Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U 55711

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. UNIT AGREEMENT NAME: STEEL CREEK UNIT

8. FARM OR LEASE NAME: STEEL CREEK UNIT

2. NAME OF OPERATOR: EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. WELL NO.: 1

3. ADDRESS OF OPERATOR: P. O. BOX 1600 MIDLAND, TX 79702

10. FIELD AND POOL, OR WILDCAT: WILDCAT 001

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 596' FSL & 446' FEL, SEC 34
At proposed prod. zone: SESE

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 34 T3N R13E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 16 MI S. OF ROBERTSON, WY

12. COUNTY OR PARISH: SUMMIT

13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 10885

16. NO. OF ACRES IN LEASE: 17680

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: NONE

19. PROPOSED DEPTH: 19000 MRSN

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 9724 GR

22. APPROX. DATE WORK WILL START*: 9-16-91

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	61	600	420 FT3
12 1/4	9 5/8	43,47	9500	940 FT3
8 1/2	5 1/2	20,17,23	TD	1525 FT3

RECEIVED
AUG 05 1991
DIVISION OF OIL, GAS & MINING

NOTE: PRODUCTION HOLE SIZE WILL BE EITHER 8 1/2 OR 8 3/4

8 PT PLAN, CULTURAL RESOURCE SURVEY & SURFACE USE PLAN ATTACHED
ITEM 15. 15196' FNL & 10885' FEL OF FEDERAL UNIT BOUNDRY
ITEM 16. ACRES IN FEDERAL UNIT

SPECIAL USE PERMITS, WATER PERMITS AND SEWAGE PERMITS TO BE SUBMITTED UNDER SEPERATE COVER.

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 S. Johnson TITLE Stephen Johnson Administrative Specialist (915) 688-7548 DATE 07/30/91

(This space for Federal or State office use)

PERMIT NO. 43-043-30097 APPROVAL DATE

APPROVED BY TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-1-91
BY: J.R. Matthews
WELL SPACING: 615-2-3

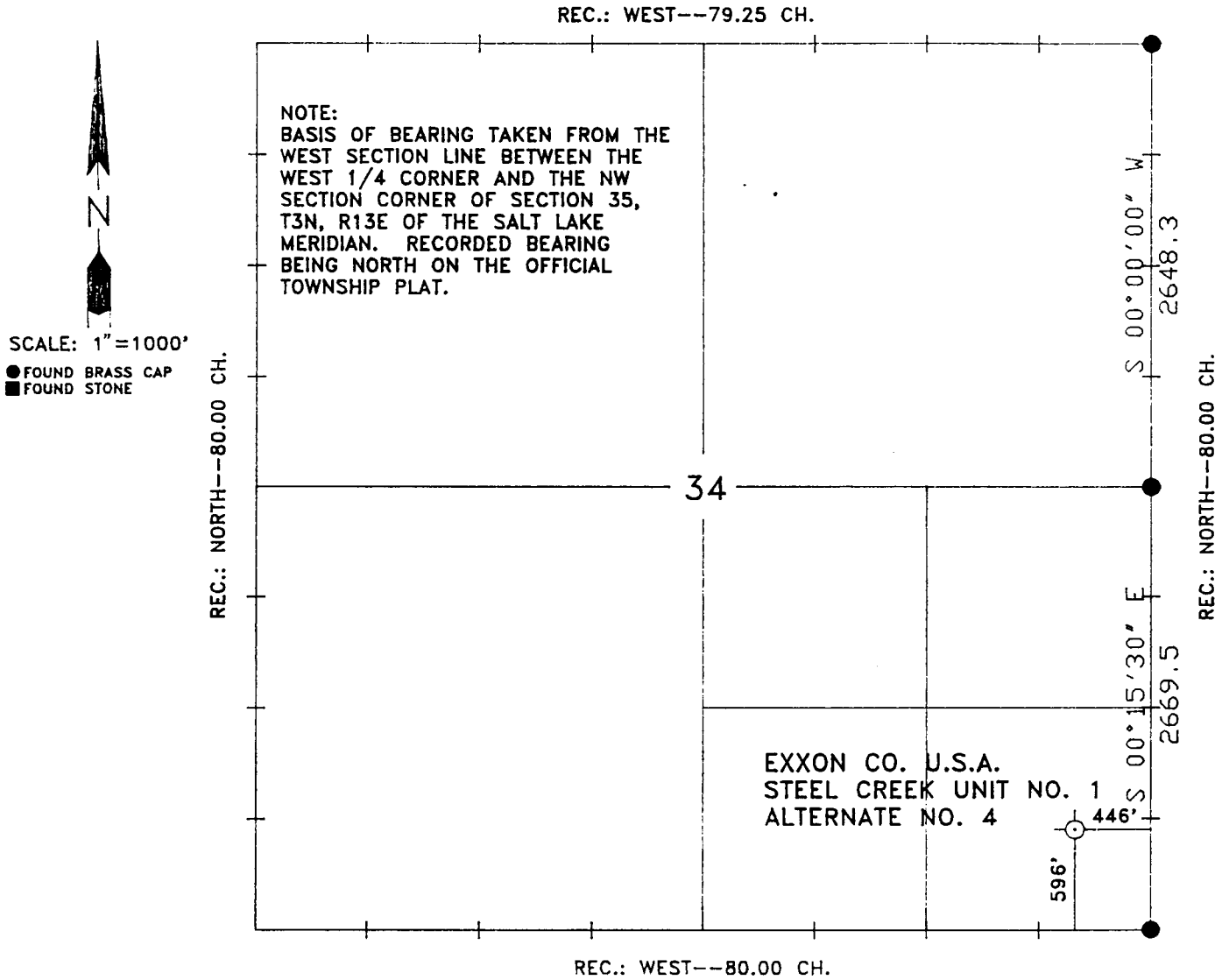
*See Instructions On Reverse Side

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

WILLIAM H. SMITH & ASSOCIATES P.C.
SURVEYING CONSULTANTS

POST OFFICE BOX 820
GREEN RIVER, WYOMING

550 EAST 2ND NORTH
PHONE 307-875-3638



I, John I. Dolinar of Green River, Wyoming hereby certify that in accordance with a request from Bruce Pennel of Midland, Texas for Exxon Co. U.S.A. made a survey on the 29th day of May ,1991. For location and elevation of the Steel Creek Unit No. 1 Alt. No. 4 As shown on the above map, the wellsite is in the SE 1/4 of the SE 1/4 of Section 34 , Township 3 North , Range 13 East of the Salt Lake Meridian , Summit County, State of Utah Elevation is 9724.1 feet ungraded ground Datum established from the NW section corner of Section 35, T3N R13E of the Salt Lake Meridian, as shown on the USGS 7 1/2' topo "Bridger Lake, Utah."

Reference Point
Reference Point
Reference Point
Reference Point

N/A

REGISTERED LAND SURVEYOR
No. 5909
JOHN I. DOLINAR
STATE OF UTAH
SEAL

7/2/9

JOB NO. 91045.000
DATE: 7/15/91
DRAWN BY: SRB

REGISTERED
WYOMING UTAH IDAHO
NEVADA NEW MEXICO ARIZONA
COLORADO

SURFACE USE PLAN

EXXON CORPORATION
Steel Creek Unit Federal # 1
596'FSL & 446' FEL, SECTION 34, T-3N, R-13E
Summit County , Utah

1. **EXISTING ROADS** - Area Map, Exhibit "A", is a reproduction of a portion of the U.S.G.S. 7.5 minute quadrangle, Bridger Lake.

   A. Exhibit "A" shows the proposed well site as staked.

   B. Take paved road south out of Mountain View 7 mi. at pavement end take county road 072, 7 miles to 075 10 miles to USFS road 058 turn left and travel 1/2 miles turn right on access road going into location.

   C. All existing roads within one mile of the drill site are shown on Exhibit "A".

2. **PLANNED ACCESS ROADS** - An approach will be constructed off USFS 058 to the location with approximately .02 mi. of new road.

   A. Surfacing material will be obtained locally & placed as needed.

3. **WELL SITE LAYOUT AND CONSTRUCTION**

   A. Exhibit "B" shows the proposed well site layout.

      1. A prework conference shall be held prior to any earth disturbing activities and a starting date established. This will include, at minimum, the operator or his authorized representative, the dirt contractor, and the authorized Forest Service officer. The lead operator is responsible for scheduling and holding this meeting prior to actual construction.

      2. The operator will provide the dirt contractor with a copy of Forest Service standard specifications for Construction of Roads and Bridges (EM-7720-100)

      3. The operator will contact the Forest Service when construction is complete, for a final inspection and approval.

   B. Construction of the site will not be done using frozen material, or when the soil is saturated, or when damage to a watershed could occur. Vegetative debris will not be placed under or in fill slopes. The backslopes and foreslopes will be constructed no steeper than 1-1/2:1.

   C. The top 8" of topsoil will be stripped from the location, including areas of cut and fill and/or subsoil storage areas, and will be stockpiled at the site as shown on Exhibit B.

D. If snow is encountered before construction begins, the snow will be removed before the soil is disturbed and placed downhill of the location.

E. All equipment and vehicles will be confined to the access road and pad area outlined in Exhibit "A" and "B".

F. The reserve pit will be constructed to prevent the collection of surface runoff.

1. Mud pits in the active circulating system will be steel. The reserve pits will be examined by the operator/holder and the Authorized Officer during construction to determine if the materials are permeable and potentially capable of allowing transfer of pit contents to the groundwater. If the need is present for a liner, it will be lined with 12 mil/450 psi liner.

G. The location will be fenced on four sides during drilling operations with 4 strand barbed wire. This fence will stay in place until the location is fully reclaimed and vegetation established.

H. The location will be constructed utilizing standard cut/fill methods. Surfacing will be placed as needed.

I. Surfacing material will be obtained from a local source not yet identified.

4. **LOCATION AND TYPE OF WATER SUPPLY**

A. Water will be purchased from a source not yet identified, and will be hauled over existing right-of-ways.

5. **METHODS FOR HANDLING WASTE DISPOSAL**

A. Waste materials will be contained and disposed of as follows:

1. Drill cuttings will be disposed of in the reserve pit.

2. Trash and other solid waste will be contained in an enclosed trash trailer and hauled to a State approved disposal site as needed and at the completion of the operations.

When the rig moves out, all trash and debris left at the site will be contained to prevent scattering and will be hauled to an approved disposal site. No trash will be placed in the reserve pit.

3. Used motor oil will be captured and placed in closed containers as it is drained from the motors and disposed at an authorized site.

4. Sewage will be disposed of according to county and state requirements in a portable chemical toilet or in holding tanks with the sewage periodically hauled to an approved disposal.

5. A portable chemically treated self-contained latrine will remain on location through termination of the completions operations.

6. Salts and Chemicals that are not used in the drilling and the completion of the well will be removed from the location by the supplier.

7. Oil resulting from DSTs and completion operations will be flowed into test tanks.

B. Drilling fluids remaining in the pit will be allowed to evaporate until the pit is dry enough for backfilling, typically one construction season. In the event drilling fluids don't evaporate within a reasonable period, they will be either mechanically evaporated or hauled to an state approved disposal site.

6. **ANCILLARY FACILITIES**

No camps, airstrips, etc. will be constructed.

7. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS**

A. Water Wells - NW 1/4 of Sec. 35

B. Abandoned Wells - none known.

C. Temporarily Abandoned Wells - None Known.

D. Disposal Wells - None Known.

E. Drilling Wells - None Known.

F. Producing Wells -None known

G. Shut-in Wells - None Known.

H. Injection Wells - None Known.

I. Monitoring or Observation Wells - None Known.

8. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES CONTROLLED BY LESSEE/ OPERATOR**

A. Within one mile radius.

1. Tank Batteries - None Known

2. Production Facilities - None Known

3. Oil Gathering Lines - None Known

4. Gas Gathering Lines - None Known

5. Injection Lines - None known

6. Disposal Lines - None.

9. **RESTORATION OF SURFACE**

A. The Forest Service will be notified 3 days prior to reclamation activities.

B. The drill cuttings and muds will remain in the reserve pit until dry. The reserve pit will not be squeezed, cut, or crowded. When the pit is backfilled, cuttings and mud must be covered with at least 3 feet of earth. The drill site surface will be reshaped, and stockpiled topsoil will be distributed to extent available. This work will be completed typically within 6 months, or next construction season.

D. When the well is abandoned, Exxon will rip all disturbed areas of the access road and pad prior to rehabilitating and revegetating the drill site per the USFS requirements. A reclamation will be submitted for USFS approval.

E. The entire disturbed location will be fenced after seeding. Fences and cattleguards must meet Forest Service specifications. Once the location has been rehabilitated and vegetation re-established, The fence will be removed or the fenced area reduced as required by the Forest Service.

F. The operator shall notify the District Ranger of the rig release date within two working days of that date. The drilling rig shall be removed from the location within 30 days of the completion of drilling. No rig stacking on location allowed.

10. **IF THE WELL IS PRODUCTIVE**

A. Access roads will be maintained as necessary to prevent soil erosion and safely accommodate year-round traffic.

B. A Sundry Notice showing location of production facilities will be submitted for approval prior to installation.

11. **PIPELINES/FLOWLINES/OVERHEAD LINES**

Pipelines shall be constructed only on those routes designated in the approved plan of development or as directed by the authorized officer. Changes in the pipeline routes must be preapproved.

12. **OTHER INFORMATION**

A. Topography of the land is relatively level. Vegetation consists of native grasses and pine trees.

B. The primary land use is grazing and forest. Surface ownership is U.S.F.S.

C. A Class III archeological search of the area has been conducted.

D. The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials and contact the authorized officer (AO). Within five working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Registrar of Historic Places;

- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in situations preservation is not necessary); and,

- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm through the State Historic Preservation Officer that the findings of the AO are correct and that mitigation is appropriate.

If the operator wishes at any time to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible for mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed, the operator will then be allowed to resume construction.

The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the Authorized Officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the Authorized Officer. The Authorized Officer will evaluate, or will have evaluated, such discoveries not later than 5 working days after being notified and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the Authorized Officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation and any mitigative measures.

E. The operator shall protect all survey monuments found within the specific location. Survey monuments include but are not limited to

General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coast and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, report the incident in writing to the Authorized Officer and respective installing authority if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of Public Lands of the United States, latest edition. The holder shall record such survey in the appropriate county and send a copy to the Authorized Officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the holder shall be responsible for the survey cost.

13. **OPERATORS REPRESENTATIVE**

A. Field representative who can be contacted concerning compliance of this **Surface Use Plan** is:

Before and During Construction	After Construction
Gary Chastain P. O. Box 1600 Midland, Tx. 79702 (915) 688-7699	Al Sossaman P. O. Box 1600 Midland, Tx. 79702 (915) 688-7893

CERTIFICATION - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and will be performed by Exxon Corporation and its contractors and subcontractors in conformity with this plan and the term and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

DATE 7/15/91

NAME AND TITLE Chastain Civil/Construction Supervisor

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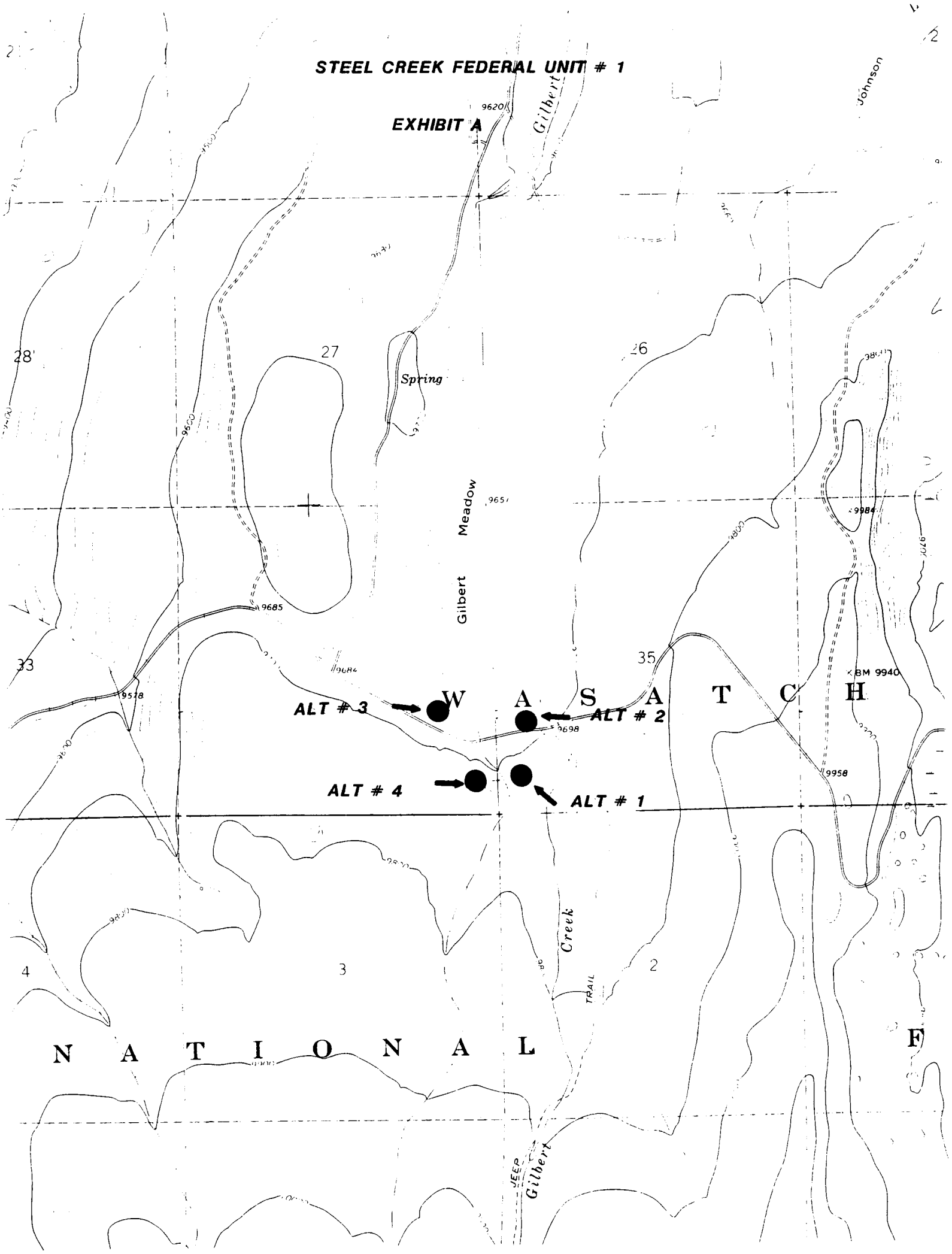

STEEL CREEK FEDERAL UNIT # 1
EXHIBIT A
Gilbert
Johnson
9620
28
27
26
Spring
Meadow
Gilbert
9650
9651
9685
9684
9518
33
35
BM 9940
W A S A T C H
ALT # 3
ALT # 2
9698
ALT # 4
ALT # 1
9958
Creek
4
3
2
TRAIL
N A T I O N A L
F
JEEP
Gilbert

EXXON CORPORATION - EXXON STEEL CREEK UNIT NO. 1
Section 34, T3N, R13E
Summit County, Utah
BLM Eight-Point Plan
July 1, 1991

JUL 0 8
NGPA Permits

1. The Estimated Tops of Important Geologic Markers:

Formation	Tops
Wasatch	0'
Ft. Union	9000'
Mesa Verde	11550'
Hilliard	13400'
Frontier	14650'
Mowry	15500'
Muddy	15750'
Dakota	15900'
Cedar Mtn.	16000'
Morrison	16200'
TD	16500'

2. The estimated depths at which the top and the bottom of anticipated water, oil, gas, and other mineral bearing formations are expected to be encountered:

	Top	Bottom	How Protected
Fresh Water	Surface	500'	Surface casing cemented to surface.
Frontier	14650'	15500'	Production casing cemented to 10500'.
Muddy	15750'	15900'	Prod. csg. cemented to 10500'.
Dakota	15900'	16000'	Prod. csg. cemented to 10500'.
Cedar Mnt.	16000'	16200'	Prod. csg. cemented to 10500'.

3. Minimum Specifications for Pressure Control Equipment:

A. Casinghead equipment:

"A" Section - 13-3/8" BT x 13-5/8" 3000 psi sweet

"B" Section - 13-5/8" 3000 psi x 11" 5000 psi sweet

Tubing Head - 11" 5000 psi x 7-1/16" 10000 psi sweet

Tubing Head
Adapter - 7-1/16" 10000 psi x 2-9/16" 10000 psi sweet

Tree - 2-9/16" 10000 psi sweet

B. Blowout preventer equipment:

Type	Pressure Rating	Installed on Casing
RSRA BOP stack	3000 psi	13-3/8"
RRSRA BOP Stack	5000 psi	9-5/8"

Additional preventers may be added and/or preventers with higher pressure ratings may be substituted depending on equipment provided by drilling contractor. Diagrams of the preventer stack types are attached.

C. Testing:

Operational testing - An operational test consisting of closing the annular preventer and pipe rams on the drill pipe and closing the blind rams on open hole will be performed on each round trip but not more than once each day.

Pressure testing - An initial pressure test will be performed after nippling up on a casing string but prior to drilling out. Equipment will be tested to 300 psi and full working pressure upon installation. The annular preventer will be tested to 50% of full working pressure.

Subsequent pressure test will be conducted as follows:

1. Upon any change in rams or other component of the BOP stack and/or choke manifold.

2. At least every thirty (30) days.

Subsequent pressure tests will be at 300 psi and 70% of full working pressure, or 70% of the internal yield of the casing, whichever is lower, except for annular preventers, which will be tested to 50% of full working pressure.

Blowout prevention drills - A drilling crew proficiency test to perform the well shut-in procedure will be performed at least once each week with each crew.

D. BOP control unit:

Unit will be hydraulically operated and have one control station located at least 60' from wellbore and one located on the rig floor. Design WP = 3000 psi; Precharge Pressure = 1000 psi; Minimum Volume = 60 gallons.

4. Auxiliary Equipment and Proposed Casing Program:

A. Auxiliary equipment:

Kelly cocks - Upper and lower installed on kelly.

Safety valve - Full opening ball type valve to fit each type and size of drill pipe in use will be available on the rig floor in the open position at all times for use when the kelly is not connected to the drill string.

B. Casing:

String	Size/Weight/Grade/Conn	Depth Interval
Surface	13-3/8"/61#/K55/BT	0-600'
Intermediate	9-5/8"/43&47#/N80/LTC	0-9500'
Production	5-1/2"/20#/N80/BT	0'-4600'
	5-1/2"/17#/N80/BT	4600'-9000'
	5-1/2"/20#/N80/LTC	9000'-15000'
	5-1/2"/23#/N80/LTC	15000'-16500'

Substitutions regarding weight, grade and connection might be required due to availability.

Safety factors for surface casing are 1.21 for burst, 1.0 for collapse, and 1.5 for tension. Safety factors for intermediate and production casings are at least 1.1 for burst. 1.125 for collapse, and 1.5 for tension.

C. Cement:

Hole Size	Casing	Depth	Cement Type	Approximate Cement Volume	Top of Cement (Gauge Hole)
17-1/2"	13-3/8"	600'	Light Cement	220 ft^3	Surface
			Class "G"	200 ft^3	
12-1/4"	9-5/8"	9500'	Light Cement	690 ft^3	6,500'
			Class "G"	250 ft^3	
8-1/2" or 8-3/4"	5-1/2"	16500'	Light Cement	1250 ft^3	10500'
			Class "G"	275 ft^3	

Calculated cement volume will be adequate to cover all hydrocarbon bearing formations.

D. Casing test procedures:

1. Surface casing (13-3/8") - 1500 psi test pressure.
2. Intermediate casing (9-5/8") - 2100 psi test pressure.
3. Production casing (5-1/2") - 3650 psi test pressure.

5. Circulating Medium Characteristics:

A. Type and anticipated characteristics of circulating medium:

Depth Interval	Mud Type	Weight (ppg)	FV (Sec/Qt)	PV (Cp)	YP (#/100 SF)	WL (cc/30 min)	pH
0- 600'	Spud	8.3-8.5	26-28	No Control			
600- 9500'	LSND	8.4-9.5	26-40	3-10	5-15	No Control	8-9
9500'-TD	LSND	9.5-10.0	35-50	5-15	5-25	8-20	8-9

(Polymers used in an LSND mud system will degrade at pH > 9.5).

B. Quantities of mud and weighting material:

A sufficient inventory of mud materials and treating equipment will be maintained to control mud properties adequately for well control and drilling requirements.

