FILE NOTATIONS

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

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

COMPLETION DATA:

Date Well Completed .....

..... WW..... TA.....
..... OS..... PA.....

Location Inspected .....

Bond released
State or Fee Land .....

LOGS FILED

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

7-10-92 JCF

ENVIROTEK

1645 Court Place
Denver, Co. 80202 • Suite 235 • (303) 573-9593

January 3, 1979

Mr. Ed Guynn
District Engineer
U.S.G.S.
8440 Federal Bldg.
Salt Lake City, Utah 84138

Re: Forest Oil Corporation
Sigurd Unit # 1
Sevier County, Utah

Dear Mr. Guynn:

Enclosed please find the Application for Permit to Drill the above referenced well. When we requested permission to stake this well, Natural Resources Corporation was going to operate. Since that time, Forest Oil Corporation has been designated as operator.

The lease has an expiration date of February 1, 1979. We are therefore requesting that an onsite inspection be set up for the week of January 8, 1979, if at all possible. This will allow for approval of the location, as well as the building of the location.

The Designation of Operator from Chevron (they own the lease in question) is included. If any additional information is needed, please advise.

Very truly yours,

Kathy Patterson

Kathy Patterson

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-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Sigurd Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 14, T22S,R1W

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

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER W/C SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Forest Oil Corporation

3. ADDRESS OF OPERATOR: 821 17th Street
700 Colorado Federal Bldg.- Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 392' FWL ~~2634~~ 2862' FNL Sec. 14 T22S, R1W NW SW
At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 4.5 miles Southeast of Aurora, Utah

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 397'

16. NO. OF ACRES IN LEASE: 1267

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

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

19. PROPOSED DEPTH: 8900'

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5408 GR.

22. APPROX. DATE WORK WILL START*: February 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	500'	To surface
8 3/4"	5-1/2"	15.5 & 17#	8900'	350 sacks

OK WTM

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 J. E. Snyder TITLE Div. Drilling & Prod. Mgr. DATE January 2, 1979

(This space for Federal or State office use)

PERMIT NO. 43-041-30018 APPROVAL DATE

APPROVED BY W. P. Martin TITLE ACTING DISTRICT ENGINEER DATE JAN 16 1979

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Oil and Gas Drilling

EA No. 164-79

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-30650

Operator Forest Oil Corporation Well No. 1

Location 392' FWL & 2862' FNL Sec. 14 T. 22S R. 1W
NW¼ SW¼

County Sevier State Utah Field Wildcat

Status: Surface Ownership Private Minerals Federal

Joint Field Inspection Date January 15, 1979

Participants and Organizations:

Chuck Horsburgh	Bureau of Land Management-Richfield
Rod Lee	Bureau of Land Management-Richfield
Kathy Patterson	Envirotek
Jim Jackson	Forest Oil Corporation
George Diwachak	U.S. Geological Survey

Related Environmental Analyses and References:

(1) Unit Resource Analysis - North Sevier Planning Unit (05-02) BLM, Richfield

(2)

Pvt Sur
Pad 300 x 300
Pit 100 x 150
100' new access
upgrade 4/10 mi exist rd
Flowline not incl.
Stockpile topsoil
2.2 ac

Analysis Prepared by:

George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date: January 16, 1979

JAN 16 1979

Proposed Action:

On January 3, 1979, Forest Oil Corporation filed an Application for Permit to Drill the No. 1 exploratory well a 8500-ft. oil and gas test of the Twin Creek and Navajo-Nugget Formations; located at an elevation of 5408 GR ft. in the NW¼ SW¼ Section 14, T. 22 S., R. 1W. on Federal mineral lands and Private surface; Lease No. U-30650. There was no objection raised to the wellsite nor to the access road. Access may follow an alternate route following upgraded haul roads maintained and utilized by the surface owner, U.S. Gypsum Company. See attached map for the alternate route.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the USGS District Office in Salt Lake City, Utah and the USGS Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with U.S. Gypsum Company, the controlling surface owner. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency, BLM, Richfield District, would be consulted for technical expertise on those arrangements. Put Sur

The operator proposes to construct a drill pad 300 ft. wide x 300 ft. long and a reserve pit 100 ft. x 150 ft. A new access road would be constructed 18 ft. wide x 100 ft. long. Approximately 0.4 miles of existing road would require upgrading to an 18 ft. width from a maintained U.S. Gypsum haul road

The operator proposes to construct production facilities on the disturbed area of the proposed drill pad.

If production is established, plans for a gas flowline would be submitted to the appropriate agencies for approval. The anticipated starting date is January 19, 1979 and duration of drilling activities would be about 98 days.

Location and Natural Setting:

The proposed drillsite is approximately 4.5 miles SE of Aurora, Utah, the nearest town. A fair road runs to within 0.4 miles of the location. This well is a wildcat.

Topography:

The topography of the general area consists of rugged low hills characteristic of the eastern front of the Wasatch Plateau. Location topography is relative-

flat to gently sloping surrounded by resistant knolls, characteristic formation of the Arapien shale.

Geology:

The surface geology is Arapien shale. The soil is arid clays. No geologic hazards are known near the drillsite. Seismic risk for the area is minor based on historic evidence. Anticipated geologic tops are filed with the 10-Point Subsurface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate.

Soils:

No detailed soil survey has been made of the project area. The top soils in the area are a clay type soil. The soil is subject to runoff from rainfall and has a moderate runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon, juniper association is also present.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 2.2 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

Precipitation:

Annual rainfall should range from about 8 to 11" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy storms. This type of storm is rather uncommon as the normal annual precipitation is around 8".

Winds are medium and gusty, occuring predominately from southwest to northeast. Air mass inversions are seasonal occuring frequently in winter. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

Drainage from the location is through intermittent washes to the Sevier River.

A culvert, with size determined by the BLM would be required on the drainage located immediately west of the proposed drill pad.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is

normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Vegetation:

Location vegetation consists of a sparse covering of juniper, sagebrush, rabbitbrush, saltbrush and native grasses.

Plants in the area are of the salt-desert-shrub types grading to the pinon-juniper association.

Proposed action would remove about 2.2 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

Wildlife:

The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrow, magpies, crows, and jays.

A regional animal and plant inventory has been made by the BLM. Soils derived from the Arapien shale provide favorable conditions for Townsendia Aprica an endangered forb, however, there are no reported occurrences at the proposed site. No endangered animal species are known to habitat at the project area.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance has been completed Appropriate clearances have been obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are a few occupied dwellings in the Lost Creek area, approximately 2 miles north of the proposed location. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Sevier County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface owner's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is on private surface within the North Sevier Planning Unit(05-02). This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes

generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

(1) Not approving the proposed permit--the oil and gas lease grants the lessee the exclusive right to drill for, mine, extract, remove and dispose of all oil and gas deposits. Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and sub-surface would be prevented as much as possible under USGS and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of (oil and gas) should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

(2) Minor relocation of the wellsite and access road or any special, restrictive stipulations or modifications to the proposed program would not significantly reduce the environmental impact. There are no severe vegetative, animal or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately 2.2 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplacable and irretrievable committment of resources would be made. Erosion from the site would eventually be carried as sediment in the Sevier River. The potential for pollution to the river would exist through leaks and spills.

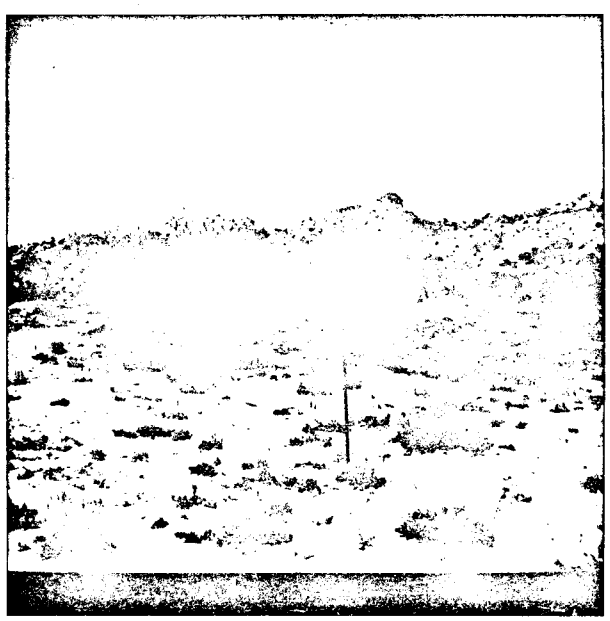
EA No. 164-79

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102(2)(C).

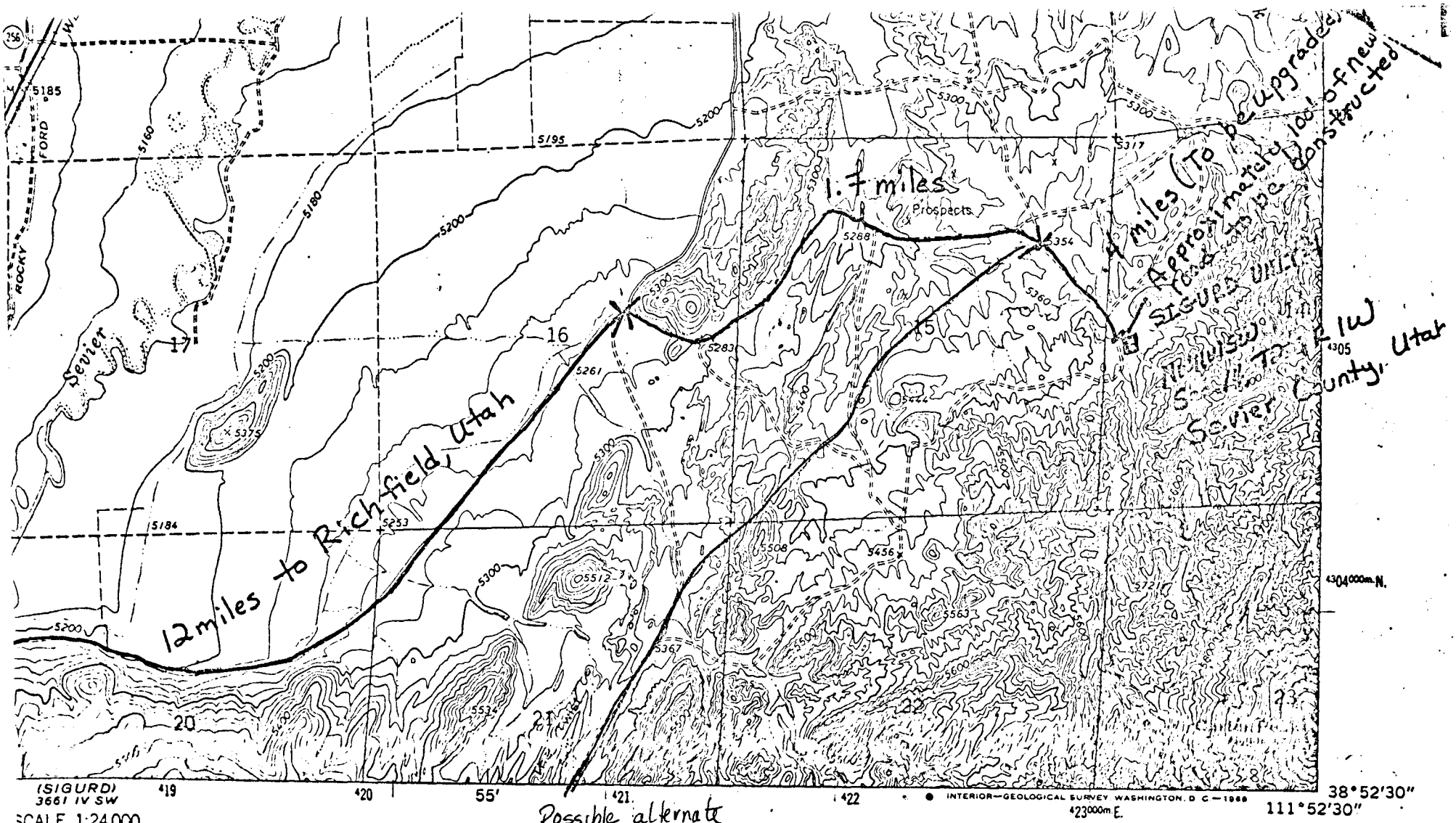
Date 1/16/78

District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



Forest Oil Corp.
#1
Sec 14 22S-1W

E



SCALE 1:24 000

0 — 1 MILE

0 — 1 KILOMETER

R INTERVAL 20 FEET
REPRESENT 10-FOOT CONTOURS
I IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

U. S. Route — State Route

UTAH

QUADRANGLE LOCATION

H NATIONAL MAP ACCURACY STANDARDS
DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
IC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

AURORA, UTAH

N3852.5—W11152.5/7.5

1966

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: Jan. 6 -

Operator: Forest Oil

Well No: Sigurd Unit #1

Location: Sec. 14 T. 22S R. 1W County: Sevier

File Prepared: / ✓ / *Entered on N.I.D.:* / ✓ /

Card Indexed: / ✓ / *Completion Sheet:* / ✓ /

API NUMBER: 43-041-30018

CHECKED BY:

Administrative Assistant LW

Remarks: No other wells - Township

Petroleum Engineer M

Remarks:

Director

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: [ ] *Survey Plat Required:* [ ]

Order No. [ ] *Surface Casing Change to* [ ]

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

O.K. Rule C-3 [ ] *O.K. In* Sigurd *Unit* [✓]

Other:

Request Unit Agreement

[✓] ~~Letter Written~~/Approved

Attn:

ENVIROTEK

1645 Court Place
Denver, Co. 80202 • Suite 235 • (303) 573-9593

January 4, 1978

RECEIVED
JAN 8 1979
DIVISION OF
GAS, & MINING

State of Utah
Division of Oil & Gas & Mining
1588 W. North Temple
Salt Lake City, Utah 84116

Re: Forest Oil Corporation
Sigurd Unit # 1
Sevier County, Utah

Gentlemen:

Enclosed please find two (2) copies of the above referenced Application for Permit to Drill. Please be advised that there is a lease expiration date of February 1, 1979. Your prompt attention to this matter would be appreciated.

We are also requesting an exception to the distance a well is required to be from a lease line. It is necessary due to the topography of the area.

If additional information is needed, please advise.

Very truly yours,

Kathy Patterson

/kp

Enclosures

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-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Sigurd Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 14, T22S,R1W

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

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER W/C SINGLE ZONE [ ] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: Forest Oil Corporation

3. ADDRESS OF OPERATOR: 821 17th Street
700 Colorado Federal Bldg.- Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 392' FWL ~~2634'~~ 2862' FNL Sec. 14 T22S, R1W
At proposed prod. zone: same

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 4.5 miles Southeast of Aurora, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 397'

16. NO. OF ACRES IN LEASE: 1267

17. NO. OF ACRES ASSIGNED TO THIS WELL: 160

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

19. PROPOSED DEPTH: ~~8900'~~ 8500'

20. ROTARY OR CABLE TOOLS: Rotary

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

22. APPROX. DATE WORK WILL START*: February 1, 1979

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48#	500'	To surface
8 3/4"	5-1/2"	15.5 & 17#	~~8900'~~ 8500'	350 sacks

1-23 Requested Copy of Sigurd Unit Agreement - J.W.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: 1-23-79
BY: Cleon B. Feight

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 J. E. Snider TITLE Div. Drilling & Prod. Mgr. DATE January 2, 1979

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

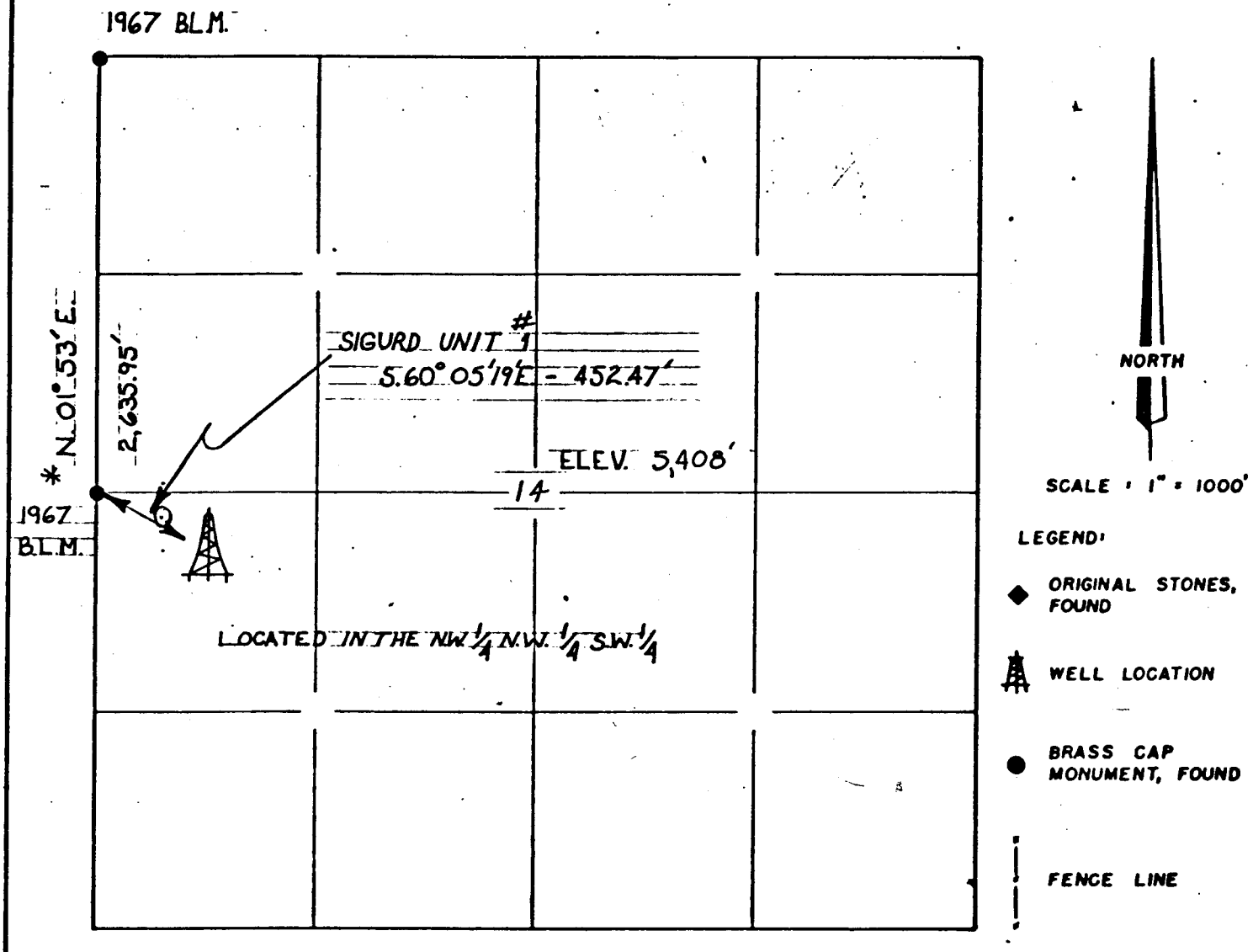
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

WELL LOCATIO PLAT

SEC. 14 T. 22 S. R. 1 W.

SALT LAKE BASE & MERIDIAN



*BASIS OF BEARING: G.L.O. BEARING FROM ORIGINAL SURVEY

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE ABOVE INDICATED MONUMENTS WERE FOUND, AND THAT THE ABOVE INFORMATION REPRESENTS A FIELD SURVEY DONE UNDER MY RESPONSIBLE CHARGE.

Robert A. Morrison

REGISTERED LAND SURVEYOR NO. 4262

REGISTERED LAND SURVEYOR
No. 4262
ROBERT A. MORRISON
STATE OF UTAH

SERVING THE ENERGY INDUSTRY

VALLEY ENGINEERING, INC.

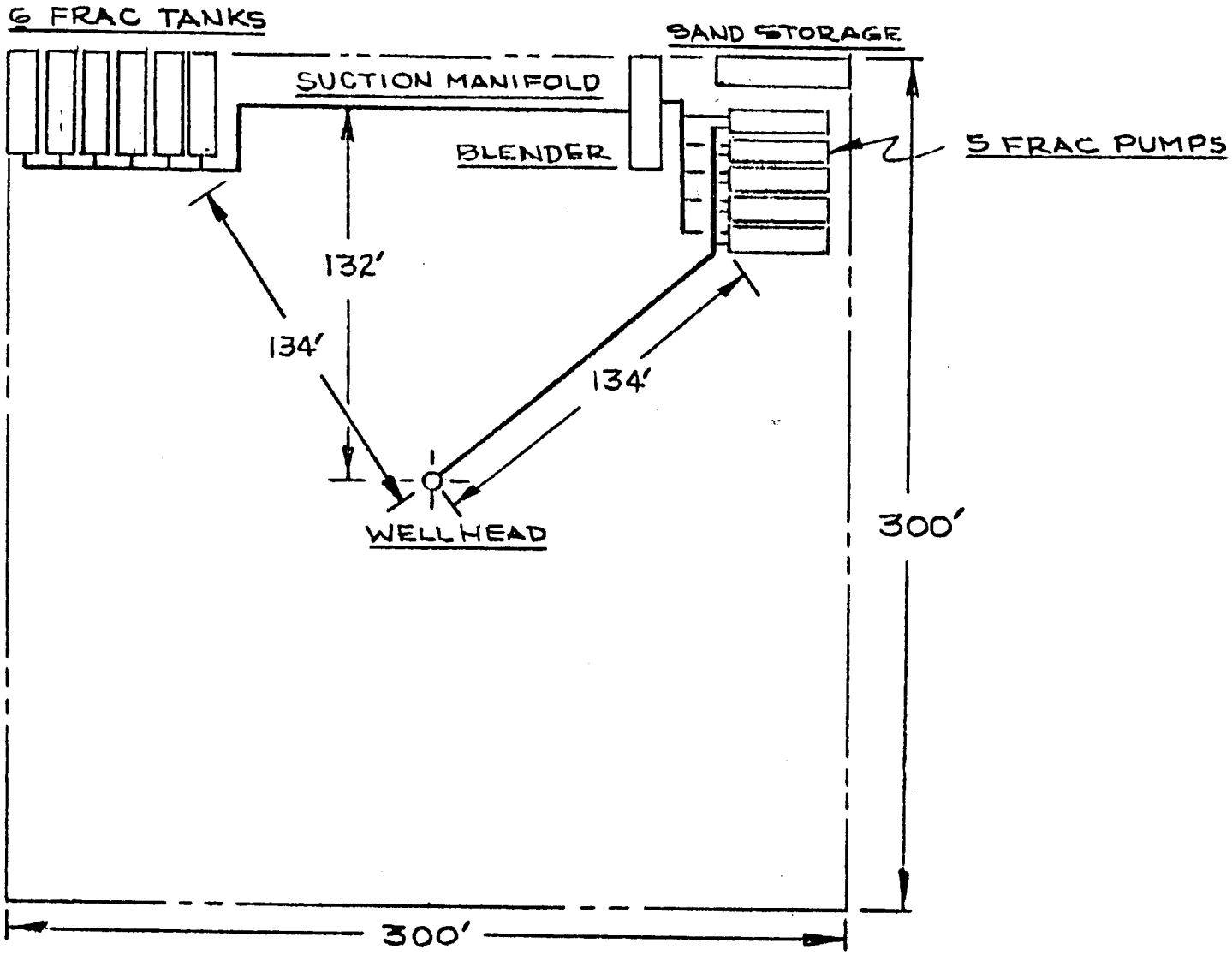
INDUSTRIAL SURVEYORS

801-621-1335

CLIENT: ENVIROTEK

1645 COURT PLACE - DENVER, COLO. 80202

DATE	PROJECT NO.	P.O. NO.
12-22-78	30,086.01	



FRAC DIAGRAM

SCALE: 1" = 60'	APPROVED BY: ENVIROTEK	DRAWN BY REC
DATE: 12-29-78		REVISED

WELL NO. SIGURD UNIT #1 ; LEASE U-30650

LOCATION: SEC 14 TWP 22S RANGE 1W

FOREST OIL CORPORATION

DRAWING NUMBER

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT

BY [illegible] DATE [illegible] SUBJECT [illegible] SHEET NO. 1 OF 1

CHKD. BY ✓ DATE

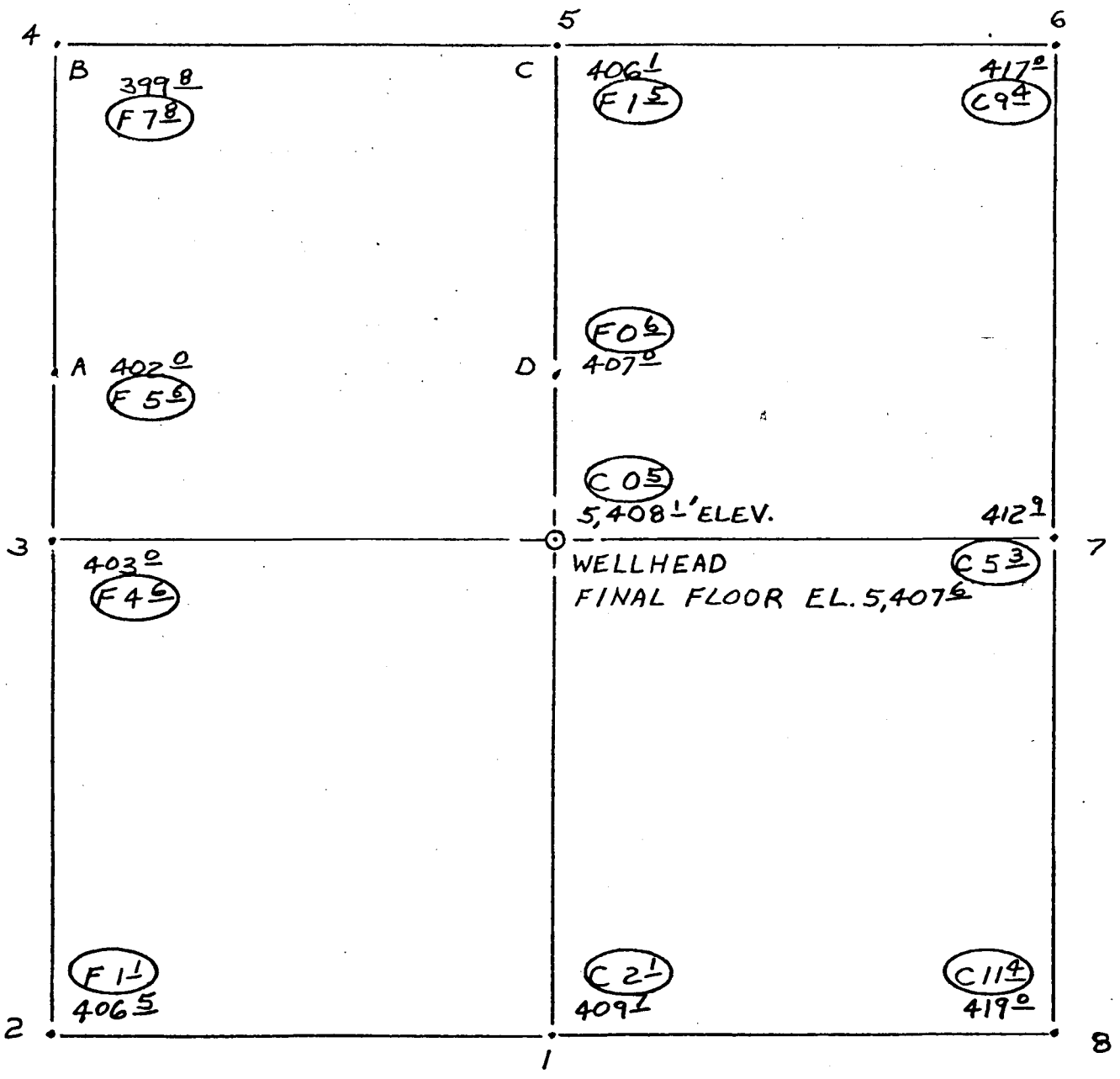
SIGURD UNIT #1 WELL
CUT SHEET

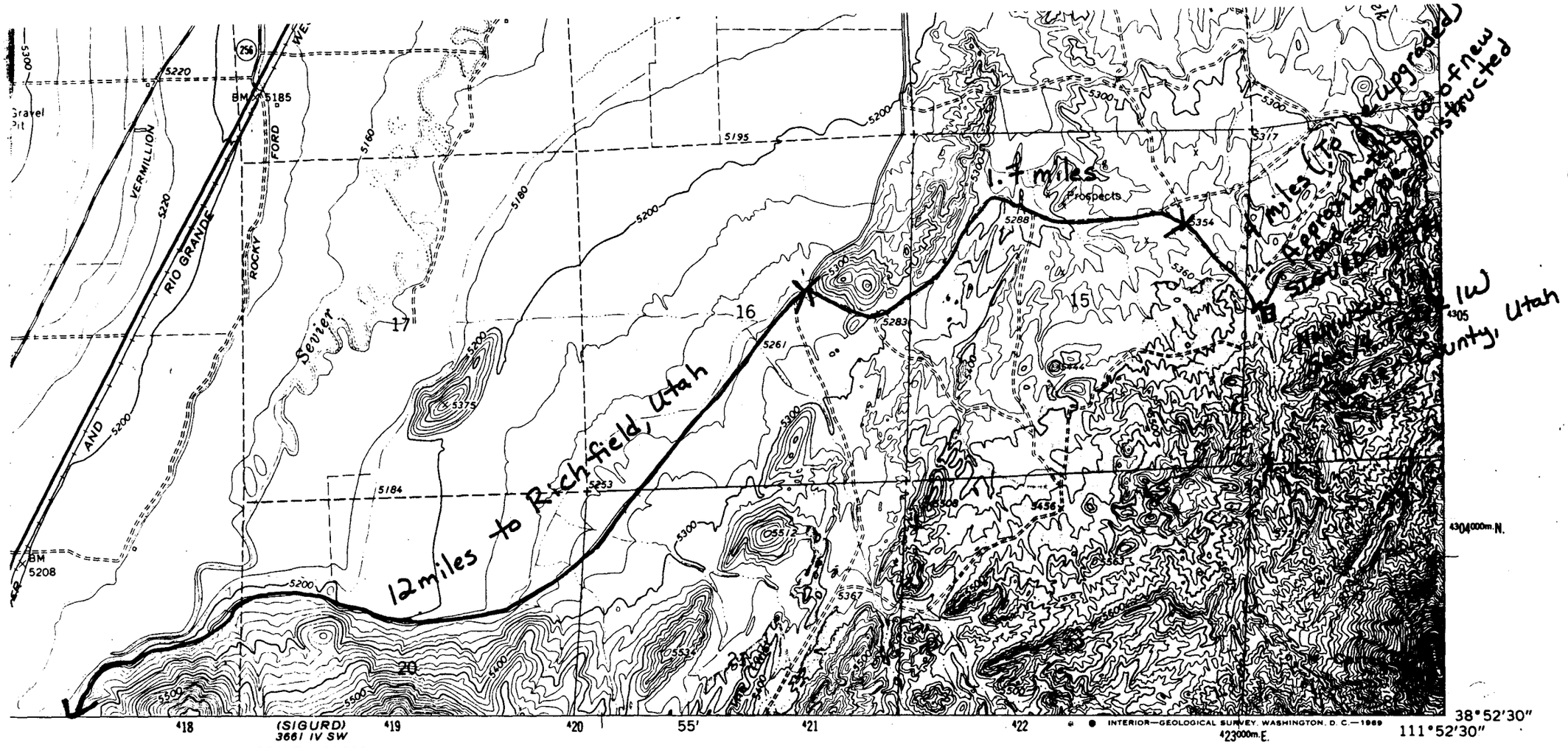
JOB NO. 30,086.01

VALLEY ENGINEERING, INC.
830 North Main
Richfield, Utah 84701

1" = 50'

LOCATED IN THE NW¼, NW¼, SW¼, SEC. 14, T.22S., R.1W., S.L.B. & M., 9 MILES N.E. OF SIGURD, UTAH.





