovery 2800 cc SW w/trace of oil and gas 29,000 ppm C-1, no free oil or rat hole mud. TIH with bit and drilled to 13,669', condition hole for DST, set packers at 13,638.53' and 13,643.60', Test formation Nugget, test interval 13,679-13,643'. Packers failed 10 min into test. TIH with bit, circ and cond hole for DST. Set packers 13,623.60' and 13,618.90'. Test interval 13,623 to 13,679. Pulled packers loose, COOH recovered 4 1/2 bbl water cushion, 33 1/2 bbl clear water, 38000 ppm chlorides. TIH with bit and drld 13,679-13798, condition hole for logs. Schlumberger ran DIL, Litho Density, CNL and Dipmeter, Loggers TD 13,722. RU Geo Pioneer and ran velocity. TIH opened to set cmt plug, set 1st plug 11,900-11,700', 45 sx Class "H" with .2% R-11 Yield 1.05 cuft/sx, SW=16.5 ppg with 20 bbl of water ahead and 5 bbl water behind plug. POOH 16 stands set 2nd plug 10,400-10,200 72 sx Class "H" with .2% R-11 Yield 1.05 cuft/sx SW=16.5 ppg w/39 bbl of water ahead 5 bbl water behind plug. POOH 36 stands RU LD machine LD 5" and 3 1/2" DP, ND BOP stack. PU 9-5/8" Tri-State spear and packoff. RU Petro log free point and lubricator. Pulled 480,000# on 9-5/8" casing, could not pull slips. Welder cut off 9-5/8" csg below slips in casing head. Run in hole with free point, 9-5/8" casing free at 5880'. RU Jet cutter and cut 9-5/8" casing at 5822' ground level and pulled a total of 5858' of 9-5/8" casing TIH opened and set cmt plug at 5940-6600 with 225 sx Class "H", Yield 1.05 cuft/sx SW=16.5 ppg with 36 bbl water ahead and 5 bbl water behind. TOH 42 stands and set cmt plug 1800-2000' with 155 sx Class "H" cement, Yield 1.05 cuft/sx, SW=16.5 ppg, Pumped 36 bbl water ahead and 5 bbl water behind. Pulled 4 stands, LD DP and set cmt plug 304'-4' (ground level depth) with 233 sx Class "H" with 2% CaCl, Y=1.05 cuft/sx, SW=16.5 ppg, 5 bbl water ahead and 2 bbl water behind. LD 11 jt DP, clean out cellar, cutt off well head, install dry hole marker, clean pits and released rig at 1 a.m. 4-24-84.

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

August 1, 1984

Amerada Hess Corporation
P.O. Box 2040
Tulsa, Oklahoma 74102

Attention: J. R. Wilson

Gentlemen:

SUBJECT: Well No. Federal B M #1, Sec. 24, T. 3N, R. 7E., Summit County, Utah; API #43-043-30234

This letter is to advise you that the "Well Completion or Recompletion Report and Log", Form OGC-3, for the subject well is due and has not been filed with this office as required by our rules and regulations.

Rule C-5 states that within ninety (90) days after the suspension of operations on, abandonment of, or the completion of any well drilled for the production of oil and/or gas, and within ninety (90) days after the completion of any further operations on the well, if such operations involved drilling deeper or drilling or redrilling any formation, a well log shall be filed with the Commission on a form prescribed by the Commisiion, (Form OGC-3), together with a copy of the electric and radioactivity logs, if run.

Enclosed are the necessary forms for your convenience in bringing this well into compliance with the aforementioned.

Your prompt attention to this matter will be greatly appreciated.

Sincerely,

Claudia L. Jones

Claudia L. Jones
Well Records Specialist

clj

Enclosure

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

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

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

October 23, 1984

CERTIFIED

2nd NOTICE

Amerada Hess Corporation
P.O. Box 2040
Tulsa, Oklahoma 74102

Gentlemen:

Re: Well No. Federal B M #1 - Sec. 24, T. 3N., R. 7E., Summit County, Utah - API #43-043-30234

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

Please complete the enclosed Form OGC-3 and forward it to this office as soon as possible.

**You are in violation of the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to this matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.

Respectfully,

Norm

Norman C. Stout
Administrative Assistant

clj
Enclosure
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
00000010/1

Form OGC-3

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

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

56 64 01 14

7-8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other Plug & Abandon

2. NAME OF OPERATOR: Amerada Hess Corporation

3. ADDRESS OF OPERATOR: Drilling Services. P.O. Box 2040, Tulsa, Oklahoma, 74102

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1143' FSL, 1637' FWL (SE SW)
At top prod. interval reported below
At total depth 590' FSL, 1980' FWL (C/SE SW)

5. LEASE DESIGNATION AND SERIAL NO.: U-23463
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Federal BM
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec 24-T3N-R7E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
43-043-30234	6-14-83	Summit	Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
10-25-83	4-12-84	P.&A	7625 ungraded	NA

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
13798MD	Surface	---	→	0-TD	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: yes

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dipmeter, Long Spaced Sonic, DIL, Litho Density CNL, C Ez C

27. WAS WELL CORED: No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	133#&106½#	1194	26"	2700 sx 50/50 poz, 2%Gel	None
13-3/8, 13½	68,72,81.40	6382	17½	1507sx 35.65 poz, Class G	none
9-5/8	47, 43½	10538	12¼	1309 sx BJ lite, Cls G	5858

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7-3/4	10381	11783	281 sx	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

RECEIVED
NOV 01 1984
DIVISION OF OIL GAS & MINING

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

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

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

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

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

DST 2-4

Exhibit A Cement plugs. Drill stem test and logs were mailed to State of Utah from Denver offic

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

SIGNED J. R. Wilson J. R. Wilson TITLE Supervisor Drlg Admin Serv DATE 10-31-84

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

INSTRUCTIONS

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

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

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

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.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
BEAR RIVER (Cretaceous)	6200'	
PREUSS (Jurassic)	10,485'	
TWIN CREEK	11,735'	
NUGGET	13,371'	

STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

March 13, 1985

Amerada Hess Corporation
218 West Sixth Street
Tulsa, Oklahoma 74102

Gentlemen:

Re: Well No. Federal B M #1 - Sec. 24, T. 3N., R. 7E
Summit County, Utah - API #43-043-30234

According to our records a "Well Completion Report" filed with this office October 31, 1984 on the above referred to well indicates the following electric logs were run: Dipmeter and Log Spaced Sonic. This office has not yet received these logs.

Please take care of this matter as soon as possible, but not later than April 13, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

Pam Kenna

Pam Kenna
Well Records Specialist

CLJ/clj
CC: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0123S/14