C. Mud system monitoring equipment:

1. Pit Volume Totalizer - PVT will be used to monitor mud pits
2. Trip tank - tank will be used to keep hole full of fluid on trips and to monitor hole behavior on trips.

6. Anticipated Type and Amount of Coring, Testing, and Logging:

Coring program: 30-60' cores anticipated in Dakota and Cedar Mountain formations.
Drill stem tests: As indicated by logs, show, etc. in the Dakota and Cedar Mountain formations.
Logging program: From surface casing to TD: Sonic-GR-CAL, Resistivity (More logs may be run in addition to those shown.)

7. Expected Bottom Hole Pressure, Abnormal Pressures and Temperatures or Any Potential Hazards:

A. Bottom hole pressure is expected to be less than 4300 psi at 9500' and less than 8000 psi at 16,200'.

B. No abnormal pressure or abnormal temperature is expected. Expected bottom hole temperature is 220°F.

C. No H_2S is expected in the well.

8. Other Facets of the Proposed Operation:

Completion operations: Perforate, stimulate, and production tests the interval(s) based on electric logs and shows.

Contact A. L. Sossaman at 915/688-7893 with any questions concerning this eight-point plan.

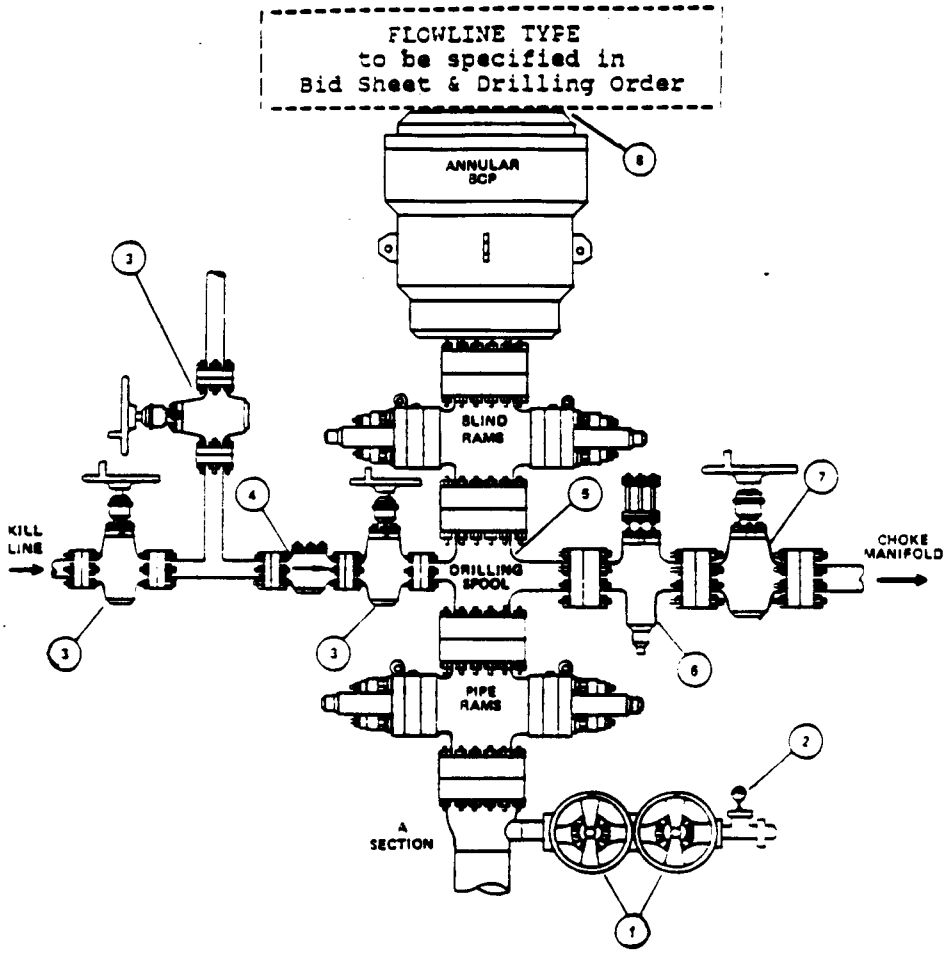
A. L. Sossaman

A. L. Sossaman

GHM13S/mcn
Attachment

TYPE-RSRA BOP STACK

THREE PREVENTERS



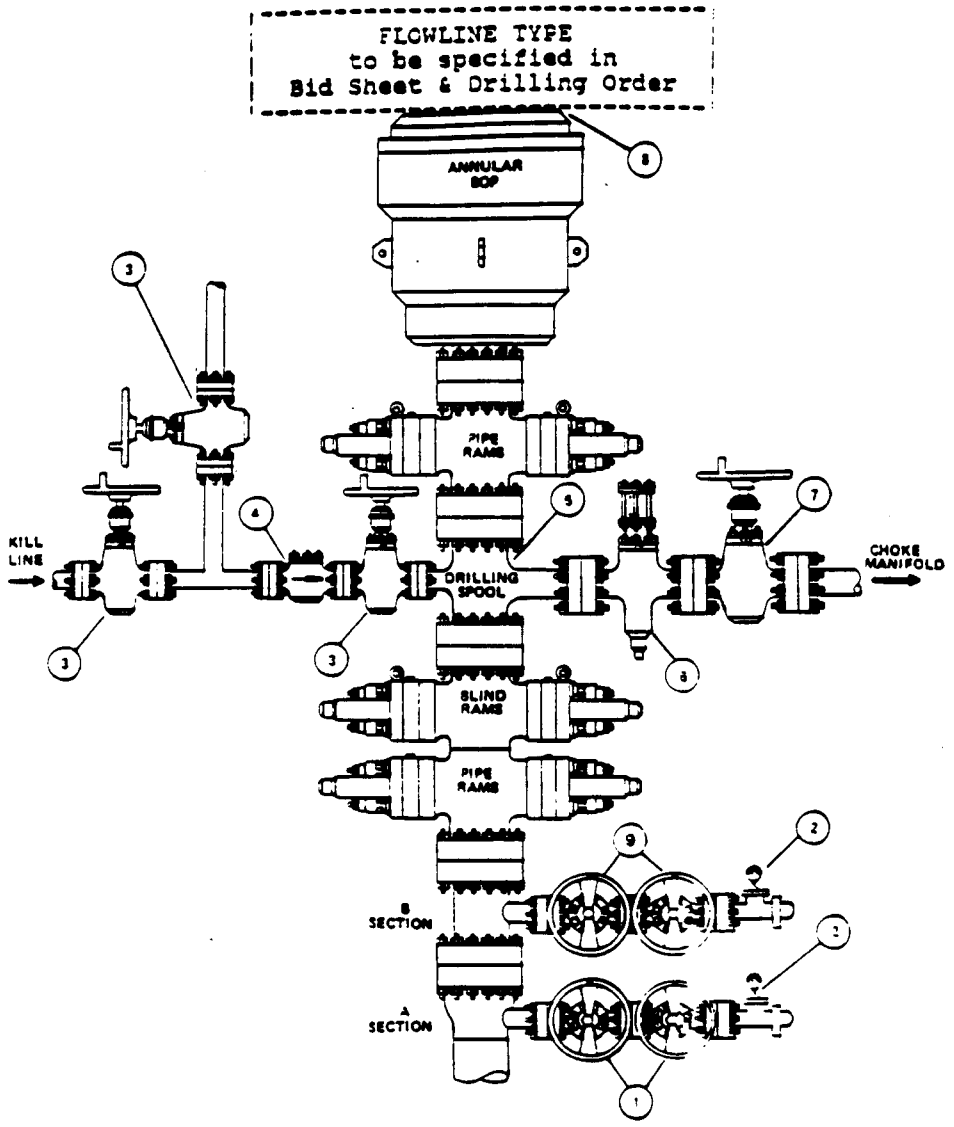
COMPONENT SPECIFICATIONS

1. Screwed or flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "A" section.
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valve -- 2" minimum nominal dia. -- same working pressure as BOP stack. NOTE: Outer valves are optional if pump type trip tank is tied into Flowline Type.
4. Flanged spring-loaded or flapper type check valve -- 2" minimum nominal dia. -- same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets -- 3" choke and 2" kill line minimum nominal dia.
6. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
7. Flanged plug or gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.

NOTE:

A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to the Cameron Type 'F'.

TYPE-RRSRA BOP STACK
FOUR PR NTERS



COMPONENT SPECIFICATIONS

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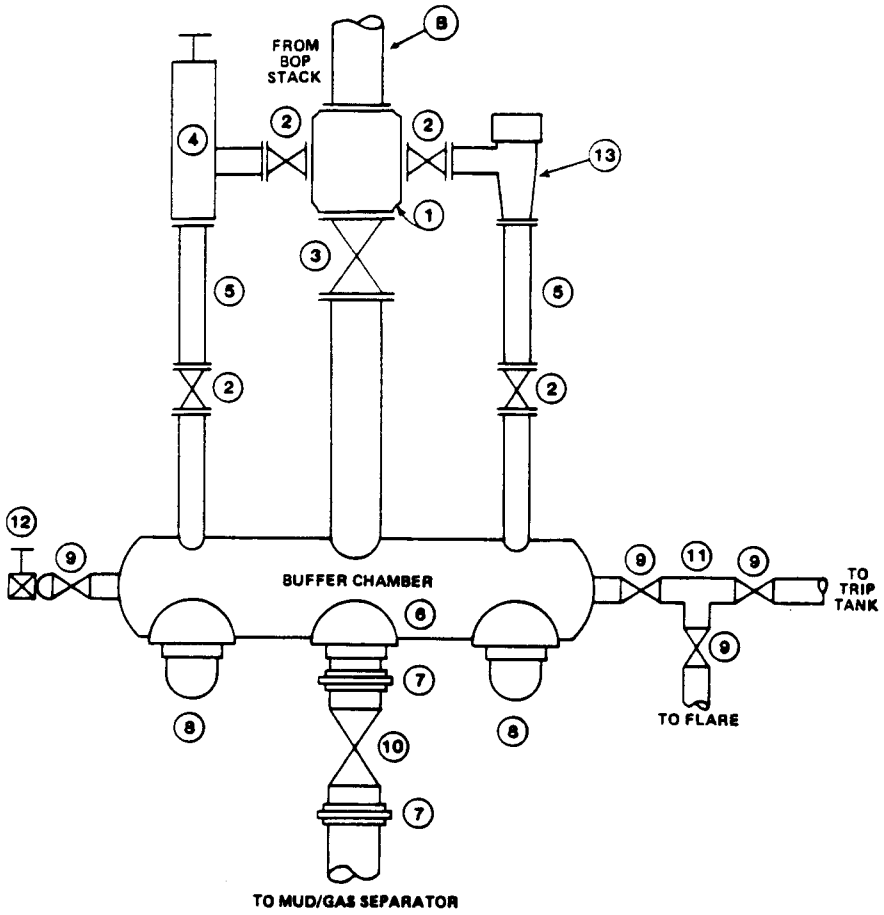
2. Tee with tapped bullplug, needle valve, and pressure gauge.
3. Flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as BOP stack.
4. Flanged spring-loaded or flapper type check valve -- 2" minimum nominal dia. -- same working pressure as BOP stack.
5. Drilling spool of sufficient height to allow stripping with 2 flanged side outlets -- 3" choke and 2" kill line minimum nominal dia.
6. Flanged hydraulically controlled gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
7. Flanged plug or gate valve -- 3" minimum nominal dia. -- same working pressure as BOP stack.
8. Top of annular preventer must be equipped with an API flange ring gasket. All flange studs must be in place or holes filled in with screw type plugs.
9. Flanged plug or gate valves -- 2" minimum nominal dia. -- same working pressure as "B" section.

NOTE:

A. Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown above Exxon's wellhead.
B. The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done by a certified welder. Welds should be stress relieved when required.
C. Plug valves should be equivalent to the Howco Lo-Torc and gate valves equivalent to th Cameron Type 'F'.

TYPE-4A CHOKE MANIFOLD

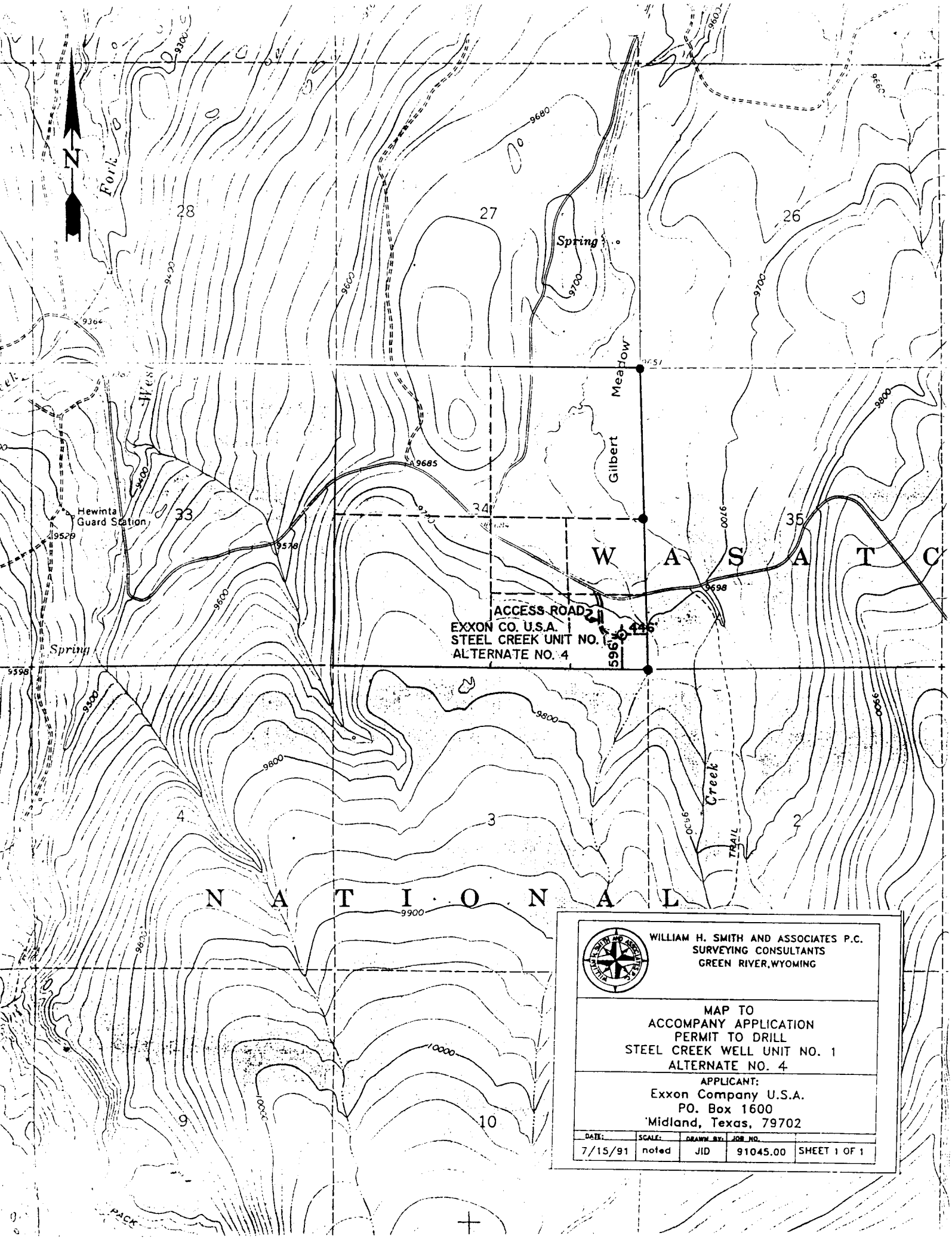


COMPONENT SPECIFICATIONS

1. Flanged or studded cross, 3" x 3" x 2" x 2" minimum nominal diameter, with blind flange, and equipped with needle valve and pressure gauge.
2. Flanged plug or gate valve, 2" minimum nominal diameter, to have same working pressure rating as choke.
3. Flanged plug or gate valve, 3" minimum nominal diameter, to have same working pressure rating as choke.
4. Flanged, manually-adjustable choke equipped with tungsten carbide stems and seats, and at least 3/4" orifice opening.
5. Flanged spacer spool, 2" minimum nominal diameter and approximately 18" length.
6. Buffer chamber is optional, 8" minimum nominal diameter (Schedule 160 preferred).
7. Screwed unions, 3" minimum nominal diameter, flat face hammer type.
8. Saddle welded to manifold with 3" screwed bullplug in place.
9. Screwed plug or gate valve, 2" minimum nominal diameter.
10. Screwed plug of gate valve, 3" minimum nominal diameter.
11. Screwed tee, 2" minimum nominal diameter.
12. Screwed bullplug with screwed 1/2" needle valve for obtaining a flowing fluid sample.
13. Flanged hydraulic choke with maximum size orifice opening.

NOTE:

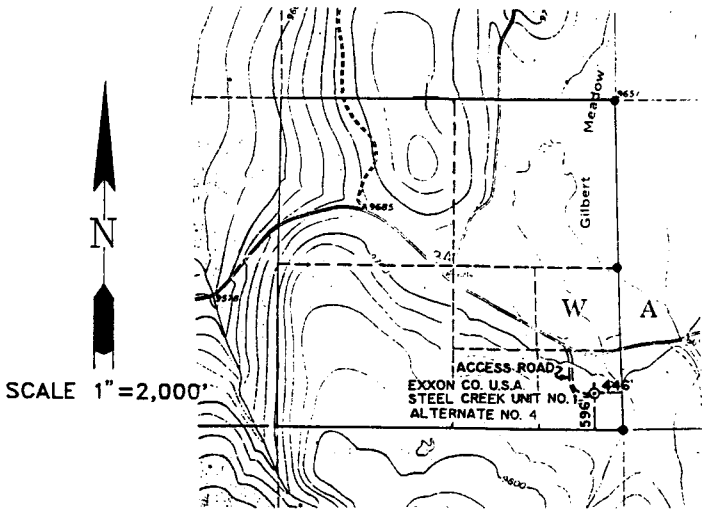
A. *The rated working pressure of the choke manifold will be specified in the Bid Letter and Drilling Order, and all equipment must conform to the specifications herein.*
B. *The choke line between the BOP stack and choke manifold should not contain any unnecessary bends or turns. Any required turns must be made with a running tee and a blind flange or welded bullplug. All connections must be either flanged or welded and all welding must be done by a certified welder.*
C. *The flare line and the vent line from the gas buster must be laid to the reserve pit or flare pit and must be securely anchored.*


N
Fork
West
28
27
26
Spring
Meadow
Gilbert
33
34
35
Hewinta
Guard Station
9529
9538
9685
9698
W A S A T C
ACCESS ROAD
EXXON CO. U.S.A.
STEEL CREEK UNIT NO. 1
ALTERNATE NO. 4
596'
446
Spring
Creek
TRAIL
4
3
2
N A T I O N A L
9
10
PACK
WILLIAM H. SMITH AND ASSOCIATES P.C.
SURVEYING CONSULTANTS
GREEN RIVER, WYOMING
MAP TO
ACCOMPANY APPLICATION
PERMIT TO DRILL
STEEL CREEK WELL UNIT NO. 1
ALTERNATE NO. 4
APPLICANT:
Exxon Company U.S.A.
PO. Box 1600
Midland, Texas, 79702
DATE: 7/15/91
SCALE: noted
DRAWN BY: JID
JOB NO. 91045.00
SHEET 1 OF 1

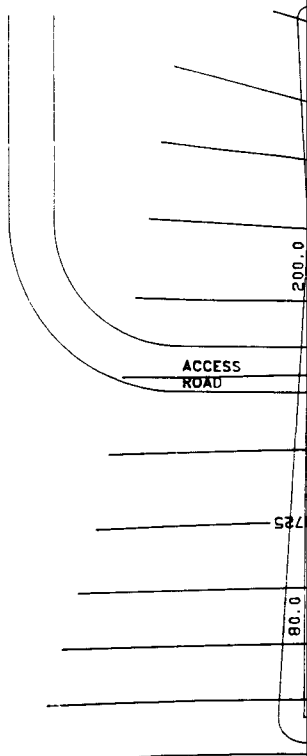
EXXON COMPANY USA.
STEEL CREEK WELL UNIT NO.
ALTERNATE NO. 4

Located in the SE/4, SE/4, of Section 34 , T 3 N, R 13 E, of the Salt Lake Meridian,Summit County, Utah.

VICINITY MAP

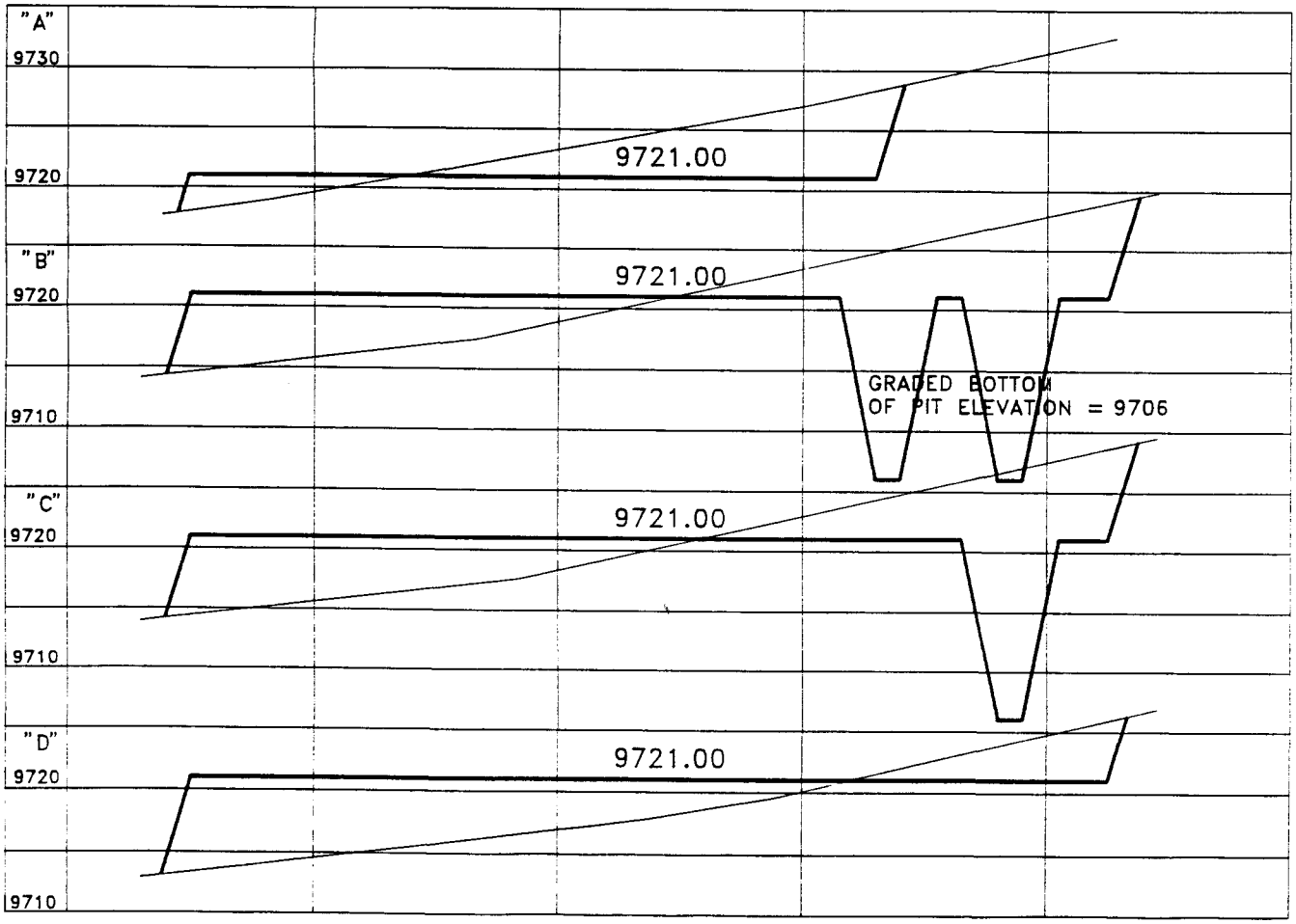


NOTE:
REFERENCE POINTS
NOT SET



CROSS SECTIONS
OF DRILL PAD AND RESERVE PIT

HORIZONTAL SCALE = 1"=50'
VERTICAL SCALE = 1"=10'