SCALE 1:24 000

1 MILE

7000 FEET

1 KILOMETER

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

ROAD CLASSIFICATION

Heavy-duty
Medium-duty
Light-duty
Unimproved dirt
U. S. Route
State Route

UTAH

QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

AURORA, UTAH

N3852.5—W11152.5/7.5

1966

AMS 3661 IV NW—SERIES V897

13 POINT SURFACE USE PLAN

FOR

WELL LOCATION

FOREST OIL CORPORATION
Sigurd Unit #1

LOCATED IN

Section 14, T22S - R1W

Sevier County, Utah

1. Existing Roads

To reach the proposed Forest Oil Corporation location in Section 14, T22S - R1W, Sevier County, Utah, take the road which proceeds along the north end of Rocky Ford Reservoir. This road will follow the base of the mountains. Proceed northeast along this road for approximately 3.2 miles. There is an unimproved dirt road which circles on the South end of a butte. Proceed along this road to the fork. Turn left and proceed approximately 1.7 miles. There is a road which turns right. Take this road and proceed approximately .4 miles to the location which is on the east side of the road.

The last .4 mile of road will have to be upgraded in order to bring the equipment to the location. There will be approximately 100' of road to be constructed to the location site.

2. Planned Access Road

The maximum grade of the new road will be 1%. The maximum width will be 18'. No turnouts are required. No gates or cattleguards will need to be installed, nor will any fencelines have to be rerouted.

Since the road is on U.S. Gypsum property, they have requested that any new roads and upgrading of existing roads be left in their upgraded condition.

3. Location of Existing Wells

#1 Sigurd Unit (Abandoned) C NESE Sec. 32, T22S, R1W
Standard of California
#13-31 U.S.A. (Abandoned) NWSW Sec. 31, T22S, R1W
Champlin Petroleum

4. Location of Existing and/or Proposed Facilities

A. Facilities Owned or Controlled by Operator within a One Mile Radius:

1. No tank batteries are owned or controlled by operator.
2. No production facilities are owned or controlled by operator.
3. No oil gathering lines are owned or controlled by operator.

4. No gas gathering lines are owned or controlled by operator.
5. No injection lines are owned or controlled by operator.
6. No disposal lines are owned or controlled by operator.

B. Contemplated Facilities in the Event of Production:

1. Location of tank battery will be on drilling location.
2. The tank battery will be approximately 100' x 150.
3. The tank battery will be constructed using a bulldozer to level site, backhoes to dig trenches and bury lines, and pole trucks, floats, and roustabout crews to manuever and set facility equipment. Construction materials will consist of surface soil and gravel or shale as needed.
4. In order to protect livestock and wildlife, pits will be fenced and flagged. A pumping unit, if installed, will be fenced. Recycle pumps, if any, will be enclosed. A treater house will be erected.

C. Rehabilitation Plans:

Areas disturbed, but no longer needed for operations will be bladed to approximate original contours and reseeded with a seed mixture required by the Bureau of Land Management.

5. Location and Type of Water Supply

Water will be acquired from the Sevier River. It will be purchased from Mr. Doug Harwood.

6. Source of Construction Materials

A. Construction materials will be obtained as much as possible from the actual location.

B. The surface is Bureau of Land Management.

C. If additional materials are needed, they will be purchased from a private source.

D. No access roads for construction materials are necessary.

7. Methods for Handling Waste Disposal

A. Cuttings not retained for evaluation purposes will be dumped in the reserve pit.

B. Drilling fluids will be retained in the mud tanks or reserve pit.

C. Produced water will be dumped to the reserve pit. Produced oil will either be collected in tanks or dumped to the reserve pit, depending on volume and occurrence. If the volume of oil is sufficient, it will be trucked from location.

D. A portable toilet will be provided, and human waste will be buried after the operations are concluded. Sewage from trailer, if any, will be collected.

E. Combustible materials will be burned in a fenced burn pit. Other waste materials will be collected in a fenced waste pit. Both pits will be covered at the conclusion of operations.

8. Ancillary Facilities

No camps or airstrips will be constructed. Portable trailers will be parked on the drilling location in area shown on the Rig Plat.

9. Well Site Layout

See attached location layout sheet. The BLM District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When Drilling activities commence, all work shall proceed in a neat and orderly sequence.

Also see attached layout for frac operation.

10. Plans for Restoration of Surface

Upon completion of operation, and if well is to be abandoned, the location will be backfilled, leveled, and contoured to as nearly the original topography as is feasible. Any waste material which can be buried without causing environmental damage will be collected and buried in the burn/or reserve pit. Any other waste will be taken to a sanitary landfill for disposal. During drilling operations the reserve pit will be fenced on three sides. Only the rig side will remain unfenced. The remaining side will be fenced as soon as the rig equipment is moved to allow fencing crews access. This fence will be kept sheep tight and kept in good repair until final cleanup is undertaken. Any oil on the reserve pit will be removed or overhead flagging installed

to prevent birds from landing. The top soil will be evenly spread over the entire location after contouring is complete. The area will then be reseeded with recommendations from the surface owner and/or BLM. All access roads built by Forest Oil Corporation will be rehabilitated the same as the location.

Ninety days after completion of drilling and completion operation, the surface will be recontoured in such a manner as not to interfere with production activities. Re-seeding, if any needed, shall take place in the fall, or at the instruction of the BLM District Manager.

11. Other Information

The topography of the general area is mountainous. The soil of the area is arid. The major vegetation in the area is sagebrush and other native grasses. There is some scrub cedar which will need to be removed. The fauna of this area consists of deer, rabbits and field mice.

There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site.

12. Lessee's or Operator Representative

Envirotek
1645 Court Place
Denver, CO 80202
(303) 573-9593
Kathy Patterson

Forest Oil Corporation
700 Colorado Federal Bldg.
821 17th St.
Denver, CO 80202
(303) 534-0506
Mr. H.E. Snyder

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Forest Oil Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Forest Oil Corporation

H.E. Snyder

Division Drilling & Production Manager

Forest Oil Corporation

TEN POINT (10) RESOURCE PROTECTION PLAN

Well	:	Sigurd Unit #1
Location	:	Section 14, T 22 S, R 1 W
County & State	:	Sevier County, Utah
Federal Lease Number	:	U-30650

1. Geologic Name of Surface Formation:

Arapien Shale TO 6600'

2. Estimated Tops of Important Geologic Markers:

Twin Creek Limestone	6600'
Navajo - Nugget	7000'
Cayenta Wingate	8200'

3. Estimated Depths of Mineral Bearing Formations:

Of the formations listed above, it is anticipated that the Twin Creek and Navajo Nugget may be oil or gas bearing in this well.

If any water flows are encountered, they will be adequately protected and reported.

4. Casing Program

Surface Casing

13 3/8" 48# K-55 LTC to be set at 500' and cemented

Production Casing

15.5 # & 17# K-55 LTC, to be set 8900' and cemented with 350 sacks

Cement Program

Surface: Cement to surface

Production: 350 sacks Class G

5. Operators Minimum Specifications for Blowout Equipment:

The blowout preventor specifications and schematic is attached hereto as a separate exhibit (Exhibit "A"). BOP to be tested to at least the designed working pressure which in this case is 1000 psi, and such tests shall be run prior to drilling out from under surface pipe and each day thereafter until well has reached total depth.

6. Drilling Fluids:

Depth	Type	Weight	Viscosity	Fluid Loss
0- 500'	Water			
500'-T. D.		8.5-10#	34-38	Less than 10 ml

7. Auxillary Equipment:

A. Kelly Cock.

B. Bit floats will be available

C. Monitoring of mud system will be done with PVT and flow sensor as well as visually.

D. Full opening floor valve with drill pipe thread.

8. Logging Program:

DIL w/Caliper - B/Surface Pipe - Total Depth

Neutron Density w/GR - Surface Pipe - Total Depth

Coring Program : None Planned

DST Program : As needed

9. Abnormal Pressure, Temperature, Potential Hazards:

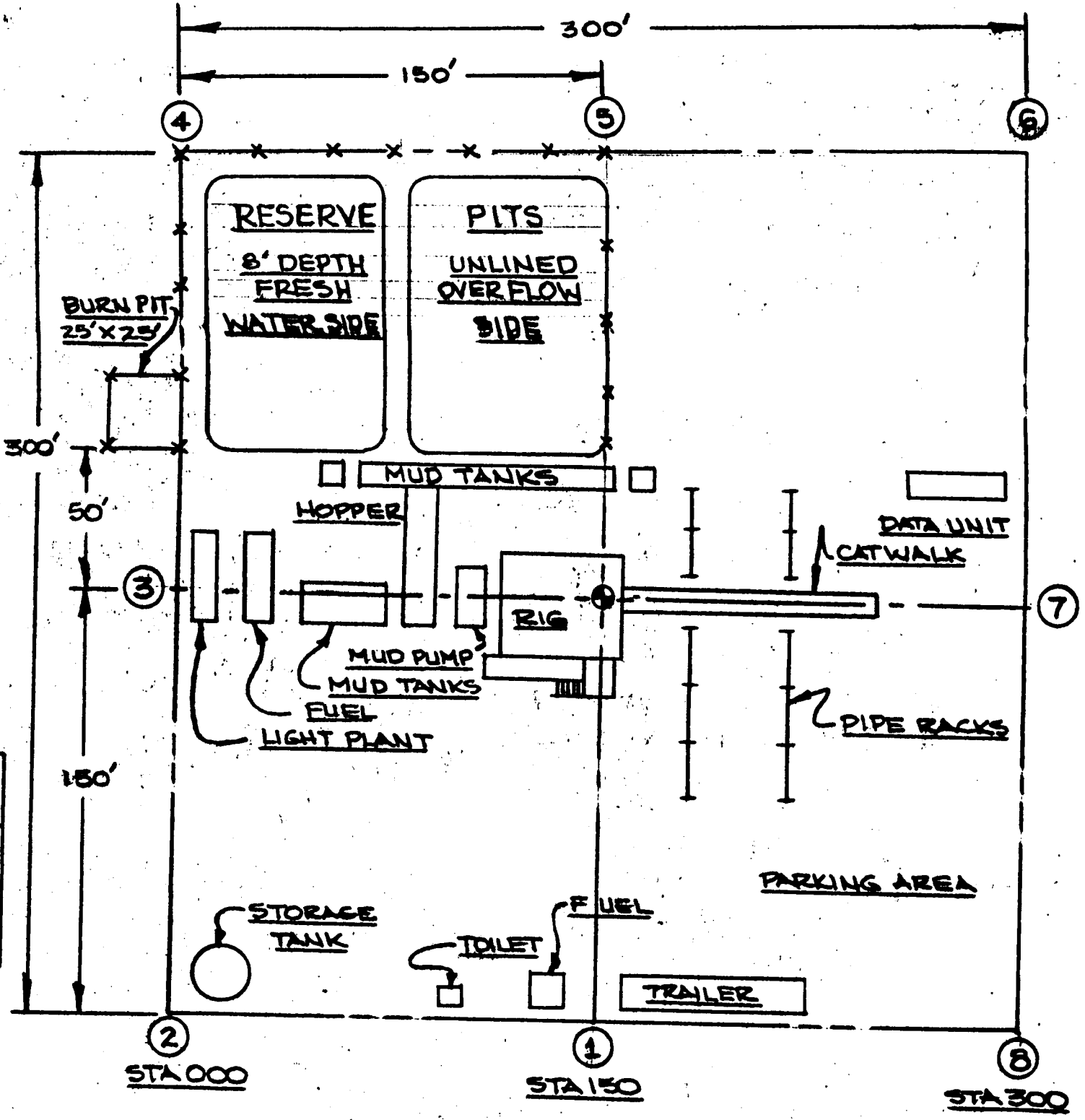
This well is not expected to have any abnormal pressures and the hydrostatic head provided by the 8.5-10.0 # mud weight should be more than adequate to control any sub-surface pressures encountered.

No potential hazards such as H_2S gas is anticipated.

10. Starting Date - Completion:

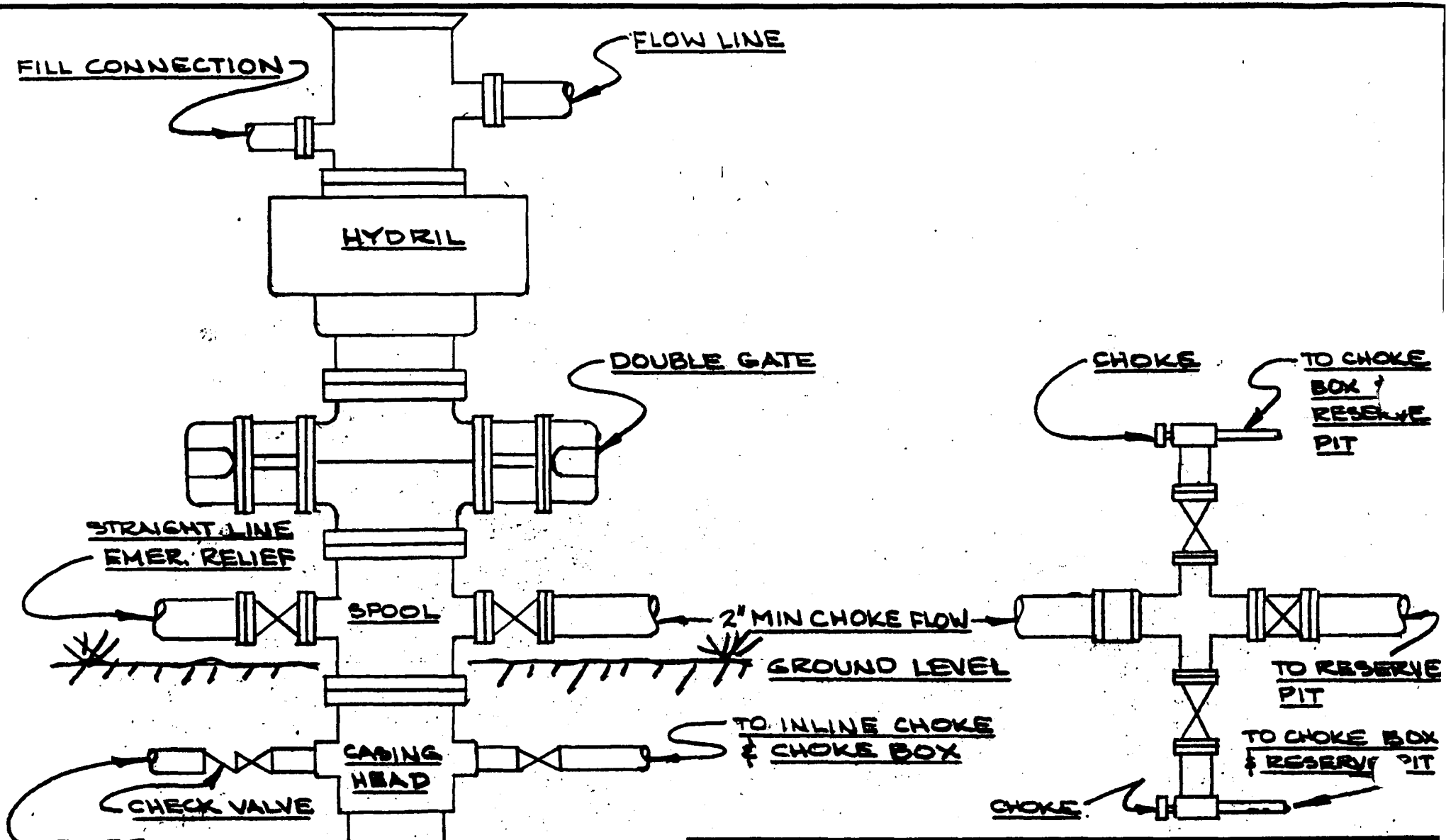
This well must be spudded by February 1, 1979 due to lease expirations. An estimated 21 days will be required for drilling operations.

LOCATION: SEC 14; T22S; RANGE 1W
SIGURD UNIT #1; FEDERAL U-30650
DATE: 1-2-79 | FOREST OIL CORP
SCALE: 1"=50' | BY ENVIROTEK



PT	CUT	FILL
1	21	
2		17
3		45
4		78
5		15
6	93	
7	63	
8	113	
WH	03	

LOCATION LAYOUT



BLOW-OUT PREVENTOR

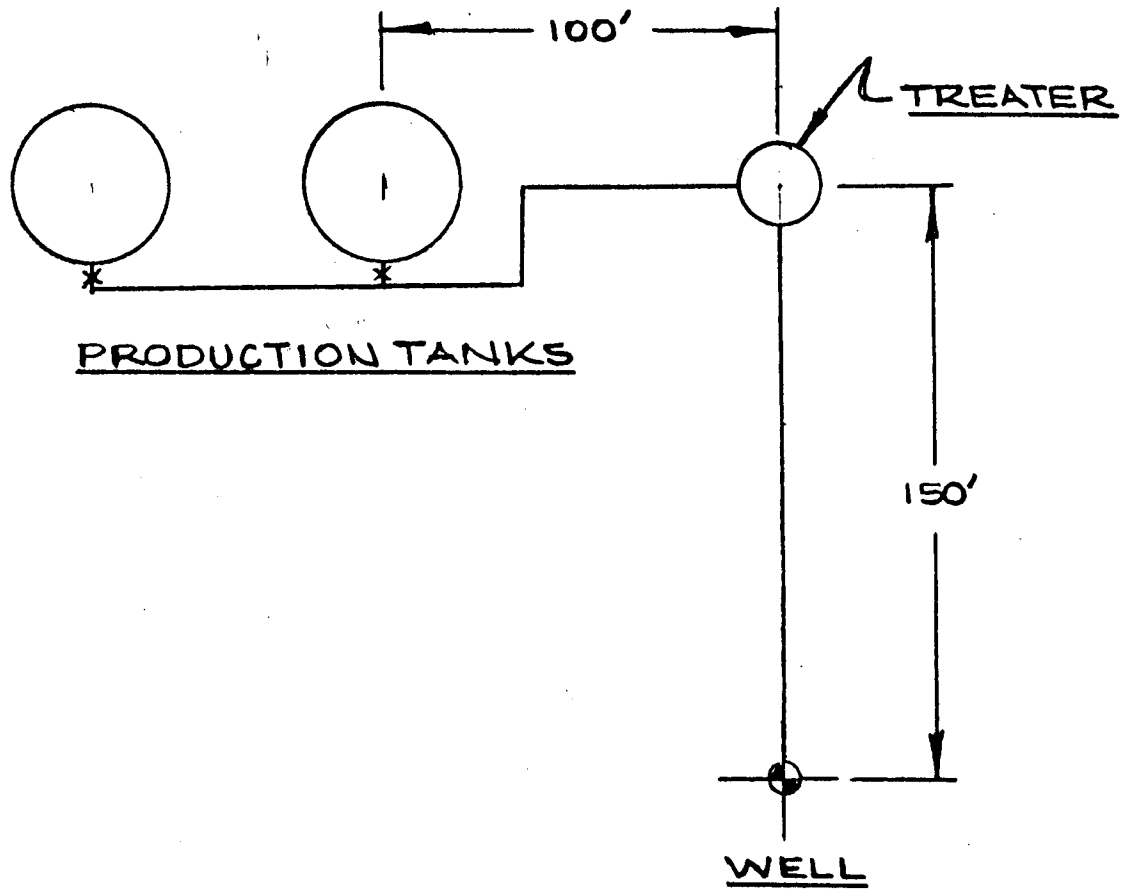
SCALE: NONE	APPROVED BY: ENVIROTEK	DRAWN BY REC
DATE:		REVISED

WELL NO. _____ ; LEASE _____

LOCATION: SEC ____ TWP ____ RANGE ____

DRAWING NUMBER

8½X11 PRINTED ON NO. 1000H CLEARPRINT



PRODUCTION FACILITIES (OIL)

SCALE: 1" : 50"	APPROVED BY: ENVIROTEK	DRAWN BY REC
DATE: 12-29-78		REVISED

WELL NO: SIGURD UNIT #1 LEASE: U 30650

LOCATION: SEC 14 TWP 22S RG 1W

FOREST OIL CORPORATION

DRAWING NUMBER

8½ X 11 PRINTED ON NO. 1000H CLEARPRINT

U. S. GEOLOGICAL SURVEY - CONSERVATION DIVISION

FROM: : DISTRICT GEOLOGIST, ..., SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT LEASE NO. U-30650

OPERATOR: Forest Oil Corporation WELL NO. 1

LOCATION: ___ ¼ SW ¼ NW ¼ sec. 14, T. 22 S., R. 1 W., SLM

Sevier County, Utah

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1. **Stratigraphy:** Operator projected tops appear reasonable. Standard Oil Co. of California well no. 1 Sigurd Unit (section 32 same Twp.) reports top of Navajo SS at 8997.

2. **Fresh Water:** Water wells in the area are shallow (< 500') and any aquifers in the Arapien shale are likely to yield saline water.

3. **Leasable Minerals:** Some salt beds may be encountered in the Arapien, but none are likely to be of economic significance.

4. **Additional Logs Needed:** APD program adequate

5. **Potential Geologic Hazards:** None anticipated.

6. **References and Remarks:** The well is being drilled on lands that were patented as mining claims for gypsum. A possible conflict could result between the proposed drilling and gypsum mining operations. It is not known if the area is being mined at present. REF: USGS Map I-591, UGMS Bull. 43, USGS files, Salt Lake City, Utah

Signature: [illegible] Date: 01 - 04 - 79

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: Wildcat

7. UNIT AGREEMENT NAME: Sigurd (Pending)

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 821 17th St. Denver, Colorado 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
392' FWL, ~~2634'~~ 2862' FNL Section 14, T22S, R1W

Correct location

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 14, T22S, R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5408 ungr.

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	X	(Other)			☐
(Other)			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

The Total Depth of the proposed well will be 8500'

It is also anticipated that it will take 90 days to drill the proposed well, as opposed to the 21 days indicated on the original 13 Point Program.

RECEIVED JAN 18 1979

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

API 43-041-30018

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

SIGNED H. E. Snyder (for) TITLE Div. Drilling & Prod. Mgr. DATE January 10, 1979

(This space for Federal or State office use)

APPROVED BY [signature] TITLE ACTING DISTRICT ENGINEER DATE JAN 16 1979

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions on Reverse Side

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED SUBJEDT TO ROYALTY (NTL-4)

State O&G

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED FEB 13 1979

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

2/9/79 - Drilling @ 1929' 8-3/4" hole

Reamed 17½" hole to 710' K.B. Ran 18 jts - 13-3/8", 48#, H40, Sh T & C new casing 715' set @ 710' K.B. Cemented w/450 sks Howco light cement & 250 sks Class H with ¼#/sk flocele & 2% calcium chloride. Good returns. Plug down @ 10AM, 2/3/79. Bumped plug w/900#.
Tested BOP's, casing & manifold w/1000# Held O.K. on 2/6/79

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

SIGNED L. T. E. Snedden TITLE Div. Drlg. & Prod. Mgr. DATE 2/9/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED FEB 20 1979 DIVISION OF OIL, GAS, & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH
Sevier

13. STATE
Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

2/16/79 - Depth 2910' Drilling. Lime & Siltstone.

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 2/16/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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

RECEIVED FEB 26 1979 GAS, & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
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Section 14 - T22S - R1W

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Wildcat

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Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH
Sevier

13. STATE
Utah

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SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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2/23/79 - Depth 3659' Drilling

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

SIGNED H E Snider TITLE Div. Drlg. & Prod. Mgr. DATE 2/23/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

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2. NAME OF OPERATOR
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8. FARM OR LEASE NAME
Sigurd Unit

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

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

3/2/79 - Depth 4612' Drilling

RECEIVED
MAR 5 1979
DIVISION OF OIL, GAS, & MINING

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

SIGNED L. S. Snider TITLE Div. Drlg. & Prod. Mgr. DATE 3/2/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED MAR 12 1979 GAS, & MIN

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

2. NAME OF OPERATOR: Forest Oil Corporation

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Sigurd Unit

8. FARM OR LEASE NAME: Sigurd Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

3/9/79 - Depth 5440 Drilling

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

SIGNED H. E. Snider TITLE Div. Drlg. & Prod. Mgr. DATE 3/9/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED MAR 19 1979 DIVISION OF OIL, GAS, & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

3/16/79 - Depth 6171' Inspecting BHA

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 3/16/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
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Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

3/23/79 - Depth 7091' Washing & reaming @ 6690'

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 3/23/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

3/29/79 - Depth 7131 Drilling

RECEIVED
APR 2 1979

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

SIGNED F. E. Snyder TITLE Div. Drlg. & Prod. Mgr. DATE 3/29/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

4/5/79 - Depth 7337' Down for rig repairs.

APR 9 1979

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

SIGNED H. Snider TITLE Div. Drlg. & Prod. Mgr. DATE 4/5/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED APR 16 1979 U.S. & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH
Sevier

13. STATE
Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

4/13/79 - Depth 7678' Tripping

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 4/13/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED APR 25 1979 DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

4/20/79 Depth 8360' Drilling

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

SIGNED H. E. Snider TITLE Div. Drlg. & Prod. Mgr. DATE 4/20/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
APR 30 1979
DIVISION OF OIL, GAS, & MINING

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

4/27/79 - Depth 8525' Fishing

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

SIGNED F. E. Snyder TITLE Div. Drlg. & Prod. Mgr. DATE 4/27/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
MAY 7 1979
DIVISION OF OIL, GAS, & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Colo. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH
Sevier

13. STATE
Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐
REPAIR WELL	☐	CHANGE PLANS	☐
(Other) Progress Report			☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
(Other)			☐

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

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

5/4/79 - Depth 8525' Preparing to run 7"OD casing to 8525'

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

SIGNED H. E. Smith TITLE Div. Drlg. & Prod. Mgr. DATE 5/4/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

5/11/79 Depth 8628' Drilling

RECEIVED
MAY 17 1979
DIVISION OF OIL, GAS, & MINING

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 5/11/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
MAY 21 1979
DIVISION
GAS, & M

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

5/18/79 - Depth 9031' Picking up core barrel.