TOTAL

Cut = 15,806
fill =9,616 cu
Spoil= 3,698 c
Topsoil=2593c

Rese

Total Reserve
Working Reserve

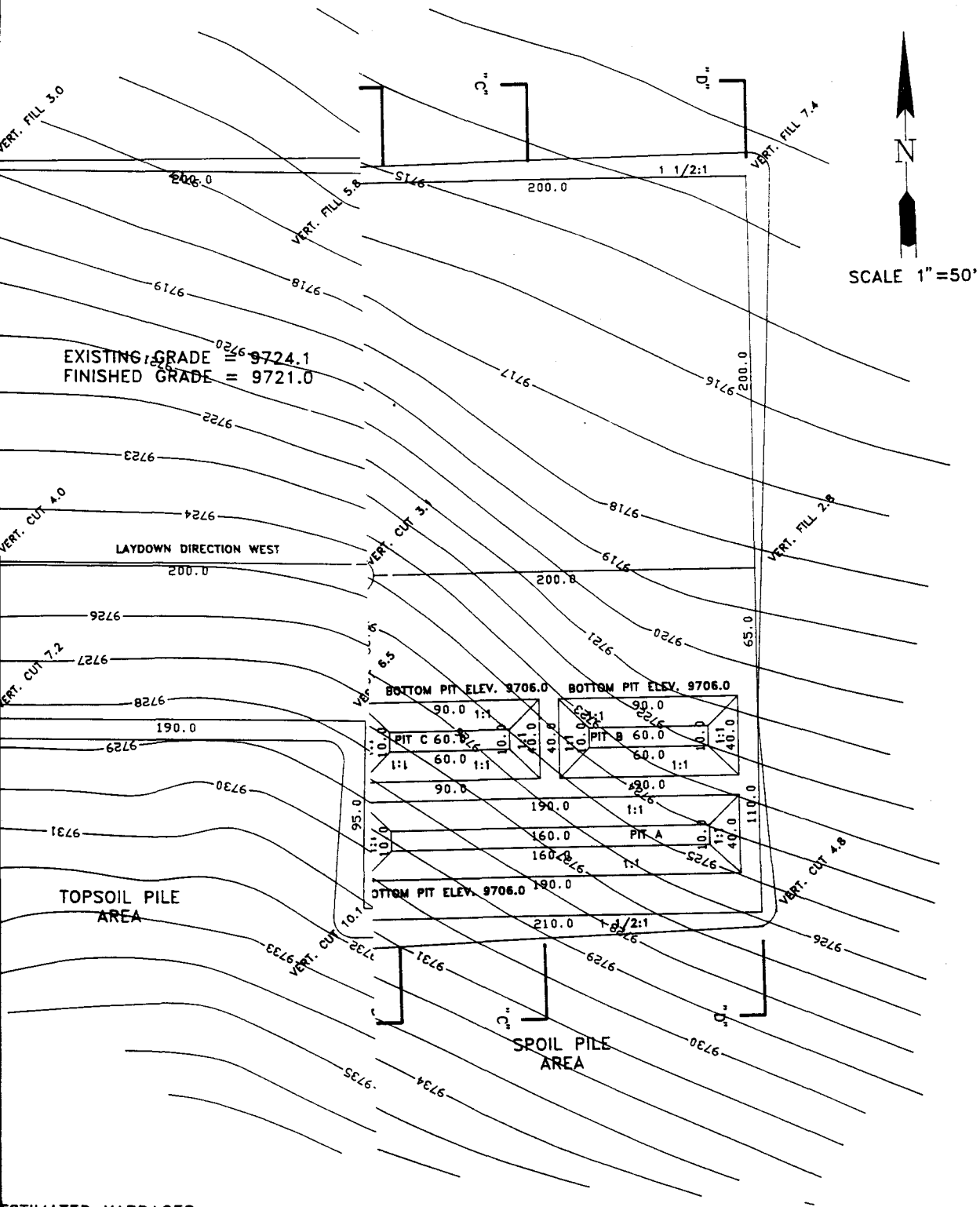
Total Reserve
Working Reserve

Total Reserve
Working Reserve

TO

Total Reserve
Working Reserve

1



ESTIMATED YARDAGES

.yds.(bank) without topsoil removed.
ds.with 12% srink included.
yds.
yds. at .5' depth

e Pit Capacity

PIT A
Capacity 11,888 Barrels at 15' depth.
Capacity 10,825 Barrels at 13' depth. 2' FREEBOARD

PIT B
Capacity 5,209 Barrels at 15' depth.
Capacity 4,404 Barrels at 13' depth. 2' FREEBOARD

PIT C
Capacity 5,209 Barrels at 15' depth.
Capacity 4,404 Barrels at 13' depth. 2' FREEBOARD

L CAPACITY
Capacity 22,306 Barrels at 15' depth.
Capacity 19,633 Barrels at 13' depth. 2' FREEBOARD

WILLIAM H. SMITH AND ASSOCIATES P.C.
SURVEYING CONSULTANTS
GREEN RIVER, WYOMING

MAP TO
ACCOMPANY APPLICATION
PERMIT TO DRILL
STEEL CREEK WELL UNIT NO. 1
ALTERNATE NO. 4

APPLICANT:
Exxon Company U.S.A.
PO. Box 1600
Midland, Texas, 79702

DATE:	SCALE:	DRAWN BY:	JOB NO.	
7/15/91	noted	JID	91045.00	SHEET 1 OF 1

SENCO—PHENIX

AN INTENSIVE CULTURAL RESOURCE SURVEY AND INVENTORY OF TWO STEEL CREEK ALTERNATE WELL PAD LOCATIONS

Summit County, Utah

Performed for
EXXON COMPANY U.S.A.

In Accordance with Forest Service and State Guidelines
Mountain View Ranger District
Wasatch-Cache National Forest
Utah Cultural Resource Project U91-SC-256f

SP-UT-136
June 18, 1991

John A. Senulis

Direct Charge of Fieldwork

CULTUI L RESOURCE SUMMARY ! PORT FORM

FSM 2360

USDA-Forest Service · Intermountain Region

Type all information except the small encoding blocks.

Cards

(I) 1 [ ] - [ ] - [ ] Report Number

2 STEEL CREEK WELL LOCATION ALTERNATES — Project Title (max. 69) (Typewritten)

(II) 3 SENULIS, J. — Author's Last Name, Initial (max. 30) (Typewritten)

4 SC SENCO-PHENIX — Survey Institution

5 06-18-91 — Month Day Year

6 19 WASATCH-CACHE — Forest

7 76 MOUNTAIN VIEW — USFS District

8 UT UTAH — State (#1)

(#2)

9 SM SUMMIT — County (#1)

(#2)

(III) 10 1 0B N 0 1 3 E 3 4 3 5 — Mer. Township Range Sections

(IV) 11 1 25 4 7 0 00 4 5 32 0 0 0 — UTM Zone Easting Northing

(V) 12 B Intensive Complete — Investigation Type

13 01 Cultural Resource Management — Project Function

14 NA — Total Costs

Man-Hours			Acres			Acres Surveyed		
15	16	Field	19	80	Total Project	22	60	Intensive-Complete
16	10	Travel	20	05	Impact	23	20	Intuitive-Complete
17	32	Admin.	21	80	Cleared			
18	0	Lab.				24		Miles Surveyed

25 2 Project Effect

26 01 Total No. Sites

(VI)

27 USFS Site No.	28 State Site No.	29 N.R.	30 Effect	31 Old/New	32 Relation to Project
	42-SM-191	2	2	A	Outside construction

If more than 6 sites, continue on another form.

33 Comments · Conclusions · Recommendations

Site is located well away from proposed construction zone. Archeological clearance is recommended.

Author's Signature: John A. Senulis — Date: 6/18/91

Reviewer's Signature — Date

☐ Check if form continued.

R-4 2300-3 (4/93)

ABSTRACT

A class III intensive cultural resource survey was performed on two proposed locations for the Steel Creek well pad and surrounding forty acres for Exxon Company, U.S.A.. Cultural resources were discovered in the form of a sawed log tent base in the lodgepole pine forest. The log structure will not be impacted by the proposed well location because it is located on the edge of one forty-acre tract. Further, Forest Service restrictions on visibility and avoidance of riparian ecotones will place the final location for the proposed well deep within the dense lodgepole forest. Archeological clearance for the proposed project is recommended.

SURVEY LOCATION

The two forty-acre tracts from which the final well location will be selected are located in the SE/SE of Section 34, and the SW/SW of Section 35, T3N, R13E, Summit County, Utah. The access road will begin off an improved Forest Service road and run southerly to the well location. The project area is noted on the enclosed copy of U.S.G.S. 7.5' Quad: Bridger Lake, Utah-Wy (1967). The proposed alternate well pads were center staked.

ENVIRONMENTAL SETTING

The project area is generally a gently sloping mountain valley of the Uinta Mountain range at an elevation of 9720 feet. The area is drained by several northerly flowing perennial and intermittent streams (branches of Gilbert Creek) which eventually drain into the Smith's Fork of the Green River.

Soils in the project area consist dark brown alluvial clay loams in the wet meadows overlain by forest duff in the woodlands. Vegetation consists primarily of dense lodgepole pine forest which consists of lodgepole pine, and sparse Englemann spruce. The woods were virtually devoid of understory vegetation due to the lack of available sunlight penetrating the tall lodgepole pine stands. Further, deadfall trees covered a large percentage of the forest floor. The adjacent high mountain meadows were extremely wet and boggy and supported small shrubs and short grasses.

Typical fauna for the area includes deer, elk, and moose with very few burrowing animals. Raptorial, migratory and small birds, and miscellaneous microfauna completes the scenario. On the day of survey a porcupine was observed.

PREVIOUS RESEARCH

A files search performed at the Utah State Antiquities Section of the Utah State Historic Preservation Office revealed that one site had been recorded in the vicinity of the survey area in the SE/SE/SW of Section 35. The site was a sawed log cabin recorded by the Forest Service in 1985. Site 42SM119 was revisited during the

archeological survey and photographed. The site is well away from the proposed well location alternates and will not be affected by the project.

An examination of the GLO Baseline map of 1879 shows springs and swamp but no structures in Sections 34 and 35. The 1881 GLO plat shows most of the center and eastern part of Section 35 as swamp. No structures are shown in either Section 34 or 35. There was some activity in the general area as "Carters sawmill" is shown in Section 28, T3N, R13E. The sawmill was on the west fork of Smith's Fork of the Green River.

METHODOLOGY

On June 13, 1991, John and Jeanne Senulis of SENCO-PHENIX performed a walkover survey of the proposed well pads and surrounding 40 acres each for a total of 80 acres. The survey employed transects no further spaced than 15 meters except in areas of excessive swampy conditions and heavy forest deadfall. Special attention was given to areas of ground exposure from animal burrowing, erosion, and human activity. The survey was done in conjunction with an onsite with representatives of the the Mountain View Ranger District, Oil Gas and Minerals Department of the State of Utah, EXXON Company U.S.A., and William Smith Survey and Engineering Company. The weather on the day of the survey was excellent. Skies were clear, winds were gusty from the southwest at about 15 m.p.h., and the temperature was 65 degrees. Surface visibility was generally poor, below 20% because of Forest duff, deadfall, and thick short grasses in the wet meadow portion of the survey area.

The field notes and photograph negatives are on file at the office of SENCO-PHENIX in Salt Lake City, Utah.

FINDINGS

One cultural resource site was discovered and recorded. Site 42SM-191 is a corner boxed log tent platform and base. The log structure measures 13' by 16' by 3' high with a north facing 30" opening for a door. The structure is five logs high with with chinking of wood tree branches used between logs. The logs have been stripped of bark and saw cut at the end. The ends are boxed by an upright log with two sawed flat faces. The logs are attached to the box log with long metal spikes. The are eight narrow (4") east west running posts on the interior which acted as a floor base. One deteriorated piece of 2 by 8 flooring was left on the site. A fragment of a bucket with bail was observed near the log structure. The log structure was probably a tent platform and base used in conjunction with a canvas box tent. Such structures were common at the end of the last century up to modern times. They often held crews for mining or logging operations. The site has not been formally evaluated. If Forest or other records indicate the structure was built and used more than fifty years ago it would be potentially eligible for the National Register of Historic Places.

The eligibility would depend on the nature and extent of undetected buried material such as dumps or outhouses.

The survey area is obviously well used at the present time for camping and hunting. Numerous modern stone "campfire" areas were observed, particularly near the main road.

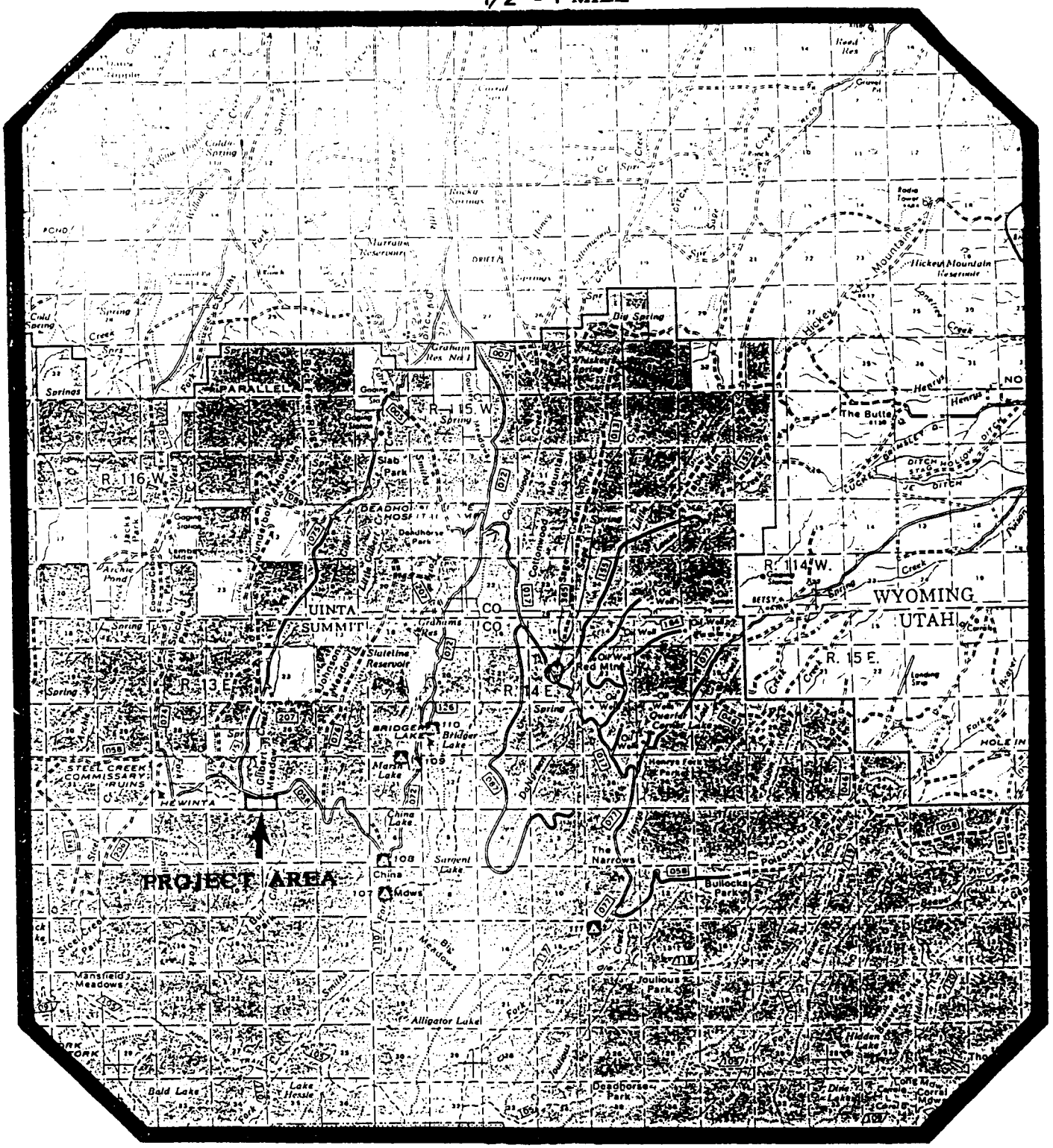
RECOMMENDATIONS

One cultural resource was discovered and recorded. The site will not be impacted by the proposed project and a finding of no effect is appropriate. Archeological clearance is recommended.

If any cultural values are observed during operation of this lease/permit/right-of-way, they are to be left intact and the Mountain View Ranger should be notified at once. The Ranger should conduct an evaluation of the cultural value to establish suitable mitigation measures.

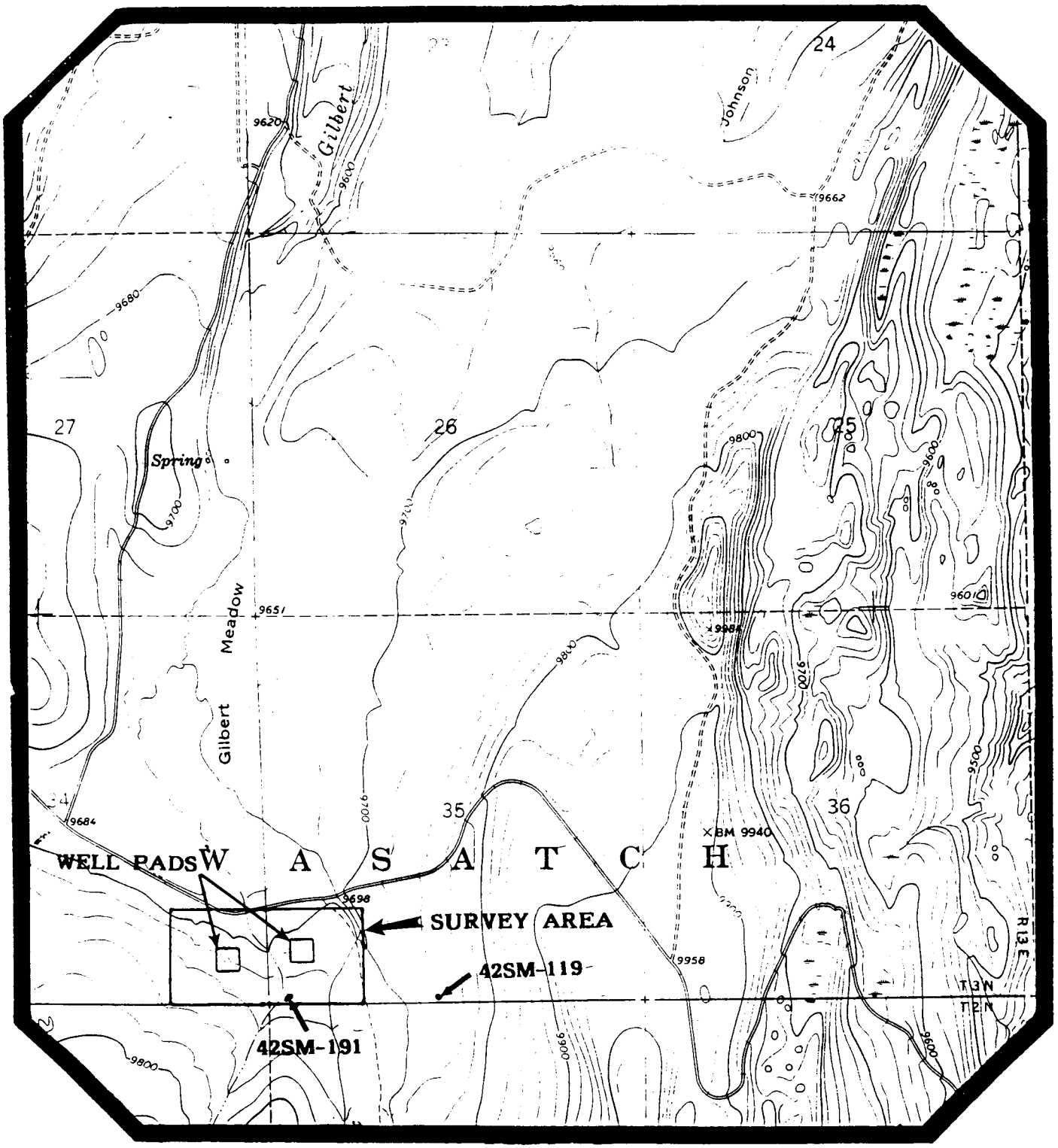
These recommendations are subject to approval or modification by the Wasatch-Cache National Forest personnel and the Utah State Historic Preservation Officer.

1/2" = 1 MILE



WASATCH-CACHE NATIONAL FOREST (1976)

SENCO—PHENIX



U.S.G.S. 7.5' QUAD BRIDGER LAKE, UTAH-WY. (1967)

STEEL CREEK ALTERNATE WELL LOCATIONS
EXXON COMPANY, U.S.A.
SE/SE SECTION 34; SW/SW SECTION 35, T3N, R13E
SUMMIT COUNTY, UTAH
SENCO-PHENIX (UT-136)
JUNE 18, 1991

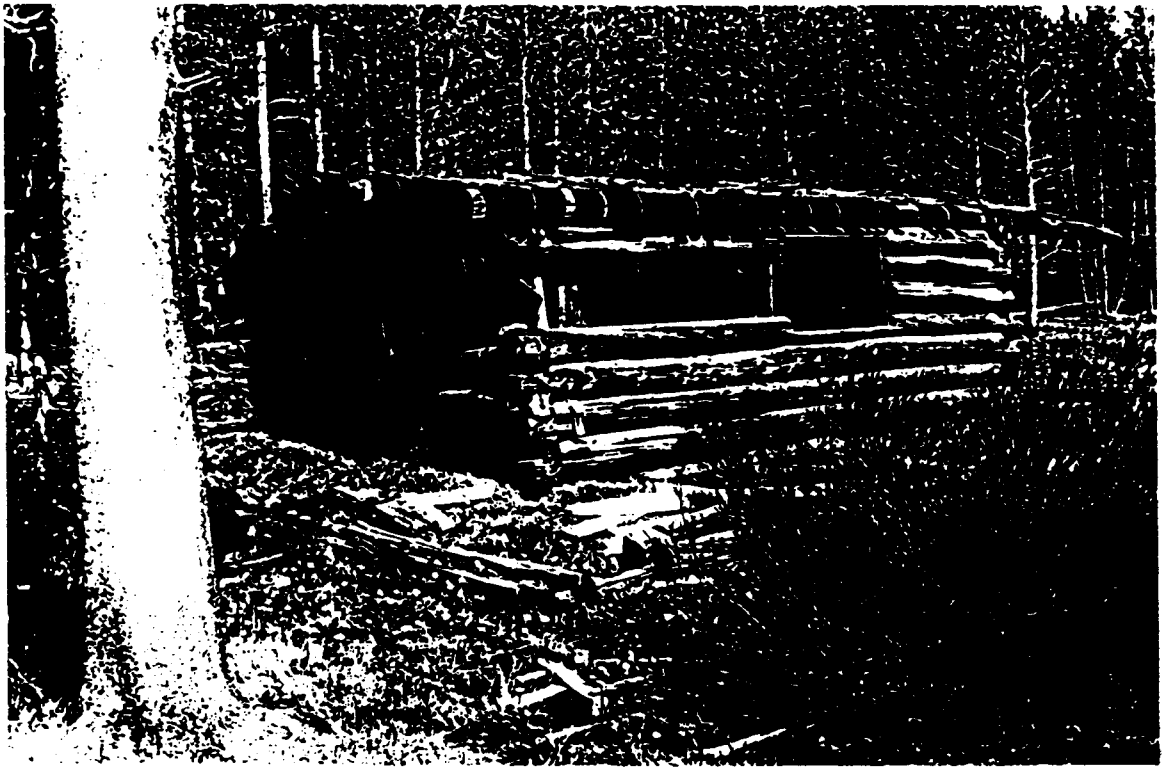
SENCO—PHENIX

PROJECT LOCATION

VIEW WEST OF PROJECT AREA IN LODGEPOLE FOREST

SITE 42SM-119

VIEW NORTHWEST OF PREVIOUSLY RECORDED CABIN



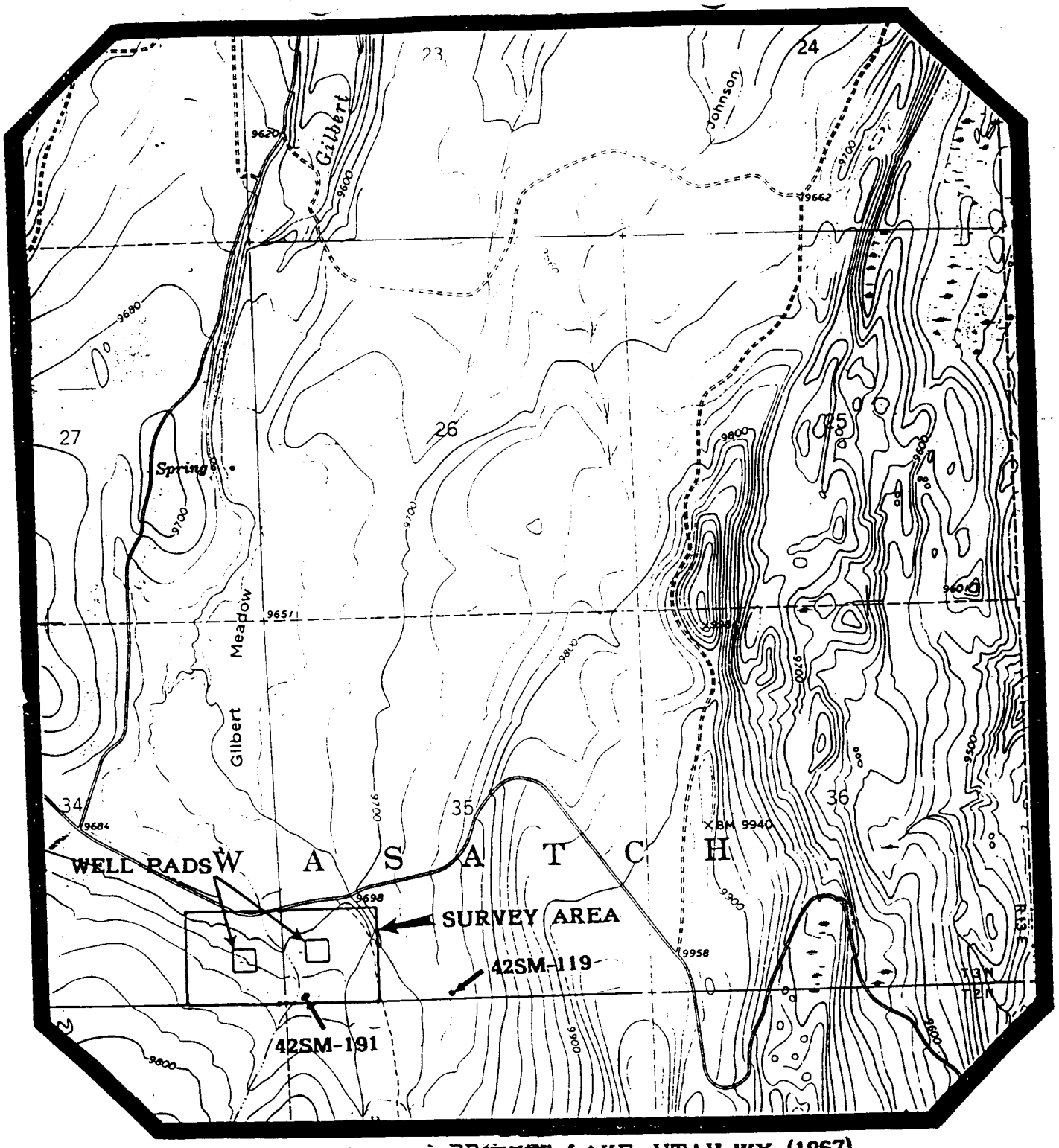
VIEW SOUTHEAST OF PREVIOUSLY RECORDED CABIN

VIEW SOUTHEAST OF PREVIOUSLY RECORDED CABIN INTERIOR

SITE 42SM-191

VIEW NORTH OF LOG TENT BASE

VIEW NORTH OF REMAINS OF INTERIOR FOUNDATION AND FLOORING



U.S.G.S. 7.5' QUAD BRIDGER LAKE, UTAH-WY. (1967)

SENCO—PHENIX

IMACS SITE FO! M
PART A - ADMINISTRATIVE DATA
NTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM
'orm approved for use by
LM-Utah,Idaho,Wyoming,Nevada
)ivision of State History-Ut,Wy
JSFS-Intermountain Region
PS-Utah,Wyoming

*1. State No. 42SM-191
*2. Agency No. _____
3. Temp No. _____

4. State UTAH County SUMMIT
5. Project Exxon Steel Creek Alternate Well Locations
*6. Report No. _____
7. Site Name/Property Name _____
8. Class _ Prehistoric X Historic _ Paleontological _Ethnographic
9. Site Type Log structure
10. Elevation 9720 ft.
*11. UTM Grid Zone 12 546595 mE 4632410 m N
12. SW/SW of SW of SW of Section 36 T. 3N R. 13E
13. Meridian Salt Lake
*14. Map Reference U.S.G.S. 7.5' Quad: Bridger Lake, Utah-Wy (1967)
15. Aerial Photo _____
16. Location and Access From Mountain View, Wyoming, proceed south on paved road ca. 5 miles to a point where the paved road bears sharply west. Continue south on upgraded gravel road 7.2 miles to fork in the road. Bear right (SW) along Forest Route 075, continue for ca. 10 miles until road "T"s. Turn east (left) and proceed .9 mile to northerly flowing stream. Walk south along east bank of stream ca. 1/4 mile. Log structure is clearly visible in dense forest.

*17. Land Owner Wasatch National Forest/ partial Utah State Minerals
*18. Federal Admin. Units Wasatch Wasatch-Cache
*19. Location of Curated Materials NA
20. Site Description Site consists of a low log structure (3' high) which measured 13'X 16'. The structure has a north facing door opening,28"-30" wide with no frame. The structure is 5 logs high; the spaces between the logs were filled in with small wood tree branches. The logs have been stripped of bark and saw-cut on the ends (the ends are boxed with an upright log at each corner attached with round metal spikes). The upright corner logs have been boxed (2 sawn vertical faces facing the horizontal logs). There are eight poles across the floor area running east-west which seem to have served as a foundation for 2 X 8 sawn lumber flooring. Only 1 fragment of the flooring material remains. Log structures of this type formed the base for canvas box tents used in lumbering and mining operations from the late 19th century until recent times.
*21. Site Condition _ Excellent(A) X Good(B) _ Fair(C) _ Poor(D)
*22. Impact Agent(s) Weathering

*23. Nat. Register Status _ Significant(C) _ Non-Significant(D) X Unevaltd.(Z)
Justify Site will not be impacted by proposed project.

24. Photos Roll 5, exp 1-2
25. Recorded by John A. Senulis
*26. Survey Organization SENCO-PHENIX *28. Survey Date 6-13-91
27. Assisting Crew Members Jeanne Senulis

List of Attachments: ___Part B X Topo Map X Photos ___Cont/sheets
___Part E X Part C ___Site sktch ___Artf/Feat ___Other
*Encoded data items

BLM 8100-1, FS R-4 2300-2 3/90

PART A · ENVIRONMENTAL DATA

Site No.(s) 42SM-191

*29. Slope 2 (Degrees) Aspect 30 (Degrees)

*30. Distance to Permanent Water 0 X 100m.

*Water Source ____ Spring/Seep X Stream/River ____ Lake ____ Other

Name of Water Source Branch of Gilbert Creek

Distance to Other Nearest Water Source/Type 200m east to Gilbert Creek

*31. Geographic Unit Uinta Mountains

*32. Topographic Location

Primary Landform	Secondary Landform
Valley	Alluvial fan

Describe Site sits on the valley floor adjacent to a branch of Gilbert Creek.

*33. Onsite Depositional Context Alluvial plain, valley fill

Description of Soil Forest duff overlying alluvial clay loams.

34. Vegetation

*a. Life Zone Transitional

*b. Community

Primary on site	Secondary/site	Surrounding
Lodgepole pine	Wet meadow	Lodgepole

Describe Site is located within a lodgepole pine forest which contains an abundance of deadfall. A wet meadow community is adjacent to the east

*35. Miscellaneous Text

36. Comments/Continuations/Location of Curated Materials and Records

PART C — HI TORIC SITES

:e No.(s) 42SM-191

1. Site Type Log structure

*2. Historic Theme(s) Lumbering

	CULTURAL AFFILIATION	DATING METHOD	CULTURAL AFFILIATION	DATING METHOD
*3. Culture	Euro-American	cross		

Describe

*4. Oldest Date unknown Recent Date

How Determined?

5. Site Dimensions 10 m X 10 m *Area 100 sq m

*6. Surface Collection/Method

X None(A) __Designed Sample(C)
__Grab Sample(B) __Complete Collection(D)

Sampling Method

*7. Estimated Depth of Cultural Fill
__Surface(A) __20-100 cm(C) X Fill Noted but Unknown(E)
__0-20 cm(B) __100 cm +(B) __Depth suspected but not tested(F)

How Estimated
(If tested, show location on site map)

*8. Excavation Status __Excavated(A) __Tested(B) X Unexcavated(C)

Testing Method

*9. Summary of Artifacts and Debris (Refer to Guide for additional categories)

__Glass(GL) __Bone(BO) __Leather(LE) __Ammunition(AM) X Domestic Items(DI)
__Metal(ME) __Ceramics(CS) __Wire(WI) X Wood(WD) __Kitchen Utensils(KU)
X Nails(NC,NW) __Fabric(FA) __Tin Cans __Rubber(RB) __Car/Car Parts(CR)

Describe The log structure was fastened with wire nails. Only one bucket and bail was present in association with the log structure.

10. Ceramic Artifacs

PASTE	GLAZE/ SLIP	DECO- RATION	PATTERN	VESSEL FORMS(S)			#

*a. Estimated Number of Ceramic Trademarks

Describe

Part C2 - Historic Sites

Site No.(s) 42SM-191

*11. Glass

#	MANUFACTURE	COLOR	FUNCTION	TRADEMARKS	DECORATION

Describe

12. Maximum Density - #/sq m(glass and ceramics)

13. Tin Cans

Type	Opening	Size	Modified	Label/Mrk	Function

Describe

*14. Landscape and Const. Features(locate on site map) - See Guide for addt. categories

__Trail/Road(TR) __Dump(DU) __Dam, Earthen(DA) __Hearth/Campfire(HE)
__Tailings(MT,ML) __Depression(DE) __Ditch(DI) __Quarry(QU)
__Rock Alignment(RA) __Cemet./Bur(CB) __Inscriptions(IN) __Other(OT)

Describe

*15. Buildings and Structures(locate on site map)

#	MATERIAL	TYPE	#	MATERIAL	TYPE
1	Wood	Tent platform			

Describe The log structure measured 13' X 16' X 3' with a north-facing door opening 28" to 30" wide (no frame). Chinking consisted of small straight tree branches wedged between the horizontal logs. The structure was 5 logs high. The logs had been stripped of bark and saw-cut on the ends which are boxed with an upright log at each

16. Comments/Continuations - Please make note of any Historic Records searches performed for example County Records, GLOs, BLM Records, Hist. Soc., Oral Hist..

(1881 GLO Plat indicated area was wet and swampy; no structures)

15 corner and attached with rund metal spikes. The upright corner logs have been sawn with the sawn sides attached to the horizontal logs. The interior foundation consists of eight east-west placed poles over which 2 X 8 sawn lumber was nailed. However, only one board of the flooring remains. Log structure is probably the base for canvas box tents used in lumbering and mining operations from the late 19th century.

1990

IMACS ENCODING FORM

To be completed for each site form.
For instructions and codes, see IMACS Users Guide.

Encoder's Name: J. SENULIS

A

1 State Site Number: 42-SM-0019

2 Agency Site Number: -

6 Agency Report Number:

10 Elevation: 0972

11 Zone: 12 Easting: 546595 Northing: 4632410

12 1/4: SW 1/4: SW 1/4: SW Sec.: 35 T.: 03 N R.: 13 E

13 World: 1

14 USGS Map: BRIDGER FORK, NIT-WY

17 Owner: FS

18 Forest: 19 Dist./Park: 76

19 Loc. Curated Materials:

21 Cond.: C

22 Impacts: SD DM

23 N.R.: Z

26 Organ.: SC

28 Survey Date: 06-13-91

29 Slope: 02 Aspect: 030

30 Water: distance/type: 998

31 Geog. Unit: RBH

32 Topographic Location: 1st E 2nd A

33 Dep.: H

34 Vegetation: 1 D 2 F 3 F

35 Misc. Text, Site Name:

B

2 Culture/Dating Method:

3 Area:

4 Collect:

5 Depth:

6 Excav. Status:

7 Prehistoric Artifacts:

8 Lithic Tools: # / type:

9 #: Flaking Stages:

11 Ceramics: # / type:

13 Features: # / type:

14 Architecture: # / material / type:

C

2 Historic Themes: LG

3 Cultures / Dating Method: EAF

4 Dates:

5 Area: 0011 00

6 Collect.: A

7 Depth: E

8 Excav. Status: C

9 Artifacts: BB NW

14 Features: # / type:

15 Architecture: # / material / type: IPDA

LETTERING GUIDE A B C D E F G H I J K L M N O P Q R S T U V W X Y Z 1 2 3 4 5 6 7 8 9 0

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT
SOUTHWESTERN DIVISION

July 30, 1991

Steel Creek Unit #1
Summit County, Utah

Bureau of Land Management
Salt Lake City District
2370 South 2300 West
Salt Lake City, UT 84119

Attached is the Application for Permit to Drill, Drilling 8 Point Plan, Surface Use Plan and Cultural Resource Survey for the subject well. Special use permits, water permits, and sewage permits will be submitted to the appropriate agencies under separate cover.

Documentation for final approval of the Steel Creek Unit has been submitted to the BLM. State well spacing rules will not be applicable to this location since it will be drilled as a unit well.

If you have any questions contact me at (915) 688-7548.

Sincerely,

S. Johnson

Stephen Johnson
Environmental & Regulatory Affairs

Attachments

RECEIVED
AUG 0 5 1991
DIVISION OF
OIL GAS & MINING

RECYCLED

bc: Forest Service
Mountain View Ranger District
P. O. Box Box 129
Mountain View, WY 82939
(entire pkg)

Post-it™ brand
Fax Transmittal Memo

7672 | No. of Pages 2 | Today's Date 10-11 | Time 9:30

To FRANK MATTHEWS
Company ST OF UTAH O&G MINING
Location SLC
Fax # 801 359 3940 | Telephone # 801 538 5340
Comments

From STEPHEN JOHNSON
Company EXXON
Location MIDLAND TX | Dept. Charge
Fax # 915 688 7136 | Telephone # 915 688 7548
Original Disposition: ☐ Destroy ☒ Return ☐ Call for pickup

Attach Document

RECEIVED
OCT 1 1 1991
DIVISION OF OIL GAS & MINING

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U 55711
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:
8. Well Name and No.: STEEL CREEK UNIT 1
9. API Well No.:
10. Field and Pool, or Exploratory Area: WILDCAT
11. County or Parish, State: SUMMIT UT

1. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other
2. Name of Operator: EXXON CORPORATION ATTN: REGULATORY AFFAIRS
3. Address and Telephone No.: P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 596' FSL & 446' FEL, SEC.34, T3N, R13E

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☒ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☐ Other	

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

13. 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.)*

PROPOSED CHANGE TO SURFACE USE PLAN:

NO RESERVE PIT WILL BE USED TO DRILL THIS WELL. INSTEAD, ALL CUTTINGS WILL BE DRIED THOROUGHLY AND PILED ON THE SURFACE OF THE LOCATION UNTILL DRILLING OPERATIONS ARE COMPLETE. AT THAT POINT THE CUTTINGS WILL BE BURIED ON LOCATION.

DRYING OF CUTTINGS WILL BE ACCOMPLISHED PRIMARILY THROUGH THE USE OF FOUR SHALE SHAKERS (RATHER THAN THE USUAL TWO) AND TWO CENTRIFUGES, PRODUCING CUTTINGS WITH AS LITTLE LIQUID AS POSSIBLE. ALL CUTTINGS FROM THE SHALE SHAKERS, CENTRIFUGES, AND ANY OTHER SOLIDS CONTROL EQUIPMENT WILL BE PLACED DIRECTLY FROM THE SOLIDS CONTROL EQUIPMENT INTO A HOPPER WHERE THEY WILL BE MIXED WITH FLY-ASH TO TIE UP ANY LIQUIDS CARRIED OVER FROM THE DRILLING FLUID. STANDARD LEECHABILITY TESTS WILL BE RUN PERIODICALLY TO ENSURE THE CUTTINGS ARE DRY TO A POINT OF LESS THAN .01% LEECHABILITY OF ANY LIQUID PHASE.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-11-91
BY: [signature]

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Stephen Johnson Administrative Specialist Date 10/11/91

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCT 11 1991
DIVISION OF
OIL GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

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2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

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PROPOSED CHANGE TO 8 POINT PLAN:

5. CIRCULATING MEDIUM CHARACTERISTICS:

A. TYPE AND ANTICIPATED CHARACTERISTICS OF CIRCULATING MEDIUM

DEPTH INTERVAL	MUD TYPE	WEIGHT PPG	FV (SEC/QT)	PV (CP)	YP (#/100 SCF)	WL (CC/30 MIN)	PH
0-600'	SPUD	8.3-8.5	26-28	----------NO CONTROL----------			
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(POLYMERS USED IN LSND MUD SYSTEMS WILL DEGRADE AT PH >9.5)							
9500'-TD	OBM	9-10	-----	4-8	6-10	<8	N.A.

OBM WILL BE MADE UP WITH ESCAID-110 MINERAL OIL WITH AN O/W RATIO OF BETWEEN 60/40 AND 85/15. ALL MUD CUTTINGS WILL BE SOLIDIFIED USING FLY-ASH.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 10-11-91
BY: [illegible]

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

Signed D. Johnson Title Stephen Johnson Administrative Specialist Date 10/10/91

(This space for Federal or State office use)

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EXXON SWD JI MID TX

OPERATOR Exxon Corp N-0420 DATE 10-10-91

WELL NAME Steel Creek Unit #1

SEC SESE 34 T 3N R 13E COUNTY Summit

43-043-30097
API NUMBER

Federal (1)
TYPE OF LEASE

CHECK OFF:

- [x] PLAT
- [x] BOND
- [x] NEAREST WELL
- [x] LEASE
- [x] FIELD
- [x] POTASH OR OIL SHALE

PROCESSING COMMENTS:

Unit approved

Water Permit 41-3441 (T65519) received Oct 18, 1991

ROCC 10-1-91

APPROVAL LETTER:

SPACING: [x] R615-2-3 Steel Creek Unit (UNIT) [ ] R615-3-2

[ ] N/A (CAUSE NO. & DATE) [ ] R615-3-3

STIPULATIONS:

1- Needs water permit

2- Upon approval of this will all recommendations from ROCC must be ~~met~~ followed. ~~Recom~~ ~~Recommendations~~ ~~will be received by Oct 23-91.~~ The Division should receive these recommendations by Oct 23, 1991.

0218T

2- Approval of this well is contingent upon operator following all recommendations from the Resource Development Coordinating Committee (RDCC).

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

State of Utah

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

October 11, 1991

Exxon Corporation
P.O. Box 1600
Midland, Texas 79702

Gentlemen:

Re: Steel Creek Unit #1, 596 feet from the South line, 446 feet from the East line, SE SE, Section 34, Township 3 North, Range 13 East, Summit County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Code Ann. §40-6-18, et seq. (1953, as amended), and Utah Admin. R.615-2-3, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

2. Approval of this well is contingent upon the operator following all recommendations from the Resource Development Coordinating Committee (RDCC). These recommendations should be available through the Division by October 23, 1991.

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

1. Spudding notification within 24 hours after drilling operations commence.

2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.

3. Submittal of the Report of Water Encountered During Drilling, Form 7.

4. Prompt notification in the event it is necessary to plug and abandon the well. Notify Frank R. Matthews, Petroleum Engineer, (Office) (801)538-5340, (Home) (801)476-8613, or R.J. Firth, Associate Director, (Home) (801)571-6068

5. Compliance with the requirements of Utah Admin. R.615-3-20, Gas Flaring or Venting.

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Department of Environmental Quality, Division of Drinking Water/Sanitation, telephone (801)538-6159.

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

The API number assigned to this well is 43-043-30297.

Sincerely,

TA Matthews

for R.J. Firth
Associate Director, Oil and Gas

TAS/ldc
Enclosures
cc: Bureau of Land Management
WOI1

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)

3. APPROXIMATE DATE PROJECT WILL START:
9/16/91

4. AREAWIDE CLEARING HOUSE(s) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Mountainland Association of Governments

5. TYPE OF ACTION: /_/ Lease /X/ Permit /_/ License /_/ Land Acquisition
/_/ Land Sale /_/ Land Exchange /_/ Other _____

6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

7. DESCRIPTION:
Exxon Corporation proposes to drill the Steel Creek Unit #1 well (wildcat) on federal lease U-55711, Summit County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S Bureau of Land Management is the primary administrative agency in this action and must issue approval before operations commence.

8. LAND AFFECTED (site location map required) (indicate county)
SE/4 SE/4, Section 34, Township 3 North, Range 13 East, Summit County, Utah

9. HAS THE LOCAL GOVERNMENT(s) BEEN CONTACTED?

10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
See Attachment

11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:

12. FOR FURTHER INFORMATION, CONTACT:
Frank R. Matthews
PHONE: 538-5340

13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
FR Matthews
DATE: 10/2/91 Petroleum Engineer

WOI187

** TRANSMIT CONFIRMATION REPORT **

Journal No.	: 002
Receiver	: N SWD II MID TX
Transmitter	: DIV OIL GAS & MINING
Date	: Oct 11,91 10:56
Document	: 06 pages
Time	: 03'28"
Mode	: 63 NORMAL
Result	: OK

Post-it™ brand

Fax Transmittal Memo

7672 | No. of Pages 2 | Today's Date 10-11 | Time 9:30

To FRANK MATTHEWS
Company ST OF UTAH O&G MINING
Location SLC
Fax # 801 359 3940
Telephone # 801 538 5340
Comments

From STEPHEN JOHNSON
Company EXXON
Location MIDLAND TX
Fax # 915 688 7136
Dept. Charge
Telephone # 915 688 7548
Original Disposition: ☐ Destroy ☒ Return ☐ Call for pickup

Attach Document

RECEIVED
OCT 1 1 1991
DIVISION OF OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires September 30, 1990

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

SUNDRY NOTICES AND REPORTS ON WELLS
Use for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN TRIPLICATE

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
43-043-30297

3. Address and Telephone No.
BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT

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PROPOSED CHANGE TO SURFACE USE PLAN:

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APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-11-91
BY: [signature]

14. I hereby certify that the foregoing is true and correct
Signed [signature] Title Stephen Johnson Administrative Specialist Date 10/11/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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OCT 11 1991 9:24AM P04

RECEIVED
OCT 11 1991
DIVISION OF OIL GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: U 55711
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:
1. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other
8. Well Name and No.: STEEL CREEK UNIT 1
2. Name of Operator: EXXON CORPORATION ATTN: REGULATORY AFFAIRS
9. API Well No.:
3. Address and Telephone No.: P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548
10. Field and Pool, or Exploratory Area: WILDCAT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): [illegible]' FSL & 446' FEL, SEC.34, T3N, R13E
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(POLYMERS USED IN LSND MUD SYSTEMS WILL DEGRADE AT PH >9.5)							
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APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 10-11-91
BY: [illegible]

14. I hereby certify that the foregoing is true and correct
Signed: Johnson
Title: Stephen Johnson Administrative Specialist

(This space for Federal or State office use)
Approved by: _____ Title: _____ Date: _____
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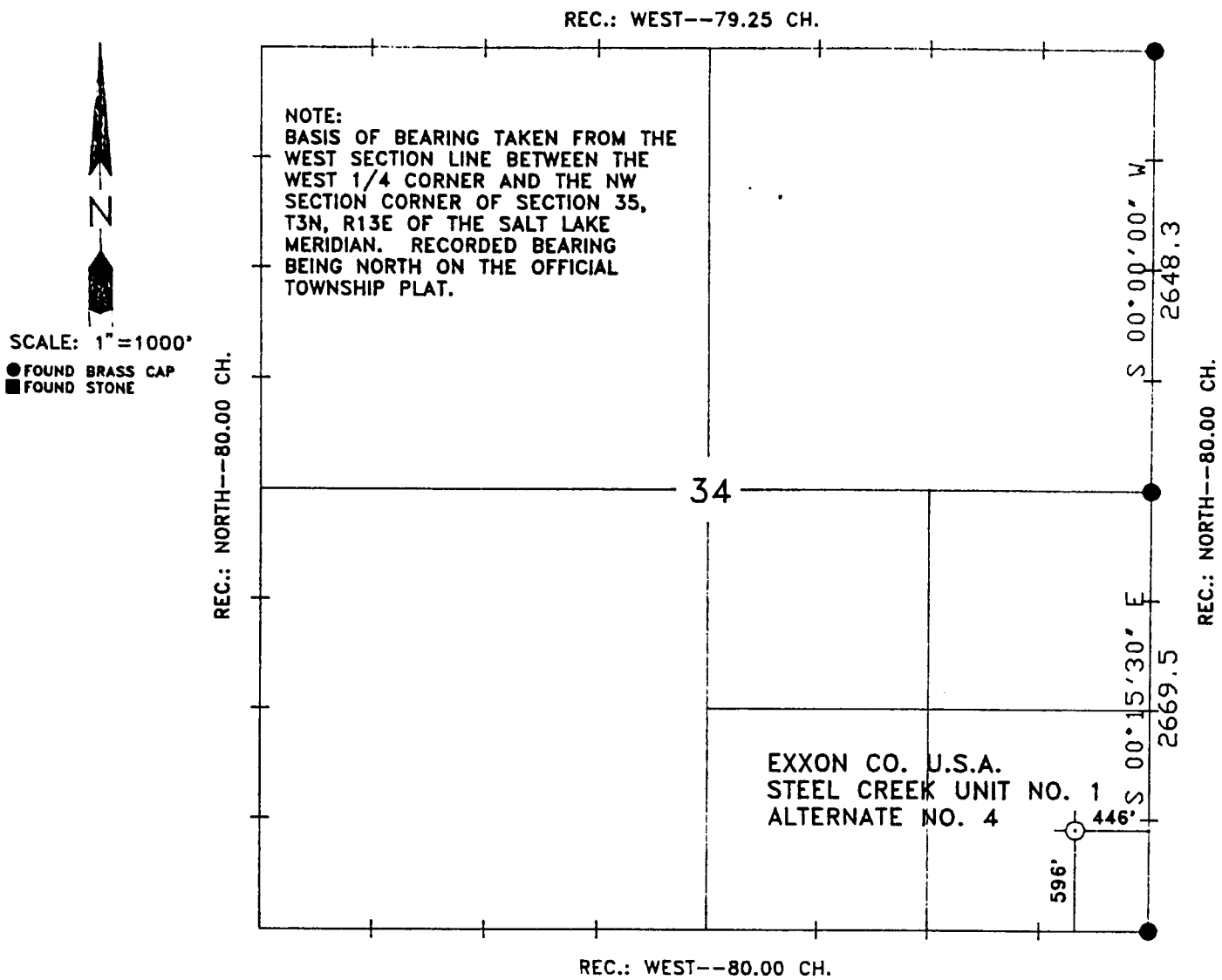
WILLIAM H. SMITH & ASSOCIATES P.C.