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 5/18/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME: Sigurd Unit

2. NAME OF OPERATOR: Forest Oil Corporation

8. FARM OR LEASE NAME: Sigurd Unit

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			☐
(Other) Progress Report			☐	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

5/25/79 - TD 9080' PBTD - Testing 7"OD casing set @ 8525'.

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 5/25/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Eastman Whipstock
A PETROLANE COMPANY

REPORT of SUB-SURFACE DIRECTIONAL SURVEY

RECEIVED
MAY 29 1979
OIL & MINING

Forest Oil
COMPANY

Sigard Unit #1 Well #1
WELL NAME

Sevier, Utah
LOCATION

JOB NUMBER	TYPE OF SURVEY	DATE
RM579-C0732	Corex	5-19-79

SURVEY BY
Jim Wildemann & Stan Offerle

OFFICE
Rocky Mountain

FORM D-102 R1

CORE ORIENTING LOG

Date 5/18/79

Page 1 of 1

WELL INFORMATION

Company: Forest Oil
Contractor: Brinkerhoff-Signal 32
Well Name: Sigard Unit #1 Well #1
County: Sevier State: Utah
Hole Size: 6" Core Barrel: 4 3/4
Formation Name
Formation Description

PERFORMANCE

Interval Cored: Finish 9051
Start 9031
Footage Cored: 20'
Remarks: Start Cameras 10:47 AM
Start Core 2:40 PM
Pump Pres. - 1500
RPM
SPM

MULTISHOT INSTRUMENT

Make: Eastman Whipstock
Serial No. 1007/3051 & 1006/3048
Clock Interval: 4 Min.
Station Record By: Jim Wildemann & Stan Offerle
Film Read By: Jim Wildemann

CORRECTIONS

Declination 15 Degrees [X] East [ ] West

Azimuth Correction for Declination
East Declination [X] Add to Azimuth
West Declination [ ] Subtract from Azimuth

Reference Groove Correction:
From Above, Groove is 164 Degrees [X] Right [ ] Left of Orientation Lug.
[X] Right Add to Lug Azimuth
[ ] Left Subtract from Lug Azimuth

STATION				DRIFT			ORIENTATION							DIP, STRIKE			REMARKS
No.	Time	Picture No.	Depth	Angle	Direction Magnetic	Direction True	Orienting Lug, Magnetic Direction	Orienting Lug, Magnetic Azimuth	Declin. Corr.	Or. Lug Az. True	Reference Groove Corr.	Reference Groove Az. True	Reference Groove Direction True	Dip Dir.	Dip Angle	Strike	
1	4:28	67	9032														Monel T6447
2	5:12	78	9034														
3	5:48	87	9036	1 1/2	N63E	N78E	S33W	213	15	228	164	32	N32E				
4	6:24	96	9038	1 1/2	N60E	N75E	S49W	229	15	244	164	48	N48E				
5	7:08	107	9040	1 1/2	N58E	N73E	S65W	245	15	260	164	64	N64E				
6	7:48	117	9042	1 1/2	N43E	N58E	N34E	34	15	49	164	213	S33W				
7	8:24	126	9044	1 1/2	N54E	N69E	N46E	46	15	61	164	225	S45W				
8	8:56	134	9046	1 1/4	N50E	N65E	N55E	55	15	70	164	234	S54W				
9	9:32	143	9048	1 1/4	N45E	N60E	N67E	67	15	82	164	246	S66W				
10	10:00	150	9050	1	N50E	N65E	N88E	88	15	88	164	252	S72W				
11	10:48	162	9051	1 1/4	N48E	N63E	S78E	102	15	117	164	281	N79W				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18

90255 10-67 R1

CUSTOMER COPY

SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

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

June 4, 1979

Forest Oil Corporation
700 Colorado Federal Bldg.
821 17th Street
Denver, Colorado 80202

Re: Well No. Sigurd Unit #1
Sec. 14, T. 22S, R. 1W
Sevier County, Utah

Gentlemen:

We are in receipt of your Sundry Notice: "Notice of Intention to Abandon" for the above mentioned well which has been marked "Confidential". Please refer to Rule C-5 (b), General Rules and Regulations and Rules of Practice and Procedure.

In order to hold this information confidential, we must have a letter from your company requesting that this data be withheld from open file. If we do not hear from you by June 25, 1979, we will assume that the information can be released.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

Kathy Avila

KATHY AVILA
RECORDS CLERK

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED JUN 6 1979 DIVISION OF OIL, GAS, & MINING

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Colo. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S - R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

CONFIDENTIAL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

The above decribed well was plugged as follows: TD 9080', 7"casing set at 8525'.

CIBP(cast iron bridge plug) set at 8470' with 3 sacks cement on top of plug. Perforated 7" casing 8370'-8400'. Tested. Recovered water. No oil or gas. CIBP at 7520' w/3 sacks cement on top of plug. Perforated 7"casing 7390'-7420'. Tested. Recovered water. No oil or gas. Set CIBP at 7300' with 3 sacks cement on top of plug. Perforated 7"casing 7210'-7240'. Tested. Recovered water. No oil or gas. Set CIBP at 7150' with 3 sacks cement on top of plug. Set dry hole marker with 10 sacks cement. Rig released at 12 noon, 5/29/79.

The formation from 0' to TD 9080' was Arapien.

CONFIDENTIAL

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 6/4/79

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form 9-330
(Rev. 5-63)

~~CONFIDENTIAL~~

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5

12

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

RECEIVED JUN 15 1979 GAS, & MINING

2. NAME OF OPERATOR: Forest Oil Corporation

3. ADDRESS OF OPERATOR: 700 Colorado Fed. Bld., 821 17th St., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface ~~2412' FSL~~ & 392' FWL 2862' FNL
Sec 14-T22S-R1W
At top prod. interval reported below: same
At total depth: same

5. LEASE DESIGNATION AND SERIAL NO.: U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Sigurd Unit

8. FARM OR LEASE NAME: Sigurd Unit

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 14-T22S-R1W

14. PERMIT NO.: Release dt: 12/29/79 DATE ISSUED:

12. COUNTY OR PARISH: Sevier

13. STATE: 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
1/29/79	5/19/79	P&A 5/29/79	K.B. 5428'	Gr. Elev. 5408'

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
9080'	P&A	P&A	→	0	9080'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: P&A

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction-SP, Density-Neutron-Gamma Ray, Sonic-Gamma Ray & Dipmeter

27. WAS WELL CORED: Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	48	710'	17½"	700 sks	0
7"	26 & 29	8525'	8-3/4"	750 sks	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None		

31. PERFORATION RECORD (Interval, size and number)
8400'-8370' w/2 jets/ft - tested water
7420'-7390' w/2 jets/ft - water
7240'-7210' w/2 jets/ft - water

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
P&A	None	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:

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

SIGNED H E Snyder TITLE Div. Drlg. & Prod. Mgr. DATE 6/12/79

*(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.
Jurassic Arapien	0	9080'	Ls, Ss & Sh Note: Copies of all logs, DST's & cores will be sent directly to your office.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

JOHNSTON

Schlumberger

technical report

RECEIVED
JUN 7 1979

F.R. #13825 D

COMPANY FOREST OIL CORPORATION WELL SIGARD UNIT #1 TEST NO. 3 COUNTY SEVIER STATE UTAH

WELL IDENTIFICATION

COMPANY:	FOREST OIL CORPORATION P.O. BOX 1310 CASPER, WYOMING 82602	CUSTOMER:	SAME
WELL:	SIGARD UNIT #1	LOCATION:	SEC. 14 - T22S - R1W
TEST INTERVAL:	7210' TO 7240'	FIELD:	WILD CAT
TEST NO:	3	TEST DATE:	5-27-79
COUNTY:	SEVIER	STATE:	UTAH
TECHNICIAN:	RICHARDS (VERNAL)	TEST APPROVED BY:	-

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. CASING			DRILL PIPE LENGTH:	6441	FT.
				DRILL PIPE I.D.:	2.60	IN.
ELEVATION:	5408	FT.		DRILL COLLAR LENGTH:	702	FT.
TOTAL DEPTH:	-	FT.		DRILL COLLAR I.D.:	1.78	IN.
MAIN HOLE/CASING SIZE:	7" X 29#	IN.		PACKER DEPTHS:	7174 & 7180	FT.
RAT HOLE/LINER SIZE:	-	IN.			&	FT.
FORMATION TESTED:	ARAPIEN				&	FT.
NET PROD. INTERVAL:	-	FT.		DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	-	%				

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	27	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	2050 CC	.26	72	15500
MUD:	- CC	-	-	
FILTRATE:		-	-	-
TOTAL LIQUID:	2050 CC			

MUD DATA

TYPE:	KCL	
WEIGHT:	8.4	LB/GAL.
VISCOSITY:	-	SEC.
WATER LOSS:	-	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	.04	80	
FILTRATE:	-	-	22600

REMARKS

NO. OF REPORTS REQUESTED: 16 (7X'S)

FIELD REPORT NO. 13825D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	1Ø32	-	1/4
BLOW, 1 1/2" IN WATER			
BLOW, 1" IN WATER	1Ø48	-	"
BLOW DIED	111Ø	-	"
CLOSED FOR INITIAL SHUT-IN	1132	-	"
FINISHED SHUT-IN	1232	-	"
RE-OPENED TOOL	1234	-	"
NO BLOW			
PULLED PACKER LOOSE	1836	-	-

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
WATER	55	Ø.18		1ØØ				.26	68	155ØØ

FIELD REPORT NO. 13825D

PRESSURE LOG

FIELD REPORT NO. 13825D

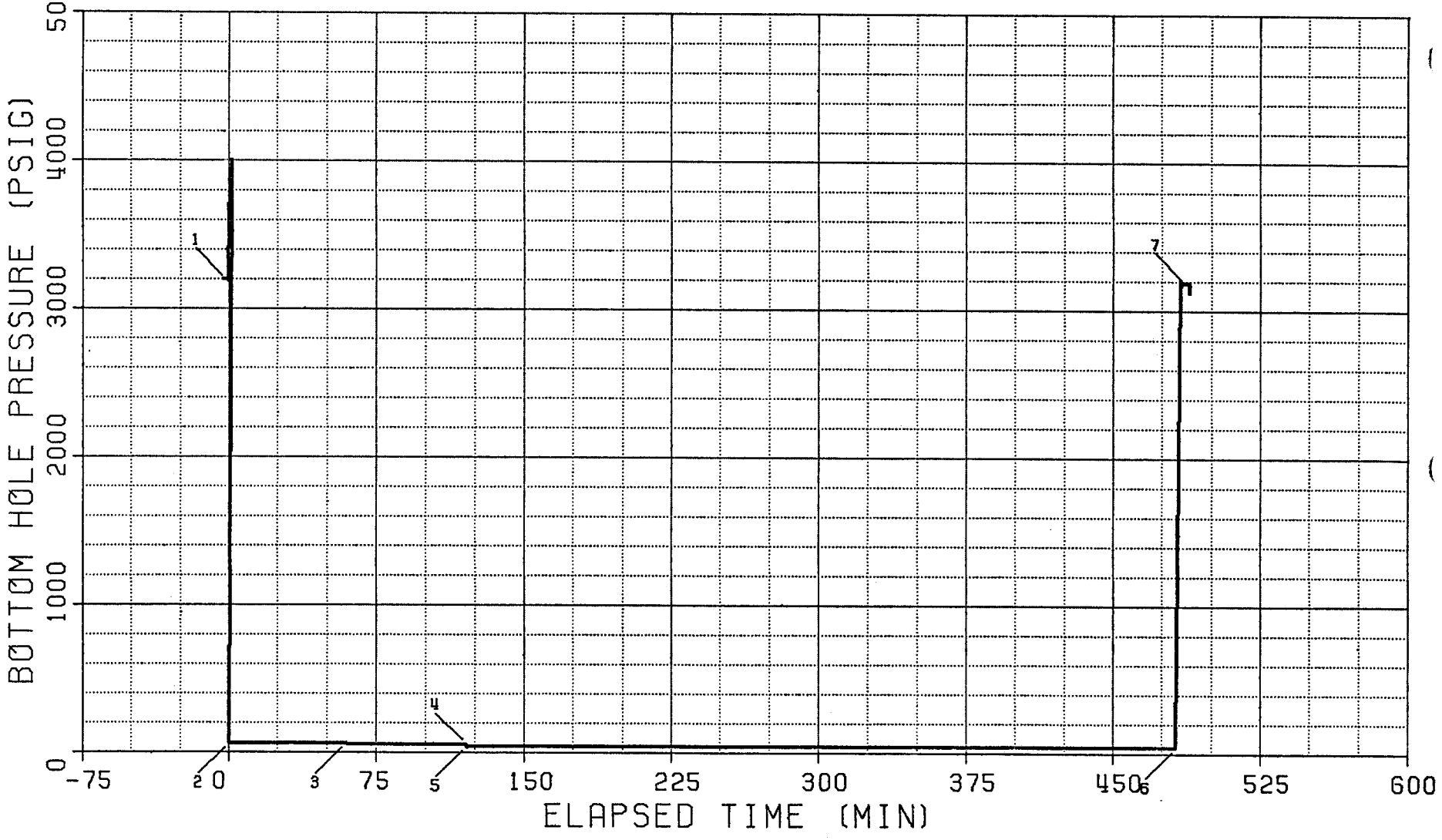
INSTRUMENT:

NUMBER: J-510

CAPACITY: 6400 PSI

DEPTH: 7190 FT

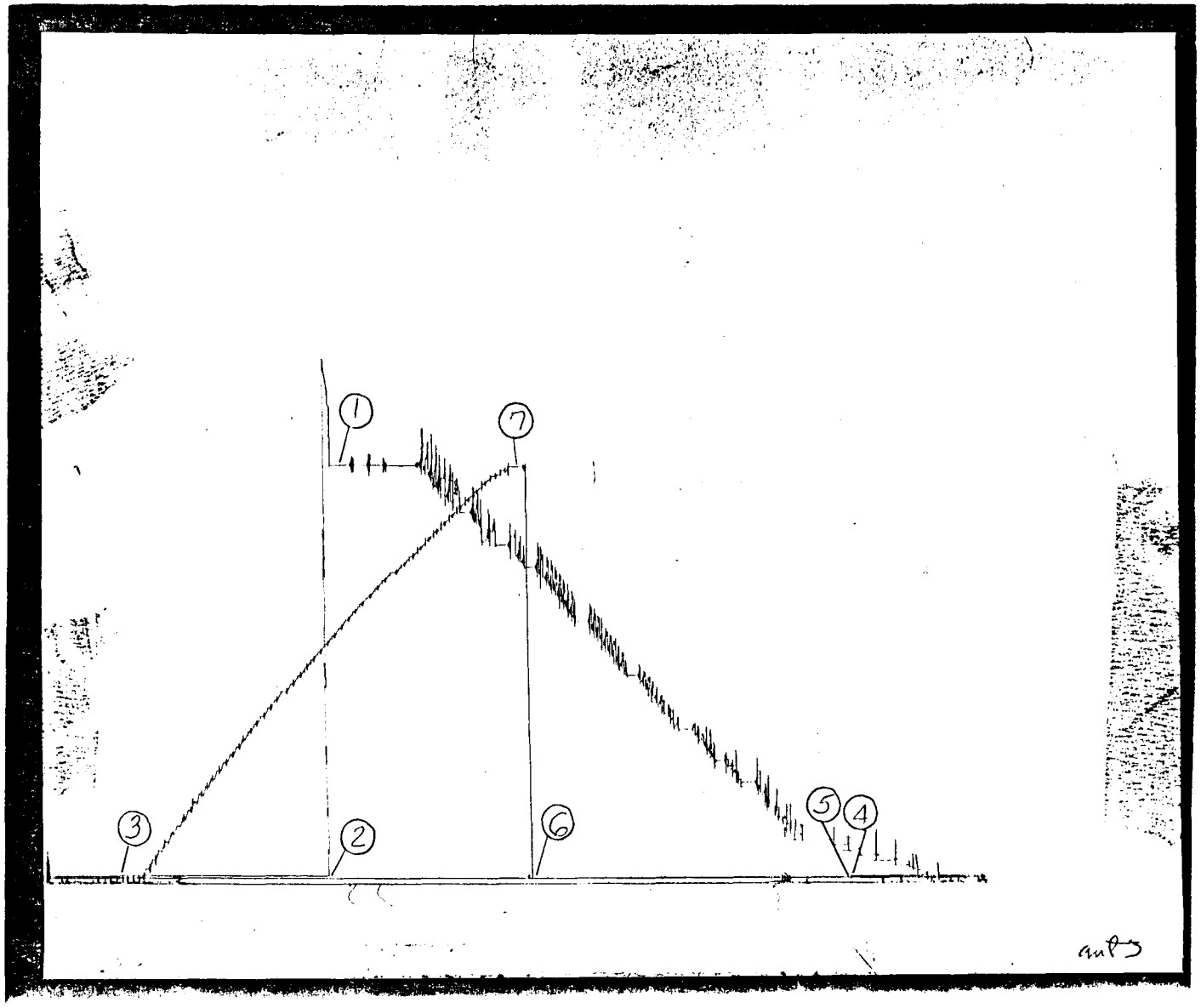
PORT OPENING: OUTSIDE



FIELD REPORT NO.: 13825 D CAPACITY: 6400#

INSTRUMENT NO.: J-510 NUMBER OF REPORTS: 16-

JOHNSTON Schlumberger



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-510 CAPACITY (PSI): 6400 DEPTH (FT): 7190
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 173 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3200	-1.5
START FLOW	2	61	0.0
END FLOW & START SHUT-IN	3	61	60.0
END SHUT-IN	4	58	120.6
START FLOW	5	43	120.8
END FLOW	6	42	482.1
HYDROSTATIC MUD	7	3186	487.0

* SUMMARY OF FLOW PERIODS *

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	60.0	60.0	61	61
2	120.8	482.1	361.3	43	42

* SUMMARY OF SHUT-IN PERIODS *

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN(
1	60.0	120.6	60.6	61	58	61	60.0

FIELD REPORT NO. 13825D
INSTRUMENT NO. J-510

FIELD REPORT NO. 13825D
INSTRUMENT NO. J-510

TEST PHASE : FLOW PERIOD # 1
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	61
30.0	30.0	61
60.0	60.0	61

TEST PHASE : SHUT-IN PERIOD # 1
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 61 PSIG
2. PRODUCING TIME ["T_P"] = 60.0 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
60.0	0.0	61		0
61.0	1.0	57	1.785	-5
62.0	2.0	57	1.491	-5
63.0	3.0	57	1.322	-4
64.0	4.0	57	1.204	-4
65.0	5.0	57	1.114	-4
66.0	6.0	57	1.041	-4
67.0	7.0	57	0.981	-4
68.0	8.0	57	0.929	-4
69.0	9.0	57	0.884	-4
70.0	10.0	57	0.845	-4
72.0	12.0	57	0.778	-4
74.0	14.0	57	0.723	-4
76.0	16.0	57	0.676	-4
78.0	18.0	57	0.637	-4
80.0	20.0	57	0.602	-4
82.0	22.0	58	0.571	-4
84.0	24.0	58	0.544	-3
86.0	26.0	58	0.519	-3
88.0	28.0	58	0.497	-3
90.0	30.0	58	0.477	-3
95.0	35.0	58	0.433	-3
100.0	40.0	58	0.398	-3
105.0	45.0	58	0.368	-3
110.0	50.0	58	0.342	-3
115.0	55.0	58	0.320	-3
120.0	60.0	58	0.301	-3
120.6	60.6	58	0.299	-3

FIELD REPORT NO. 13825D
INSTRUMENT NO. J-510

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
120.8	0.0	43
150.8	30.0	43
180.8	60.0	43
210.8	90.0	43
240.8	120.0	43
270.8	150.0	43
300.8	180.0	43
330.8	210.0	43
360.8	240.0	45
390.8	270.0	44
420.8	300.0	43
450.8	330.0	43
480.8	360.0	42
482.1	361.3	42

JOHNSTON

Schlumberger

computerized data analysis

JUN 7 1979

F.R. #13824 D

COMPANY FOREST OIL CORPORATION WELL SIGARD UNIT #1 TEST NO. 2 COUNTY SEVIER STATE UTAH

Reservoir Engineering Data

JOHNSTON

Recorder No. J-510 Field Report No. 13824 D

Damage Ratio	DR	0.73		Effective Transmissibility TO WATER	$\frac{Kh}{\mu B}$	13.70	$\frac{Md\text{-}ft.}{Cp.}$
Maximum Reservoir Pressure INITIAL SHUT-IN	P_o	3136	P.S.I.G.	Effective Transmissability	$\frac{Kh}{\mu B}$	–	$\frac{Md\text{-}ft.}{Cp.}$
Slope of Shut-in Curve FINAL SHUT-IN	M_1	736	PSI/log cycle	Flow Rate WATER	Q	62	Bbl./day
Potentiometric Surface (Datum Plane, Sea Level)	PS	5272	ft.	Pressure Gradient		0.424	PSI/ft.
Productivity Index	PI	0.026	Bbl./day/PSI	Gas Oil Ratio	GOR	–	CF/Bbl.
Radius of Investigation		60	ft.	K (Effective to WATER)		0.46	Md.

SLOPE M_1= 3078 – 2342 = 736 SLOPE M_2= 3130 – 2271 = 859

Assumptions made for Calculations for Liquid Recoveries

1. Q is averaged at a constant rate.
2. P_f is formation flowing pressure at a constant rate.
3. Formation flow is taken as single phase flow.
   If gas is produced at surface, phase separation is assumed to have occurred in drill pipe.
4. Radial flow is assumed.
5. For the purpose of calculating EDR where specific reservoir parameters are not available it is assumed that:

Effective permeability, K, will fall between	1 to 200 md
Formation porosity, ϕ, will fall between	0.1 to 0.3
Fluid compressibility, c, will fall between	10^{-6} to 10^{-4}
Fluid viscosity, μ, will fall between	0.05 to 50 cp.
Well bore radius, r_w, will fall between	$3\frac{7}{8}$" to $4\frac{3}{8}$"
Which gives an average value for the function log $\frac{K}{\phi\mu c r_w^2}$ of	5.5

6. Other standard radial flow, equilibrium assumptions.

Empirical Equations:

1. $EDR = \frac{P_o - P_f}{M(\log T + 2.65)}$ where $M = \frac{P_1 - P_{10}}{\text{Log Cycle}}$
2. Transmissibility $\frac{Kh}{\mu\beta} = \frac{162.6\ Q}{M}$
3. DST $J = \frac{Q}{P_o - P_f}$ Theoretical $J = \frac{7.08 \times 10^{-3}\ Kh}{\mu\beta \ln (r_e/r_w)}$ Assumed $\ln (r_e/r_w) = 7.60$
4. P.S. = $\left[P_o \times 2.309\ \text{ft./PSI}\right]$ – $\left[\text{Recorder depth to sea level.}\right]$
5. Radius of investigation, $r_i = \sqrt{\frac{Kt}{40\phi\mu c}}$ where t = time in days

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

JOHNSTON
Schlumberger

COMPUTERIZED DATA ANALYSIS

JUNE 6, 1979

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND ADEQUATE SHUT-IN BUILD-UPS DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE HORNER METHOD.

1. FLOW RATE: A TOTAL LIQUID RATE OF 62 BBLS/DAY WAS NOTED DURING THIS TEST.

2. RESERVOIR PRESSURE: EXTRAPOLATION OF THE INITIAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 3136 P.S.I.G. AT RECORDER DEPTH. EXTRAPOLATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 3130 P.S.I.G. AT RECORDER DEPTH. THE DIFFERENCE BETWEEN THE INITIAL AND FINAL SHUT-IN PRESSURE OF 6 P.S.I.G. IS INSIGNIFICANT.

3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 13.7 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO WATER OF 0.46 MD. FOR THE REPORTED 30 FOOT TEST INTERVAL. THE CALCULATIONS WERE BASED ON A SLOPE OF 736 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS THE PRODUCT OF THE WATER'S VISCOSITY AND FORMATION VOLUME FACTOR TO BE 1.0.

4. WELL BORE DAMAGE: THE CALCULATED DAMAGE RATIO OF 0.73 INDICATES THAT A STIMULATED WELL BORE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST.

5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 60 FEET BASED ON AN ASSUMED POROSITY OF 10%, COMPRESSIBILITY OF 4.0×10^{-6}, AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.

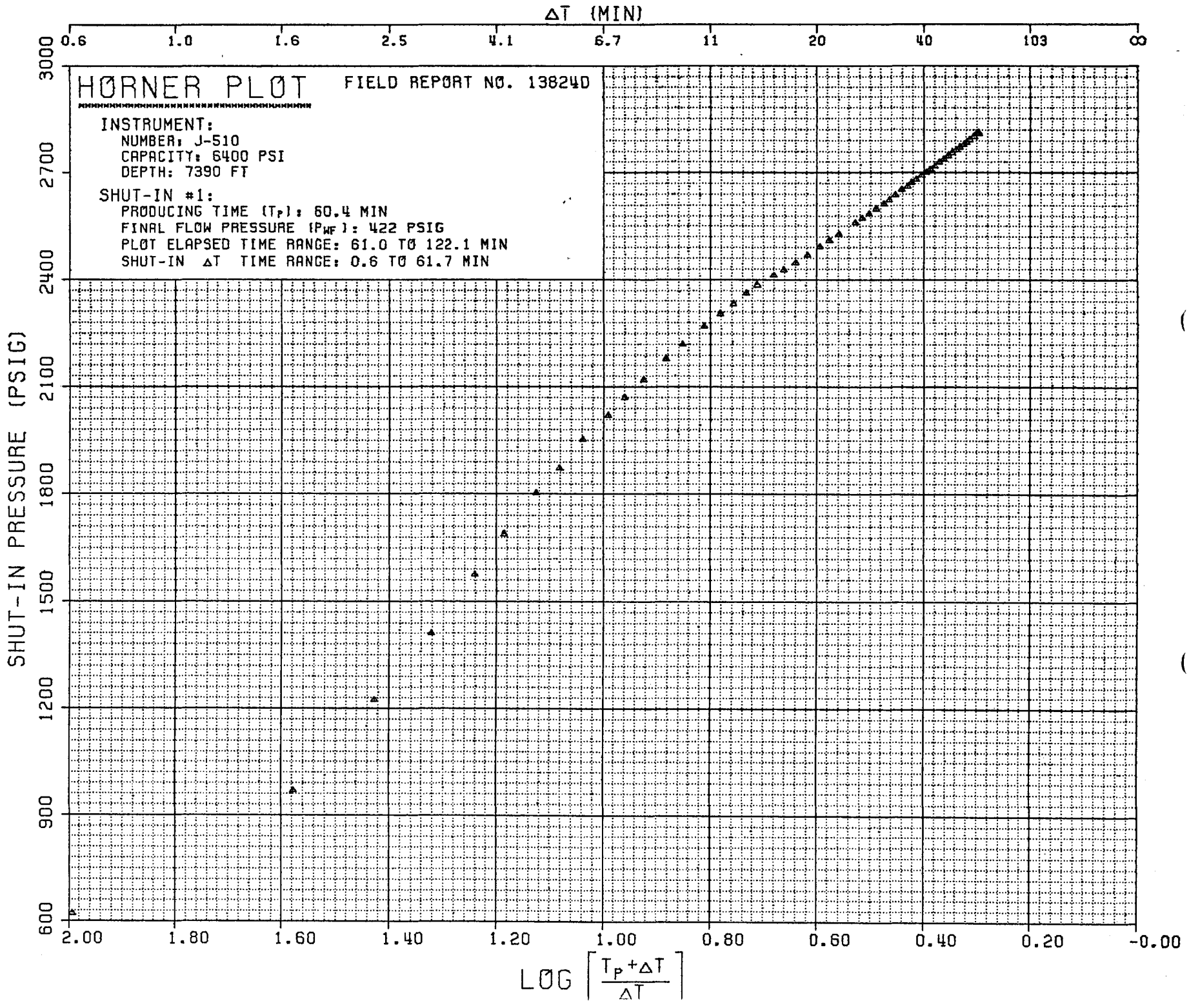
6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE ABSENCE OF WELL BORE DAMAGE. AN ANOMALY WAS NOTED TOWARD THE END OF THE SHUT-IN BUILD-UP PLOT. THIS ANOMALY INDICATED A DECREASE IN TRANSMISSIBILITY AWAY FROM THE WELL BORE.