SURVEYING CONSULTANTS

POST OFFICE BOX 820
GREEN RIVER, WYOMING

550 EAST 2ND NORTH
PHONE 307-875-363



I, John I. Dolinar of Green River, Wyoming hereby certify that in accordance with a request from Bruce Pennel of Midland, Texas for Exxon Co. U.S.A. made a survey on the 29th day of May ,1991. For location and elevation of the Steel Creek Unit No. 1 Alt. No. 4 As shown on the above map, the wellsite is in the SE 1/4 of the SE 1/4 of Section 34 , Township 3 North , Range 13 East of the Salt Lake Meridian , Summit County, State of Utah Elevation is 9724.1 fee ungraded ground Datum established from the NW section corner of Section 35, T3 R13E of the Salt Lake Meridian, as shown on the USGS 7 1/2' topo "Bridger Lake, Utah."

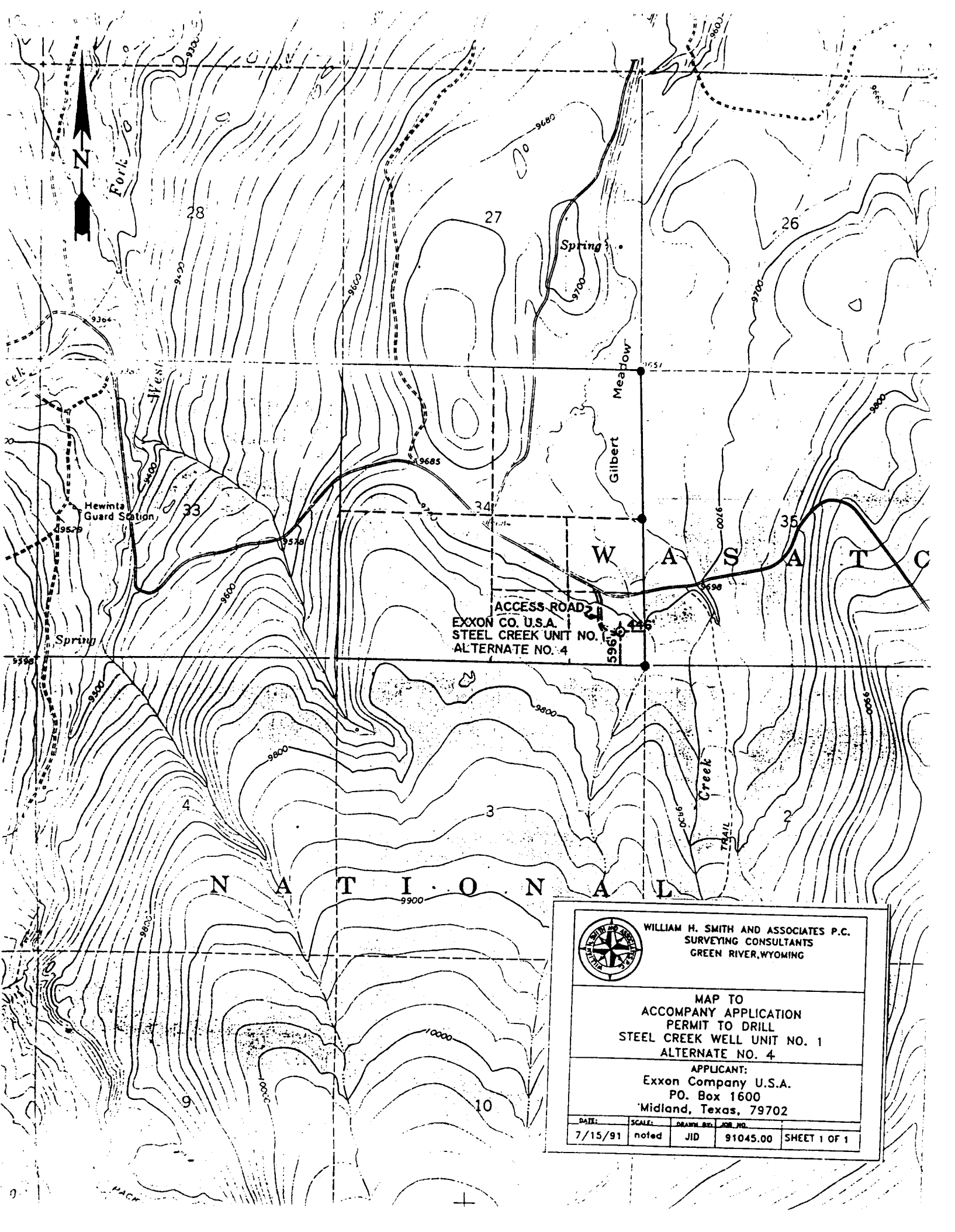
Reference Point N/A
Reference Point
Reference Point
Reference Point

REGISTERED LAND SURVEYOR No. 5909 JOHN I. DOLINAR STATE OF UTAH SEAL

7/22/

JOB NO. 91045.000
DATE: 7/15/91
DRAWN BY: SRB

REGISTERED
WYOMING UTAH IDAHO
NEVADA NEW MEXICO ARIZONA
COLORADO


N
Fork
West
Spring
Meadow
Gilbert
Hewinta
Guard Station
Spring
Creek
TRAIL
W A S A T C
N A T I O N A L
ACCESS ROAD
EXXON CO. U.S.A.
STEEL CREEK UNIT NO. 1
ALTERNATE NO. 4
596'
446'
28
27
26
33
34
35
4
3
2
9
10
9680
9700
9685
9600
9500
9800
9900
10000
WILLIAM H. SMITH AND ASSOCIATES P.C.
SURVEYING CONSULTANTS
GREEN RIVER, WYOMING
MAP TO
ACCOMPANY APPLICATION
PERMIT TO DRILL
STEEL CREEK WELL UNIT NO. 1
ALTERNATE NO. 4
APPLICANT:
Exxon Company U.S.A.
PO. Box 1600
Midland, Texas, 79702
DATE: 7/15/91
SCALE: noted
DRAWN BY: JID
JOB NO. 91045.00
SHEET 1 OF 1

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCT 15 1991
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OIL GAS & MINING

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Expires: September 30, 1990

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Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 10/11/91

(This space for Federal or State office use)

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*See Instructions on Reverse Side

RECEIVED

OCT 15 1991

DIVISION OF OIL GAS & MINING

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(December 1989)

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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3. Address and Telephone No.: P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area: WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description): 596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State: SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[X] Notice of Intent	[ ] Abandonment	[X] Change of Plans
[ ] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

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

13. 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.)*

PROPOSED CHANGE TO 8 POINT PLAN:

5. CIRCULATING MEDIUM CHARACTERISTICS:

A. TYPE AND ANTICIPATED CHARACTERISTICS OF CIRCULATING MEDIUM

DEPTH INTERVAL	MUD TYPE	WEIGHT PPG	FV (SEC/QT)	PV (CP)	YP (#/100 SCF)	WL (CC/30 MIN)	PH
0-600'	SPUD	8.3-8.5	26-28	----------NO CONTROL----------			
600'-9500'	LSND	8.4-9.5	26-40	3-10	5-15	<25	8-9
(POLYMERS USED IN LSND MUD SYSTEMS WILL DEGRADE AT PH >9.5)							
9500'-TD	OBM	9-10	-----	4-8	6-10	<8	N.A.

OBM WILL BE MADE UP WITH ESCAID-110 MINERAL OIL WITH AN O/W RATIO OF BETWEEN 60/40 AND 85/15. ALL MUD CUTTINGS WILL BE SOLIDIFIED USING FLY-ASH.

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

Signed D. Johnson Title Stephen Johnson Administrative Specialist Date 10/11/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

Form 3160-3
(November 1983)
(formerly 9-331C)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: U 55711

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER SINGLE ZONE ☒ MULTIPLE ZONE ☐

7. UNIT AGREEMENT NAME: STEEL CREEK UNIT

2. NAME OF OPERATOR: EXXON CORPORATION ATTN: REGULATORY AFFAIRS

8. FARM OR LEASE NAME: STEEL CREEK UNIT

3. ADDRESS OF OPERATOR: P. O. BOX 1600
MIDLAND, TX 79702

9. WELL NO.: 1 43-043-30297

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 596' FSL & 446' FEL, SEC 34
At proposed prod. zone:

10. FIELD AND POOL, OR WILDCAT: WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: SEC 34 T3N R13E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 16 MI S. OF ROBERTSON, WY

12. COUNTY OR PARISH: SUMMIT

13. STATE: UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 10885

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: NONE

20. ROTARY OR CABLE TOOLS: ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 9724 GR

22. APPROX. DATE WORK WILL START*: 9-16-91

RECEIVED
OCT 17 1991
DIVISION OF
OIL GAS & MINING

24.
SIGNED: S. Johnson
TITLE: Stephen Johnson, Administrative Specialist
(915) 688-7548
DATE: 07/30/91

(This space for Federal or State office use)

PERMIT NO. O&G 9101
APPROVAL DATE 10 October 1991

APPROVED BY: Lisa H. Keller
TITLE: Dist. Mgr.
DATE: 10/10/91

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL

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

*See Instructions On Reverse Side

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

~~Gary R Frith~~

IN REPLY REFER TO:

United States Department of the Interior

BUREAU OF LAND MANAGEMENT
SALT LAKE DISTRICT OFFICE
2370 South 2300 West
Salt Lake City, Utah 84119

3160
O&G 9101
U-55711
(U-026)

RECEIVED
OCT 17 1991
DIVISION OF
OIL GAS & MINING

OCT 15 1991

Diane R. Nielson
Utah Div. of Oil, Gas, & Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Dear Diane:

Enclosed is a copy of the approved APD Fact Sheet and a location plat for Exxon Corporation's, Steel Creek #1, SESE, Section 34, T3N, R13E, Summit County, Utah.

If you have any questions concerning this matter, please feel free to contact Dan Washington of my staff at (801) 977-4300.

Sincerely yours,

Deane

Deane H. Zeller
District Manager

Enclosures (2)
1-Exxon Corp., Steel Creek #1, APD Fact Sheet
2-Location Plat

DIVISION OF OIL, GAS AND MINING

WATER PERMIT OK

API NO. 43-043-30297

SPUDDING INFORMATION

NAME OF COMPANY: EXXON CORPORATION

WELL NAME: EXXON STEEL CREEK UNIT #1

SECTION SESE 34 TOWNSHIP 3N RANGE 13E COUNTY SUMMIT

DRILLING CONTRACTOR NORTON

RIG # 9

SPUDDED: DATE 11-8-91

TIME Early Morn.

HOW ROTARY

DRILLING WILL COMMENCE

REPORTED BY ART BACKMAN

TELEPHONE # 915-688-7185

DATE 11-13-91 SIGNED TAS/CDW

Post-it® brand
Fax Transmittal Memo

To VICKY CARNEY
Company UTAH O&G MINING
Location SLC
Fax # 801 359 3940
Telephone #
Comments THE ORIGINAL FORM WILL BE MAILED FROM MIDLAND TODAY (11-15-91)
ANY QUESTIONS PLEASE CALL ME. THANKS
STEVE

7672 No. of Pages 1
Today's Date 11-15-91 Time 9:50 TX
From STEPHEN JOHNSON
Company EXXON
Dept. Charge
Location MIDLAND TX
Telephone # 915 688 7548
Fax # 915 688 7136
Original Disposition: ☐ Destroy ☒ Return ☐ Call for pickup

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Exxon Corporation
OPERATOR CODE N0420
ADDRESS P.O. Box 1600
Midland, TX 79702
PHONE NO. (915)688-7548

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	99999	11327	43-043-30297	Steel Creek Unit #1	SESE	34	3N	13E	Summit	11-7-91	

COMMENTS: Federal-Lease
Field-Wildcat
Unit-Steel Creek Unit
(Entity 11327 added 11-20-91) lep

COMMENTS:

COMMENTS:

COMMENTS:

COMMENTS:

RECEIVED
NOV 15 1991
DIVISION OF
OIL GAS & MINING

ACTION CODES
A - ESTABLISH NEW ENTITY FOR NEW WELL
B - ADD NEW WELL TO EXISTING ENTITY
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)
(SEE INSTRUCTIONS ON BACK OF FORM)

SIGNATURE Stephen Johnson
TITLE Administrative Specialist 11-15-9
DATE

FROM:EXXON SWD JI MID TX TO: 801 359 3940 15. 1991 10:44AM #894 P.01

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Exxon Corporation

ADDRESS P.O. Box 1600
Midland, TX 79702

OPERATOR CODE N0420

PHONE NO. (915) 688-7548

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION QQ	SC	TP	RG	COUNTY	SPUD DATE	EFFECTIVE DATE
A	—	11327	43-043-30297	Steel Creek Unit #1	SESE	34	3N	13E	Summit	11-7-91	

COMMENTS: (Entity added 11-20-91) fr

COMMENTS:

COMMENTS:

COMMENTS:

COMMENTS:

RECEIVED
NOV 18 1991
DIVISION OF
OIL GAS & MINING

ACTION CODES:
A - ESTABLISH NEW ENTITY FOR NEW WELL
B - ADD NEW WELL TO EXISTING ENTITY
C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY
D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY
E - OTHER (EXPLAIN IN COMMENTS SECTION)
(SEE INSTRUCTIONS ON BACK OF FORM)

SIGNATURE S. Johnson
Stephen Johnson
TITLE Administrative Specialist
DATE 11-15-91

DOUBLE JACK TESTING & SERVICES, INC.

B.O.P. Test Report

43-043-30297

B.O.P. Test Performed on (date) 11-26-91

Oil Company EXXON USA

Well Name & Number STEEL CREEK UNIT #1

Section 34

Township 3N

Range 13E

County SUMMIT, UT.

Drilling Contractor NORTON #9

Oil Company Site Representative ART BACHMAN

Rig Tool Pusher BUBBA

Tested out of ROCK SPRINGS.

Notified Prior to Test

Copies of This Test Report Sent to: BLM UTAH

STATE OF UTAH

SITE REPRESENTATIVE

Original Chart & Test Report on File at:

ROCK SPRINGS.

Tested by: Double Jack Testing & Services, Inc.
108 Parkview Road
P.O. Box 2097
Evanston, Wyoming 82930

RECEIVED

DEC 0 2 1991

DIVISION OF
OIL GAS & MINING

Doubl Jack Testing & Serv es Inc.

P.O. Box 516
Shoshoni, WY 82649
(307) 876-9390

FIELD TICKET 8757

DATE 11-26-91

RIG NAME & NO. NORTON 9

OPERATOR EXXON

WELL NAME & NO. STEEL CREEK UNIT #1

COUNTY BOP KELLY | STATE MANIFOLD | SECTION 34 | TOWNSHIP 3N | RANGE 13E

ITEMS TESTED

	LOW TEST PSI	TIME HELD MINUTES	HIGH TEST PSI	TIME HELD MINUTES
Top Pipe Rams	250	4 min	2100	10 min
Bottom Pipe Rams	250		2100	
Blind Rams	250		2100	
Annular B.O.P.	250		2100	
Choke Manifold	250		2100	
Choke Line	250		2100	
Kill Line	250		2100	
Super Choke	250		2100	
Upper Kelly	250		2100	
Lower Kelly	250		2100	
Floor Valve	250		2100	
Dart Valve	250		2100	

Closing Unit Psi	2850
Closing Time of Rams	10 sec
Closing Time of Annular	21 sec
Closed Casing Head Valve	✓
Set Wear Sleeve	NO

COMMENTS

ADDITIONAL TESTS & COMMENTS:

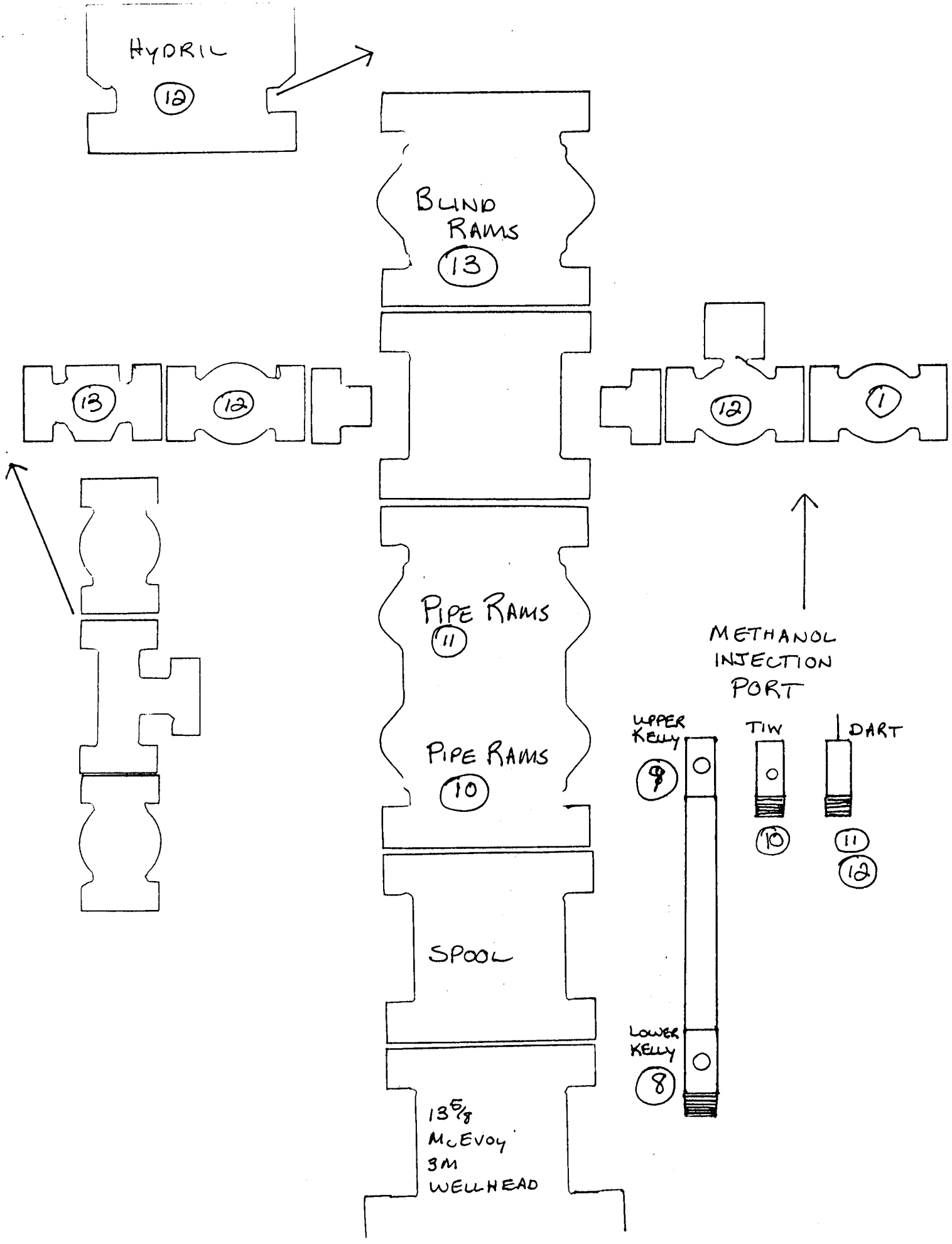
(1) DRAIN AND FILL CHOKE MANIFOLD WITH METHANOL

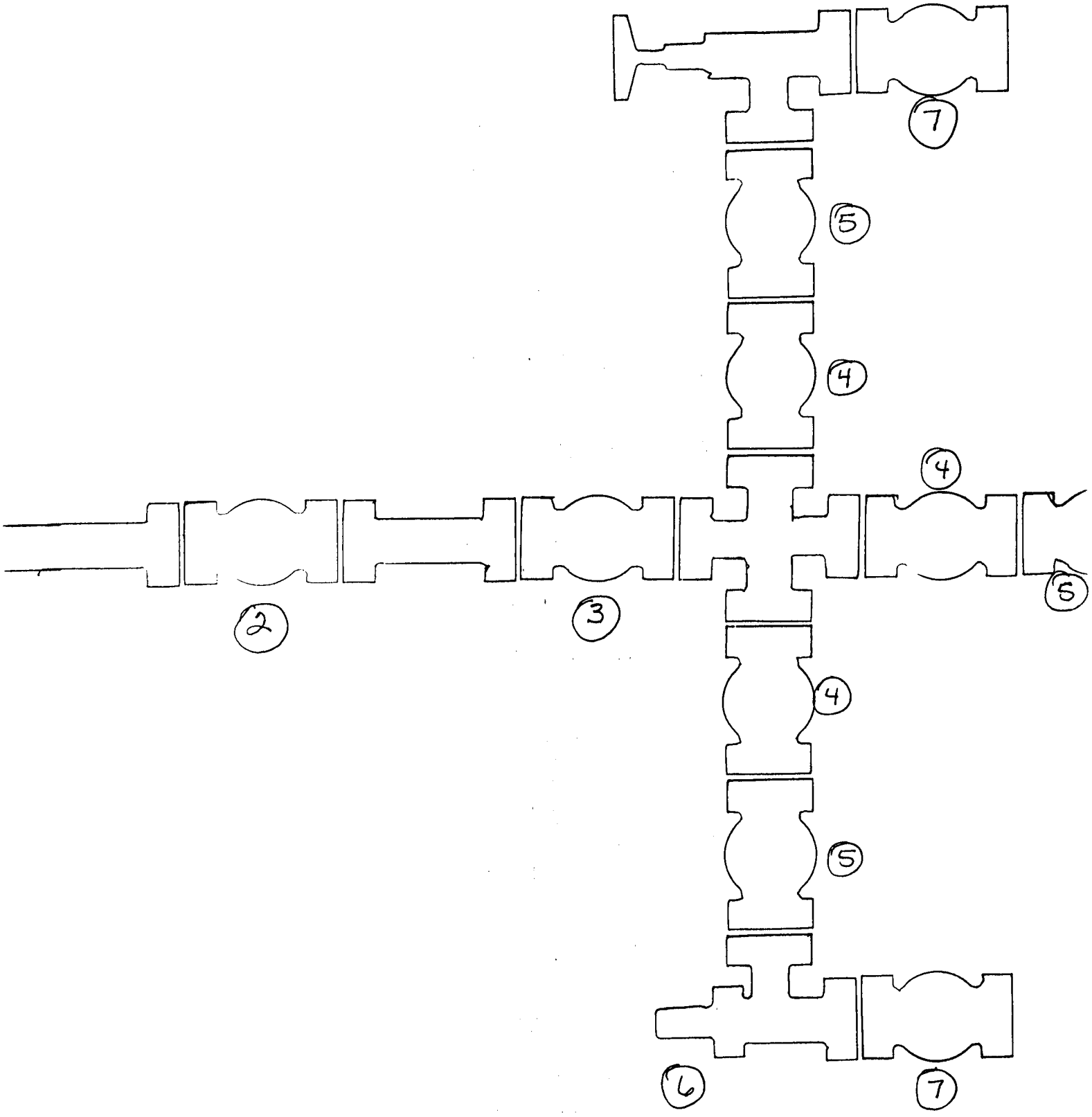
UNIT #108

Arrive 1:00 p.m.