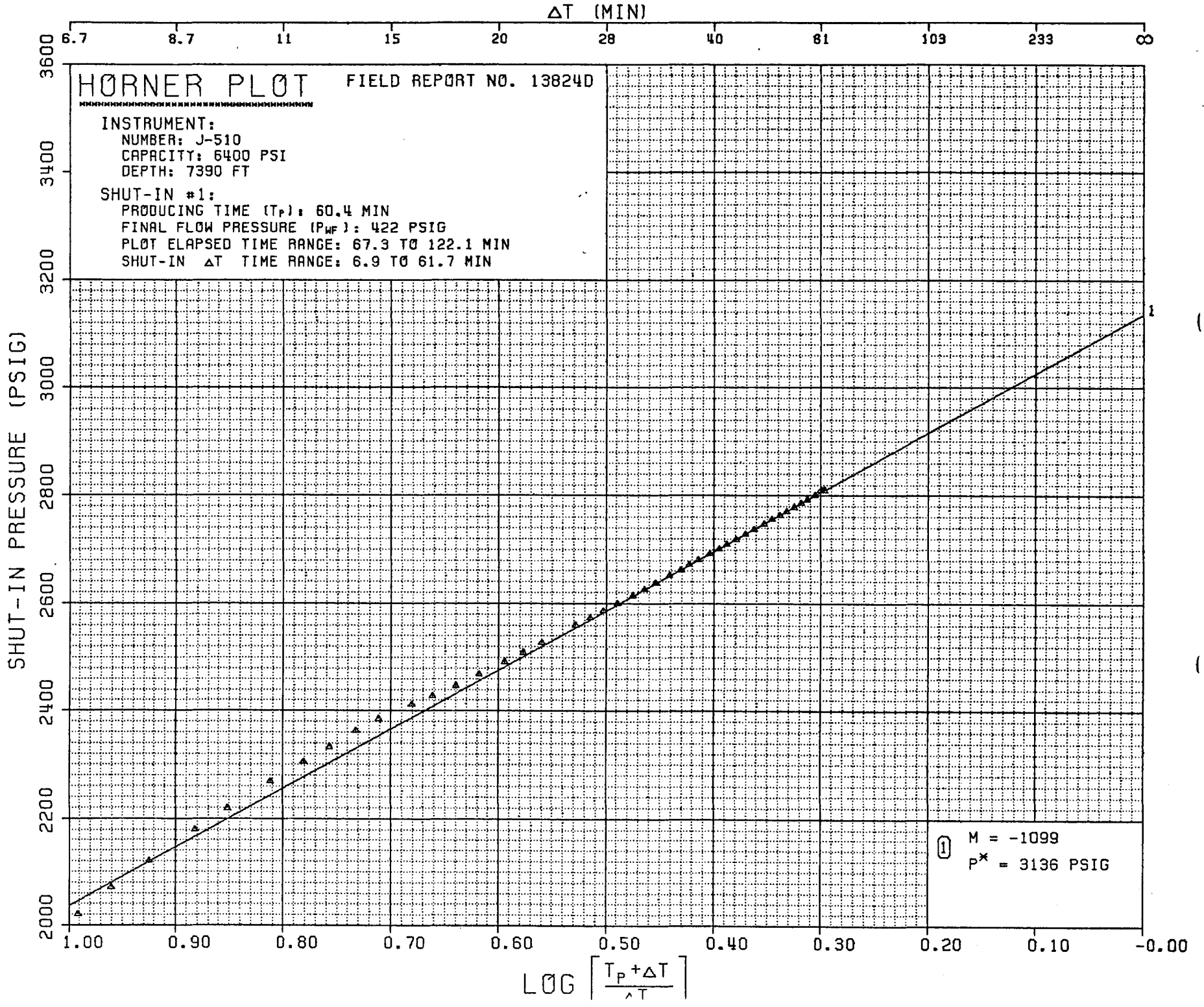
Dennis Myren
DENNIS MYREN
RESERVOIR EVALUATION
DEPARTMENT

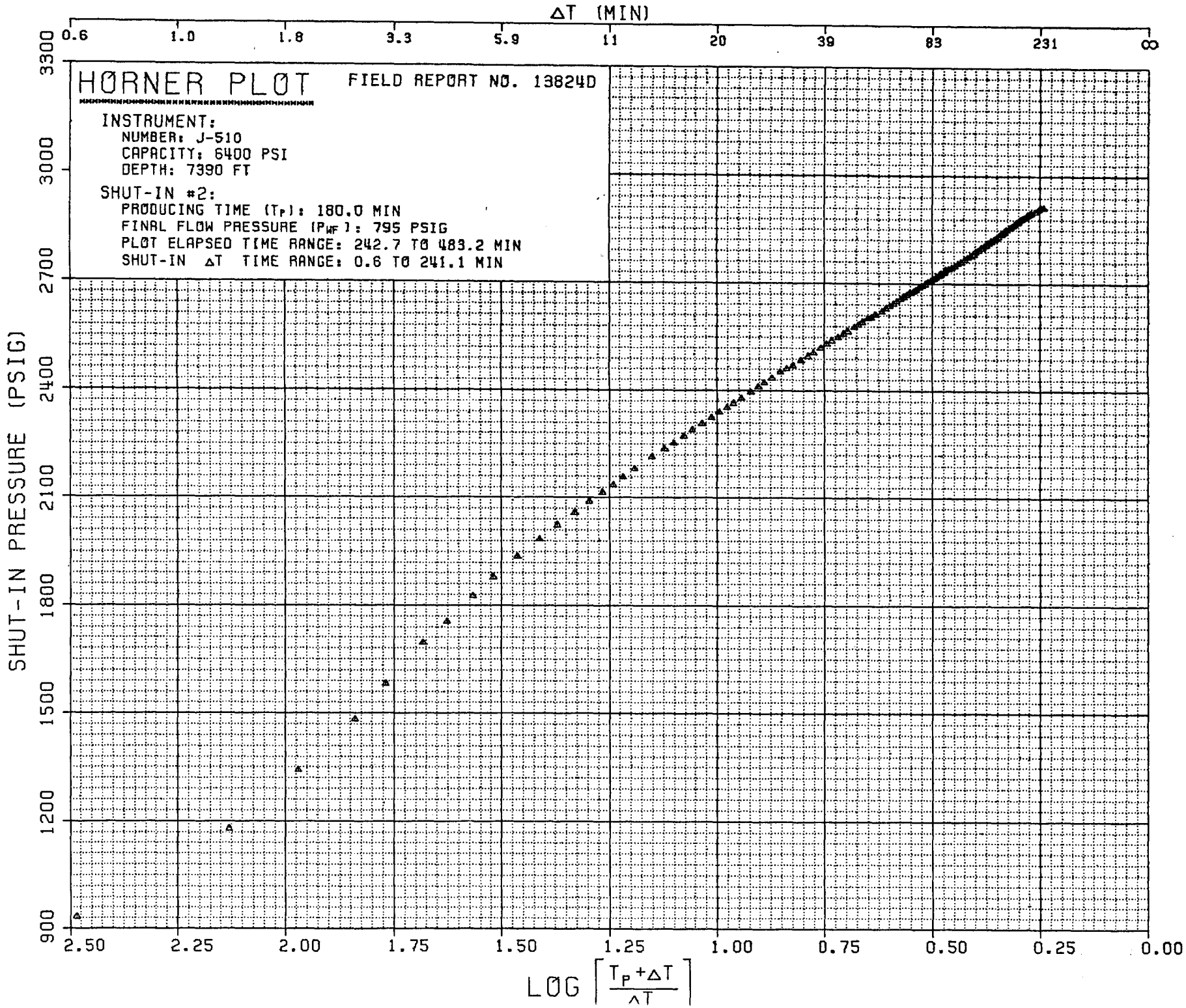
FOREST OIL CORPORATION
SIGARD UNIT #1; SEVIER COUNTY, UTAH
TEST #2; 7390' TO 7420'
LOCATION: SEC. 14 - T22S - R1W

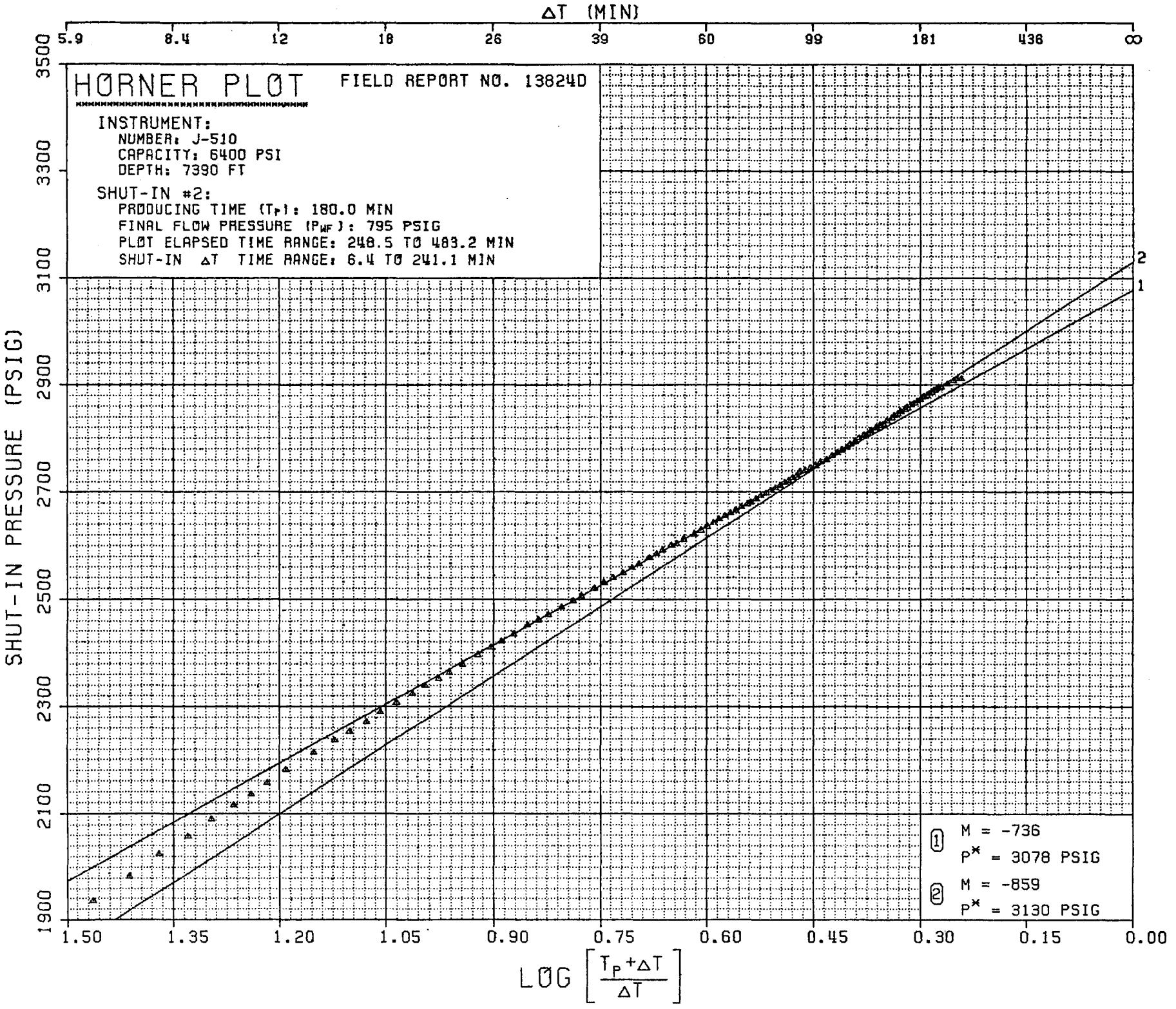
F.R. #13824 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.


HØRNER PLØT
FIELD REPØRT NØ. 138240
INSTRUMENT:
NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 7390 FT
SHUT-IN #1:
PRØDUCING TIME (Tp): 60.4 MIN
FINAL FLØW PRESSURE (PWF): 422 PSIG
PLØT ELAPSED TIME RANGE: 61.0 TØ 122.1 MIN
SHUT-IN ΔT TIME RANGE: 0.6 TØ 61.7 MIN
ΔT (MIN)
0.6
1.0
1.6
2.5
4.1
6.7
11
20
40
103
∞
SHUT-IN PRESSURE (PSIG)
3000
2700
2400
2100
1800
1500
1200
900
600
2.00
1.80
1.60
1.40
1.20
1.00
0.80
0.60
0.40
0.20
-0.00
LØG [(Tp+ΔT)/ΔT]


ΔT (MIN)
6.7
8.7
11
15
20
28
40
61
103
233
∞
HØRNER PLØT
FIELD REPØRT NØ. 13824D
INSTRUMENT:
NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 7390 FT
SHUT-IN #1:
PRØDUCING TIME (Tp): 60.4 MIN
FINAL FLØW PRESSURE (PWF): 422 PSIG
PLØT ELAPSED TIME RANGE: 67.3 TØ 122.1 MIN
SHUT-IN ΔT TIME RANGE: 6.9 TØ 61.7 MIN
SHUT-IN PRESSURE (PSIG)
3600
3400
3200
3000
2800
2600
2400
2200
2000
1
1 M = -1099
P* = 3136 PSIG
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
-0.00
LØG [Tp+ΔT / ΔT]


HØRNER PLØT
FIELD REPORT NØ. 13824D
INSTRUMENT:
NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 7390 FT
SHUT-IN #2:
PRODUCING TIME (Tp): 180.0 MIN
FINAL FLOW PRESSURE (PWF): 795 PSIG
PLØT ELAPSED TIME RANGE: 242.7 TØ 483.2 MIN
SHUT-IN ΔT TIME RANGE: 0.6 TØ 241.1 MIN
ΔT (MIN)
0.6
1.0
1.8
3.3
5.9
11
20
39
83
231
∞
SHUT-IN PRESSURE (PSIG)
3300
3000
2700
2400
2100
1800
1500
1200
900
2.50
2.25
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
LØG [Tp+ΔT / ΔT]


ΔT (MIN)
5.9
8.4
12
18
26
39
60
99
181
436
∞
HØRNER PLØT
FIELD REPORT NØ. 13824D
INSTRUMENT:
NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 7390 FT
SHUT-IN #2:
PRODUCING TIME (Tp): 180.0 MIN
FINAL FLOW PRESSURE (PWF): 795 PSIG
PLØT ELAPSED TIME RANGE: 248.5 TØ 483.2 MIN
SHUT-IN ΔT TIME RANGE: 6.4 TØ 241.1 MIN
SHUT-IN PRESSURE (PSIG)
3500
3300
3100
2900
2700
2500
2300
2100
1900
1.50
1.35
1.20
1.05
0.90
0.75
0.60
0.45
0.30
0.15
0.00
LØG [Tp+ΔT / ΔT]
2
1
1 M = -736
P* = 3078 PSIG
2 M = -859
P* = 3130 PSIG

FIELD REPORT NO. 13824D

INSTRUMENT:

NUMBER: J-510

CAPACITY: 6400 PSI

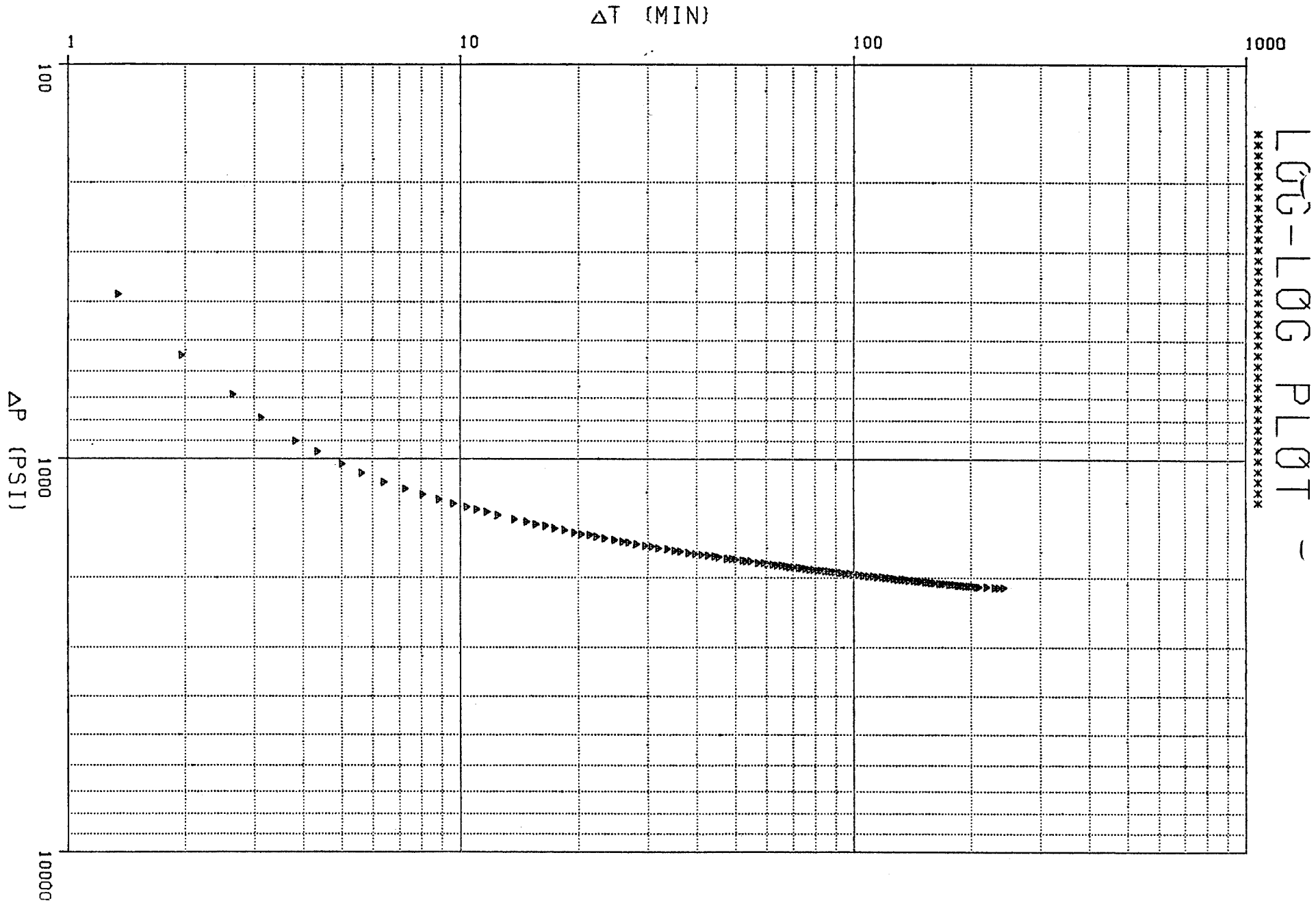
DEPTH: 7390 FT

SHUT-IN #2:

FINAL FLOW PRESSURE (P_{WF}): 795 PSIG

PLOT ELAPSED TIME RANGE: 243.5 TO 483.2 MIN

SHUT-IN ΔT TIME RANGE: 1.3 TO 241.1 MIN



WELL IDENTIFICATION

COMPANY:	FOREST OIL CORPORATION P.O. BOX 131Ø CASPER, WYOMING 826Ø2	CUSTOMER:	SAME
WELL:	SIGARD UNIT #1	LOCATION:	SEC. 14-T22S-R1W
TEST INTERVAL:	739Ø' TO 742Ø'	FIELD:	WILD CAT
TEST NO:	2	TEST DATE:	5-26-79
COUNTY:	SEVIER	STATE:	UTAH
TECHNICIAN:	RICHARDS (VERNAL)	TEST APPROVED BY:	-

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. CASING		DRILL PIPE LENGTH:	6642	FT.
			DRILL PIPE I.D.:	2.6Ø	IN.
ELEVATION:	54Ø8 GR.	FT.	DRILL COLLAR LENGTH:	7Ø2	FT.
TOTAL DEPTH:	-	FT.	DRILL COLLAR I.D.:	1.78	IN.
MAIN HOLE/CASING SIZE:	7" X 29#	IN.	PACKER DEPTHS:	7374 & 738Ø	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	ARAPIEN			&	FT.
NET PROD. INTERVAL:	-	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	1Ø	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	1Ø	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	2Ø5Ø CC	.Ø6	92	216ØØØ
MUD:	- CC	-	-	
FILTRATE:		-	-	-
TOTAL LIQUID:	2Ø5Ø CC			

MUD DATA

TYPE:	KCL	
WEIGHT:	-	LB/GAL.
VISCOSITY:	-	SEC.
WATER LOSS:	-	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	.Ø4	8Ø	
FILTRATE:	-	-	226ØØØ

REMARKS

-

NO. OF REPORTS REQUESTED: 16 (7X'S)

FIELD REPORT NO. 13824D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL	Ø424	-	1/4
BLOW, 4 1/2" IN WATER			
BLOW, 6 1/4" IN WATER	Ø434	-	"
BLOW, 1 3/4" IN WATER	Ø524	-	"
CLOSED FOR INITIAL SHUT-IN	Ø524	-	"
FINISHED SHUT-IN	Ø624	-	"
RE-OPENED TOOL	Ø626	-	"
BLOW, 1/2" IN WATER			
BLOW, 1 3/4" IN WATER	Ø636	-	"
BLOW, 3/4" IN WATER	Ø656	-	"
SLIGHT BUBBLES ONLY	Ø746	-	"
CLOSED FOR FINAL SHUT-IN	Ø826	-	"
FINISHED SHUT-IN	1226	-	"
PULLED PACKER LOOSE	1228	-	-

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

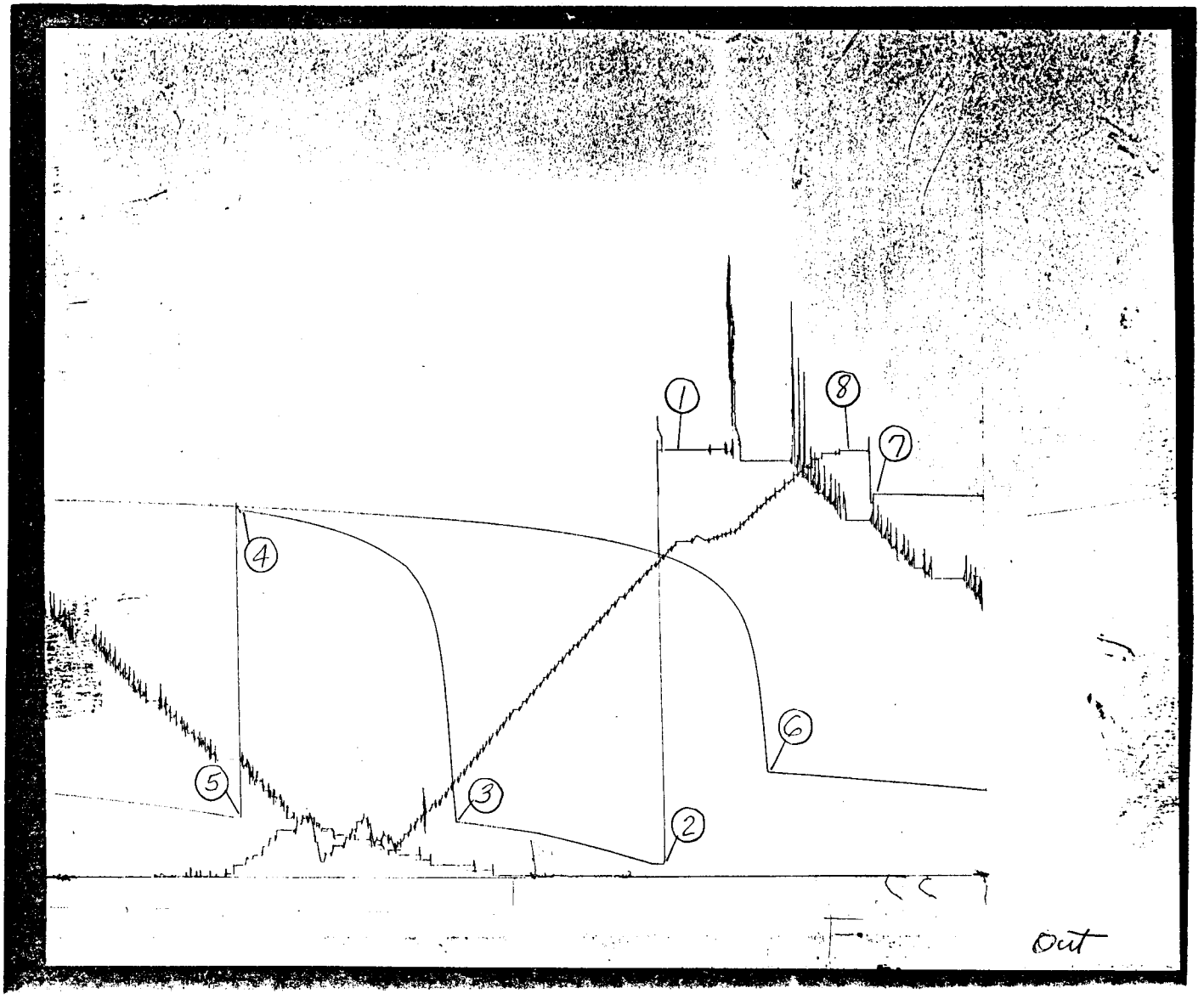
RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
GAS CUT WATER	3ØØ	1.98						.3	1Ø2	135ØØ
GAS CUT WATER	3ØØ	1.98						.Ø5	88	187Ø
GAS CUT WATER	3ØØ	1.74						.Ø4	9Ø	227ØØØ
GAS CUT WATER	631	2.Ø2						.Ø4	94	216ØØØ

FIELD REPORT NO. 13824D

FIELD REPORT NO.: 13824 D CAPACITY: 6400#

INSTRUMENT NO.: J-510 NUMBER OF REPORTS: 16-

JOHNSTON Schlumberger

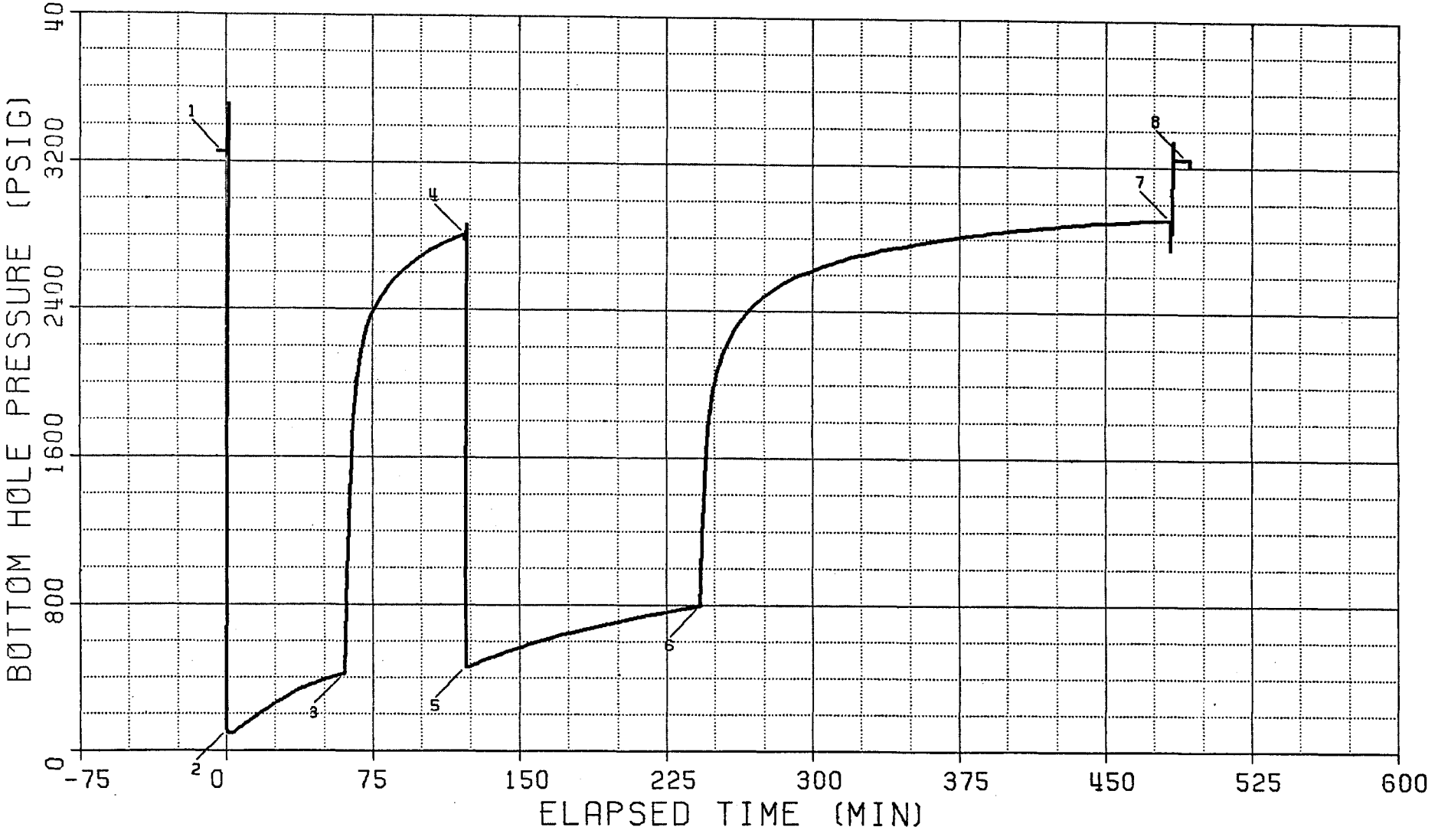


PRESSURE LOG

FIELD REPORT NO. 13824D

INSTRUMENT:

NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 7390 FT
PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-510 CAPACITY (PSI): 6400 DEPTH (FT): 7390
PORT OPENING: OUTSIDE BOTTOM HOLE TEMP (F): 180 PAGE 1

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	3254	-2.0
START FLOW	2	113	0.0
END FLOW & START SHUT-IN	3	422	60.4
END SHUT-IN	4	2810	122.1
START FLOW	5	461	122.6
END FLOW & START SHUT-IN	6	795	242.1
END SHUT-IN	7	2912	483.2
HYDROSTATIC MUD	8	3245	491.3

SUMMARY OF FLOW PERIODS

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	0.0	60.4	60.4	113	422
2	122.6	242.1	119.6	461	795

SUMMARY OF SHUT-IN PERIODS

SHUT-IN PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF SHUT-IN (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)	FINAL FLOW PRESSURE (PSIG)	PRODUCING TIME (MIN)
1	60.4	122.1	61.7	422	2810	422	60.4
2	242.1	483.2	241.1	795	2912	795	180.0

FIELD REPORT NO. 13824D
INSTRUMENT NO. J-510

TEST PHASE : FLOW PERIOD # 1
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	113
10.0	10.0	149
20.0	20.0	222
30.0	30.0	291
40.0	40.0	348
50.0	50.0	387
60.0	60.0	421
60.4	60.4	422

TEST PHASE : SHUT-IN PERIOD # 1
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 422 PSIG
2. PRODUCING TIME ["T_P"] = 60.4 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
60.4	0.0	422		0
65.4	5.0	1815	1.117	1393
70.4	10.0	2224	0.848	1802
75.4	15.0	2394	0.701	1972
80.4	20.0	2482	0.604	2060
85.4	25.0	2554	0.534	2133
90.4	30.0	2610	0.479	2188
95.4	35.0	2658	0.435	2236
100.4	40.0	2696	0.400	2275
105.4	45.0	2729	0.370	2308
110.4	50.0	2758	0.344	2336
115.4	55.0	2782	0.322	2360
120.4	60.0	2806	0.302	2384
122.1	61.7	2810	0.297	2388

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
122.6	0.0	461
132.6	10.0	501
142.6	20.0	540
152.6	30.0	576

FIELD REPORT NO. 13824D
INSTRUMENT NO. J-510

TEST PHASE : FLOW PERIOD # 2
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
162.6	40.0	610
172.6	50.0	639
182.6	60.0	665
192.6	70.0	691
202.6	80.0	715
212.6	90.0	737
222.6	100.0	757
232.6	110.0	778
242.1	119.6	795

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 795 PSIG
2. PRODUCING TIME ["T_P"] = 180.0 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
242.1	0.0	795		0
243.1	1.0	1068	2.258	273
244.1	2.0	1353	1.959	558
245.1	3.0	1559	1.785	763
246.1	4.0	1716	1.663	921
247.1	5.0	1824	1.568	1029
248.1	6.0	1907	1.491	1112
249.1	7.0	1969	1.427	1174
250.1	8.0	2023	1.371	1228
251.1	9.0	2065	1.322	1270
252.1	10.0	2104	1.279	1309
254.1	12.0	2170	1.204	1375
256.1	14.0	2221	1.142	1426
258.1	16.0	2264	1.088	1468
260.1	18.0	2303	1.041	1507
262.1	20.0	2335	1.000	1540
264.1	22.0	2364	0.963	1569
266.1	24.0	2390	0.929	1595
268.1	26.0	2414	0.899	1619
270.1	28.0	2436	0.871	1640
272.1	30.0	2457	0.845	1661
277.1	35.0	2497	0.788	1701
282.1	40.0	2534	0.740	1739
292.1	60.0	2634	0.602	1839
322.1	80.0	2702	0.512	1907

FIELD REPORT NO. 13824D
INSTRUMENT NO. J-510

TEST PHASE : SHUT-IN PERIOD # 2
****

1. FINAL FLOW PRESSURE ["P_{WF}"] = 795 PSIG
2. PRODUCING TIME ["T_P"] = 180.0 MIN

ELAPSED TIME (MIN)	DELTA TIME ["DT"] (MIN)	SHUT-IN PRESSURE ["P_{WS}"] (PSIG)	LOG [(T_P+DT)/DT]	DELTA PRESSURE [P_{WS} - P_{WF}]
342.1	100.0	2750	0.447	1954
362.1	120.0	2789	0.398	1994
382.1	140.0	2822	0.359	2027
402.1	160.0	2850	0.327	2055
422.1	180.0	2872	0.301	2076
442.1	200.0	2891	0.279	2096
462.1	220.0	2902	0.260	2107
482.1	240.0	2912	0.243	2117
483.2	241.1	2912	0.242	2117

CONFIDENTIAL

JOHNSTON

Schlumberger

technical report

COMPANY FOREST OIL CORPORATION WELL SIGARD UNIT #1 TEST NO. 1 COUNTY SEVIER STATE UTAH

F.R. # 13823 D

WELL IDENTIFICATION

COMPANY:	FOREST OIL CORPORATION P.O. BOX 131Ø CASPER, WYOMING 826Ø2	CUSTOMER:	SAME
WELL:	SIGARD UNIT #1	LOCATION:	SEC. 14 - T22S - R1W
TEST INTERVAL:	837Ø' TO 84ØØ'	FIELD:	WILD CAT
TEST NO:	1	TEST DATE:	5-21-79
COUNTY:	SEVIER	STATE:	UTAH
TECHNICIAN:	RICHARDS (VERNAL)	TEST APPROVED BY:	-

EQUIPMENT AND HOLE DATA

TEST TYPE:	M.F.E. CASING		DRILL PIPE LENGTH:	7578	FT.
			DRILL PIPE I.D.:	2.6	IN.
ELEVATION:	54Ø8 G.R.	FT.	DRILL COLLAR LENGTH:	7Ø2	FT.
TOTAL DEPTH:	-	FT.	DRILL COLLAR I.D.:	1.78	IN.
MAIN HOLE/CASING SIZE:	7" X 29#	IN.	PACKER DEPTHS:	831Ø & 8316	FT.
RAT HOLE/LINER SIZE:	-	IN.		&	FT.
FORMATION TESTED:	ARAPIEN			&	FT.
NET PROD. INTERVAL:	3Ø	FT.	DEPTHS REF. TO:	KELLY BUSHING	
POROSITY:	-	%			

TEST TOOL CHAMBER DATA

SAMPLER PRESSURE:	Ø	PSIG
RECOVERED OIL GRAVITY:	- API @	- DEG. F.
RECOVERY GOR:	-	FT3/BBL.

SAMPLE CHAMBER CONTENTS

FLUID	VOLUME	RESIST. (OHM-M)	MEAS. TEMP. (DEG F.)	CHLOR. (PPM)
GAS:	- FT.3			
OIL:	- CC			
WATER:	- CC	-	-	-
MUD:	2Ø5Ø CC	.Ø7	96	
FILTRATE:		.Ø6	97	76ØØØ
TOTAL LIQUID:	2Ø5Ø CC			

MUD DATA

TYPE:	-	
WEIGHT:	9.6	LB/GAL.
VISCOSITY:	38	SEC.
WATER LOSS:	7.Ø	CC

FLUID	RESIST (OHM-M)	TEMP (DEG F)	CHLOR (PPM)
MUD:	.1	95	
FILTRATE:	.Ø8	9Ø	48ØØØ

REMARKS

-
-

NO. OF REPORTS REQUESTED: 16 (7X)

FIELD REPORT NO. 13823D

SURFACE INFORMATION

DESCRIPTION(RATE OF FLOW)	TIME	PRESSURE PSIG	SURFACE CHOKE
OPENED TOOL (5-21-79)	1846	-	1/4"
BLOW, 1" IN WATER DECREASING TO NO BLOW	1915	-	"
CLOSED FOR INITIAL SHUT-IN (ATTEMPTED)	1947	-	"
FINISHED SHUT-IN	2Ø47	-	"
RE-OPENED TOOL NO BLOW	2Ø5Ø	-	"
CLOSED FOR FINAL SHUT-IN (ATTEMPTED)	24ØØ	-	"
FINISHED SHUT-IN (5-22-79)	Ø6ØØ	-	"
PULLED PACKER LOOSE	Ø6Ø5	-	-

CUSHION TYPE: - - FT - PSIG | 15/16 IN. BOTTOM CHOKE

RECOVERY INFORMATION

RECOVERY	FEET	BARRELS	%OIL	%WATER	%OTHERS	API GRAV.	DEG.	RESIST	DEG.	CHL PPM
DRILLING MUD	97	Ø.31	-	-	-	-	-	.Ø7	96	76ØØØ

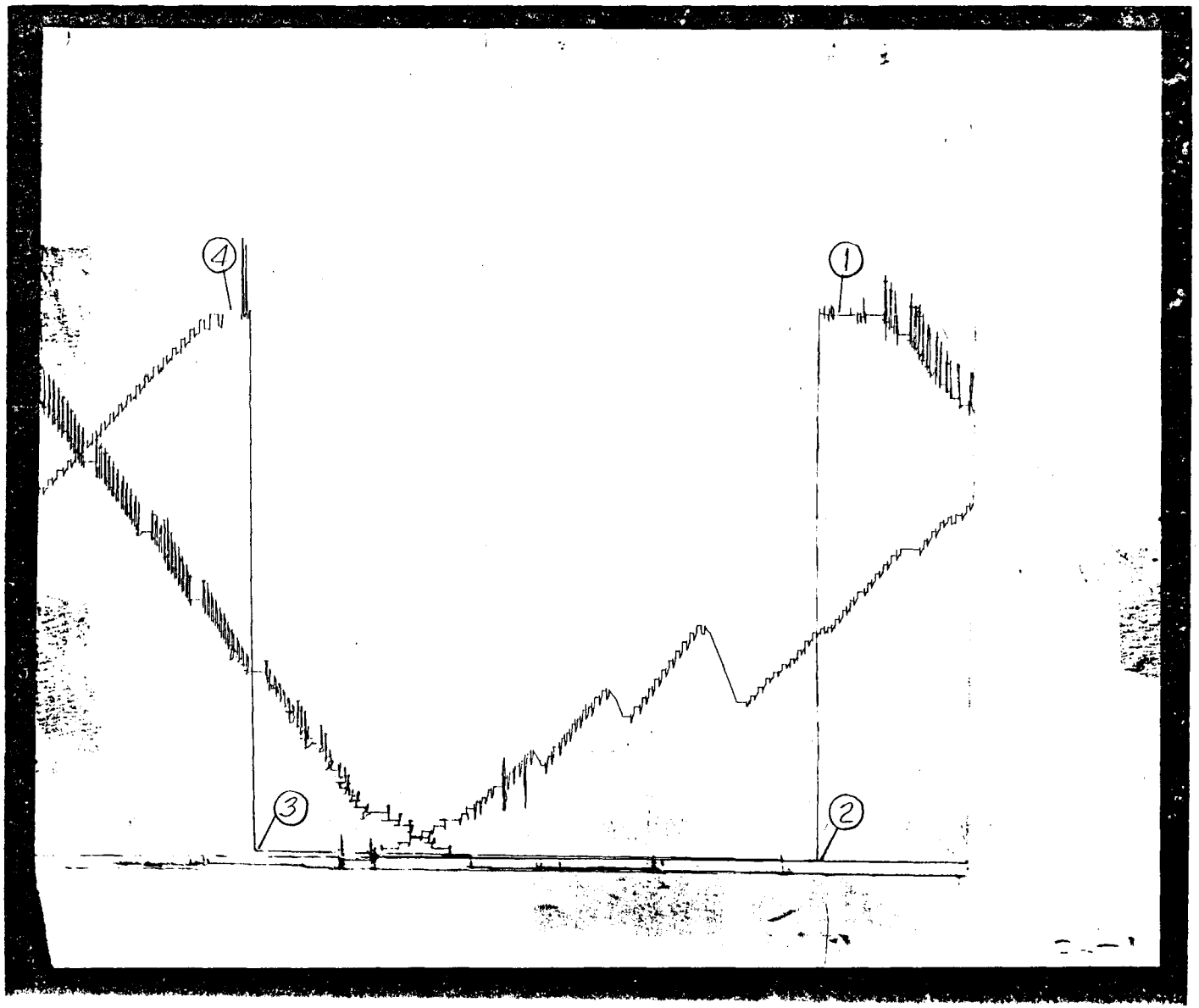
FIELD REPORT NO. 13823D

FIELD REPORT NO.: 13823 D CAPACITY: 6400#

INSTRUMENT NO.: J-510 NUMBER OF REPORTS: 16-

JOHNSTON Schlumberger

DID NOT OBTAIN RELIABLE SHUT-IN PERIODS.

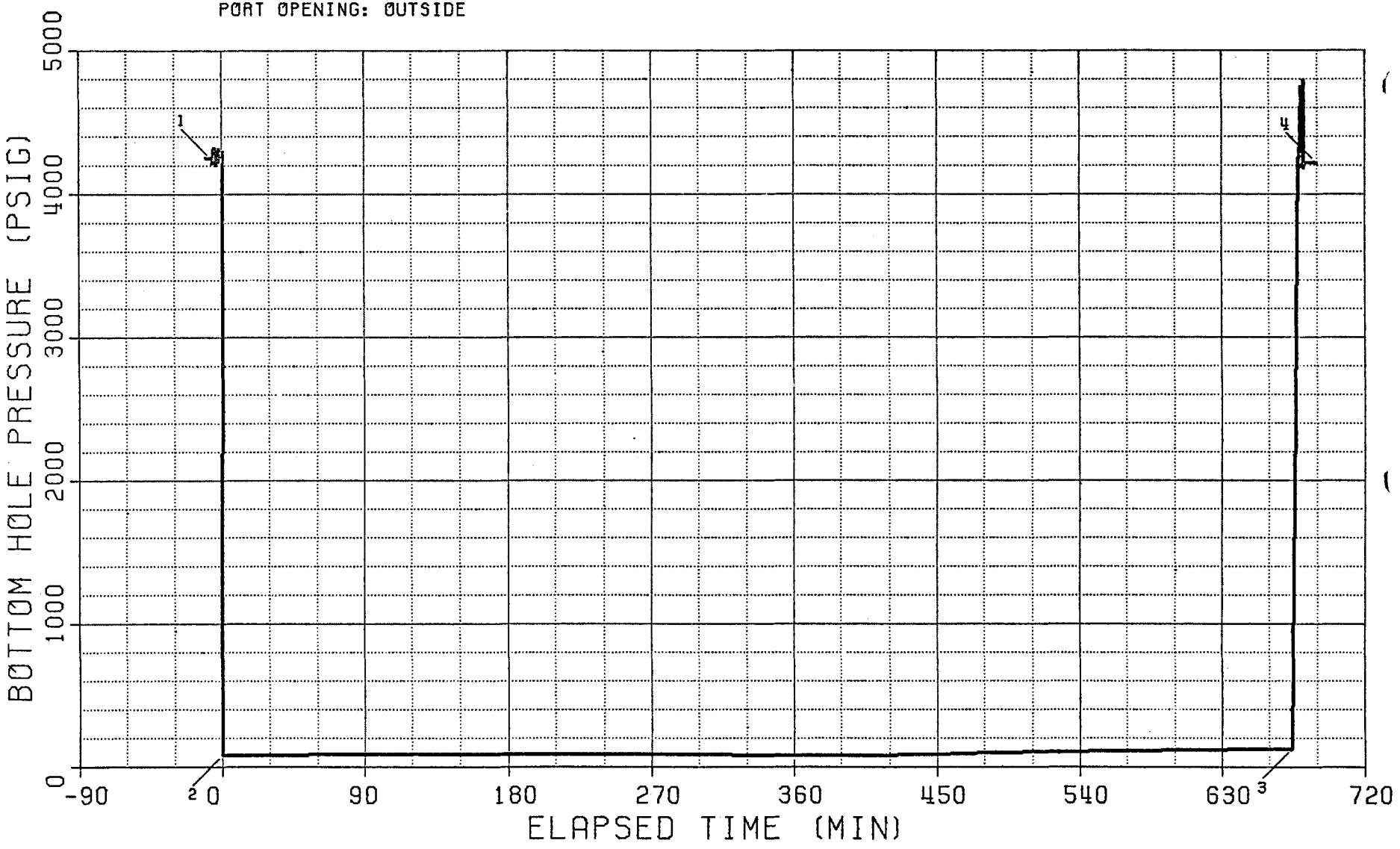


PRESSURE LOG

FIELD REPORT NO. 13823D

INSTRUMENT:

NUMBER: J-510
CAPACITY: 6400 PSI
DEPTH: 8326 FT
PORT OPENING: OUTSIDE



BOTTOM HOLE PRESSURE AND TIME DATA

INSTRUMENT NO.: J-51Ø
PORT OPENING: OUTSIDE

CAPACITY (PSI): 64ØØ
BOTTOM HOLE TEMP (F): 194

DEPTH (FT): 8326

EXPLANATION	LABELED POINT	PRESSURE (PSIG)	ELAPSED TIME (MIN)
HYDROSTATIC MUD	1	4248	-6.2
START FLOW	2	82	Ø.Ø
END FLOW & START SHUT-IN	3	127	674.2
HYDROSTATIC MUD	4	422Ø	689.3

* SUMMARY OF FLOW PERIODS *

FLOW PERIOD	ELAPSED TIME AT START (MIN)	ELAPSED TIME AT END (MIN)	DURATION OF FLOW (MIN)	PRESSURE AT START (PSIG)	PRESSURE AT END (PSIG)
1	Ø.Ø	674.2	674.2	82	127

FIELD REPORT NO. 13823D
INSTRUMENT NO. J-51Ø

FIELD REPORT NO. 13823D
INSTRUMENT NO. J-510

TEST PHASE : FLOW PERIOD # 1
****

ELAPSED TIME (MIN)	DELTA TIME (MIN)	FLOWING PRESSURE (PSIG)
0.0	0.0	82
30.0	30.0	83
60.0	60.0	83
90.0	90.0	84
120.0	120.0	85
150.0	150.0	85
180.0	180.0	85
210.0	210.0	85
240.0	240.0	85
270.0	270.0	86
300.0	300.0	85
330.0	330.0	83
360.0	360.0	82
390.0	390.0	83
420.0	420.0	86
450.0	450.0	91
480.0	480.0	98
510.0	510.0	102
540.0	540.0	106
570.0	570.0	110
600.0	600.0	114
630.0	630.0	120
660.0	660.0	125
674.2	674.2	127

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-30650

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Wildcat Well

7. UNIT AGREEMENT NAME
Sigurd Unit

2. NAME OF OPERATOR
Forest Oil Corporation

8. FARM OR LEASE NAME
Sigurd Unit

3. ADDRESS OF OPERATOR
700 Colorado Fed. Bldg. 821 17th St., Denver, Co. 80202

9. WELL NO.
1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2412' FSL & 392' FWL
Section 14 - T22S-R1W

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
14-T22S-R1W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
Gr. Elev. 5,408' K.B. Elev. 5,428'

12. COUNTY OR PARISH: Sevier

13. STATE: Utah

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

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

The location of the above described well has been cleaned of all trash, pits backfilled and the area restored nearly as possible to it's original contour. The BLM has requested that we reseed this area in October, 1979. This will be done to conform with the orders of the BLM.

RECEIVED SEP 19 1979 OIL MINING

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

SIGNED [signature] TITLE Div. Drlg. & Prod. Mgr. DATE 9/17/79

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

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*                             *
*                             *
*                             *
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*-----------------------------*
*---------SCHLUMBERGER--------*
*-----------------------------*
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43-041-30018

DIPMETER

CLUSTER

CALCULATION

LISTING

FOREST OIL CORPORATION

SIGORD UNIT #1

WILDCAT

SEVIER, UTAH

RUN NO. TWO JOB NO. 5745

CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 40 DEG. X2

24-MAY-79

Schlumberger

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*                             *
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*                             *
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*-----------------------------*
*---------SCHLUMBERGER--------*
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DIPMETER

CLUSTER

CALCULATION

LISTING

FOREST OIL CORPORATION

SIGORD UNIT #1

WILDCAT

SEVIER, UTAH

RUN NO. TWO JOB NO. 5745

CORRELATION LENGTH 4 FT.

STEP LENGTH 2 FT.

SEARCH ANGLE 40 DEG. X2

24-MAY-79

Schlumberger

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8518.0			0.7	232	7.0	6.7	
8520.0			0.7	229	7.0	7.0	
8522.0			0.6	227	7.0	7.1	
8524.0			0.6	231	7.2	7.1	
8526.0			0.6	234	7.4	7.3	
8528.0	41.3	26	0.7	229	7.4	7.6	3
8530.0			0.7	231	7.5	7.8	
8532.0			0.7	232	7.4	7.9	
8534.0			0.7	228	7.5	8.0	
8536.0			0.7	228	7.6	8.2	
8538.0			0.6	223	7.8	8.5	
8540.0			0.6	219	8.1	8.9	
8542.0			0.6	219	8.2	9.1	
8544.0			0.6	215	8.3	9.3	
8546.0			0.5	208	9.2	9.9	
8548.0			0.6	212	10.0	10.9	
8550.0			0.6	216	10.8	11.8	
8552.0			0.6	214	9.9	11.3	
8554.0			0.6	209	7.9	9.8	
8556.0			0.6	208	7.3	9.1	
8558.0			0.5	209	7.4	9.1	
8560.0			0.5	208	7.6	9.3	
8562.0			0.6	208	7.6	9.5	
8564.0			0.6	205	7.8	9.6	
8566.0			0.6	202	8.0	9.7	
8568.0			0.5	200	7.7	9.3	
8570.0			0.5	193	7.5	9.0	
8572.0			0.6	190	7.3	8.8	
8574.0			0.5	188	6.8	8.4	
8576.0			0.5	187	6.8	8.1	
8578.0			0.5	183	7.3	8.3	
8580.0			0.5	180	7.5	8.7	
8582.0			0.5	177	7.6	9.0	
8584.0			0.5	175	7.9	9.2	
8586.0			0.5	174	8.4	9.4	
8588.0			0.5	171	8.8	9.6	
8590.0	81.2	295	0.5	165	8.9	10.0	1
8592.0			0.5	161	8.9	10.1	
8594.0			0.4	156	8.9	10.3	
8596.0			0.4	153	8.9	10.3	
8598.0			0.5	150	8.7	10.0	
8600.0			0.5	148	8.7	9.9	
8602.0			0.6	147	8.8	9.9	
8604.0	80.2	297	0.5	143	8.9	10.0	3
8606.0			0.5	138	9.0	10.0	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8608.0			0.6	135	9.1	10.0	
8610.0			0.5	132	9.1	10.0	
8612.0			0.5	130	8.9	9.8	
8614.0			0.6	126	8.6	9.5	
8616.0			0.5	122	8.6	9.3	
8618.0			0.5	118	8.5	9.5	
8620.0			0.5	111	8.4	9.3	
8622.0			0.5	106	8.2	8.4	
8624.0			0.5	103	7.7	7.7	
8626.0			0.5	101	7.4	7.3	
8628.0			0.5	97	7.5	7.2	
8630.0			0.6	93	7.5	7.1	
8632.0			0.6	93	7.5	6.8	
8634.0			0.6	94	7.4	6.6	
8636.0			0.6	92	7.5	6.5	
8638.0	78.5	76	0.6	90	7.6	6.3	3
8640.0			0.6	91	7.7	6.1	
8642.0			0.6	90	7.8	6.1	
8644.0			0.7	89	7.6	5.9	
8646.0			0.7	87	7.6	5.8	
8648.0			0.8	80	7.6	5.7	
8650.0			0.8	73	7.3	5.5	
8652.0			0.8	70	7.1	5.5	
8654.0			0.8	66	7.2	5.4	
8656.0			0.8	62	7.3	5.4	
8658.0			0.8	60	7.3	5.4	
8660.0			0.8	61	7.4	5.3	
8662.0			0.8	61	7.4	5.2	
8664.0			0.8	62	7.4	5.1	
8666.0			0.8	64	7.4	5.0	
8668.0			0.8	65	7.4	5.0	
8670.0			0.8	64	7.5	5.0	
8672.0			0.8	64	7.5	5.2	
8674.0			0.8	66	7.8	5.3	
8676.0			0.9	68	7.8	5.3	
8678.0			0.9	69	7.7	5.2	
8680.0			0.9	66	7.7	5.0	
8682.0			0.9	64	7.7	4.9	
8684.0			0.9	63	7.6	4.9	
8686.0			1.0	62	7.5	4.9	
8688.0			1.0	62	7.4	4.9	
8690.0			1.0	60	7.2	4.9	
8692.0			1.0	60	7.1	4.9	
8694.0			1.1	60	7.0	4.9	
8696.0			1.1	60	7.0	5.0	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8698.0			1.1	59	7.0	5.0	
8700.0			1.1	58	7.0	5.0	
8702.0			1.1	58	7.0	5.0	
8704.0			1.1	59	7.0	4.9	
8706.0			1.2	60	7.1	5.0	
8708.0			1.2	59	7.3	5.0	
8710.0			1.2	58	7.4	4.9	
8712.0			1.1	61	7.5	4.9	
8714.0			1.1	62	7.5	5.0	
8716.0			1.1	61	7.5	5.0	
8718.0			1.1	58	7.6	4.9	
8720.0			1.1	59	7.5	5.0	
8722.0			1.1	61	7.2	5.1	
8724.0			1.2	60	7.2	5.2	
8726.0			1.1	61	7.2	5.2	
8728.0			1.2	60	7.3	5.3	
8730.0			1.1	62	7.3	5.5	
8732.0			1.1	65	7.3	5.6	
8734.0			1.2	65	7.3	5.5	
8736.0			1.2	64	7.1	5.4	
8738.0			1.2	62	7.0	5.5	
8740.0			1.2	60	7.1	5.5	
8742.0			1.2	60	7.3	5.5	
8744.0			1.2	60	7.4	5.5	
8746.0			1.2	57	7.4	5.9	
8748.0			1.2	56	7.3	6.0	
8750.0	22.8	240	1.2	57	7.1	5.6	3
8752.0	19.1	236	1.2	58	6.9	5.4	1
8754.0			1.2	57	6.7	5.5	
8756.0			1.2	57	6.8	5.5	
8758.0			1.2	58	6.9	5.7	
8760.0			1.2	54	7.1	5.6	
8762.0			1.2	52	7.3	5.5	
8764.0			1.2	50	7.1	5.8	
8766.0			1.3	47	7.0	6.1	
8768.0			1.4	45	7.0	6.2	
8770.0			1.4	44	6.8	6.2	
8772.0			1.5	42	7.0	6.0	
8774.0			1.7	39	6.9	5.7	
8776.0	18.0	185	1.8	38	6.7	5.7	3
8778.0			1.8	37	6.6	5.8	
8780.0	21.9	202	1.8	40	6.6	5.6	1
8782.0			1.8	43	6.7	5.1	
8784.0			1.8	39	6.9	4.8	
8786.0			1.8	32	7.1	4.8	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8788.0	18.6	199	1.8	29	7.1	4.9	3
8790.0			1.7	29	6.9	4.9	
8792.0			1.6	30	6.9	4.9	
8794.0	22.5	195	1.7	29	6.8	5.1	1
8796.0	17.5	195	1.7	26	6.8	5.2	1
8798.0			1.7	25	6.9	5.0	
8800.0	19.0	210	1.7	26	6.9	5.0	1
8802.0			1.8	25	7.0	5.0	
8804.0	19.9	214	1.8	23	7.0	5.2	1
8806.0	17.9	218	1.9	24	7.0	5.7	1
8808.0			1.9	25	6.9	6.1	
8810.0			1.9	26	6.7	6.2	
8812.0			2.0	25	6.7	6.4	
8814.0			2.0	25	6.9	6.1	
8816.0			2.0	24	7.0	5.7	
8818.0			2.0	23	7.0	5.8	
8820.0			2.0	24	7.4	6.7	
8822.0			2.0	24	7.5	7.1	
8824.0			2.0	24	7.6	7.0	
8826.0			2.0	25	8.1	7.6	
8828.0			2.1	25	8.0	7.6	
8830.0			2.1	26	7.6	7.3	
8832.0			2.2	27	7.6	7.0	
8834.0			2.3	27	7.4	6.7	
8836.0			2.3	25	7.3	6.3	
8838.0			2.3	28	7.8	5.9	
8840.0			2.4	28	7.6	5.8	
8842.0			2.4	24	7.0	5.4	
8844.0			2.4	24	6.9	5.5	
8846.0			2.5	26	6.8	5.5	
8848.0			2.5	27	6.8	5.4	
8850.0			2.6	29	6.9	5.2	
8852.0			2.6	30	6.9	5.3	
8854.0			2.6	25	6.7	5.5	
8856.0			2.6	23	6.7	5.5	
8858.0			2.6	24	6.8	5.2	
8860.0			2.6	25	7.1	5.0	
8862.0			2.6	27	7.2	4.8	
8864.0			2.6	27	6.9	4.8	
8866.0			2.7	29	6.9	4.9	
8868.0	19.3	360	2.7	28	7.0	5.0	3
8870.0	22.2	358	2.6	27	7.0	5.1	1
8872.0	29.7	20	2.7	28	7.0	5.1	3
8874.0			2.7	28	7.1	5.1	
8876.0			2.8	27	7.2	5.1	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8878.0			2.8	28	7.2	5.2	
8880.0			2.7	30	7.1	5.1	
8882.0	15.2	350	2.7	32	7.1	4.8	1
8884.0	23.9	354	2.8	33	7.3	4.7	1
8886.0			2.7	32	7.3	4.7	
8888.0	12.7	237	2.7	32	7.4	4.8	3
8890.0			2.7	36	7.3	4.9	
8892.0			2.7	38	7.3	4.9	
8894.0			2.6	37	7.3	4.9	
8896.0			2.6	36	7.4	4.8	
8898.0			2.5	36	7.5	4.8	
8900.0			2.5	36	7.6	4.9	
8902.0			2.6	36	7.8	4.8	
8904.0			2.5	36	8.0	5.0	
8906.0			2.5	37	8.4	5.3	
8908.0			2.6	38	8.3	5.3	
8910.0			2.6	38	7.9	5.3	
8912.0			2.6	37	7.7	5.4	
8914.0			2.6	36	7.4	5.2	
8916.0			2.6	37	7.2	5.2	
8918.0			2.6	37	7.1	5.2	
8920.0			2.6	39	7.0	5.2	
8922.0			2.6	43	6.8	5.3	
8924.0			2.6	43	6.8	5.2	
8926.0			2.5	42	6.9	5.0	
8928.0	10.5	359	2.4	44	6.8	5.2	1
8930.0	14.9	40	2.3	44	6.8	5.5	1
8932.0	13.7	11	2.2	42	7.0	5.6	1
8934.0	16.5	8	2.2	41	7.0	5.6	3
8936.0			2.3	40	6.9	5.4	
8938.0			2.3	42	6.9	5.2	
8940.0			2.3	45	7.0	5.1	
8942.0			2.3	47	6.9	4.9	
8944.0			2.3	51	6.9	4.9	
8946.0			2.2	58	6.8	5.0	
8948.0			2.1	61	6.8	4.9	
8950.0	18.7	28	2.0	60	7.0	4.9	1
8952.0	18.4	39	2.0	58	6.9	4.9	3
8954.0	16.4	38	2.0	57	6.9	5.1	3
8956.0	14.3	25	2.0	59	6.9	5.3	1
8958.0			2.0	60	7.0	5.2	
8960.0			2.0	60	7.1	5.0	
8962.0	15.2	17	2.0	59	6.9	5.0	1
8964.0	23.8	25	2.0	59	6.9	5.0	1
8966.0			2.0	57	7.2	5.2	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8968.0			2.0	55	7.8	5.5	
8970.0			2.0	55	8.4	5.8	
8972.0			2.0	55	7.8	5.4	
8974.0			2.0	53	7.0	4.9	
8976.0			2.0	52	6.9	4.9	
8978.0			2.0	51	6.9	4.9	
8980.0			1.9	51	6.9	5.0	
8982.0			1.7	51	6.9	5.0	
8984.0			1.6	53	6.9	4.9	
8986.0			1.5	53	6.9	5.0	
8988.0			1.3	53	6.9	5.0	
8990.0			1.2	54	6.8	5.0	
8992.0			1.1	57	6.8	4.9	
8994.0			0.9	59	6.9	4.9	
8996.0			0.8	61	6.8	4.9	
8998.0			0.8	67	6.8	4.9	
9000.0			0.8	71	6.9	5.1	
9002.0			0.9	71	6.9	5.1	
9004.0			0.9	71	6.9	5.0	
9006.0			0.9	72	6.8	5.1	
9008.0	31.9	92	0.9	72	6.9	5.2	1
9010.0	29.0	90	1.0	73	6.9	5.0	3
9012.0			1.0	74	6.8	4.9	
9014.0	24.2	96	1.1	76	6.7	4.9	1
9016.0	26.3	95	1.2	75	6.8	4.8	3
9018.0	31.0	99	1.2	75	6.8	4.8	1
9020.0			1.2	75	6.7	4.8	
9022.0			1.2	74	6.7	4.8	
9024.0			1.2	72	6.7	4.8	
9026.0			1.2	72	6.7	4.8	
9028.0			1.2	72	6.7	4.8	
9030.0			1.2	73	6.6	4.8	
9032.0			1.1	75	6.7	4.8	
9034.0			1.0	73	6.7	4.8	
9036.0			1.0	72	6.7	4.8	
9038.0			0.9	80	6.7	4.9	
9040.0			0.9	85	6.6	4.8	
9042.0			0.9	91	6.6	4.6	
9044.0			0.9	93	6.6	4.6	
9046.0			1.0	91	6.7	4.7	
9048.0			1.0	97	6.6	4.7	
9050.0			0.9	102	6.4	4.7	
9052.0			0.8	102	6.4	4.6	
9054.0			0.8	98	6.5	4.5	
9056.0			1.0	97	6.6	4.5	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9058.0			1.2	103	6.7	4.6	
9060.0			1.4	106	6.7	4.6	
9062.0			2.2	105	6.7	4.6	
9064.0			3.9	105	6.7	4.6	
9066.0			8.5	109	6.7	4.6	

DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8520.0	83.7	169	0.8	223	8.5	5.1	3
8522.0			0.8	223	8.6	5.2	
8524.0			0.8	223	8.5	5.3	
8526.0	49.0	21	0.8	222	8.6	5.5	3
8528.0	47.8	20	0.8	221	8.8	5.6	1
8530.0			0.8	221	9.0	5.6	
8532.0			0.9	220	9.2	5.6	
8534.0			0.9	218	9.2	5.6	
8536.0	85.3	169	0.8	217	9.3	5.8	1
8538.0			0.8	216	9.6	6.0	
8540.0			0.8	213	9.9	6.5	
8542.0			0.7	211	10.1	6.7	
8544.0			0.7	210	10.3	6.7	
8546.0			0.6	206	10.5	7.5	
8548.0			0.7	205	11.2	8.7	
8550.0			0.7	209	11.9	9.4	
8552.0			0.7	208	12.1	9.3	
8554.0			0.7	204	11.2	7.2	
8556.0			0.7	199	10.1	5.6	
8558.0			0.7	196	10.1	5.7	
8560.0			0.7	195	10.2	5.9	
8562.0	63.8	360	0.7	195	10.4	5.8	3
8564.0			0.7	193	10.5	6.0	
8566.0			0.7	192	10.6	6.2	
8568.0			0.6	190	10.4	6.1	
8570.0	57.6	358	0.6	184	10.2	5.7	1
8572.0			0.6	179	10.0	5.6	
8574.0			0.6	178	9.7	5.2	
8576.0			0.6	176	9.4	4.8	
8578.0			0.6	176	9.4	5.4	
8580.0			0.6	174	9.7	5.7	
8582.0			0.6	172	9.9	5.7	
8584.0			0.6	170	10.1	6.1	
8586.0			0.6	168	10.3	6.5	
8588.0			0.6	167	10.6	7.1	
8590.0			0.6	161	10.8	7.5	
8592.0			0.6	154	10.9	7.5	
8594.0			0.6	151	11.0	7.5	
8596.0			0.7	147	11.1	7.5	
8598.0			0.7	145	11.0	7.4	
8600.0			0.7	145	10.7	7.3	
8602.0			0.7	144	10.8	7.3	
8604.0			0.7	139	10.9	7.4	
8606.0			0.7	135	10.9	7.5	
8608.0			0.7	132	10.9	7.6	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8610.0			0.7	128	10.9	7.8	
8612.0			0.7	127	10.8	7.6	
8614.0			0.6	126	10.6	7.4	
8616.0			0.6	123	10.3	7.1	
8618.0			0.7	119	10.3	7.2	
8620.0			0.7	113	10.4	7.0	
8622.0			0.7	110	9.9	6.7	
8624.0			0.7	106	9.1	6.2	
8626.0			0.7	103	8.7	5.7	
8628.0			0.7	100	8.7	5.7	
8630.0			0.7	97	8.6	5.7	
8632.0			0.7	95	8.3	5.7	
8634.0			0.7	92	8.1	5.7	
8636.0			0.8	90	8.1	5.8	
8638.0			0.8	87	7.9	5.9	
8640.0			0.8	84	7.7	5.8	
8642.0			0.8	79	7.7	6.0	
8644.0			0.9	72	7.6	6.0	
8646.0			0.8	70	7.6	5.9	
8648.0			0.8	66	7.5	5.9	
8650.0			0.9	62	7.4	5.6	
8652.0			0.8	58	7.3	5.4	
8654.0			0.8	54	7.3	5.3	
8656.0			0.8	50	7.3	5.3	
8658.0			0.8	48	7.2	5.4	
8660.0			0.8	46	7.1	5.5	
8662.0			0.8	45	7.0	5.5	
8664.0			0.9	48	7.0	5.5	
8666.0			0.9	51	6.9	5.5	
8668.0			0.8	52	6.9	5.6	
8670.0			0.8	51	6.9	5.6	
8672.0			0.8	53	7.0	5.7	
8674.0			0.9	54	7.0	6.0	
8676.0			0.9	56	7.0	6.2	
8678.0			0.9	56	7.0	6.1	
8680.0			0.9	54	6.9	6.2	
8682.0			0.9	51	6.9	6.1	
8684.0			0.9	50	6.8	6.0	
8686.0			1.0	52	6.8	5.8	
8688.0	44.0	295	1.0	52	6.8	5.5	1
8690.0	46.7	292	0.9	50	6.8	5.3	3
8692.0			0.9	49	6.8	5.3	
8694.0			1.0	47	6.8	5.2	
8696.0			0.9	45	6.9	5.2	
8698.0			0.9	46	6.9	5.2	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	DIAM 1-3	DIAM 2-4	QUAL. INDEX BEST =4
8700.0			0.9	48	6.9	5.1	
8702.0			0.9	49	6.9	5.0	
8704.0			0.9	49	6.8	5.1	
8706.0			0.9	51	6.9	5.2	
8708.0			0.9	52	6.9	5.4	
8710.0			0.9	49	6.8	5.6	
8712.0			0.9	48	6.8	5.7	
8714.0			0.9	50	6.9	5.7	
8716.0			0.9	50	6.9	5.7	
8718.0			1.0	48	6.9	5.8	
8720.0			1.0	49	6.9	5.9	
8722.0			1.0	50	7.0	5.6	
8724.0			1.0	50	7.0	5.4	
8726.0			1.0	51	7.0	5.4	
8728.0			1.0	51	7.1	5.4	
8730.0			1.0	54	7.2	5.4	
8732.0			1.0	57	7.3	5.5	
8734.0			1.0	55	7.3	5.4	
8736.0			1.0	55	7.3	5.2	
8738.0			1.0	55	7.3	5.1	
8740.0			1.0	53	7.3	5.2	
8742.0			1.0	51	7.3	5.4	
8744.0	24.4	232	1.0	50	7.3	5.5	1
8746.0	19.6	240	1.0	50	7.5	5.5	1
8748.0	26.5	243	1.0	50	7.8	5.5	1
8750.0	25.5	245	1.0	49	7.6	5.4	3
8752.0	19.6	246	1.0	48	7.3	5.1	1
8754.0			1.0	49	7.3	4.8	
8756.0			1.1	50	7.3	4.9	
8758.0			1.1	50	7.4	5.0	
8760.0			1.0	51	7.4	5.2	
8762.0			1.0	52	7.3	5.4	
8764.0			1.1	51	7.5	5.4	
8766.0			1.2	48	7.6	5.2	
8768.0			1.2	43	7.8	5.2	
8770.0			1.2	39	7.8	5.1	
8772.0			1.3	36	7.7	5.0	
8774.0			1.4	34	7.6	5.1	
8776.0			1.4	32	7.5	4.9	
8778.0			1.4	29	7.6	4.7	
8780.0			1.4	33	7.4	4.7	
8782.0			1.4	37	7.1	4.8	
8784.0			1.4	34	6.9	4.9	
8786.0	17.4	216	1.4	32	6.8	5.2	1
8788.0	18.4	205	1.4	32	6.8	5.3	3

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8790.0	15.2	197	1.4	33	6.8	5.1	3
8792.0			1.4	35	6.8	4.9	
8794.0			1.4	34	6.9	4.9	
8796.0			1.4	33	7.0	4.9	
8798.0	14.4	202	1.4	33	6.9	4.9	1
8800.0			1.5	33	6.9	5.0	
8802.0			1.6	33	6.9	5.1	
8804.0			1.6	31	7.0	5.1	
8806.0	15.5	108	1.7	32	7.2	5.1	1
8808.0			1.8	33	7.7	5.1	
8810.0			1.8	32	7.9	4.9	
8812.0	15.0	141	1.8	30	7.9	4.8	1
8814.0			1.8	27	7.9	4.8	
8816.0			1.8	26	7.7	5.0	
8818.0	19.3	133	1.9	27	7.4	5.0	3
8820.0			1.9	27	7.8	5.3	
8822.0	20.9	287	2.0	27	8.3	5.6	1
8824.0			2.0	28	8.5	5.7	
8826.0			2.0	29	8.7	5.9	
8828.0			2.0	29	8.9	6.5	
8830.0			2.0	28	8.9	6.1	
8832.0	20.9	301	2.0	30	8.6	5.6	1
8834.0			2.0	31	8.3	5.7	
8836.0			2.0	30	8.0	5.6	
8838.0			2.0	28	7.7	5.8	
8840.0			2.1	27	7.4	6.2	
8842.0			2.1	27	7.2	5.5	
8844.0	10.6	162	2.2	26	7.3	5.0	1
8846.0			2.2	25	7.3	4.9	
8848.0			2.3	26	7.1	4.9	
8850.0			2.2	30	6.9	5.1	
8852.0			2.2	32	7.1	5.0	
8854.0			2.3	28	7.3	4.9	
8856.0			2.3	26	7.3	4.8	
8858.0	13.6	170	2.3	26	7.2	4.8	1
8860.0			2.3	26	7.0	4.9	
8862.0			2.4	29	6.9	4.9	
8864.0			2.4	33	6.8	4.8	
8866.0			2.4	35	6.8	4.8	
8868.0			2.5	36	7.0	4.9	
8870.0	29.0	50	2.5	37	7.0	5.1	1
8872.0	26.5	39	2.5	38	7.0	5.1	3
8874.0	26.0	49	2.6	38	7.0	5.0	3
8876.0			2.7	37	7.2	5.1	
8878.0			2.8	37	7.3	5.3	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8880.0			2.8	39	7.1	5.1	
8882.0			2.8	40	7.1	5.0	
8884.0			2.8	42	7.2	4.8	
8886.0	18.9	250	2.8	43	7.3	4.8	1
8888.0	13.0	243	2.8	42	7.4	4.8	3
8890.0	11.5	243	2.8	43	7.4	4.9	1
8892.0			2.7	43	7.4	4.9	
8894.0			2.6	44	7.4	4.9	
8896.0			2.6	45	7.3	4.8	
8898.0			2.6	47	7.4	4.8	
8900.0			2.6	49	7.5	4.9	
8902.0			2.6	48	7.8	4.9	
8904.0			2.6	47	7.9	4.9	
8906.0			2.6	48	8.1	5.2	
8908.0			2.6	47	8.5	5.3	
8910.0			2.6	47	8.1	5.3	
8912.0			2.7	48	7.7	5.4	
8914.0			2.7	47	7.6	5.3	
8916.0			2.8	44	7.2	5.2	
8918.0			2.8	43	7.1	5.2	
8920.0			2.8	44	7.0	5.2	
8922.0			2.8	45	6.9	5.3	
8924.0			2.8	47	6.8	5.3	
8926.0			2.8	47	6.9	5.1	
8928.0			2.8	47	6.9	5.0	
8930.0	11.6	64	2.8	48	6.8	5.2	1
8932.0	6.0	85	2.8	49	6.9	5.5	3
8934.0	7.4	107	2.8	47	7.0	5.6	1
8936.0			2.8	46	7.0	5.4	
8938.0			2.7	46	6.9	5.1	
8940.0			2.7	47	6.9	5.2	
8942.0			2.6	47	6.9	5.2	
8944.0			2.5	47	6.9	5.0	
8946.0			2.4	49	6.8	5.0	
8948.0			2.3	50	6.8	5.2	
8950.0			2.1	50	6.8	5.2	
8952.0			2.0	51	6.9	5.0	
8954.0			2.0	52	7.1	5.0	
8956.0			2.0	51	7.3	4.9	
8958.0			2.0	51	7.4	4.9	
8960.0			2.0	51	7.3	4.9	
8962.0			2.0	51	7.2	4.9	
8964.0			1.9	51	7.0	4.9	
8966.0	77.1	225	1.8	51	7.0	5.0	3
8968.0			1.8	49	7.2	5.5	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
8970.0			1.8	47	7.5	6.2	
8972.0			1.7	45	7.3	6.4	
8974.0			1.7	44	7.0	5.7	
8976.0			1.6	47	6.9	5.2	
8978.0	80.7	228	1.6	48	6.9	5.0	1
8980.0			1.6	51	7.0	5.0	
8982.0	47.3	299	1.5	54	7.0	5.0	1
8984.0	45.1	302	1.4	55	6.9	4.9	1
8986.0			1.3	56	6.9	4.9	
8988.0			1.3	58	6.9	5.0	
8990.0			1.2	60	6.9	5.0	
8992.0			1.1	68	6.9	5.0	
8994.0			1.1	72	6.9	4.9	
8996.0			1.0	75	6.9	4.9	
8998.0			1.0	81	6.9	4.9	
9000.0			1.1	85	6.9	4.9	
9002.0			1.1	81	7.0	5.0	
9004.0			1.2	76	7.0	5.0	
9006.0			1.2	75	7.0	4.9	
9008.0			1.2	74	7.2	4.8	
9010.0	18.6	82	1.2	72	7.0	4.9	1
9012.0	22.1	99	1.2	71	6.9	4.9	1
9014.0	20.7	109	1.2	70	6.8	4.9	3
9016.0	19.5	93	1.2	70	6.8	4.9	3
9018.0	16.5	112	1.2	68	6.8	4.8	1
9020.0			1.2	66	6.8	4.8	
9022.0			1.2	65	6.8	4.7	
9024.0			1.2	66	6.7	4.6	
9026.0	26.6	281	1.2	66	6.7	4.6	1
9028.0	18.7	290	1.2	67	6.8	4.8	1
9030.0	17.4	282	1.2	67	6.8	4.8	1
9032.0	21.3	287	1.0	71	6.8	4.9	1
9034.0			0.9	74	6.8	4.8	
9036.0			0.7	77	6.7	4.7	
9038.0			0.6	91	6.7	4.8	
9040.0			0.6	104	6.7	4.7	
9042.0			0.6	104	6.6	4.6	
9044.0			0.6	109	6.6	4.6	
9046.0			0.6	113	6.6	4.6	
9048.0			0.7	112	6.6	4.7	
9050.0			0.9	112	6.5	4.6	
9052.0			0.9	105	6.4	4.6	
9054.0			1.0	94	6.5	4.6	
9056.0			1.1	95	6.6	4.6	
9058.0			1.3	98	6.6	4.7	

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DEPTH	FORMATION DIP	FORMATION DIP AZI.	BOREHOLE DEV.	BOREHOLE DEV. AZI.	BOREHOLE DIAM 1-3	BOREHOLE DIAM 2-4	QUAL. INDEX BEST =4
9060.0			1.9	96	6.7	4.8	

Schlumberger

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SCHLUMBERGER DIRECTIONAL SURVEY

FOREST OIL CORPORATION

SIGORD UNIT #1

WILDCAT

SEVIER COUNTY,UTAH

RUN NO. 1	722.0 -	8490.0	29-APR-79	5712
RUN NO. 2	8518.0 -	9066.0	20-MAY-79	5745

START OF SURVEY AT 722 FT.

RADIUS OF CURVATURE METHOD

REFERENCE JOB 5745.

Schlumberger

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SCHLUMBERGER DIRECTIONAL SURVEY

FOREST OIL CORPORATION

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WILDCAT

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START OF SURVEY AT 722 FT.

RADIUS OF CURVATURE METHOD

REFERENCE JOB 5745.

Schlumberger

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
722.0	1.2	46.0	722.0	0.0	0.0	0.0
740.0	1.2	45.0	740.0	0.2	0.3	0.4
760.0	1.2	37.0	760.0	0.6	0.6	0.8
780.0	1.2	36.0	780.0	0.9	0.8	1.2
800.0	1.1	36.0	800.0	1.2	1.1	1.6
820.0	1.2	33.0	820.0	1.5	1.3	2.0
840.0	1.2	24.0	840.0	1.9	1.5	2.4
860.0	1.2	26.0	860.0	2.3	1.7	2.8
880.0	1.2	23.0	880.0	2.7	1.8	3.2
900.0	1.2	23.0	900.0	3.1	2.0	3.7
920.0	1.2	24.0	920.0	3.4	2.2	4.1
940.0	1.2	24.0	940.0	3.8	2.3	4.5
960.0	1.2	21.0	959.9	4.2	2.5	4.9
980.0	1.4	20.0	979.9	4.6	2.6	5.3
1000.0	1.3	19.0	999.9	5.1	2.8	5.8
1020.0	1.5	16.0	1019.9	5.5	2.9	6.3
1040.0	1.6	18.0	1039.9	6.1	3.1	6.8
1060.0	1.6	19.0	1059.9	6.6	3.3	7.4
1080.0	1.6	13.0	1079.9	7.1	3.4	7.9
1100.0	1.5	15.0	1099.9	7.7	3.5	8.4
1120.0	1.6	13.0	1119.9	8.2	3.7	9.0
1140.0	1.6	13.0	1139.9	8.7	3.8	9.5
1160.0	1.7	13.0	1159.9	9.3	3.9	10.1
1180.0	1.9	7.0	1179.9	9.9	4.0	10.7
1200.0	1.7	7.0	1199.9	10.5	4.1	11.3
1220.0	2.0	5.0	1219.8	11.2	4.1	11.9
1240.0	2.0	2.0	1239.8	11.9	4.2	12.6
1260.0	2.3	1.0	1259.8	12.6	4.2	13.3
1280.0	2.5	357.0	1279.8	13.5	4.2	14.1
1300.0	2.7	356.0	1299.8	14.4	4.1	15.0
1320.0	2.6	358.0	1319.8	15.3	4.1	15.8
1340.0	2.6	355.0	1339.7	16.2	4.0	16.7
1360.0	2.4	354.0	1359.7	17.1	4.0	17.5
1380.0	2.5	349.0	1379.7	17.9	3.8	18.3
1400.0	2.2	345.0	1399.7	18.7	3.6	19.1
1420.0	2.2	347.0	1419.7	19.5	3.4	19.7
1440.0	2.2	338.0	1439.7	20.2	3.2	20.4
1460.0	2.0	332.0	1459.6	20.8	2.9	21.0
1480.0	2.0	328.0	1479.6	21.4	2.5	21.5
1500.0	2.0	335.0	1499.6	22.0	2.1	22.1
1520.0	2.0	333.0	1519.6	22.6	1.8	22.7
1540.0	2.0	329.0	1539.6	23.2	1.5	23.3
1560.0	2.0	329.0	1559.6	23.8	1.1	23.8
1580.0	2.0	328.0	1579.6	24.4	0.8	24.4
1600.0	2.0	324.0	1599.6	25.0	0.4	25.0
1620.0	2.0	321.0	1619.5	25.5	-0.0	25.5

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
1640.0	2.0	321.0	1639.5	26.1	-0.5	26.1
1660.0	2.0	317.0	1659.5	26.6	-0.9	26.6
1680.0	2.0	314.0	1679.5	27.1	-1.4	27.2
1700.0	2.0	316.0	1699.5	27.7	-1.9	27.7
1720.0	2.2	312.0	1719.5	28.2	-2.5	28.3
1740.0	2.4	317.0	1739.5	28.7	-3.0	28.9
1760.0	2.5	314.0	1759.5	29.3	-3.6	29.5
1780.0	2.2	313.0	1779.4	29.9	-4.2	30.2
1800.0	2.2	313.0	1799.4	30.4	-4.8	30.8
1820.0	2.2	313.0	1819.4	31.0	-5.4	31.4
1840.0	2.2	308.0	1839.4	31.5	-5.9	32.0
1860.0	2.2	306.0	1859.4	31.9	-6.6	32.6
1880.0	2.1	304.0	1879.4	32.3	-7.2	33.1
1900.0	2.3	306.0	1899.3	32.8	-7.8	33.7
1920.0	2.4	300.0	1919.3	33.2	-8.5	34.3
1940.0	2.6	301.0	1939.3	33.7	-9.3	34.9
1960.0	2.6	303.0	1959.3	34.1	-10.0	35.6
1980.0	2.5	303.0	1979.3	34.6	-10.8	36.3
2000.0	2.5	302.0	1999.2	35.1	-11.5	36.9
2020.0	2.6	302.0	2019.2	35.6	-12.3	37.6
2040.0	2.7	301.0	2039.2	36.0	-13.1	38.3
2060.0	2.7	307.0	2059.2	36.6	-13.8	39.1
2080.0	2.8	304.0	2079.2	37.1	-14.6	39.9
2100.0	2.8	301.0	2099.1	37.7	-15.4	40.7
2120.0	3.0	305.0	2119.1	38.2	-16.3	41.6
2140.0	3.0	306.0	2139.1	38.9	-17.1	42.5
2160.0	3.0	305.0	2159.1	39.4	-18.0	43.4
2180.0	3.2	306.0	2179.0	40.1	-18.9	44.3
2200.0	3.1	306.0	2199.0	40.7	-19.7	45.2
2220.0	3.4	308.0	2219.0	41.4	-20.7	46.3
2240.0	3.4	307.0	2238.9	42.1	-21.6	47.3
2260.0	3.5	308.0	2258.9	42.9	-22.6	48.4
2280.0	3.6	311.0	2278.9	43.7	-23.5	49.6
2300.0	3.6	310.0	2298.8	44.5	-24.5	50.8
2320.0	3.7	309.0	2318.8	45.3	-25.4	52.0
2340.0	3.9	311.0	2338.7	46.2	-26.4	53.2
2360.0	3.9	308.0	2358.7	47.0	-27.5	54.5
2380.0	4.0	307.0	2378.6	47.9	-28.6	55.8
2400.0	3.9	306.0	2398.6	48.7	-29.6	57.1
2420.0	4.1	309.0	2418.5	49.6	-30.7	58.4
2440.0	4.4	309.0	2438.5	50.6	-31.9	59.8
2460.0	4.4	309.0	2458.4	51.5	-33.1	61.2
2480.0	4.5	311.0	2478.4	52.5	-34.3	62.7
2500.0	4.6	311.0	2498.3	53.6	-35.5	64.2
2520.0	4.8	311.0	2518.2	54.6	-36.7	65.8
2540.0	4.8	312.0	2538.2	55.8	-38.0	67.4

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
2560.0	5.0	310.0	2558.1	56.9	-39.2	69.1
2580.0	5.1	311.0	2578.0	58.0	-40.6	70.8
2600.0	5.2	312.0	2597.9	59.2	-41.9	72.6
2620.0	5.2	311.0	2617.9	60.4	-43.3	74.3
2640.0	5.3	310.0	2637.8	61.6	-44.6	76.1
2660.0	5.3	309.0	2657.7	62.8	-46.1	77.9
2680.0	5.7	311.0	2677.6	64.1	-47.5	79.8
2700.0	5.6	312.0	2697.5	65.4	-49.0	81.7
2720.0	5.3	309.0	2717.4	66.6	-50.4	83.5
2740.0	5.7	307.0	2737.3	67.8	-51.9	85.4
2760.0	5.3	308.0	2757.2	69.0	-53.4	87.3
2780.0	5.9	308.0	2777.1	70.3	-54.9	89.2
2800.0	5.5	308.0	2797.0	71.5	-56.4	91.1
2820.0	5.6	305.0	2816.9	72.7	-58.0	93.0
2840.0	5.8	302.0	2836.8	73.8	-59.6	94.9
2860.0	5.9	302.0	2856.7	74.9	-61.4	96.8
2880.0	5.9	308.0	2876.6	76.1	-63.0	98.8
2900.0	6.0	305.0	2896.5	77.3	-64.7	100.8
2920.0	6.0	305.0	2916.4	78.5	-66.4	102.8
2940.0	6.1	302.0	2936.3	79.7	-68.1	104.8
2960.0	5.8	306.0	2956.2	80.8	-69.8	106.8
2980.0	5.4	305.0	2976.1	82.0	-71.4	108.7
3000.0	5.3	306.0	2996.0	83.1	-72.9	110.5
3020.0	5.2	306.0	3015.9	84.1	-74.4	112.3
3040.0	5.3	304.0	3035.8	85.2	-75.9	114.1
3060.0	5.2	310.0	3055.8	86.3	-77.4	115.9
3080.0	5.2	308.0	3075.7	87.4	-78.8	117.7
3100.0	5.4	308.0	3095.6	88.5	-80.3	119.5
3120.0	4.9	306.0	3115.5	89.6	-81.7	121.3
3140.0	5.2	303.0	3135.4	90.6	-83.2	123.0
3160.0	5.0	303.0	3155.4	91.5	-84.7	124.7
3180.0	4.8	301.0	3175.3	92.4	-86.1	126.4
3200.0	4.5	306.0	3195.2	93.3	-87.5	127.9
3220.0	4.4	307.0	3215.2	94.2	-88.8	129.4
3240.0	4.3	316.0	3235.1	95.2	-89.9	130.9
3260.0	4.2	320.0	3255.0	96.3	-90.9	132.4
3280.0	4.2	316.0	3275.0	97.4	-92.0	133.9
3300.0	4.1	315.0	3294.9	98.5	-92.9	135.4
3320.0	4.4	318.0	3314.9	99.6	-94.0	136.9
3340.0	4.2	320.0	3334.8	100.7	-95.0	138.4
3360.0	3.9	311.0	3354.8	101.9	-95.9	139.9
3380.0	4.3	316.0	3374.7	102.8	-96.9	141.3
3400.0	4.4	318.0	3394.7	103.9	-98.0	142.8
3420.0	4.5	320.0	3414.6	105.1	-99.0	144.4
3440.0	4.4	321.0	3434.5	106.2	-100.0	145.9
3460.0	4.4	321.0	3454.5	107.4	-101.0	147.4

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DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
3480.0	4.5	325.0	3474.4	108.7	-101.9	149.0
3500.0	4.4	326.0	3494.4	109.9	-102.8	150.5
3520.0	4.4	331.0	3514.3	111.2	-103.7	152.1
3540.0	4.4	328.0	3534.2	112.6	-104.5	153.6
3560.0	4.4	332.0	3554.2	113.9	-105.2	155.1
3580.0	4.4	330.0	3574.1	115.3	-106.0	156.6
3600.0	4.2	334.0	3594.1	116.6	-106.7	158.0
3620.0	5.2	334.0	3614.0	118.1	-107.4	159.6
3640.0	5.0	331.0	3633.9	119.6	-108.3	161.4
3660.0	4.6	337.0	3653.8	121.1	-109.0	162.9
3680.0	4.6	338.0	3673.8	122.6	-109.6	164.4
3700.0	4.7	339.0	3693.7	124.1	-110.2	166.0
3720.0	4.9	337.0	3713.6	125.6	-110.8	167.5
3740.0	4.9	335.0	3733.6	127.2	-111.5	169.2
3760.0	4.6	338.0	3753.5	128.7	-112.2	170.8
3780.0	5.2	338.0	3773.4	130.3	-112.9	172.4
3800.0	5.4	339.0	3793.3	132.0	-113.6	174.1
3820.0	5.5	333.0	3813.3	133.7	-114.3	175.9
3840.0	5.5	333.0	3833.2	135.4	-115.1	177.7
3860.0	5.4	333.0	3853.1	137.2	-116.0	179.6
3880.0	5.3	334.0	3873.0	138.8	-116.8	181.4
3900.0	5.3	334.0	3892.9	140.4	-117.7	183.2
3920.0	5.2	336.0	3912.8	142.1	-118.5	185.0
3940.0	5.4	335.0	3932.7	143.7	-119.2	186.7
3960.0	5.6	336.0	3952.6	145.5	-120.0	188.6
3980.0	5.5	338.0	3972.5	147.3	-120.8	190.5
4000.0	5.9	334.0	3992.4	149.1	-121.6	192.4
4020.0	5.4	336.0	4012.3	151.0	-122.4	194.3
4040.0	5.7	339.0	4032.2	152.7	-123.1	196.2
4060.0	5.6	337.0	4052.1	154.6	-123.9	198.1
4080.0	5.3	339.0	4072.1	156.4	-124.6	200.0
4100.0	5.2	340.0	4092.0	158.1	-125.3	201.7
4120.0	5.2	340.0	4111.9	159.8	-125.9	203.4
4140.0	5.2	335.0	4131.8	161.4	-126.6	205.2
4160.0	5.2	334.0	4151.7	163.1	-127.3	206.9
4180.0	5.2	333.0	4171.6	164.7	-128.2	208.7
4200.0	5.3	328.0	4191.6	166.4	-129.1	210.6
4220.0	5.6	328.0	4211.5	168.0	-130.0	212.4
4240.0	5.6	328.0	4231.4	169.6	-131.0	214.4
4260.0	5.4	331.0	4251.3	171.3	-132.0	216.3
4280.0	5.2	330.0	4271.2	173.0	-133.0	218.2
4300.0	5.3	330.0	4291.1	174.6	-133.9	220.0
4320.0	5.4	328.0	4311.0	176.2	-134.8	221.9
4340.0	5.5	328.0	4330.9	177.8	-135.9	223.8
4360.0	5.7	328.0	4350.8	179.4	-136.9	225.7
4380.0	5.7	327.0	4370.7	181.1	-138.0	227.7

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DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
4400.0	4.9	330.0	4390.6	182.7	-139.0	229.6
4420.0	6.0	333.0	4410.5	184.3	-139.9	231.4
4440.0	5.5	331.0	4430.4	186.1	-140.9	233.4
4460.0	5.5	330.0	4450.4	187.8	-141.8	235.3
4480.0	5.3	329.0	4470.3	189.5	-142.8	237.2
4500.0	5.7	329.0	4490.2	191.1	-143.8	239.1
4520.0	6.0	326.0	4510.1	192.7	-144.8	241.0
4540.0	5.7	326.0	4530.0	194.4	-146.0	243.1
4560.0	5.7	325.0	4549.9	196.0	-147.1	245.1
4580.0	5.7	323.0	4569.8	197.7	-148.2	247.1
4600.0	5.7	321.0	4589.7	199.3	-149.4	249.1
4620.0	5.6	318.0	4609.6	200.8	-150.7	251.0
4640.0	5.6	317.0	4629.5	202.3	-152.0	253.0
4660.0	5.9	318.0	4649.4	203.7	-153.3	255.0
4680.0	6.0	316.0	4669.3	205.2	-154.8	257.0
4700.0	5.9	315.0	4689.2	206.7	-156.2	259.1
4720.0	6.0	313.0	4709.1	208.2	-157.7	261.2
4740.0	5.9	313.0	4728.9	209.5	-159.2	263.2
4760.0	5.6	309.0	4748.8	210.9	-160.7	265.1
4780.0	5.7	311.0	4768.7	212.2	-162.2	267.1
4800.0	5.3	312.0	4788.7	213.4	-163.6	268.9
4820.0	5.2	307.0	4808.6	214.6	-165.1	270.7
4840.0	5.1	307.0	4828.5	215.7	-166.5	272.5
4860.0	5.2	300.0	4848.4	216.7	-168.0	274.2
4880.0	5.0	298.0	4868.3	217.6	-169.6	275.9
4900.0	5.2	297.0	4888.2	218.4	-171.2	277.5
4920.0	5.3	296.0	4908.2	219.2	-172.8	279.1
4940.0	5.2	295.0	4928.1	220.0	-174.4	280.8
4960.0	5.3	291.0	4948.0	220.8	-176.1	282.4
4980.0	5.4	296.0	4967.9	221.5	-177.8	284.1
5000.0	5.8	292.0	4987.8	222.3	-179.6	285.8
5020.0	5.8	291.0	5007.7	223.1	-181.5	287.6
5040.0	5.9	292.0	5027.6	223.8	-183.4	289.3
5060.0	6.0	292.0	5047.5	224.6	-185.3	291.2
5080.0	6.2	291.0	5067.4	225.4	-187.3	293.0
5100.0	6.2	291.0	5087.3	226.1	-189.3	294.9
5120.0	6.3	289.0	5107.1	226.9	-191.4	296.8
5140.0	6.5	292.0	5127.0	227.7	-193.5	298.8
5160.0	6.3	293.0	5146.9	228.5	-195.5	300.7
5180.0	6.5	294.0	5166.8	229.4	-197.6	302.7
5200.0	6.3	294.0	5186.6	230.3	-199.6	304.8
5220.0	6.4	294.0	5206.5	231.2	-201.6	306.8
5240.0	6.2	293.0	5226.4	232.1	-203.6	308.7
5260.0	6.0	292.0	5246.3	232.9	-205.6	310.7
5280.0	6.0	292.0	5266.2	233.7	-207.5	312.6
5300.0	6.0	292.0	5286.1	234.5	-209.5	314.4

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
5320.0	5.8	290.0	5306.0	235.2	-211.4	316.2
5340.0	5.6	288.0	5325.9	235.9	-213.3	318.0
5360.0	5.7	285.0	5345.8	236.4	-215.1	319.7
5380.0	5.5	286.0	5365.7	236.9	-217.0	321.3
5400.0	5.2	283.0	5385.6	237.4	-218.8	322.9
5420.0	5.4	282.0	5405.5	237.8	-220.6	324.4
5440.0	5.6	279.0	5425.4	238.1	-222.5	325.9
5460.0	5.6	277.0	5445.3	238.4	-224.4	327.4
5480.0	5.7	275.0	5465.2	238.6	-226.4	328.9
5500.0	5.7	277.0	5485.1	238.9	-228.4	330.5
5520.0	5.8	274.0	5505.0	239.1	-230.3	332.0
5540.0	6.0	275.0	5524.9	239.3	-232.4	333.5
5560.0	6.0	274.0	5544.8	239.4	-234.5	335.1
5580.0	5.7	271.0	5564.7	239.5	-236.5	336.6
5600.0	6.1	272.0	5584.6	239.5	-238.6	338.1
5620.0	5.8	269.0	5604.5	239.5	-240.6	339.5
5640.0	5.8	268.0	5624.4	239.5	-242.6	340.9
5660.0	6.0	267.0	5644.3	239.4	-244.7	342.3
5680.0	5.9	267.0	5664.2	239.3	-246.7	343.7
5700.0	5.6	267.0	5684.1	239.2	-248.7	345.0
5720.0	5.3	267.0	5704.0	239.1	-250.6	346.3
5740.0	5.2	264.0	5723.9	238.9	-252.4	347.6
5760.0	5.0	266.0	5743.8	238.8	-254.2	348.7
5780.0	4.8	267.0	5763.8	238.7	-255.9	349.9
5800.0	4.8	267.0	5783.7	238.6	-257.6	351.1
5820.0	4.7	268.0	5803.6	238.5	-259.2	352.2
5840.0	4.6	270.0	5823.5	238.5	-260.8	353.4
5860.0	4.6	276.0	5843.5	238.6	-262.4	354.7
5880.0	4.6	274.0	5863.4	238.7	-264.0	355.9
5900.0	4.6	277.0	5883.4	238.9	-265.6	357.2
5920.0	4.8	278.0	5903.3	239.1	-267.2	358.6
5940.0	5.0	277.0	5923.2	239.3	-268.9	360.0
5960.0	5.0	277.0	5943.1	239.5	-270.6	361.4
5980.0	5.0	277.0	5963.1	239.7	-272.4	362.9
6000.0	5.2	278.0	5983.0	240.0	-274.1	364.3
6020.0	5.1	278.0	6002.9	240.2	-275.9	365.8
6040.0	5.2	279.0	6022.8	240.5	-277.7	367.3
6060.0	5.2	279.0	6042.7	240.8	-279.5	368.9
6080.0	5.0	282.0	6062.7	241.1	-281.2	370.4
6100.0	5.2	279.0	6082.6	241.4	-282.9	371.9
6120.0	5.2	282.0	6102.5	241.7	-284.7	373.5
6140.0	4.9	282.0	6122.4	242.1	-286.4	375.1
6160.0	4.9	284.0	6142.4	242.5	-288.1	376.6
6180.0	5.1	285.0	6162.3	242.9	-289.8	378.1
6200.0	5.1	288.0	6182.2	243.4	-291.5	379.7
6220.0	5.2	288.0	6202.1	243.9	-293.2	381.4

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DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
6240.0	5.0	289.0	6222.0	244.5	-294.8	383.0
6260.0	5.0	289.0	6242.0	245.1	-296.5	384.7
6280.0	5.0	290.0	6261.9	245.6	-298.2	386.3
6300.0	5.0	290.0	6281.8	246.2	-299.8	387.9
6320.0	5.1	289.0	6301.7	246.8	-301.4	389.6
6340.0	5.1	288.0	6321.7	247.4	-303.1	391.2
6360.0	4.8	288.0	6341.6	247.9	-304.7	392.8
6380.0	5.2	288.0	6361.5	248.5	-306.3	394.5
6400.0	5.3	288.0	6381.4	249.0	-308.1	396.2
6420.0	5.2	287.0	6401.3	249.6	-309.8	397.8
6440.0	5.2	289.0	6421.3	250.1	-311.5	399.5
6460.0	5.2	286.0	6441.2	250.7	-313.3	401.2
6480.0	5.2	287.0	6461.1	251.2	-315.0	402.9
6500.0	5.1	287.0	6481.0	251.8	-316.7	404.6
6520.0	5.2	286.0	6500.9	252.3	-318.5	406.3
6540.0	5.1	287.0	6520.9	252.8	-320.2	408.0
6560.0	5.2	288.0	6540.8	253.3	-321.9	409.6
6580.0	5.2	285.0	6560.7	253.9	-323.6	411.3
6600.0	5.2	282.0	6580.6	254.3	-325.3	412.9
6620.0	5.2	284.0	6600.5	254.7	-327.1	414.6
6640.0	5.1	280.0	6620.5	255.1	-328.9	416.2
6660.0	5.2	278.0	6640.4	255.3	-330.6	417.8
6680.0	5.2	278.0	6660.3	255.6	-332.4	419.3
6700.0	5.1	277.0	6680.2	255.8	-334.2	420.9
6720.0	5.2	277.0	6700.1	256.0	-336.0	422.4
6740.0	5.2	276.0	6720.0	256.2	-337.8	424.0
6760.0	5.0	275.0	6740.0	256.4	-339.6	425.5
6780.0	4.8	275.0	6759.9	256.5	-341.3	426.9
6800.0	4.7	275.0	6779.8	256.7	-342.9	428.3
6820.0	4.6	276.0	6799.8	256.8	-344.5	429.7
6840.0	4.6	276.0	6819.7	257.0	-346.1	431.1
6860.0	4.8	277.0	6839.6	257.2	-347.7	432.5
6880.0	4.1	281.0	6859.6	257.5	-349.3	433.9
6900.0	4.0	281.0	6879.5	257.8	-350.7	435.3
6920.0	4.4	281.0	6899.5	258.1	-352.2	436.6
6940.0	4.1	286.0	6919.4	258.4	-353.7	438.0
6960.0	4.6	284.0	6939.3	258.8	-355.1	439.4
6980.0	5.4	283.0	6959.3	259.2	-356.8	441.0
7000.0	5.7	281.0	6979.2	259.6	-358.7	442.8
7020.0	6.2	279.0	6999.1	260.0	-360.7	444.7
7040.0	6.7	276.0	7018.9	260.3	-363.0	446.7
7060.0	6.4	275.0	7038.8	260.5	-365.3	448.6
7080.0	5.9	272.0	7058.7	260.6	-367.4	450.5
7100.0	5.2	273.0	7078.6	260.7	-369.3	452.1
7120.0	5.2	272.0	7098.5	260.8	-371.2	453.6
7140.0	4.9	274.0	7118.4	260.9	-372.9	455.1

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
7160.0	5.0	271.0	7138.4	261.0	-374.6	456.6
7180.0	5.0	272.0	7158.3	261.1	-376.4	458.0
7200.0	4.6	275.0	7178.2	261.1	-378.0	459.4
7220.0	4.5	274.0	7198.2	261.3	-379.6	460.8
7240.0	4.1	273.0	7218.1	261.5	-381.1	462.2
7260.0	4.3	276.0	7238.0	261.5	-382.6	463.4
7280.0	3.9	277.0	7258.0	261.7	-384.0	464.7
7300.0	3.9	273.0	7277.9	261.8	-385.4	465.9
7320.0	3.8	272.0	7297.9	261.9	-386.7	467.1
7340.0	3.6	273.0	7317.9	262.0	-388.0	468.2
7360.0	3.6	275.0	7337.8	262.1	-389.2	469.3
7380.0	3.5	274.0	7357.8	262.2	-390.5	470.3
7400.0	3.2	275.0	7377.7	262.3	-391.7	471.4
7420.0	3.0	270.0	7397.7	262.3	-392.7	472.3
7440.0	3.5	274.0	7417.7	262.4	-393.9	473.3
7460.0	3.0	275.0	7437.6	262.4	-395.0	474.2
7480.0	3.1	270.0	7457.6	262.5	-396.0	475.1
7500.0	2.9	274.0	7477.6	262.5	-397.1	476.0
7520.0	2.5	277.0	7497.6	262.6	-398.1	476.9
7540.0	2.2	270.0	7517.6	262.6	-398.9	477.6
7560.0	2.4	267.0	7537.5	262.6	-399.7	478.2
7580.0	2.3	261.0	7557.5	262.6	-400.6	478.9
7600.0	2.0	262.0	7577.5	262.4	-401.3	479.5
7620.0	2.0	256.0	7597.5	262.3	-402.0	480.0
7640.0	2.0	257.0	7617.5	262.1	-402.7	480.5
7660.0	2.1	257.0	7637.5	262.0	-403.4	481.0
7680.0	2.0	254.0	7657.5	261.8	-404.1	481.5
7700.0	2.0	250.0	7677.4	261.6	-404.8	481.9
7720.0	2.0	256.0	7697.4	261.4	-405.4	482.4
7740.0	2.1	256.0	7717.4	261.2	-406.1	482.9
7760.0	2.0	249.0	7737.4	261.0	-406.8	483.3
7780.0	2.2	261.0	7757.4	260.8	-407.5	483.8
7800.0	2.0	258.0	7777.4	260.6	-408.2	484.3
7820.0	2.2	254.0	7797.4	260.5	-408.9	484.8
7840.0	2.4	254.0	7817.3	260.2	-409.7	485.3
7860.0	2.6	265.0	7837.3	260.1	-410.5	486.0
7880.0	2.8	266.0	7857.3	260.0	-411.5	486.7
7900.0	2.4	262.0	7877.3	259.9	-412.4	487.5
7920.0	2.0	255.0	7897.3	259.8	-413.1	488.0
7940.0	2.5	256.0	7917.3	259.6	-413.8	488.5
7960.0	2.2	252.0	7937.2	259.4	-414.7	489.1
7980.0	2.5	258.0	7957.2	259.1	-415.5	489.7
8000.0	2.3	250.0	7977.2	258.9	-416.2	490.2
8020.0	2.1	249.0	7997.2	258.7	-417.0	490.7
8040.0	2.0	248.0	8017.2	258.4	-417.7	491.1
8060.0	2.3	246.0	8037.2	258.1	-418.3	491.6

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DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
8080.0	2.5	245.0	8057.1	257.7	-419.1	492.0
8100.0	2.8	244.0	8077.1	257.3	-419.9	492.5
8120.0	2.8	244.0	8097.1	256.9	-420.8	493.0
8140.0	2.7	245.0	8117.1	256.5	-421.6	493.5
8160.0	2.5	247.0	8137.1	256.1	-422.5	494.0
8180.0	2.6	247.0	8157.0	255.7	-423.3	494.5
8200.0	2.4	240.0	8177.0	255.4	-424.1	495.0
8220.0	2.6	251.0	8197.0	255.0	-424.8	495.5
8240.0	2.1	250.0	8217.0	254.7	-425.6	496.0
8260.0	2.1	253.0	8237.0	254.5	-426.3	496.5
8280.0	2.0	252.0	8257.0	254.2	-427.0	497.0
8300.0	1.9	264.0	8276.9	254.1	-427.6	497.4
8320.0	1.5	262.0	8296.9	254.0	-428.2	497.9
8340.0	1.2	270.0	8316.9	254.0	-428.7	498.3
8360.0	1.1	266.0	8336.9	254.0	-429.1	498.6
8380.0	0.7	258.0	8356.9	253.9	-429.4	498.8
8400.0	0.9	268.0	8376.9	253.9	-429.7	499.1
8420.0	0.6	268.0	8396.9	253.9	-429.9	499.3
8440.0	0.5	252.0	8416.9	253.9	-430.1	499.4
8460.0	0.7	268.0	8436.9	253.8	-430.3	499.6
8480.0	0.6	253.0	8456.9	253.8	-430.5	499.7
8500.0	0.8	243.7	8476.9	253.7	-430.7	499.9
8520.0	0.7	229.0	8496.9	253.6	-431.0	500.0
8540.0	0.6	219.0	8516.9	253.4	-431.1	500.1
8560.0	0.5	208.0	8536.9	253.2	-431.2	500.1
8580.0	0.5	180.0	8556.9	253.1	-431.3	500.0
8600.0	0.5	148.0	8576.9	252.9	-431.2	499.9
8620.0	0.5	111.0	8596.9	252.8	-431.1	499.8
8640.0	0.6	91.0	8616.9	252.8	-430.9	499.6
8660.0	0.8	61.0	8636.9	252.8	-430.7	499.4
8680.0	0.9	66.0	8656.9	253.0	-430.4	499.2
8700.0	1.1	58.0	8676.9	253.1	-430.1	499.1
8720.0	1.1	59.0	8696.9	253.3	-429.8	498.9
8740.0	1.2	60.0	8716.9	253.5	-429.4	498.7
8760.0	1.2	54.0	8736.9	253.8	-429.1	498.5
8780.0	1.8	40.0	8756.9	254.1	-428.7	498.4
8800.0	1.7	26.0	8776.9	254.6	-428.4	498.4
8820.0	2.0	24.0	8796.9	255.2	-428.1	498.4
8840.0	2.4	28.0	8816.8	255.9	-427.8	498.5
8860.0	2.6	25.0	8836.8	256.7	-427.4	498.5
8880.0	2.7	30.0	8856.8	257.5	-427.0	498.6
8900.0	2.5	36.0	8876.8	258.3	-426.4	498.5
8920.0	2.6	39.0	8896.8	259.0	-425.9	498.4
8940.0	2.3	45.0	8916.7	259.6	-425.3	498.3
8960.0	2.0	60.0	8936.7	260.0	-424.7	498.0
8980.0	1.9	51.0	8956.7	260.4	-424.2	497.7

DEPTH FEET	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FEET	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FEET
9000.0	0.8	71.0	8976.7	260.6	-423.8	497.5
9020.0	1.2	75.0	8996.7	260.7	-423.5	497.3
9040.0	0.9	85.0	9016.7	260.8	-423.1	497.0
9060.0	1.4	106.0	9036.7	260.8	-422.7	496.7
9066.0	8.5	109.0	9042.7	260.6	-422.2	496.2

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*                    BOTTOM HOLE LOCATION                               *
*                                                                       *
*                    COURSE LENGTH:          496.2  FEET                *
*                                                                       *
*                    COURSE AZIMUTH:         301.7  DEGREES             *
*                                                                       *
*                                                                       *
*                    MEASURED DEPTH:        9066.0  FEET                *
*                                                                       *
*                    TRUE VERTICAL DEPTH:   9042.7  FEET                *
*                                                                       *
*                    DISTANCE NORTH:         260.6  FEET                *
*                                                                       *
*                    DISTANCE WEST:          422.2  FEET                *
*                                                                       *
*                                                                       *
*                    EXACT RADIUS OF CURVATURE METHOD                   *
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                                 *   CORIBAND   *
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                                 * SCHLUMBERGER *
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COMPANY    FOREST OIL COMPANY

WELL       SIGORD UNIT #1

FIELD      WILDCAT

COUNTY     SEVIER

STATE      UTAH

DATE       MAY 2,1979                                JOB # [10066,71235]

COMPUTED AT:-  ROCKY MOUNTAIN COMPUTING CENTER

*****************************************************************

THIS JOB IS LISTED FROM TOP TO BOTTOM
THIS IS A 01 FOOT LISTING
LISTING IS DISCRIMINATED FOR VSH>50%
LISTING IS DISCRIMINATED FOR PHI<1.9%
PERMEABILITY = (62500(PHI**6))/(SW**2)      [10%<SW<50%]

THE FOLLOWING PARAMETERS WERE USED IN THIS COMPUTATION:

 POROSITY NORMALIZATION: DENSITY +.00 GM/CC  NEUTRON NONE PU;

START STOP  RW   RMF  TEMP DTSH PNSH RBSH GR1 GR2 RSH A M     N    RHY
 8468  8350  .03  .02  160  65  15  2.71  35  100  30 1 2.00 2.00 .8
 8350  7092  .03  .03  160  65  15  2.71  35  100  30 1 2.00 2.00 .8
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Schlumberger

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                          *   CORIBAND   *
                          ****************
                          * SCHLUMBERGER *
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COMPANY   FOREST OIL COMPANY

WELL      SIGORD UNIT #1

FIELD     WILDCAT

COUNTY    SEVIER

STATE     UTAH

DATE      MAY 2,1979                          JOB # [10066,71235]

COMPUTED AT:-  ROCKY MOUNTAIN COMPUTING CENTER

*****************************************************************

THIS JOB IS LISTED FROM TOP TO BOTTOM
THIS IS A 01 FOOT LISTING
LISTING IS DISCRIMINATED FOR VSH>50%
LISTING IS DISCRIMINATED FOR PHI<1.9%
PERMEABILITY = (62500(PHI**6))/(SW**2)      [10%<SW<50%]

THE FOLLOWING PARAMETERS WERE USED IN THIS COMPUTATION:

 POROSITY NORMALIZATION: DENSITY +.00 GM/CC  NEUTRON NONE PU;

START STOP  RW   RMF  TEMP DTSH PNSH RBSH GR1 GR2 RSH A M     N    RHY
 8468  8350  .03  .02  160  65  15  2.71  35  100  30 1 2.00 2.00 .8
 8350  7092  .03  .03  160  65  15  2.71  35  100  30 1 2.00 2.00 .8
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Schlumberger