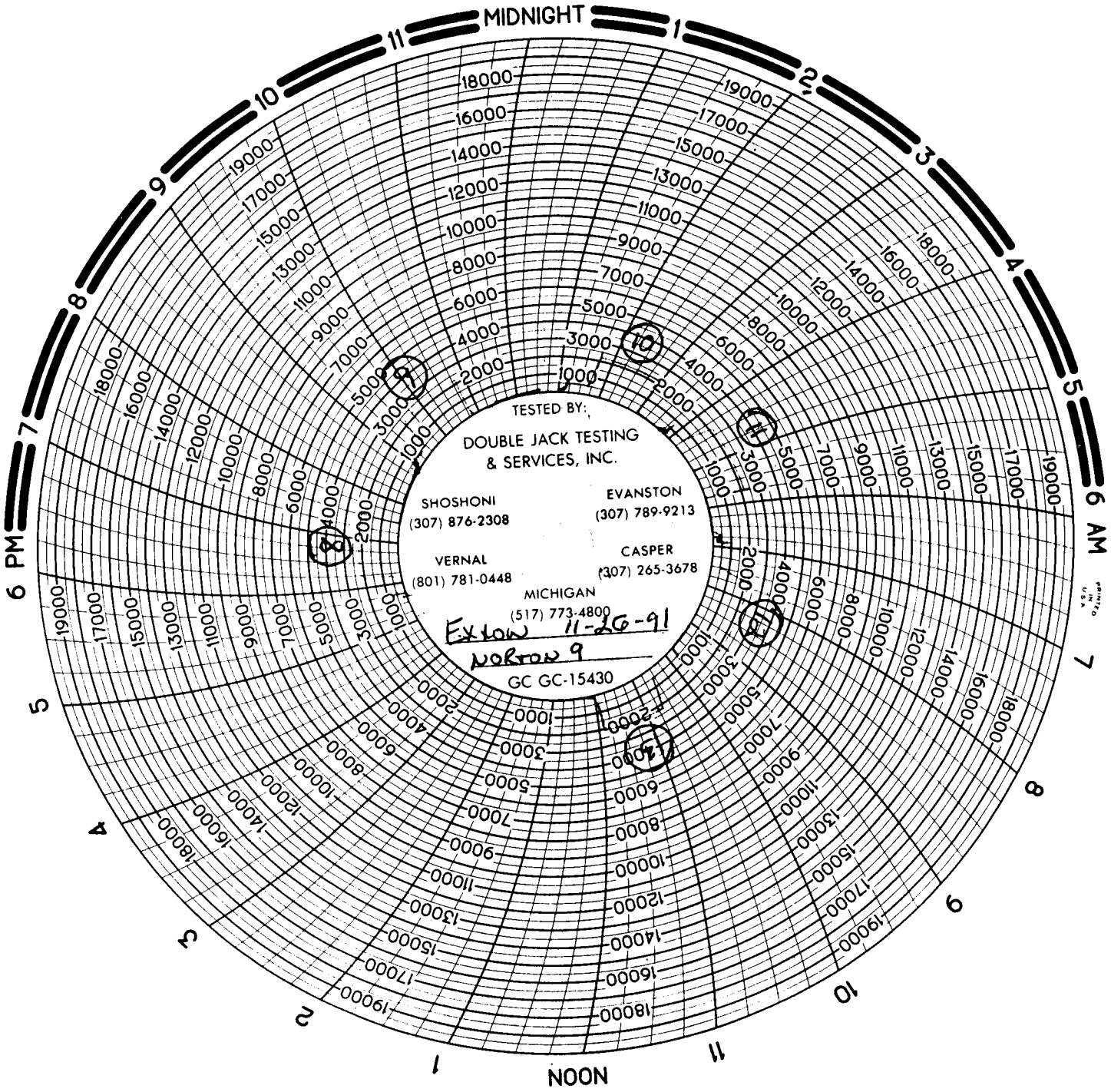
LEAVE 2:00 p.m.

TEST PLUG	12" McEvoy	50.00	50.00
RET. TOOL			
TOP SUB.	4½ IF	N/C	
KELLY SUB.	4½ IF	N/C	
X-OVER SUB.			


HYDRIL
12
BLIND RAMS
13
13
12
12
1
PIPE RAMS
11
PIPE RAMS
10
SPOOL
13 5/8
McEVOY
3M
WELLHEAD
METHANOL INJECTION PORT
UPPER KELLY
9
LOWER KELLY
8
TIW
10
DART
11
12


7
5
4
4
5
2
3
4
5
6
7

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH
NORTON
9
EXXON 11-27-91
GC GC-15216
MIDNIGHT
NOON
6 AM
6 PM
MANIFOLD AND SUPER CHOKE


MIDNIGHT
NOON
6 AM
6 PM
TESTED BY:
DOUBLE JACK TESTING
& SERVICES, INC.
SHOSHONI
(307) 876-2308
EVANSTON
(307) 789-9213
VERNAL
(801) 781-0448
CASPER
(307) 265-3678
MICHIGAN
(517) 773-4800
Exxon 11-26-91
Norton 9
GC GC-15430

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other INTERMEDIATE CASING AND CEMENT	

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

13. 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.)*

12-9 DRILL TO INTERMEDIATE HOLE TD OF 9280', LOG WELL
12-10 RU AND RUN 9 5/8/43&47#/N80/LTC AND SET AT 9275'.
12-11 CEMENT WITH 1108 SXS HLC AND 660 SXS CLG, TOC @ 5900'-TEMP SURVEY
12-12 NU BOPS AND TEST
12-13 DRILL OUT OF CASING AND RUN PIT TO EMW OF 11 PPG, RESUMED DRLG.

RECEIVED
JAN 0 6 1992
DIVISION OF
OIL GAS & MINING

14. I hereby certify that the foregoing is true and correct
Signed D. Johnson Title Stephen Johnson Administrative Specialist Date 12/31/91

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instructions on Reverse Side

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other WEEKLY SUBMITTAL/DAILY REPORTS	

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

13. 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.)*

ATTACHED ARE THE DAILY DRILLING REPORTS FOR THE SUBJECT WELL FROM SPUD THROUGH 1-6-92. THESE WILL BE SUBMITTED WEEKLY RATHER THAN THE MONTHLY REPORTS SUBMITTED TO DATE. PER CONVERSATION WITH DAN WASHINGTON 1-9-92.

RECEIVED
JAN 16 1992
DIVISION OF
OIL GAS & MINING

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

Signed Stephen Johnson Title Administrative Specialist Date 01/13/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

GENERAL INSTRUCTIONS

This form is for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any 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.

SPECIFIC INSTRUCTIONS

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 or Federal office for specific instructions.

Item 13-Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq, 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 2024, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

*U.S. GPO: 1990-773-016/06059

API# 43 043 30297 00 0
Prosp Name STEEL CREEK
Prosp Num [redacted]
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
St [redacted] UT
Count[redacted] SUMMIT
Dril Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 11:15

Date: 01/06/92
Report No: 0060
AFE No: 9770075
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLDY
Air Temp, Deg F 20

Days Since Last LTA 60.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 14015
Footage SLR 76
Rotating Hours SLR 9.50
Mud WT, PPG 8.5
Hole Size, In. 8.500
Pump Pressure, PSI 2100
Circ Rate, GPM 376
Days Since Spud 59.3
Days Ahead/Behind(-) -14.0

Anlr Vel, FPM DP 195
Anlr Vel, FPM DC 345

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/31/91
Last BOP Oper 12/31/91 300/ 3500
Last Angular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1800	1500
Flowline Temp.	94	
Depth (MD)	13939	13939
Mud WT	8.6	8.5
FV	39	41
PV	8	7
YP	6	6
10 Sec GEL	3.0	3.0
10 Min GEL	5.0	5.0
API WL		
API FC, 32nd		
HTHP WL	16.0	16.0
HTHP FC, 32nd	3	3
Vol % Water	17.50	17.50
Vol % Oil	73.50	73.50
Vol % Solids	9.00	9.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	277740	277740
Calcium	21600	21600
Potassium		

Other Mud Properties

O/W RATIO	%	81.0	0.00
AWM	%RH		0.00
O/W RATIO	%		21.0

*Mud Additives

BARITE	SX100	30.00
CALCIUM CL	SX 80	16.00
CS TONE	SX 50	13.00
ESCAID 110	BBLS	120.00

Inclination Survey

MD	Angle	Azmith	Dist
13921	9.50		
13410	6.50		

Torque @ DRLG Amount 1 Units RNDS
Pickup 34520 Slack Off 305 Units K-lbs

Lith %Vol	Mud Vol@ EOP
[redacted]	Resv Pit 271
	Actv Pit 690
	Hole 882
	Total 1843

Mud Make-Up SLR Cum
Oil 120 1923
Water, Bbls 4755
Water Permit # 000

Bit Mfg	REED	HUGHES
Bit No/Rerun	23/	22/
Size	8.500	8.500
Bit Model	HP61	ATJ-33C
Serial #	LH3248	Y-22-HY
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/11	11/11/11
Bit Grade		
Teeth, 8ths		7
Bearing, 8ths		8
Guage, I/O 32nd		8
Depth Bit Run	13939	13445
Pulled		13939
Footage	76	494
Rotary Hrs	9.50	37.25
Rotary RPM	50/ 65	50/ 60
Ave ROP	8.00	13.26
WT On Bit	35/ 45	40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	JUNK BASKT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	8992.1	5.000	19.500	G-105
3	1161.0	5.000	25.600	X-95

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary

	Total Length	Total Disol.
BHA	964.70	28.81
Drill Pipe	13014.0	99

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water, GPS		
WT, PPG		
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

COST LITH GAS

Well Name STEEL CREE JNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0060 Date: 01/06/92

Pump Rate		13.375	600	9.625	9275			[redacted]	
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	445	TRIP OUT	
0945	145	TRIP IN	CHANGE IBS ABOVE SHOCK SUB
1130	100	SLIP/CUT	DRLG LINE
1230	315	TRIP IN	
1545	345	WASH/REM	90 FT TO BTM (HI TORQUE)
1930	930	DRILLING	
			-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS.89 BBLS.
			TOTAL CUM. LOST 2144 BBLS
			P.O. DRILLING NO PROBLEMS

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL	[redacted]	
Lime, PPB	[redacted]	2
LCM, PPB		
ES, Volts	476	460

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
[redacted]		[redacted]

* Mud Additives - Cont.

LUBRA SEAL	SX 30	30.00
MICA	SX 50	71.00
SHRINK WRP	EACH	10.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 J	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT		
Drlg Group	MDO		

Date:	01/05/92
Report No:	0059
AFE No:	9770075
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	CLDY
Air Temp,Deg F	2
Anlr Vel,FPM DP	195
Anlr Vel,FPM DC	345

Days Since Last LTA	59.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP OUT
MD @ End of Period	13939
Footage SLR	314
Rotating Hours SLR	22.75
Mud WT,PPG	8.5
Hole Size,In.	8.500
Pump Pressure,PSI	1900
Circ Rate,GPM	376
Days Since Spud	58.3
Days Ahead/Behind(-)	-13.0

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/31/91	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1500	1300
Flowline Temp.	96	
Depth (MD)	13761	13732
Mud WT	8.5	8.5
FV	37	38
PV	8	6
YP	7	6
10 Sec GEL	3.0	3.0
10 Min GEL	6.0	5.0
API WL		
API FC, 32nd		
HTHP WL	15.6	16.0
HTHP FC,32nd	3	3
Vol % Water	17.50	17.50
Vol % Oil	73.50	74.00
Vol % Solids	9.00	8.50
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	277740	277740
Calcium	21600	21600
Potassium		
Other Mud Properties		
O/W RATIO %	80.0	0.00
AWM		0.00
O/W RATIO %		20.0

*Mud Additives		
CALCIUM CL	SX 80	10.00
CS TONE	SX 50	12.00
CS-11	DRM.	1.00
CS-33	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	2	RNDS
Pickup	Slack Off	Units
33520	315	K-lbs

Lith	%Vol
[redacted]	

Mud Vol@	EOP
Resv Pit	200
Actv Pit	722
Hole	871
Total	1793

Mud Make-Up	SLR	Cum
Oil	122	1803
Water,Bbls		4755
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	22/	
Size	8.500	
Bit Model	ATJ-33C	
Serial #	Y-22-HY	
Bit Nozzle Dia,32nd #1/#2/#3	11/11/11	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run	13445	
Pulled		
Footage	494	
Rotary Hrs	37.25	
Rotary RPM	50/ 60	
Ave ROP	13.26	
WT On Bit	40/ 50	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA No.	Item
1	BIT
1	JUNK BASKT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	8992.1	5.000	19.500	G-105
3	1160.0	5.000	25.600	X-95

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	964.70	28.81
Drill Pipe	13013.0	99

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

POB						
FIN Csg PSI						
Mud Return						
Cmt Return						

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]	[redacted]		

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0059 Date: 01/05/92 Page 2

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1215	DRILLING	
1715	015	RIG SERV	
1730	1030	DRILLING	EXCESSIVE TORQUE
0400	100	TRIP OUT	FOR BIT # 23
			-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS.184 BBLS.
			TOTAL CUM. LOST 2055 BBLS
			P.O. TRIPPING

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	[illegible]	[illegible]
LCM, PPB	[illegible]	[illegible]
ES, Volts	484	468

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

ESCAID 110 BBLS		122.00
LUBRA SEAL	SX 30	30.00
MICA	SX 50	44.00
NUT PLUG	SX 50	10.00
SHRINK WRP	EACH	4.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 11:15

Weather Desc. CLDY
Air Temp, Deg F 20

Date: 01/04/92
Report No: 0058
AFE No: 9770075
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 58.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 13625
Footage SLR 182
Rotating Hours SLR 14.75
Mud WT, PPG 8.5
Hole Size, In. 8.500
Pump Pressure, PSI 1900
Circ Rate, GPM 376
Days Since Spud 57.3
Days Ahead/Behind(-) -12.5

Anlr Vel, FPM DP 195
Anlr Vel, FPM DC 345

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/31/91
Last BOP Oper 12/31/91 300/ 3500
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1600	1430
Flowline Temp.	94	
Depth (MD)	13466	13451
Mud WT	8.5	8.5
FV	38	40
PV	7	6
YP	7	7
10 Sec GEL	3.0	3.0
10 Min GEL	6.0	5.[illegible]
API WL		[illegible]
API FC, 32nd		
HTHP WL	15.2	15.6
HTHP FC, 32nd	3	3
Vol % Water	17.50	18.00
Vol % Oil	73.50	73.50
Vol % Solids	9.00	8.50
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	277740	276702
Calcium	22000	22000
Potassium		
Other Mud Properties		
O/W RATIO %	80.0	0.00
AWM %PH		0.00
O/W RATIO %		20.0

*Mud Additives

BARITE	SX100	36.00
CS TONE	SX 50	11.00
CS-11	DRM.	1.00
ESCAID 110	BBLS	20.00

Inclination Survey

MD	Angle	Azmith	Dist
13410	6.50		
12690	5.25		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
32516	305	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	340
		Actv Pit	659
		Hole	852
		Total	1851

Mud Make-Up SLR

		Cum
Oil	20	1681
Water, Bbls		4755
Water Permit #	000	

Bit Mfg	HUGHES	HUGHES
Bit No/Rerun	22/	21/
Size	8.500	8.500
Bit Model	ATJ-33C	ATJ 33C
Serial #	Y-22-HY	Y94PA
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/11	12/11/11
Bit Grade		
Teeth, 8ths		5
Bearing, 8ths		6
Guage, I/O 32nd		I
Depth Bit Run	13445	12735
Pulled		13445
Footage	180	710
Rotary Hrs	14.50	65.25
Rotary RPM	50/ 60	60/ 65
Ave ROP	12.41	10.88
WT On Bit	40/ 50	45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip	Type	SLR	Screen

BHA

No.	Item
1	BIT
1	JUNK BASKT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	783.2	5.000	25.600	X-95
2	8992.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add Brand	Amt	Units	Amt	Units

Drill String Summary

	Total Length	Total Displ.
BHA	964.70	28.81
Drill Pipe	12636.2	96

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan

OD(In)	MD
20.000	100

Csg Actual

OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0058 Date: 01/04/92

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan 10	Intan 10	

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
01/03/92	1000	129.0	93.0	26.0	28.0	155.0	121.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	015	DRILLING	
0515	445	TRIP OUT	
1000	400	TRIP IN	
1400	030	WASH/REM	20 FT TO BTM NO FILL
1430	1430	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS.76 BBLS.
TOTAL CUM. LOST 1871 BBLS
P.O. DRLG. [redacted] FORMATION

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	[redacted]	[redacted]
LCM, PPB	[redacted]	[redacted]
ES, Volts	472	460

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

LIME	SX 50	4.00
LUBRA SEAL	SX 30	20.00
MICA	SX 50	15.00
SHRINK WRP	EACH	4.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT		
Dril Group	MDO		

Date:	01/03/92	Weather Desc.	CLR
Report No:	0057	Air Temp, Deg F	-2
AFE No:	9770075		
AFE Amt, K$	[redacted]		
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Present Operation	DRILLING
MD @ End of Period	13443
Footage SLR	243
Rotating Hours SLR	23.50
Mud WT, PPG	8.5
Hole Size, In.	8.500
Pump Pressure, PSI	1900
Circ Rate, GPM	376
Days Since Spud	56.3
Days Ahead/Behind(-)	-12.0

Anlr Vel, FPM DP	195
Anlr Vel, FPM DC	345

Days Since Last LTA	57.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/31/91	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1600	1445	Akl(PF)		
Flowline Temp.	97		Akl(PM)		
Depth (MD)	13315	13305	Akl(MF)		
Mud WT	8.5	8.5	Chlorides	276702	276702
FV	37	38	Calcium	22000	22000
PV	7	6	Potassium		
YP	5	[illegible]	Other Mud Properties		
10 Sec GEL	3.0	2.0	O/W RATIO %	80.0	0.00
10 Min GEL	5.0	5.0	AWM %RH		0.00
API WL			O/W RATIO %		20.0
API FC, 32nd					
HTHP WL	16.0	16.2			
HTHP FC, 32nd	3	3			
Vol % Water	18.00	18.00			
Vol % Oil	73.00	73.50			
Vol % Solids	9.00	8.50			
Vol % Sand					
MB					

*Mud Additives

CS TONE	SX 50	13.00
CS-11	DRM.	1.00
ESCAID 110	BBLS	10.00
LUBRA SEAL	SX 30	20.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
30514	325	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	410
		Actv Pit	655
		Hole	844
		Total	1909

Mud Make-Up	SLR	Cum
Oil	10	1661
Water, Bbls		4755
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	21/
Size		8.500
Bit Model		ATJ 33C
Serial #		Y94PA
Bit Nozzle Dia, 32nd #1/#2/#3		12/11/11
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		12735
Pulled		
Footage		708
Rotary Hrs		65.00
Rotary RPM		60/ 65
Ave ROP		10.89
WT On Bit		45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	8992.1	5.000	19.500	G-105
3	595.2	5.000	25.600	X-95

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	935.09	28.59
Drill Pipe	12448.2	94

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water, GPS				
WT, PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

POB						
FIN Csg PSI						
Mud Return						
Cmt Return						

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE JNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0057 Date: 01/03/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1045	DRILLING	
1545	030	RIG SERV	
1615	1245	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS.-40 BBLS.
TOTAL CUM. LOST 1795 BBLS
P.O. DRLG. [redacted] FORMATION

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	0.9	0.8
LCM, PPB		
ES, Volts	486	473

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

MICA	SX 50	20.00
SHRINK WRP EACH		4.00

-----end of report-----end of report-----end of report-----end of report-----

API#.	43 043 30297 0 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drilling Group	MDO

EUSA Supv1	BACHMAN
EUSA Supv2	
EUSA Other	
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	11:15

Date:	01/02/92
Report No:	0056
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	CLR
Air Temp, Deg F	-4

Days Since Last LTA	56.0
LTA/MMH	[redacted]
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	13200
Footage SLR	250
Rotating Hours SLR	23.75
Mud WT, PPG	8.4
Hole Size, In.	8.500
Pump Pressure, PSI	1900
Circ Rate, GPM	376
Days Since Spud	55.3
Days Ahead/Behind(-)	-12.0

Anlr Vel, FPM DP	195
Anlr Vel, FPM DC	345

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/31/91	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR — Duration 5.0 min — Duration ___ min — Next BOP Test 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1600	1500
Flowline Temp.	96	
Depth (MD)	13065	13054
Mud WT	8.5	8.5
FV	38	39
PV	7	6
YP	5	[illegible]
10 Sec GEL	3.0	[illegible]
10 Min GEL	5.0	5.0
API WL		
API FC, 32nd		
HTHP WL	15.8	15.8
HTHP FC, 32nd	3	3
Vol % Water	18.00	18.00
Vol % Oil	73.00	73.50
Vol % Solids	9.00	8.50
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	276702	276702
Calcium	22400	22400
Potassium		
Other Mud Properties		
O/W RATIO	80.0	0.00
AWM	%RH	0.00
O/W RATIO	%	20.0

*Mud Additives

CS TONE	SX 50	10.00
CS-II	DRM.	1.00
ESCAID 110	BBLS	30.00
LIME	SX 50	4.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
31508	300	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	300
		Actv Pit	695
		Hole	827
		Total	1822

Mud Make-Up SLR		Cum
Oil	30	1651
Water, Bbls		4755
Water Permit #	000	

Bit Mfg	HUGHES
Bit No/Rerun	21/
Size	8.500
Bit Model	ATJ 33C
Serial #	Y94PA
Bit Nozzle Dia, 32nd #1/#2/#3	
Bit Grade	12/11/11
Teeth, 8ths	
Bearing, 8ths	
Guage, I/O 32nd	
Depth Bit Run	12735
Pulled	
Footage	465
Rotary Hrs	41.50
Rotary RPM	60/ 65
Ave ROP	11.20
WT On Bit	45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip	Type	SLR	Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	376.4	5.000	25.600	X-95
2	8992.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Disol.
BHA	935.09	28.59
Drill Pipe	12229.4	92

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0056 Date: 01/02/92 Page 2

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD [redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	915	DRILLING	
1415	015	RIG SERV	
1430	1430	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 29 BBLS.
TOTAL CUM. LOST 1755 BBLS
P.O. DRLG. [redacted] FORMATION

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.3	1.3
LCM, PPB		
ES, Volts	475	462

* Mud Additives - Cont.

LUBRA SEAL	SX 30	20.00
MICA	SX 50	20.00
SHRINK WRP	EACH	4.00

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT		
Drill Group	MDO		

Date:	01/01/92		
Report No:	0055		
AFE No:	9770075		
AFE Amt,K$	[redacted]		
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Weather Desc.	CLR		
Air Temp,Deg F	-8		
Days Since Last LTA	55.0		
LTA/MMH	[illegible]		
Number Accidents SLR	0		
Pollution Incidents SLR	0		

Present Operation	DRILLING	Anlr Vel,FPM DP	195
MD @ End of Period	12950	Anlr Vel,FPM DC	345
Footage SLR	215		
Rotating Hours SLR	17.75		
Mud WT,PPG	8.5		
Hole Size,In.	8.500		
Pump Pressure,PSI	1900		
Circ Rate,GPM	376		
Days Since Spud	54.3		
Days Ahead/Behind(-)	-11.5		

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/31/91	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL		
*Sampl Source	OUT	IN	Mud PH			
Time	1515	1400	Akl(PF)			
Flowline Temp.	92		Akl(PM)			
Depth (MD)	12789	12778	Akl(MF)			
Mud WT	8.6	8.6	Chlorides	276702	276702	
FV	38	39	Calcium	22400	22400	
PV	7	6	Potassium			
YP	6	5	Other Mud Properties			
10 Sec GEL	3.0	3.0	AWS	%RH	0.72	80.0
10 Min GEL	5.0	5.0	AWM	%RH	0.69	
API WL			O/W RATIO	%	20.0	
API FC, 32nd						
HTHP WL	15.6	16.0				
HTHP FC,32nd	3	3				
Vol % Water	18.00	18.00	*Mud Additives			
Vol % Oil	72.50	73.00	CS TONE	SX 50	6.00	
Vol % Solids	9.50	9.00	CS-33	DRM.	1.00	
Vol % Sand			ESCAID 110	BBLS	15.00	
MB			G. SORB	SX 50	4.00	

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
31503	295	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	225
		Actv Pit	710
		Hole	809
		Total	1744

Mud Make-Up SLR		Cum
Oil	15	1621
Water,Bbls		4755
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	21/
Size		8.500
Bit Model		ATJ 33C
Serial #		Y94PA
Bit Nozzle Dia,32nd #1/#2/#3		12/11/11
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run		12735
Pulled		
Footage		215
Rotary Hrs		17.75
Rotary RPM		60/ 65
Ave ROP		12.11
WT On Bit		45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	8992.1	5.000	19.500	G-105
2	2860.9	5.000	19.500	E-75
3	124.8	5.000	25.600	X-95

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Disol.
BHA	935.09	28.59
Drill Pipe	11977.8	89

Cement Company			
Cementing Obj.			
Slurry			
Class			
Sacks			
Water,GPS			
WT,PPG			
BBLS Slurry			

Add	Brand	Amt	Units	Amt	Units

POB						
FIN Csg PSI						
Mud Return						
Cmt Return						

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0055 Date: 01/01/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill		
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	100	TRIP IN	HIT TIGHT PLACE @ 11210'
0600	400	WASH/REM	F/ 11210' TO 11450'
1000	100	TRIP IN	FINISH TIH. REAM 3' TO BTM. NO FILL
1100	415	DRILLING	
1515	015	RIG SERV	
1530	1330	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 64 BBLS.
TOTAL CUM. LOST 1716 BBLS
P.O. DRLG. [redacted] FORMATION

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL	[redacted]	
Lime, PPB	1.3	1.3
LCM, PPB		
ES, Volts	464	450

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

LIME	SX 50	4.00
LUBRA SEAL	SX 30	6.00
MICA	SX 50	6.00
SHRINK WRP	EACH	4.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drill Group	MDO

EUSA Supv1	MCPEEK
EUSA Supv2	
EUSA Other	
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	11:15
Weather Desc.	SNOW
Air Temp, Deg F	10
Anlr Vel, FPM DP	0
Anlr Vel, FPM DC	0

Date:	12/31/91
Report No:	0054
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	54.6
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP IN
MD @ End of Period	12735
Footage SLR	82
Rotating Hours SLR	8.50
Mud WT, PPG	8.5
Hole Size, In.	8.500
Pump Pressure, PSI	
Circ Rate, GPM	0
Days Since Spud	53.3
Days Ahead/Behind(-)	-12.0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/31/91	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR — Duration 5.0 min — Duration ____ min — Next BOP Test 12/27/91

Mud Type	ESCAID.	ESCAID
*Sampl Source	IN	OUT
Time	1310	1215
Flowline Temp.		97
Depth (MD)	12735	12725
Mud WT	8.4	8.5
FV	37	37
PV	5	6
YP	5	6
10 Sec GEL	2.0	3.0
10 Min GEL	5.0	5.0
API WL		
API FC, 32nd		
HTHP WL	16.4	16.0
HTHP FC, 32nd	3	3
Vol % Water	18.00	18.00
Vol % Oil	73.50	73.00
Vol % Solids	8.50	9.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	276702	276702
Calcium	22400	22800
Potassium		

Other Mud Properties

AWS	%RH	0.75	80.0
AWM	%RH	0.69	
O/W RATIO	%	20.0	

*Mud Additives

BARITE	SX100	35.00
CALCIUM CL	SX 80	70.00
CS TONE	SX 50	20.00
CS-II	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist
12690	5.25		
11944	6.25		

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	300
		Actv Pit	685
		Hole	806
		Total	1791

Mud Make-Up	SLR	Cum
Oil	166	1606
Water, Bbls		4755
Water Permit #	000	

Bit Mfg	HUGHES	HUGHES
Bit No/Rerun	21/	20/
Size	8.500	8.500
Bit Model	ATJ 33C	ATJ-33C
Serial #	Y94PA	F-50-PE
Bit Nozzle Dia, 32nd #1/#2/#3	12/11/11	12/11/11
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		4
Guage, I/O 32nd		2
Depth Bit Run	12735	11982
Pulled		12735
Footage	0	753
Rotary Hrs		65.50
Rotary RPM	60/ 65	60/ 65
Ave ROP		11.50
WT On Bit	45/ 50	45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	8835.7	5.000	19.500	G-105
2	2892.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Disp.
BHA	935.09	28.59
Drill Pipe	11728.0	88

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add Brand Amt Units Amt Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0054 Date: 12/31/91

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	830	DRILLING	
1330	330	TRIP OUT	SPOT LCM PILL, PUMP SLUG, & DROP SURVEY
1700	430	BHA INSP	CHECK BHA. 2 CRACKED D.C'S
2130	300	BOP T/DR	TEST BOP'S 300 PSI 3500 PSI & ALL RELATED EQUIPMENT
0030	100	CHNG BHA	CHG. OUT 2 IBS & P.U. 3 DC'S
0130	330	TRIP IN	
			-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS. 36 BBLS.
			TOTAL CUM. LOST 1652 BBLS
			NOTIFIED BLM,PHIL ALLARD, FOR BOP TEST. 12/30/91
			NOTIFIED UTAH O & G ,MR. THOMPSON, FOR BOP TEST 12/30/91.
			BOTH AGENCIES ELECTED NOT TO WITNESS TEST.
			P.O. TIH

* Mud Properties - Cont.

Source	IN	OUT
30 Min GEL		
Lime, PPB	1.2	1.2
LCM, PPB		
ES, Volts	465	474

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-HTS	SX 50	4.00
ESCAID 110 BBLS		166.00
LUBRA SEAL	SX 30	33.00
MICA	SX 50	34.00

end of report end of report end of report end of report

API#	43 043 30297 00 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT	Weather Desc.	CLR
Dril Group	MDO	Air Temp,Deg F	8

Date:	12/30/91
Report No:	0053
AFE No:	9770075
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	53.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	12653
Footage SLR	265
Rotating Hours SLR	23.50
Mud WT,PPG	8.6
Hole Size,In.	8.500
Pump Pressure,PSI	1950
Circ Rate,GPM	376
Days Since Spud	52.3
Days Ahead/Behind(-)	-11.0
Anlr Vel,FPM DP	195
Anlr Vel,FPM DC	345

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/27/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1700	1445
Flowline Temp.	98	
Depth (MD)	12525	12449
Mud WT	8.5	8.5
FV	39	38
PV	6	5
YP	6	3
10 Sec GEL	3.0	2.0
10 Min GEL	5.0	5.0
API WL		
API FC, 32nd		
HTHP WL	16.0	16.2
HTHP FC,32nd	3	3
Vol % Water	18.00	18.00
Vol % Oil	73.00	73.00
Vol % Solids	9.00	9.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	276702	276702
Calcium	22400	21600
Potassium		
Other Mud Properties		
O/W RATIO %	80.0	0.74
AWM %RH		0.69
O/W RATIO %		20.0

*Mud Additives

CALCIUM CL	SX 80	77.00
CS TONE	SX 50	19.00
CS-II	DRM.	1.00
CS-33	DRM.	2.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
31695	277	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	60
		Actv Pit	763
		Hole	792
		Total	1615

Mud Make-Up SLR		Cum
Oil	165	1440
Water,Bbls		4755
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	20/
Size		8.500
Bit Model		ATJ-33C
Serial #		F-50-PE
Bit Nozzle Dia,32nd #1/#2/#3		12/11/11
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run		11982
Pulled		
Footage		671
Rotary Hrs		57.00
Rotary RPM		60/ 65
Ave ROP		11.77
WT On Bit		45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Equip	Type	Hrs SLR	Used Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	8835.7	5.000	19.500	G-105
2	2892.3	5.000	19.500	E-75

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	11728.0	88

POB							
FIN Csg PSI		Csg Plan		Csg Actual	---PPG---		Mudlogger Report
Mud Return		OD(In)	MD	OD(In)	MD	PIT	LOT	Gas Units MD Chlori
Cmt Return		20.000	100	13.375	649			[redacted]

Well Name STEEL CREE UNIT - Continued
API# 43 043 30297 0[illegible] 00 Report No: 0053 Date: 12/30/91

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$) Daily Cum.
Total Drill [redacted]
Total Compl [redacted]
Total D&C [redacted]
Mud Costs [redacted]
Cement Cost [redacted]
Adj Fact Tan 10 Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	800	DRILLING	
1300	030	RIG SERV	
1330	1530	DRILLING	45 WOB 65 RPM [redacted] FORMATION

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS.150 BBLS.
TOTAL CUM. LOST 1616 BBLS
P.O. DRILLING.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.2	1.3
LCM, PPB		
ES, Volts	468	454

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-HTS	SX 50	4.00
ESCAID 110 BBLS		165.00
LUBRA SEAL	SX 30	23.00
MICA	SX 50	23.00
SHRINK WRP	EACH	3.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30257 00 00	EUSA Supv1	MCPEEK	Date:	12/29/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0052
Prosp Number		EUSA Other		AFE No:	5770075
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 5
Budgeted MD,Ft.	15500	Oper Supt.	SOSSAMAN	Rig Phone	(915)698-7195
Budgeted TVD,Ft.	15500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	11:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLR		
Dril Group	MDO	Air Temp,Deg F	2	Days Since Last LTA/MR	52.0

Present Operation	DRILLING	Anlr Vel,FPM DP	195	Number Accidents SLR	0
MD @ End of Period	12336	Anlr Vel,FPM DC	345	Pollution Incidents SLR	0
Footage SLR	278				
Rotating Hours SLR	33.00	Well Control and Safety Drill		Low / High,PSI	
Mud WT,PPG	8.5	Last BOP Test	12/13/91	250/ 3000	
Hole Size,In.	8.500	Last BOP Drill	12/27/91		
Pump Pressure,PSI	1350	Last BOP Oper			
Circ Rate,GPM	376	Last Anular Test			
Days Since Spud	51.3	SAFE-GEN	Duration 5.0 min	Next BOP Test	
Days Ahead/Behind(-)	-12.0		Duration min	12/27/91	

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1500	1330	Akl(PF)		
Flowline Temp.	96		Akl(PM)		
Depth (MD)	12217	12197	Akl(MF)		
Mud WT	8.7	8.7	Chlorides	288225	266012
FV	35	35	Calcium	22400	22000
PV	7	8	Potassium		
YP	6	5	Other Mud Properties		
10 Sec GEL	3.0	3.0	O/W RATIO %	79.0	0.74
10 Min GEL	5.0	5.0	AWM %		0.70
API WL			O/W RATIO %		21.0
API FC, 32nd					
HTHP WL	16.2	16.0			
HTHP FC,32nd	3	3			
Vol % Water	19.00	19.00	Mud Additives		
Vol % Oil	71.50	72.00	CS TONE	SX 50	10.00
Vol % Solids	9.50	9.00	ESCAID 110	BBLS	10.00
Vol % Sand	0.10	0.10	LUBRA SEAL		18.00
MB			MICA	SX 25	16.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
312S1	270	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	100
		Actv Pit	580
		Hole	772
		Total	1552

Mud Make-Up SLR		Cum
Oil	10	1275
Water,Bbls		4755
Water Permit # 000		

Bit Mfg	HUGHES	Pump No.	1	2	Solids Control Hrs Used
Bit No/Rerun	20/	Stroke	10.0	10.0	Equip Type / SLR / Screen
Size	8.500	Liner	6.5	6.5	
Bit Model	ATJ-33C	SPM		90	
Serial #	F-50-PE	Hrs SLR			
Bit Nozzle Dia,32nd #1/#2/#3	12/11/11	GPM		375	

Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run	11982	
Pulled		
Footage	406	
Rotary Hrs	33.50	
Rotary RPM	60/ 65	
Ave ROP	12.12	
WT On Bit	45/ 50	

BHA

No.	Item
1	BIT
1	8PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	9555.4	5.000	19.500	G-105
2	2892.3	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.51
Drill Pipe	11447.7	35

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	643		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0052 Date: 12/29/91

Pump Rate	13.375	300	9.625	3275							
Recip Pipe	9.525	9200									
Anulus PSI	5.500	16500									

+Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	
						Total Compl	[redacted]	
						Total D&C	[redacted]	
						Mud Costs	[redacted]	
						Cement Cost	[redacted]	
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	600	DRILLING	
1100	030	RIG SERV	
1130	1300	DRILLING	
0030	030	SURVEY	ATTEMPTED TO RUN WIRELINE SURVEY. HOLE STARTED TO DRAG. 60K. ABORTED SURVEY.
0100	400	DRILLING	45K WOB 55 RPM
			-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS. 58 BBLS.
			TOTAL CUM. LOST 1456 BBLS
			P.O. DRILLING.

* Mud Properties - Cont.			* Drilling Obj - Cont.	
Source	OUT	IN	Obj Reservoir	Top MD
30 Min GEL			[redacted]	[redacted]
Lime, PPB	1.3	1.3		
LCM, PPB				
ES, Volts	458	443		

-----end of report-----end of report-----end of report-----end of report-----

Glass

API #	43 043 30297 00 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREE	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT		
Dril Group	MDO		

Date:	12/28/91
Report No:	0051
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	CLR
Air Temp, Deg F	8
Anlr Vel, FPM DP	195
Anlr Vel, FPM DC	345

Days Since Last LTA	51.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	12110
Footage SLR	133
Rotating Hours SLR	12.50
Mud WT, PPG	8.7
Hole Size, In.	8.500
Pump Pressure, PSI	1950
Circ Rate, GPM	376
Days Since Spud	50.3
Days Ahead/Behind(-)	-12.0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/27/91	
Last BOP Oper		
Last Anular Test		

SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1930	1330
Flowline Temp.	94	
Depth (MD)	11992	11982
Mud WT	9.0	8.9
FV	36	41
PV	6	6
YP	5	6
10 Sec GEL	3.0	3.0
10 Min GEL	5.0	6.0
API WL		
API FC, 32nd		
HTHP WL	15.8	15.6
HTHP FC, 32nd	3	3
Vol % Water	19.50	19.50
Vol % Oil	69.50	70.50
Vol % Solids	11.00	10.00
Vol % Sand	0.10	0.10
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	247583	247600
Calcium	21600	21600
Potassium		
Other Mud Properties		
O/W RATIO %	78.0	22.0

Inclination Survey

MD	Angle	Azmith	Dist
11944	6.25		
11754	6.50		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
30886	267	K-lbs

Lith	%Vol	Mud Vol@ EOP	
[redacted]		Resv Pit	210
		Actv Pit	630
		Hole	758
		Total	1598

*Mud Additives

BARITE	SX100	20.00
CALCIUM CL	SX 80	75.00
CS TONE	SX 50	8.00
CS-II	DRM.	2.00

Mud Make-Up	SLR	Cum
Oil	170	1265
Water, Bbls	50	4755
Water Permit #	000	

Bit Mfg	HUGHES	HUGHES
Bit No/Rerun	20/	19/
Size	8.500	8.500
Bit Model	ATJ-33C	ATJ-44
Serial #	F-50-PE	J-13-PN
Bit Nozzle Dia, 32nd #1/#2/#3	12/11/11	11/11/12
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		6
Guage, I/O 32nd		I
Depth Bit Run	11982	11516
Pulled		11982
Footage	128	466
Rotary Hrs	10.50	60.00
Rotary RPM	60/ 65	50/ 65
Ave ROP	12.19	7.77
WT On Bit	45/ 50	40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		90
Hrs SLR		
GPM		376

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	8272.5	5.000	19.500	G-105
2	2892.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.

Slurry

Class				
Sacks				
Water, GPS				
WT, PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	11164.8	84

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PIT	LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK NIT - Continued Page 2
API# 43 043 30297 00-00 Report No: 0051 Date: 12/28/91

Pump Rate		13.375	600	9.625	9275			[redacted]	
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	DRILLING	
0700	430	TRIP OUT	PUMP SLUG, DROP SURVEY, & TOH FOR BIT
1130	030	CHNG BHA	CHANGE OUT 6 PT. RMR. & BIT
1200	100	TRIP IN	W/ BHA
1300	100	SLIP/CUT	DRLG. LINE
1400	100	REPR/CNT	CHANGE OUT FLOWLINE VALVE
1500	330	TRIP IN	FINISH TIH . NO FILL
1830	1030	DRILLING	45K WOB 65 RPM
			-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS. 162 BBLS.
			TOTAL CUM. LOST 1408 BBLS
			P.O. DRILLING.
			LOWERING MUD WT. TO 8.5 PPG IN EFFORT TO STOP
			SEEPAGE BY RUNNING CENTRIFUGES

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.9	1.9
LCM, PPB		
ES, Volts	470	450

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-33	DRM.	1.00
ESCAID 110	BBLS	170.00
LUBRA SEAL		7.00
MICA	SX 25	9.00

-----end of report-----end of report-----end of report-----end of report-----

API#.	43 043 30297 0[illegible]0	EUSA Supv1	MCPEEK	Date:	12/27/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0050
Prosp Number		EUSA Other		AFE No:	9770075
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLR		
Drill Group	MDO	Air Temp,Deg F	0	Days Since Last LTA	50.0
				LTA/MMH	
Present Operation	DRILLING	Anlr Vel,FPM DP	195	Number Accidents SLR	0
MD @ End of Period	11977	Anlr Vel,FPM DC	345	Pollution Incidents SLR	0
Footage SLR	180				
Rotating Hours SLR	22.50				
Mud WT,PPG	8.8				
Hole Size,In.	8.500				
Pump Pressure,PSI	1900				
Circ Rate,GPM	376				
Days Since Spud	49.3				
Days Ahead/Behind(-)	-11.0				

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/27/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1245	1245	Akl(PF)		
Flowline Temp.	96		Akl(PM)	1.60	1.50
Depth (MD)	11845	11845	Akl(MF)		
Mud WT	8.8	8.7	Chlorides	247600	247600
FV	39	38	Calcium	22000	21600
PV	6	5	Potassium		
YP	4	5	Other Mud Properties		
10 Sec GEL	3.0	3.0	AWS %	0.00	0.00
10 Min GEL	6.0	6.0	AWM %	0.00	0.72
API WL					
API FC, 32nd					
HTHP WL		15.6			
HTHP FC,32nd		3			
Vol % Water	19.50	19.50			
Vol % Oil	70.00	70.50			
Vol % Solids	10.50	10.00			
Vol % Sand					
MB					

Mud Additives		
ESCAID 110	BBLS	10.00
LUBRA SEAL		44.00
MICA	SX 25	30.00

Inclination Survey			
MD	Angle	Azmith	Dist
11754	6.50		
11476	7.00		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
30885	270	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	749
		Hole	752
		Total	1501

Mud Make-Up SLR		Cum
Oil	10	1095
Water,Bbls		4705
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	19/
Size		8.500
Bit Model		ATJ-44
Serial #		J-13-PN
Bit Nozzle Dia,32nd #1/#2/#3		11/11/12
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		11516
Pulled		
Footage		461
Rotary Hrs		58.00
Rotary RPM		50/ 65
Ave ROP		7.95
WT On Bit		40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control	Hrs Used	
Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	8117.0	5.000	19.500	G-105
2	2892.3	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Disol.
BHA	935.09	27.61
Drill Pipe	11009.3	82

POB		Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT	Mudlogger Report Gas	Units	MD	Chlori
FIN Csg PSI		20.000	100	13.375	649			[redacted]		[redacted]	
Mud Return											
Cmt Return											

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0050 Date: 12/27/91

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	030	DRILLING	
0530	100	SURVEY	
0630	1200	DRILLING	
1830	030	RIG SERV	
1900	1000	DRILLING	45K WOB 65RPM

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 96 BBLS.
TOTAL CUM. LOST 1246 BBLS
P.O. DRILLING. HAVE SEEPAGE AVG. 4 BBLS/HR.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	[illegible]	1.9
LCM, PPB	[illegible]	[illegible]
ES, Volts	468	437

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	MCPEEK	Date:	12/26/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0049
Prosp Number		EUSA Other		AFE No:	9770075
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLR		
Drill Group	MDO	Air Temp,Deg F	3		

Present Operation	DRILLING	Anlr Vel,FPM DP	213
MD @ End of Period	11797	Anlr Vel,FPM DC	377
Footage SLR	183		
Rotating Hours SLR	23.50		
Mud WT,PPG	8.8		
Hole Size,In.	8.500		
Pump Pressure,PSI	2200		
Circ Rate,GPM	410		
Days Since Spud	48.3		
Days Ahead/Behind(-)	-10.0		

Days Since Last LTA 49.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL
*Sampl Source	OUT	IN	Mud PH	
Time	1245	1245	Akl(PF)	
Flowline Temp.	95		Akl(PM)	1.80 / 1.90
Depth (MD)	11675	11675	Akl(MF)	
Mud WT	8.8	8.8	Chlorides	254800 / 254800
FV	38	37	Calcium	22000 / 22000
PV	5	5	Potassium	
YP	5	4	Other Mud Properties	
10 Sec GEL	3.0	3.0	AWS %	0.00 / 0.65
10 Min GEL	5.0	5.0	AWM %	0.00 / 0.61
API WL				
API FC, 32nd				
HTHP WL		14.8		
HTHP FC,32nd		3		
Vol % Water	19.00	19.00		
Vol % Oil	70.50	71.00		
Vol % Solids	10.50	10.00		
Vol % Sand				
MB				

*Mud Additives

ESCAID 110	BBLS	120.00
G. SORB	SX 50	3.00
LIME	DRM.	5.00
LUBRA SEAL		20.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	1	RNDS

Pickup	Slack Off	Units
29482	270	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	150
		Actv Pit	706
		Hole	741
		Total	1597

Mud Make-Up SLR		Cum
Oil	120	1085
Water,Bbls		4705
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	19/	
Size	8.500	
Bit Model	ATJ-44	
Serial #	J-13-PN	
Bit Nozzle Dia,32nd #1/#2/#3		
Bit Grade	11/11/12	
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run	11516	
Pulled		
Footage	281	
Rotary Hrs	35.50	
Rotary RPM	50/ 65	
Ave ROP	7.92	
WT On Bit	40/ 50	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		98
Hrs SLR		
GPM		410

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	8.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	7960.7	5.000	19.500	G-105
2	2860.9	5.000	19.500	E-75

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	10821.6	80

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add	Brand	Amt/	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0049 Date: 12/26/91

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
Obj Reservoir						Total Drill		
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	730	DRILLING	
1230	030	RIG SERV	
1300	1600	DRILLING	40/45K WOB 60 RPM
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS. 94 BBLS.
			TOTAL CUM. LOST 1150 BBLS
			P.O. DRILLING NO PROBLEMS. FT UNION FORM.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	2.3	2.5
LCM, PPB		
ES, Volts	534	531

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

SHRINK WRP EACH 1.00

end of report end of report end of report end of report

API#	43 043 30297 00	EUSA Supv1	BACHMAN
Prosp. Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT		
Drill Group	MDO		

Date:	12/25/91	Weather Desc.	CLDY
Report No:	0048	Air Temp, Deg F	10
AFE No:	9770075		
AFE Amt, K$	[redacted]		
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Present Operation	DRILLING	Anlr Vel, FPM DP	213
MD @ End of Period	11614	Anlr Vel, FPM DC	377
Footage SLR	98		
Rotating Hours SLR	12.00		
Mud WT, PPG	8.8		
Hole Size, In.	8.500		
Pump Pressure, PSI	2250		
Circ Rate, GPM	410		
Days Since Spud	47.3		
Days Ahead/Behind(-)	-10.0		

Days Since Last LTA	48.0		
LTA/MMH			
Number Accidents SLR	0		
Pollution Incidents SLR	0		

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR — Duration 5.0 min — Duration ____ min — Next BOP Test 12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1245	1245	Akl(PF)		
Flowline Temp.			Akl(PM)	1.50	1.55
Depth (MD)	11516	11516	Akl(MF)		
Mud WT	8.8	8.8	Chlorides	247400	247400
FV	40	39	Calcium	22000	22000
PV	6	6	Potassium		
YP	5	5	Other Mud Properties		
10 Sec GEL	3.0	3.0	AWS %	0.00	0.00
10 Min GEL	6.0	5.0	AWM %	0.00	0.70
API WL					
API FC, 32nd					
HTHP WL		10.0			
HTHP FC, 32nd		3			
Vol % Water	20.00	20.00			
Vol % Oil	69.50	69.50			
Vol % Solids	10.50	10.50			
Vol % Sand					
MB					