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7112.0	0.00	100	2.9	0.0	2.61	43	35.34	6.36
7113.0	0.00	89	3.5	0.0	2.62	34	35.31	6.35
7125.0	0.00	100	2.6	0.0	2.64	48	35.23	6.35
7126.0	0.00	99	2.6	0.0	2.63	41	35.20	6.35
7127.0	0.00	100	2.3	0.0	2.64	44	35.18	6.35
7128.0	0.00	78	3.2	0.0	2.65	47	35.15	6.35
7166.0	0.00	99	4.5	0.0	2.61	48	35.10	6.34
7167.0	0.00	99	4.5	0.0	2.61	35	35.06	6.34
7168.0	0.00	100	3.4	0.0	2.65	33	35.01	6.34
7169.0	0.00	100	2.7	0.0	2.64	36	34.98	6.34
7170.0	0.00	100	2.4	0.0	2.64	39	34.96	6.34
7171.0	0.00	100	2.8	0.0	2.64	43	34.93	6.34
7172.0	0.00	100	2.1	0.0	2.63	49	34.91	6.34
7180.0	0.00	100	3.5	0.0	2.63	45	34.88	6.34
7183.0	0.00	100	2.6	0.0	2.64	49	34.81	6.34
7203.0	0.04	100	7.3	0.0	2.74	45	34.77	6.34
7204.0	0.25	100	10.0	0.0	2.70	32	34.69	6.34
7205.0	0.90	100	12.4	0.0	2.69	22	34.58	6.34
7206.0	1.14	98	12.9	0.0	2.69	16	34.45	6.34
7207.0	0.61	99	11.6	0.0	2.70	13	34.33	6.34
7208.0	0.69	98	11.8	0.0	2.69	13	34.21	6.34
7209.0	0.78	98	12.1	0.0	2.69	14	34.09	6.34
7210.0	0.63	99	11.7	0.0	2.70	13	33.97	6.33
7211.0	0.72	99	11.9	0.0	2.71	15	33.86	6.33
7212.0	1.72	93	13.8	0.0	2.69	9	33.73	6.33
7213.0	2.68	86	14.8	0.0	2.69	7	33.59	6.32
7214.0	1.91	93	14.0	0.0	2.69	8	33.44	6.30
7215.0	1.84	95	13.9	0.0	2.67	13	33.30	6.29
7216.0	1.81	94	13.9	0.0	2.66	13	33.16	6.28
7217.0	1.68	94	13.7	0.0	2.67	12	33.03	6.27
7218.0	1.39	97	13.3	0.0	2.69	13	32.89	6.27
7219.0	1.68	95	13.7	0.0	2.69	16	32.75	6.27
7220.0	1.43	99	13.4	0.0	2.68	17	32.62	6.26
7221.0	1.51	99	13.5	0.0	2.68	17	32.49	6.26
7222.0	0.69	100	11.8	0.0	2.66	24	32.35	6.26
7223.0	0.57	100	11.5	0.0	2.66	25	32.24	6.26
7224.0	0.76	100	12.0	0.0	2.68	23	32.12	6.26
7225.0	0.76	100	12.0	0.0	2.67	23	32.00	6.26
7226.0	0.73	100	12.0	0.0	2.65	23	31.88	6.26
7227.0	0.67	100	11.8	0.0	2.64	24	31.76	6.26
7228.0	0.65	100	11.7	0.0	2.64	24	31.64	6.26
7229.0	0.76	100	12.0	0.0	2.64	23	31.53	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7230.0	1.07	100	12.7	0.0	2.64	20	31.40	6.26
7231.0	1.16	100	12.9	0.4	2.64	19	31.27	6.26
7232.0	0.38	100	10.7	0.0	2.64	29	31.15	6.26
7233.0	0.02	100	6.8	0.0	2.63	47	31.05	6.26
7235.0	0.02	100	6.6	0.0	2.69	49	31.02	6.26
7236.0	0.09	100	8.5	0.0	2.70	39	30.95	6.26
7237.0	0.16	100	9.3	0.0	2.68	35	30.86	6.26
7238.0	0.15	100	9.2	0.0	2.66	36	30.77	6.26
7239.0	0.20	100	9.6	0.0	2.68	34	30.68	6.26
7240.0	0.17	100	9.4	0.0	2.68	35	30.58	6.26
7241.0	0.10	100	8.6	0.0	2.65	38	30.49	6.26
7242.0	0.09	100	8.4	0.0	2.66	39	30.40	6.26
7243.0	0.06	100	7.9	0.0	2.66	42	30.32	6.26
7244.0	0.08	100	8.3	0.0	2.64	40	30.24	6.26
7245.0	0.09	100	8.4	0.0	2.64	40	30.15	6.26
7246.0	0.05	100	7.7	0.0	2.66	43	30.07	6.26
7247.0	0.19	100	9.5	0.0	2.70	34	29.99	6.26
7248.0	0.30	100	10.3	0.0	2.72	29	29.89	6.26
7249.0	0.22	100	9.8	0.0	2.70	33	29.79	6.26
7250.0	0.12	100	8.8	0.0	2.68	37	29.70	6.26
7251.0	0.20	100	9.6	0.0	2.69	34	29.61	6.26
7252.0	0.29	100	10.3	0.0	2.67	31	29.51	6.26
7253.0	0.21	100	9.7	0.3	2.64	32	29.41	6.26
7254.0	0.19	100	9.6	0.0	2.66	34	29.31	6.26
7255.0	0.14	100	9.1	0.0	2.64	36	29.22	6.26
7256.0	0.18	100	9.5	0.0	2.64	34	29.12	6.26
7257.0	0.26	100	10.1	0.0	2.67	32	29.03	6.26
7258.0	0.42	100	10.9	0.0	2.69	28	28.92	6.26
7259.0	0.71	100	11.9	0.0	2.69	24	28.81	6.26
7260.0	0.60	100	11.6	0.0	2.68	25	28.69	6.26
7261.0	0.53	100	11.4	0.0	2.67	26	28.58	6.26
7262.0	0.46	100	11.1	0.0	2.65	27	28.46	6.26
7263.0	0.46	100	11.1	0.0	2.65	27	28.35	6.26
7264.0	0.29	100	10.2	0.0	2.65	31	28.24	6.26
7265.0	0.23	100	9.9	0.0	2.65	33	28.14	6.26
7266.0	0.47	100	11.1	0.0	2.64	27	28.04	6.26
7267.0	0.69	100	11.8	0.0	2.64	24	27.93	6.26
7268.0	0.30	100	10.3	0.0	2.64	31	27.81	6.26
7269.0	0.10	100	8.6	0.0	2.66	39	27.72	6.26
7270.0	0.08	100	8.3	0.0	2.67	37	27.63	6.26
7271.0	0.08	100	8.3	0.0	2.67	40	27.55	6.26
7272.0	0.10	100	8.5	0.0	2.70	36	27.47	6.26
7273.0	0.14	100	9.0	0.0	2.68	36	27.38	6.26
7274.0	0.19	100	9.6	0.0	2.67	34	27.29	6.26
7275.0	0.12	100	8.9	0.0	2.66	37	27.19	6.26
7276.0	0.10	100	8.6	0.0	2.65	39	27.11	6.26
7277.0	0.11	100	8.7	0.0	2.66	38	27.02	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7278.0	0.12	100	8.9	0.0	2.68	37	26.93	6.26
7279.0	0.31	100	10.4	0.0	2.70	30	26.84	6.26
7280.0	0.35	100	10.6	0.0	2.67	29	26.74	6.26
7281.0	0.31	100	10.4	0.0	2.66	30	26.63	6.26
7282.0	0.30	100	10.3	0.0	2.67	31	26.53	6.26
7283.0	0.22	100	9.8	0.0	2.67	33	26.43	6.26
7284.0	0.24	100	9.9	0.0	2.66	32	26.33	6.26
7285.0	0.25	100	10.0	0.0	2.66	32	26.23	6.26
7286.0	0.31	100	10.3	0.0	2.66	30	26.13	6.26
7287.0	0.25	100	10.0	0.0	2.66	32	26.02	6.26
7288.0	0.08	100	8.3	0.0	2.66	40	25.93	6.26
7289.0	0.04	100	7.3	0.0	2.65	45	25.85	6.26
7290.0	0.03	100	7.2	0.0	2.64	45	25.78	6.26
7291.0	0.02	100	6.7	0.0	2.64	48	25.71	6.26
7296.0	0.03	100	7.0	0.0	2.71	46	25.67	6.26
7297.0	0.07	100	8.1	0.0	2.73	41	25.60	6.26
7298.0	0.08	100	8.3	0.0	2.65	40	25.52	6.26
7299.0	0.18	100	9.5	0.0	2.64	34	25.43	6.26
7300.0	0.15	100	9.1	0.0	2.65	36	25.34	6.26
7301.0	0.03	100	6.9	0.0	2.62	47	25.25	6.26
7312.0	0.02	100	6.4	0.0	2.67	49	25.22	6.26
7313.0	0.02	100	6.6	0.0	2.65	48	25.15	6.26
7315.0	0.02	100	6.6	0.0	2.65	48	25.09	6.26
7316.0	0.04	100	7.3	0.0	2.64	45	25.02	6.26
7317.0	0.05	100	7.7	0.0	2.64	43	24.94	6.26
7318.0	0.05	100	7.7	0.0	2.64	43	24.87	6.26
7319.0	0.06	100	7.8	0.0	2.65	42	24.79	6.26
7320.0	0.05	100	7.7	0.0	2.64	43	24.71	6.26
7321.0	0.06	100	7.8	0.0	2.66	42	24.63	6.26
7322.0	0.03	100	6.9	0.0	2.65	47	24.56	6.26
7323.0	0.07	100	8.2	0.0	2.64	40	24.49	6.26
7324.0	0.20	100	9.7	0.0	2.64	33	24.40	6.26
7325.0	0.18	100	9.5	0.0	2.64	34	24.30	6.26
7326.0	0.10	100	8.6	0.0	2.65	38	24.21	6.26
7327.0	0.16	100	9.3	0.0	2.65	35	24.12	6.26
7328.0	0.11	100	8.7	0.0	2.60	38	24.03	6.26
7329.0	0.04	100	7.4	0.0	2.62	44	23.95	6.26
7330.0	0.11	100	8.8	0.0	2.64	38	23.87	6.26
7331.0	0.07	100	8.0	0.0	2.64	41	23.78	6.26
7332.0	0.03	100	7.0	0.0	2.63	46	23.71	6.26
7333.0	0.04	100	7.3	0.0	2.68	45	23.64	6.26
7334.0	0.08	100	8.2	0.0	2.69	39	23.56	6.26
7335.0	0.06	100	7.8	0.0	2.65	41	23.48	6.26
7336.0	0.05	100	7.6	0.0	2.63	42	23.40	6.26
7388.0	0.14	100	9.1	0.0	2.68	36	23.30	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7389.0	0.31	100	10.3	0.0	2.66	30	23.20	6.26
7390.0	0.33	100	10.5	0.0	2.67	30	23.10	6.26
7391.0	0.33	100	10.5	0.0	2.66	30	22.99	6.26
7392.0	0.25	100	10.0	0.0	2.64	32	22.89	6.26
7393.0	0.17	100	9.4	0.0	2.65	35	22.79	6.26
7394.0	0.30	100	10.3	0.0	2.67	30	22.70	6.26
7395.0	0.41	99	10.8	0.0	2.68	24	22.59	6.26
7396.0	0.39	99	10.8	0.0	2.68	23	22.49	6.26
7397.0	0.46	99	11.1	0.0	2.69	22	22.38	6.26
7398.0	0.63	99	11.7	0.0	2.68	24	22.27	6.26
7399.0	0.52	100	11.3	0.0	2.69	25	22.15	6.26
7400.0	0.35	100	10.6	0.0	2.72	20	22.04	6.26
7401.0	0.17	100	9.4	0.0	2.70	21	21.94	6.26
7402.0	0.28	100	10.2	0.0	2.67	25	21.84	6.26
7403.0	0.35	100	10.6	0.0	2.67	29	21.74	6.26
7404.0	0.23	100	9.8	0.0	2.66	33	21.63	6.26
7405.0	0.24	100	9.9	0.0	2.64	32	21.53	6.26
7406.0	0.31	100	10.4	0.0	2.64	30	21.43	6.26
7407.0	0.24	100	9.9	0.0	2.66	32	21.33	6.26
7408.0	0.21	100	9.7	0.0	2.67	33	21.23	6.26
7409.0	0.19	100	9.6	0.0	2.66	34	21.13	6.26
7410.0	0.15	100	9.1	0.0	2.64	36	21.04	6.26
7411.0	0.16	100	9.3	0.0	2.65	35	20.95	6.26
7412.0	0.10	100	8.7	0.0	2.66	38	20.86	6.26
7413.0	0.09	100	8.4	0.0	2.69	40	20.77	6.26
7414.0	0.10	100	8.6	0.0	2.69	38	20.69	6.26
7415.0	0.20	100	9.6	0.0	2.68	34	20.60	6.26
7416.0	0.17	100	9.4	0.4	2.67	32	20.50	6.26
7417.0	0.19	100	9.6	0.0	2.65	34	20.41	6.26
7418.0	0.14	100	9.1	0.0	2.66	36	20.31	6.26
7419.0	0.13	100	9.0	0.0	2.64	36	20.22	6.26
7420.0	0.12	100	8.8	0.0	2.64	37	20.13	6.26
7421.0	0.15	100	9.2	0.0	2.67	36	20.04	6.26
7422.0	0.09	100	8.5	0.0	2.69	39	19.95	6.26
7423.0	0.03	100	6.9	0.0	2.69	46	19.87	6.26
7424.0	0.06	100	8.0	0.0	2.68	41	19.80	6.26
7425.0	0.10	100	8.5	0.0	2.68	39	19.72	6.26
7426.0	0.06	100	7.8	0.0	2.64	42	19.63	6.26
7427.0	0.05	100	7.7	0.0	2.64	43	19.56	6.26
7428.0	0.02	100	6.6	0.0	2.65	48	19.48	6.26
7431.0	0.05	100	7.7	0.0	2.70	43	19.38	6.26
7432.0	0.05	100	7.6	0.0	2.66	43	19.30	6.26
7433.0	0.09	100	8.4	0.0	2.68	39	19.23	6.26
7434.0	0.14	100	9.1	0.0	2.68	36	19.14	6.26
7435.0	0.12	100	8.9	0.0	2.68	37	19.05	6.26
7436.0	0.06	100	7.8	0.0	2.65	42	18.96	6.26
7437.0	0.07	100	8.1	0.0	2.64	41	18.89	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7438.0	0.14	100	9.1	0.0	2.64	36	18.80	6.26
7439.0	0.17	100	9.4	0.0	2.63	35	18.71	6.26
7440.0	0.09	100	8.5	0.0	2.66	39	18.62	6.26
7441.0	0.09	100	8.4	0.0	2.67	40	18.53	6.26
7442.0	0.06	100	7.9	0.0	2.63	42	18.45	6.26
7443.0	0.05	100	7.6	0.0	2.64	43	18.37	6.26
7444.0	0.05	100	7.6	0.0	2.67	43	18.29	6.26
7445.0	0.09	100	8.4	0.0	2.69	39	18.22	6.26
7446.0	0.21	100	9.7	0.0	2.69	33	18.13	6.26
7447.0	0.25	100	10.0	0.0	2.65	32	18.03	6.26
7448.0	0.81	100	12.2	0.0	2.63	22	17.93	6.26
7449.0	0.31	100	10.4	0.8	2.64	24	17.80	6.26
7450.0	0.14	100	9.1	0.0	2.64	36	17.71	6.26
7451.0	0.07	100	8.0	0.0	2.67	41	17.62	6.26
7452.0	0.07	100	8.2	0.0	2.68	41	17.54	6.26
7453.0	0.06	100	8.0	0.0	2.66	41	17.46	6.26
7454.0	0.07	100	8.1	0.0	2.63	41	17.38	6.26
7455.0	0.07	100	8.1	0.0	2.66	41	17.30	6.26
7456.0	0.05	100	7.7	0.0	2.68	43	17.22	6.26
7457.0	0.06	100	7.8	0.0	2.70	42	17.14	6.26
7458.0	0.10	100	8.6	0.0	2.70	38	17.06	6.26
7459.0	0.26	100	10.1	0.0	2.67	32	16.97	6.26
7460.0	0.18	100	9.5	0.0	2.65	34	16.87	6.26
7461.0	0.18	100	9.5	0.0	2.66	34	16.78	6.26
7462.0	0.12	100	8.8	0.0	2.65	37	16.68	6.26
7463.0	0.05	100	7.6	0.0	2.65	43	16.60	6.26
7464.0	0.03	100	7.2	0.0	2.66	45	16.53	6.26
7465.0	0.07	100	8.1	0.0	2.68	41	16.45	6.26
7466.0	0.07	100	8.0	0.0	2.70	41	16.37	6.26
7467.0	0.04	100	7.4	0.0	2.69	44	16.29	6.26
7469.0	0.02	100	6.5	0.0	2.65	49	16.19	6.26
7470.0	0.02	100	6.5	0.0	2.65	49	16.12	6.26
7477.0	0.04	100	7.4	0.0	2.68	44	16.02	6.26
7478.0	0.07	100	8.2	0.0	2.66	41	15.95	6.26
7479.0	0.08	100	8.4	0.0	2.65	40	15.87	6.26
7480.0	0.14	100	9.1	0.0	2.67	36	15.78	6.26
7481.0	0.15	100	9.2	0.0	2.69	36	15.69	6.26
7482.0	0.10	100	8.6	0.0	2.67	38	15.60	6.26
7483.0	0.13	100	9.0	0.0	2.67	37	15.51	6.26
7484.0	0.09	100	8.4	0.0	2.64	39	15.42	6.26
7485.0	0.04	100	7.4	0.0	2.64	44	15.34	6.26
7491.0	0.02	100	6.5	0.0	2.64	49	15.27	6.26
7493.0	0.03	100	7.2	0.0	2.69	45	15.20	6.26
7494.0	0.05	100	7.6	0.0	2.70	43	15.13	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7495.0	0.05	100	7.7	0.0	2.70	43	15.06	6.26
7496.0	0.08	100	8.2	0.0	2.72	40	14.98	6.26
7497.0	0.13	100	9.0	0.0	2.71	37	14.89	6.26
7498.0	0.17	100	9.4	0.0	2.70	35	14.80	6.26
7499.0	0.12	100	8.8	0.0	2.65	37	14.71	6.26
7500.0	0.21	100	9.7	0.0	2.64	33	14.62	6.26
7501.0	0.31	100	10.4	0.0	2.65	30	14.52	6.26
7502.0	0.36	100	10.6	0.0	2.64	29	14.41	6.26
7503.0	0.21	100	9.7	0.0	2.64	33	14.31	6.26
7504.0	0.08	100	8.3	0.0	2.65	40	14.22	6.26
7505.0	0.06	100	7.8	0.0	2.64	42	14.14	6.26
7506.0	0.06	100	7.8	0.0	2.66	42	14.06	6.26
7507.0	0.08	100	8.3	0.0	2.67	40	13.98	6.26
7508.0	0.08	100	8.3	0.0	2.67	40	13.89	6.26
7577.0	0.00	100	4.4	0.0	2.64	48	13.80	6.26
7578.0	0.00	100	3.3	0.0	2.64	49	13.76	6.26
7581.0	0.00	100	3.9	0.0	2.68	49	13.75	6.26
7607.0	0.00	100	2.1	0.0	2.64	46	13.71	6.26
7608.0	0.00	100	2.0	0.0	2.64	47	13.69	6.26
7611.0	0.00	100	3.0	0.0	2.64	45	13.65	6.26
7612.0	0.00	100	3.8	0.0	2.64	45	13.62	6.26
7613.0	0.00	100	4.6	0.0	2.64	49	13.58	6.26
7633.0	0.02	100	6.5	0.0	2.61	49	13.55	6.26
7634.0	0.05	100	7.6	0.0	2.66	43	13.48	6.26
7635.0	0.05	100	7.7	0.0	2.65	43	13.41	6.26
7636.0	0.10	99	8.6	0.0	2.64	38	13.33	6.26
7637.0	0.04	100	7.4	0.0	2.63	44	13.24	6.26
7661.0	0.03	100	6.8	0.0	2.65	47	13.17	6.26
7662.0	0.05	100	7.6	0.0	2.64	43	13.10	6.26
7663.0	0.04	100	7.3	0.0	2.65	45	13.03	6.26
7675.0	0.02	100	6.8	0.0	2.64	47	12.99	6.26
7712.0	0.05	100	7.6	0.0	2.61	43	12.92	6.26
7743.0	0.02	100	6.4	0.0	2.62	49	12.88	6.26
7744.0	0.19	99	9.5	0.0	2.63	34	12.80	6.26
7745.0	0.08	99	8.3	0.0	2.64	40	12.71	6.26
7776.0	0.02	100	6.4	0.0	2.64	49	12.63	6.26
7777.0	0.01	100	5.7	0.0	2.64	41	12.57	6.26
7778.0	0.00	100	3.8	0.0	2.64	42	12.52	6.26

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
7779.0	0.00	100	2.3	0.0	2.65	48	12.48	6.26
7810.0	0.00	100	4.3	0.0	2.64	46	12.41	6.26
7982.0	0.02	100	6.5	0.0	2.65	49	12.33	6.26
7985.0	0.01	100	5.6	0.0	2.65	49	12.27	6.26
7986.0	0.01	100	5.7	0.0	2.64	48	12.21	6.26
7991.0	0.04	100	7.2	0.0	2.64	42	12.13	6.26
8029.0	0.02	100	6.7	0.0	2.63	48	12.02	6.26
8363.0	0.03	95	7.0	0.0	2.62	46	11.66	6.26
8364.0	0.06	86	7.8	0.0	2.61	42	11.59	6.25
8365.0	0.02	99	6.6	0.0	2.60	48	11.52	6.24
8367.0	0.02	97	6.7	0.0	2.61	48	11.48	6.24
8368.0	0.15	59	9.2	0.0	2.62	36	11.41	6.24
8369.0	0.70	40	11.1	0.0	2.70	27	11.31	6.19
8370.0	1.98	35	12.6	0.0	2.74	21	11.20	6.12
8371.0	0.28	42	9.6	0.0	2.81	12	11.08	6.04
8372.0	0.18	40	8.8	0.0	2.80	15	10.99	5.99
8373.0	0.23	41	9.2	0.0	2.78	21	10.90	5.94
8374.0	0.65	41	11.1	0.0	2.76	25	10.80	5.88
8375.0	0.43	43	10.5	0.0	2.72	30	10.69	5.82
8376.0	0.26	44	9.7	0.0	2.71	33	10.59	5.76
8377.0	0.40	46	10.5	0.0	2.75	30	10.49	5.71
8378.0	1.44	40	12.5	0.0	2.72	21	10.38	5.65
8379.0	1.33	40	12.3	0.0	2.73	16	10.25	5.57
8380.0	0.60	46	11.3	0.0	2.75	19	10.13	5.50
8381.0	0.69	42	11.2	0.0	2.76	20	10.02	5.44
8382.0	0.98	39	11.6	0.0	2.75	22	9.91	5.38
8383.0	1.07	41	12.0	0.0	2.74	23	9.79	5.30
8384.0	0.54	43	10.9	0.0	2.75	28	9.67	5.24
8385.0	1.65	38	12.5	0.0	2.73	21	9.57	5.17
8386.0	2.28	37	13.1	0.0	2.76	13	9.44	5.09
8387.0	1.46	38	12.3	0.0	2.73	12	9.31	5.01
8388.0	1.45	36	12.0	0.0	2.68	15	9.19	4.94
8389.0	1.96	33	12.3	0.0	2.64	14	9.07	4.86
8390.0	2.14	32	12.4	0.0	2.63	16	8.94	4.78
8391.0	3.21	32	13.2	0.0	2.61	16	8.82	4.70
8392.0	2.84	32	13.0	0.0	2.62	18	8.68	4.60
8393.0	0.98	36	11.3	0.1	2.66	23	8.56	4.52
8394.0	2.11	34	12.6	0.7	2.69	21	8.45	4.45
8395.0	1.80	37	12.6	0.0	2.73	21	8.32	4.37
8396.0	2.79	38	13.7	0.0	2.75	16	8.19	4.29
8397.0	2.93	39	14.0	0.0	2.74	15	8.06	4.21

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8398.0	1.71	44	13.3	0.0	2.76	18	7.92	4.13
8399.0	0.98	46	12.3	0.0	2.80	20	7.79	4.05
8400.0	1.12	43	12.2	0.0	2.77	21	7.67	3.99
8401.0	0.96	43	11.9	0.0	2.76	17	7.55	3.92
8402.0	1.87	39	13.0	0.0	2.76	18	7.43	3.85
8403.0	1.07	44	12.3	0.0	2.73	22	7.30	3.78
8404.0	1.00	45	12.2	0.0	2.73	22	7.18	3.71
8405.0	0.96	44	12.0	0.0	2.77	21	7.05	3.64
8406.0	0.49	49	11.1	0.0	2.80	21	6.93	3.58
8407.0	0.42	52	10.9	0.0	2.80	21	6.82	3.52
8408.0	0.39	55	10.7	0.0	2.78	21	6.72	3.47
8409.0	0.51	53	11.3	0.0	2.76	22	6.61	3.42
8410.0	0.84	47	12.1	0.0	2.76	23	6.49	3.37
8411.0	0.62	48	11.5	0.0	2.77	25	6.37	3.31
8412.0	0.52	51	11.3	0.0	2.79	24	6.26	3.25
8413.0	1.01	46	12.4	0.0	2.79	22	6.14	3.19
8414.0	0.75	48	11.9	0.0	2.77	24	6.02	3.13
8415.0	0.74	48	11.8	0.0	2.78	24	5.90	3.06
8416.0	0.41	51	10.8	0.0	2.78	25	5.79	3.01
8417.0	0.45	51	11.0	0.0	2.79	21	5.68	2.95
8418.0	1.25	45	12.7	0.0	2.76	20	5.57	2.90
8419.0	1.52	43	12.9	0.0	2.73	19	5.44	2.83
8420.0	1.58	42	12.9	0.0	2.73	19	5.31	2.75
8421.0	1.04	44	12.2	0.0	2.72	22	5.18	2.68
8422.0	1.15	43	12.3	0.0	2.73	22	5.06	2.61
8423.0	2.80	38	13.7	0.0	2.67	16	4.93	2.54
8424.0	2.36	38	13.3	0.0	2.63	18	4.80	2.46
8425.0	0.94	40	11.6	0.0	2.61	25	4.67	2.38
8426.0	0.46	44	10.6	0.0	2.63	29	4.55	2.31
8427.0	0.40	47	10.6	0.0	2.79	29	4.45	2.25
8428.0	0.34	48	10.5	0.0	2.84	30	4.34	2.20
8429.0	0.22	50	9.8	0.0	2.82	31	4.24	2.15
8430.0	0.24	49	9.9	0.0	2.80	29	4.14	2.10
8431.0	0.37	45	10.4	0.0	2.80	30	4.04	2.05
8432.0	0.55	44	11.0	0.0	2.80	28	3.94	1.99
8433.0	0.45	48	10.9	0.0	2.78	27	3.82	1.93
8434.0	0.35	51	10.6	0.0	2.78	24	3.72	1.87
8435.0	0.77	47	11.9	0.0	2.74	22	3.61	1.82
8436.0	1.10	45	12.4	0.0	2.70	19	3.49	1.76
8437.0	0.50	45	10.9	0.0	2.71	20	3.37	1.69
8438.0	0.60	42	11.0	0.0	2.70	23	3.26	1.63
8439.0	1.12	39	11.9	0.0	2.67	24	3.15	1.56
8440.0	0.80	42	11.5	0.0	2.66	25	3.03	1.49
8441.0	0.69	45	11.5	0.0	2.71	25	2.91	1.43
8442.0	0.82	44	11.7	0.0	2.77	24	2.80	1.36
8443.0	0.31	50	10.3	0.0	2.76	30	2.68	1.30
8444.0	0.17	59	9.4	0.1	2.76	35	2.58	1.25
8445.0	0.13	64	9.0	0.0	2.77	37	2.49	1.22

DEPTH FEET	PERM.TO OIL-GAS (INDEX)	WATER SAT. %	POROSITY TOTAL %	POROSITY SEC. %	MATRIX DENSITY GM/CC	SHALE VOLUME %	CUMULATIVE INTEGRATIONS POR-FT	CUMULATIVE INTEGRATIONS HC-FT
8446.0	0.22	59	9.8	0.0	2.81	33	2.40	1.18
8447.0	0.27	58	10.1	0.0	2.83	31	2.30	1.14
8448.0	0.30	56	10.3	0.0	2.78	30	2.20	1.10
8449.0	0.29	54	10.3	0.0	2.74	31	2.09	1.05
8450.0	0.31	50	10.4	0.0	2.71	30	1.99	1.01
8451.0	0.49	46	10.9	0.0	2.69	28	1.88	0.95
8452.0	0.53	46	11.1	0.0	2.71	27	1.77	0.89
8453.0	0.47	48	11.0	0.2	2.72	27	1.66	0.84
8454.0	0.36	48	10.6	0.0	2.76	26	1.55	0.78
8455.0	0.24	52	10.0	0.0	2.77	25	1.45	0.73
8456.0	0.41	50	10.9	0.0	2.76	28	1.35	0.68
8457.0	0.56	50	11.4	0.0	2.80	23	1.24	0.62
8458.0	0.52	47	11.1	0.0	2.82	26	1.13	0.57
8459.0	0.39	46	10.5	0.0	2.81	29	1.02	0.51
8460.0	0.32	47	10.3	0.0	2.82	30	0.91	0.46
8461.0	0.36	43	10.1	0.0	2.79	31	0.81	0.40
8462.0	0.34	53	10.5	0.0	2.77	29	0.71	0.35
8463.0	0.30	54	10.3	0.0	2.75	26	0.61	0.30
8464.0	0.43	52	10.9	0.0	2.74	21	0.50	0.25
8465.0	0.83	47	12.0	0.0	2.73	22	0.39	0.20
8466.0	0.38	49	10.7	0.0	2.74	29	0.27	0.14
8467.0	0.33	52	10.5	0.0	2.77	27	0.16	0.08
8468.0	0.63	48	11.5	0.0	2.74	20	0.06	0.03

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7777777777        11          222222        333333      5555555555
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      77          11              22            33          55
    77            11            22              33            55
    77            11            22              33            55
  77              11          22          33    33    55      55
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77              111111      2222222222      333333        555555
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        PRINTED: 06-JUN-79 02:18:42
QUEUE SWITCHES:  /FILE:FORT /COPIES:4
        /SPACING:1 /LIMIT:2307 /FORMS:NARROW
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Schlumberger