*Mud Additives

BARITE	SX100	25.00
CALCIUM CL	SX 80	4.00
CS TONE	SX 50	6.00
ESCAID 110	BBLS	20.00

Inclination Survey

MD	Angle	Azmith	Dist
11476	7.00		
11411	7.00		

Torque @	Amount	Units
DRLG	2	RNDS
Pickup	Slack Off	Units
28076	273	K-lbs

Lith	%Vol	Mud Vol @	EOP
[redacted]		Resv Pit	70
		Actv Pit	700
		Hole	731
		Total	1501

Mud Make-Up	SLR	Cum
Oil	20	965
Water, Bbls		4705
Water Permit #	000	

Bit Mfg	HUGHES	REED
Bit No/Rerun	19/	18/
Size	8.500	8.500
Bit Model	ATJ-44	HP53A
Serial #	J-13-PN	TC2226
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/12	11/11/12
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		4
Guage, I/O 32nd		2
Depth Bit Run	11516	11222
Pulled		11516
Footage	98	294
Rotary Hrs	12.00	31.75
Rotary RPM	50/ 65	50/ 65
Ave ROP	8.17	9.26
WT On Bit	40/ 50	40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	98	
Hrs SLR		
GPM	410	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	1.00	325X325
CENTRIFUGE	1.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	7805.0	5.000	19.500	G-105

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	10665.9	79

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water, GPS		
WT, PPG		
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREI UNIT - Continued Page 2
API# 43 043 30297 0 00 Report No: 0048 Date: 12/25/91

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	330	TRIP OUT	FINISH TOH & CHANGE OUT 6PT, SHOCK SUB & IBS
0830	230	TRIP IN	HOLE W/ BIT # 19 TO 11290
1100	600	WASH/REM	11290 TO 11516 15' OF OUT OF GAUGE HOLE
			TIGHT HOLE 11290-11330-11416
			HARD REAMING 11375 TO 11385
1700	1200	DRILLING	-
			SMAC 4
			TOTAL ESCAID MUD LOST LAST 24 HRS. 76 BBLS.
			TOTAL CUM. LOST 1056 BBLS
			P.O. DRILLING NO PROBLEMS

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL	[redacted]	[redacted]
Lime, PPB	[redacted]	270
LCM, PPB		
ES, Volts	505	489

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

G. SORB	SX 50	2.00
LIME	DRM.	10.00
LUBRA SEAL		10.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	BACHMAN
Prosp. Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT		
Drill Group	MDO		

Date:	12/24/91	Weather Desc.	CLDY
Report No:	0047	Air Temp,Deg F	0
AFE No:	9770075	Anlr Vel,FPM DP	208
AFE Amt,K$	[redacted]	Anlr Vel,FPM DC	368
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Days Since Last LTA	47.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP OUT
MD @ end of Period	11516
Footage SLR	193
Rotating Hours SLR	20.50
Mud WT,PPG	8.9
Hole Size,In.	8.500
Pump Pressure,PSI	2250
Circ Rate,GPM	401
Days Since Spud	46.3
Days Ahead/Behind(-)	-9.0

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1245	1245	Akl(PF)		
Flowline Temp.	96		Akl(PM)	1.35	1.40
Depth (MD)	11395	11395	Akl(MF)		
Mud WT	8.8	8.8	Chlorides	240600	240600
FV	39	38	Calcium	20800	21200
PV	5	5	Potassium		
YP	5	5	Other Mud Properties		
10 Sec GEL	3.0	3.0	AWS %	0.00	0.73
10 Min GEL	6.0	5.0	AWM %	0.00	0.71
API WL		[redacted]			
API FC, 32nd		[redacted]			
HTHP WL		12.8			
HTHP FC,32nd		3			
Vol % Water	20.00	20.00			
Vol % Oil	69.50	70.00			
Vol % Solids	10.50	10.00			
Vol % Sand					
MB					

*Mud Additives

BARITE	SX100	15.00
ESCAID 110	BBLS	60.00
G. SORB	SX 50	2.00
LIME	DRM.	7.00

Inclination Survey

MD	Angle	Azmith	Dist
11411	7.00		
11215	8.00		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
27471	270	K-lbs

Lith	Mud Vol@	EOP
[redacted]	Resv Pit	130
	Actv Pit	700
	Hole	724
	Total	1554

Mud Make-Up SLR		Cum
Oil	60	945
Water,Bbls		4705
Water Permit #	000	

Bit Mfg	REED	
Bit No/Rerun	18/	
Size	8.500	
Bit Model	HP53A	
Serial #	TC2226	
Bit Nozzle Dia,32nd #1/#2/#3	11/11/12	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run	11222	
Pulled		
Footage	294	
Rotary Hrs	31.75	
Rotary RPM	50/ 65	
Ave ROP	9.26	
WT On Bit	40/ 50	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	96	
Hrs SLR		
GPM	401	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	14.00	325X325
CENTRIFUGE	14.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2660.3	5.000	19.500	E-75
2	7879.0	5.000	19.500	G-105

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	10539.3	79

Cement Company			
Cementing Obj.			
Slurry			
Class			
Sacks			
Water,GPS			
WT,PPG			
BBLS Slurry			

Add Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE JNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0047 Date: 12/24/91

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1030	DRILLING	
1530	030	RIG SERV	
1600	330	DRILLING	
1930	100	SURVEY	
2030	630	DRILLING	
0300	200	TRIP OUT	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 170BBLS.
TOTAL CUM. LOST 980 BBLS.
P.O. TRIPPING FOR BIT # 18

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1[illegible]	1[illegible]8
LCM, PPB		
ES, Volts	588	584

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

LUBRA SEAL	12.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 0( )0
Prosp Name STEEL CREE
Prosp Number
Well STEEP CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc. CLDY
Air Temp,Deg F 3

Anlr Vel,FPM DP 213
Anlr Vel,FPM DC 377

Date: 12/23/91
Report No: 0046
AFE No: 00026519
AFE Amt,K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 46.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 11323
Footage SLR 118
Rotating Hours SLR 14.25
Mud WT,PPG 8.8
Hole Size,In. 8.500
Pump Pressure,PSI 2300
Circ Rate,GPM 410
Days Since Spud 45.3
Days Ahead/Behind(-) -9.0

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type ESCAID. ESCAID
*Sampl Source PIT OUT
Time 1300 1300
Flowline Temp.
Depth (MD) 11222 11222
Mud WT 8.9
FV 40
PV 6
YP 5
10 Sec GEL 3.0
10 Min GEL 6.0
API WL
API FC, 32nd
HTHP WL 17.6
HTHP FC,32nd 3
Vol % Water 19.50
Vol % Oil 69.50
Vol % Solids 11.00
Vol % Sand
MB

Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM) 1.50
Akl(MF)
Chlorides 233700
Calcium 20000
Potassium

Other Mud Properties
AWS % 0.00 0.00
AWM % 0.00 0.73

*Mud Additives
BARITE SX100 40.00
CS-11 DRM. 2.00
CS-33 DRM. 1.00
ESCAID 110 BBLS 100.00

Inclination Survey
MD Angle Azmith Dist
11215 8.00
11035 9.00

Torque @ Amount Units
DRLG 1 RNDS
Pickup Slack Off Units
27973 270 K-lbs

Lith %Vol
Mud Vol@ EOP
Resv Pit 280
Actv Pit 670
Hole 713
Total 1663

Mud Make-Up SLR Cum
Oil 100 885
Water,Bbls 4705
Water Permit # 000

Bit Mfg REED REED
Bit No/Rerun 18/ 17/
Size 8.500 8.500
Bit Model HP53A HP-61A
Serial # TC2226 TC-2310
Bit Nozzle Dia,32nd
#1/#2/#3 11/11/12 11/11/12
Bit Grade
Teeth, 8ths 7
Bearing, 8ths 5
Guage,I/O 32nd 6
Depth Bit
Run 11222 10654
Pulled 11222
Footage 101 568
Rotary Hrs 11.25 51.50
Rotary RPM 50/ 65 /
Ave ROP 8.98 11.03
WT On Bit 40/ 50 35/ 45

Pump No. 1 2
Stroke 10.0 10.0
Liner 6.5 7.0
SPM 98
Hrs SLR
GPM 410

Solids Control Hrs Used
Equip Type SLR Screen
CENTRIFUGE 5.00 325X325
CENTRIFUGE 5.00 270X270
CENTRIFUGE 230X230
FLOLINE C 270X270
FLOLINE C

BHA
No. Item
1 BIT
1 6PT REAMER
1 SHOCK SUB
1 STAB-INTEG
1 DRILL COLR
1 STAB-INTEG
19 DRILL COLR
1 H-JAR
9 HVY WT DP

Drill Collars
No. OD(In) ID(In) Tool Jnt Size(OD)
1 6.750 2.750
19 6.750 2.750

Drill Pipe
Len,Ft. OD WT Grade
1 2892.3 5.000 19.500 E-75
2 7460.0 5.000 19.500 G-105

Tool Joint Type OD(In)
1 4.5 IN IF 5.000
2 4.5 IN IF 5.000

Drill String Summary — Total Length / Total Displ.
BHA 935.09 27.61
Drill Pipe 10352.3 77

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan
OD(In) MD
20.000 100

Csg Actual ---PPG---
OD(In) MD PIT LOT
13.375 649

Mudlogger Report
Gas Units MD Chlori

Well Name STEEL CREE.. UNIT - Continued - Page 2
API# 43 043 30297 00 00 Report No: 0046 Date: 12/23/91

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP
[redacted]	[redacted]				

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
12/22/91	1300	102.0	76.0	31.0	28.0	133.0	104.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	DRILLING	
0800	430	TRIP OUT	DROP SURVEY -SLUG PIPE- LAY DOWN 25 JTS "G" DP
1230	030	RIG SERV	
1300	400	TRIP IN	HOLE --PICK UP 25 JTS "E" DP ON TOP OF HWDP
1700	045	WASH/REM	75' TO BTM 8 FT HARD REAMILING.
1745	1115	DRILLING	

-
SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 98 BBLS.
TOTAL CUM. LOST 810 BBLS.
P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.

Source	PIT
30 Min GEL	[redacted]
Lime, PPB	[redacted]
LCM, PPB	
ES, Volts	516

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

G. SORB	SX 50	2.00
LIME	DRM.	4.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 0
Prosp Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc. CLDY
Air Temp,Deg F -4

te: 12/22/91
port No: 0045
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 45.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 11205
Footage SLR 225
Rotating Hours SLR 22.75
Mud WT,PPG 8.9
Hole Size,In. 8.500
Pump Pressure,PSI 2300
Circ Rate,GPM 410
Days Since Spud 44.3
Days Ahead/Behind(-) -8.0

Anlr Vel,FPM DP 213
Anlr Vel,FPM DC 377

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

	*Sampl Source OUT	IN
Time	1245	1245
Flowline Temp.	94	
Depth (MD)	11055	11055
Mud WT	8.8	8.7
FV	39	38
PV	5	5
YP	5	5
10 Sec GEL	3.0	3.0
10 Min GEL	6.0	[redacted]
API WL		[redacted]
API FC, 32nd		
HTHP WL		18.4
HTHP FC,32nd		3
Vol % Water	19.50	19.50
Vol % Oil	70.50	71.00
Vol % Solids	10.00	9.50
Vol % Sand		
MB		

Mud Type ESCAID ESCAID.
Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM) 1.50 1.50
Akl(MF)
Chlorides 238400 236100
Calcium [redacted] 20000
Potassium
Other Mud Properties
AWS [redacted] 0.00 0.00
AWM [redacted] 0.00 0.68

*Mud Additives
CS-11 DRM. 1.00
CS-33 DRM. 1.00
ESCAID 110 BBLS 10.00
G. SORB SX 50 1.00

Inclination Survey
MD Angle Azmith Dist
11035 9.00
10821 8.00

Torque @ Amount Units
DRLG 325 AMPS
Pickup Slack Off Units
27270 269 K-lbs

Lith %Vol [redacted]

Mud Vol@ EOP
Resv Pit 255
Actv Pit 698
Hole 702
Total 1655

Mud Make-Up SLR Cum
Oil 10 785
Water,Bbls 4705
Water Permit # 000

Bit Mfg REED
Bit No/Rerun /
Size 17/ 8.500
Bit Model HP-61A
Serial # TC-2310
Bit Nozzle Dia,32nd
#1/#2/#3 11/11/12
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 10654
Pulled
Footage 551
Rotary Hrs 48.50
Rotary RPM /
Ave ROP 11.36
WT On Bit 35/ 45

Pump No. 1 2
Stroke 10.0 10.0
Liner 6.5 7.0
SPM 98
Hrs SLR
GPM 410

Solids Control Hrs Used
Equip Type SLR Screen
CENTRIFUGE 0.00 325X325
CENTRIFUGE 0.00 270X270
CENTRIFUGE 230X230
FLOLINE C 270X270
FLOLINE C

BHA
No. Item
1 BIT
1 6PT REAMER
1 SHOCK SUB
1 STAB-INTEG
1 DRILL COLR
1 STAB-INTEG
19 DRILL COLR
1 H-JAR
9 HVY WT DP

Drill Collars
No. OD(In) ID(In) Tool Jnt Size(OD)
1 6.750 2.750
19 6.750 2.750

Drill Pipe
Len,Ft. OD WT Grade
1 2052.2 5.000 19.500 E-75
2 8178.1 5.000 19.500 G-105

Tool Joint Type OD(In)
1 4.5 IN IF 5.000
2 4.5 IN IF 5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary Total Length Total Displ.
BHA 935.09 27.61
Drill Pipe 10230.3 76

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In) MD
20.000 100

Csg Actual OD(In) MD PPG PIT LOT
13.375 649

Mudlogger Report
Gas Units MD Chlori
[redacted]

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0045 Date: 12/22/91

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	DRILLING	
0800	030	RIG SERV	
0830	315	DRILLING	
1145	045	SURVEY	
1230	1630	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 64 BBLS.
TOTAL CUM. LOST 712 BBLS.
P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.	OUT	IN
Source		
30 Min GEL		
Lime, PPB	1.8	1.9
LCM, PPB	[redacted]	
ES, Volts	548	540

* Drilling Obj - Cont.	
Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.	
LUBRA SEAL	2.00
SHRINK WRP EACH	1.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 0
Prosp. Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drlg Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc. CLR
Air Temp,Deg F -2

Anlr Vel,FPM DP 206
Anlr Vel,FPM DC 366

ate: 12/21/91
eport No: 0044
AFE No: 00026519
AFE Amt,K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 44.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 10980
Footage SLR 285
Rotating Hours SLR 22.75
Mud WT,PPG 8.8
Hole Size,In. 8.500
Pump Pressure,PSI 2300
Circ Rate,GPM 398
Days Since Spud 43.3
Days Ahead/Behind(-) -8.0

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1245	1245
Flowline Temp.	92	
Depth (MD)	10790	10790
Mud WT	8.7	8.7
FV	40	39
PV	6	6
YP	5	4
10 Sec GEL	3.0	3.0
10 Min GEL	6.0	7.0
API WL		
API FC, 32nd		
HTHP WL		13.2
HTHP FC,32nd		3
Vol % Water	21.50	21.50
Vol % Oil	69.00	69.50
Vol % Solids	9.50	9.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.60	1.70
Akl(MF)		
Chlorides	229900	229900
Calcium	20800	20800
Potassium		
Other Mud Properties		
AWS	0.00	0.76
AWM	0.00	0.72

Mud Additives

ESCAID 110	BBLS	20.00
G. SORB	SX 50	2.00
LIME	DRM.	4.00
LUBRA SEAL		10.00

Inclination Survey

MD	Angle	Azmith	Dist
10821	8.00		
10603	6.75		

Torque @	Amount	Units
DRLG	2	RNDS
Pickup	Slack Off	Units
27168	266	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	335
		Actv Pit	690
		Hole	682
		Total	1707

Mud Make-Up	SLR	Cum
Oil	20	775
Water,Bbls		4705
Water Permit #	000	

Bit Mfg REED
Bit No/Rerun / 17/
Size 8.500
Bit Model HP-61A
Serial # TC-2310
Bit Nozzle Dia,32nd
#1/#2/#3 11/11/12
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 10654
Pulled
Footage 326
Rotary Hrs 25.75
Rotary RPM /
Ave ROP 12.66
WT On Bit 35/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		82
Hrs SLR		
GPM		398

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2052.2	5.000	19.500	E-75
2	7962.2	5.000	19.500	G-105

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary

	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	10014.4	74

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan

OD(In)	MD
20.000	100

Csg Actual

OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK JIT - Continued Page 2
API# 43 043 30297 00 0J Report No: 0044 Date: 12/21/91

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	845	DRILLING	
1345	030	RIG SERV	
1415	445	DRILLING	
1900	045	SURVEY	
1945	915	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 78 BBLS.
TOTAL CUM. LOST 648 BBLS.
P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	[illegible]	[illegible]
LCM, PPB		
ES, Volts	478	471

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	BACHMAN	Date:	12/20/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0043
Prosp Number		EUSA Other		AFE No:	00026519
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLDY		
Drill Group	MDO	Air Temp,Deg F	0	Days Since Last LTA	43.0
				LTA/MMH	
Present Operation	DRILLING	Anlr Vel,FPM DP	206	Number Accidents SLR	0
MD @ End of Period	10695	Anlr Vel,FPM DC	366	Pollution Incidents SLR	0
Footage SLR	129				
Rotating Hours SLR	12.25				
Mud WT,PPG	8.8				
Hole Size,In.	8.500				
Pump Pressure,PSI	2250				
Circ Rate,GPM	398				
Days Since Spud	42.3				
Days Ahead/Behind(-)	-8.5				

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test 12/27/91
	Duration min	

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1245	1245	Akl(PF)		
Flowline Temp.	98		Akl(PM)	1.50	1.50
Depth (MD)	9640	9640	Akl(MF)		
Mud WT	8.8	8.8	Chlorides	212800	212800
FV	40	39	Calcium	19600	20000
PV	7	6	Potassium		
YP	5	5	Other Mud Properties		
10 Sec GEL	3.0	3.0	AWS %	0.00	0.00
10 Min GEL	6.0	6.0	AWM %	0.00	0.75
API WL					
API FC, 32nd					
HTHP WL		10.8			
HTHP FC,32nd		2			
Vol % Water	22.00	22.00	*Mud Additives		
Vol % Oil	68.50	69.00	CALCIUM CL SX 80	51.00	
Vol % Solids	9.50	9.00	CS TONE SX 50	6.00	
Vol % Sand			CS-11 DRM.	2.00	
MB			CS-33 DRM.	2.00	

Inclination Survey			
MD	Angle	Azmith	Dist
10603	6.75		
10386	5.50		

Torque @	Amount	Units
DRLG	2	RNDS
Pickup	Slack Off	Units
27565	250	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	395
		Actv Pit	694
		Hole	676
		Total	1765

Mud Make-Up SLR		Cum
Oil	190	755
Water,Bbls		4705
Water Permit #	000	

Bit Mfg	REED	HUGHES
Bit No/Rerun	17/	16/
Size	8.500	8.500
Bit Model	HP-61A	ATJ-44
Serial #	TC-2310	E-52PR
Bit Nozzle Dia,32nd #1/#2/#3	11/11/12	12/12/10
Bit Grade		
Teeth, 8ths		4
Bearing, 8ths		4
Guage,I/O 32nd		2
Depth Bit Run	10654	10197
Pulled		10654
Footage	41	457
Rotary Hrs	3.00	41.50
Rotary RPM	/	60/ 65
Ave ROP	13.67	11.01
WT On Bit	35/ 45	40/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		82
Hrs SLR		
GPM		398

Solids Control	Hrs Used	
Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	8.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	2082.4	5.000	19.500	E-75
2	7649.2	5.000	19.500	G-105

Tool Joint Type		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	935.09	27.61
Drill Pipe	9731.6	72

POB								
FIN Csg PSI		Csg Plan		Csg Actual		---PPG---		Mudlogger Report
Mud Return		OD(In)	MD	OD(In)	MD	PIT	LOT	Gas Units MD Chlori
Cmt Return		20.000	100	13.375	649			[redacted]

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0043 Date: 12/20/91

Pump Rate		13.375	600	9.625	9275			[redacted]			
Recip. Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
12/19/91	2100	84.0	72.0	38.0	28.0	122.0	100.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	830	DRILLING	
1330	030	RIG SERV	
1400	045	SURVEY	
1445	045	DRILLING	
1530	030	WORK PIP	ON TIGHT HOLE W/ EXCESSIVE TORQUE 100K OVER TO PULL LOOSE
1600	400	TRIP OUT	MIX & PUMP SLUG & TRIP OUT
2000	100	CHNG BHA	CHANGE OUT 6 PT BTM HOLE REAMER
2100	100	TRIP IN	
2200	100	SLIP/CUT	DRLG LINE
2300	230	TRIP IN	
0130	030	WASH/REM	10593-10654 (61') NO FILL- NO TORQUE
0200	300	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 85 BBLS.
TOTAL CUM. LOST 570 BBLS.
P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.9	1.9
LCM, PPB		
ES, Volts	432	443

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

ESCAID 110	BBLS	190.00
G. SORB	SX 50	2.00
LIME	DRM.	4.00
SHRINK WRP	EACH	2.00

-----end of report-----end of report-----end of report-----end of report-----

API#. 43 043 30297 0 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drlg Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Date: 12/19/91
Report No: 0042
AFE No: 00026519
AFE Amt,K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. SNOW
Air Temp,Deg F 20

Days Since Last LTA 42.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 10566
Footage SLR 254
Rotating Hours SLR 22.75
Mud WT,PPG 8.9
Hole Size,In. 8.500
Pump Pressure,PSI 2100
Circ Rate,GPM 401
Days Since Spud 41.3
Days Ahead/Behind(-) -8.0

Anlr Vel,FPM DP 208
Anlr Vel,FPM DC 368

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1230	1230
Flowline Temp.	96	
Depth (MD)	10400	10400
Mud WT	8.9	8.8
FV	42	40
PV	8	7
YP	4	4
10 Sec GEL	3.0	2.0
10 Min GEL	6.0	5.0
API WL		
API FC, 32nd		
HTHP WL		16.4
HTHP FC,32nd		3
Vol % Water	22.00	22.00
Vol % Oil	67.50	68.00
Vol % Solids	10.50	10.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.80	1.70
Akl(MF)		
Chlorides	185500	185500
Calcium	16800	16800
Potassium		
Other Mud Properties		
AWS	0.00	0.79
AWM	0.00	0.76

*Mud Additives

CALCIUM CL	SX 80	13.00
CS TONE	SX 50	4.00
CS-11	DRM.	2.00
CS-33	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist
10386	5.50		
10177	4.50		

Torque @	Amount	Units
DRLG	400	AMPS
Pickup	Slack Off	Units
27560	245	K-lbs

Lith	%Vol
[redacted]	

Mud Vol@	EOP
Resv Pit	110
Actv Pit	685
Hole	660
Total	1455

Mud Make-Up	SLR	Cum
Oil	70	565
Water,Bbls		4705
Water Permit #	000	

Bit Mfg HUGHES
Bit No/Rerun 16/
Size 8.500
Bit Model ATJ-44
Serial # E-52PR
Bit Nozzle Dia,32nd
#1/#2/#3
Bit Grade 12/12/10
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 10197
Pulled
Footage 369
Rotary Hrs 32.25
Rotary RPM 60/ 65
Ave ROP 11.44
WT On Bit 40/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	96	
Hrs SLR		
GPM	401	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	4.00	325X325
CENTRIFUGE	4.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	7577.2	5.000	19.500	G-105

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	936.09	27.65
Drill Pipe	9598.5	71

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]	[redacted]		

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0042 Date: 12/19/91

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	730	DRILLING	
1230	030	RIG SERV	
1300	245	DRILLING	
1545	045	SURVEY	
1630	1230	DRILLING	

SMAC 4
TOTAL ESCAID MUD LOST LAST 24 HRS. 52 BBLS.
TOTAL CUM. LOST 485 BBLS.
P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL	[illegible]	[illegible]
Lime, PPB	[illegible]	1.7
LCM, PPB		
ES, Volts	429	417

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-HTS	SX100	4.00
ESCAID 110 BBLS		70.00
G. SORB	SX 50	2.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 0
Prosp Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2 BACHMAN
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

te: 12/18/91
port No: 0041
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLR
Air Temp,Deg F 6

Days Since East LTA 41.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 10312
Footage SLR 143
Rotating Hours SLR 13.00
Mud WT,PPG 8.9
Hole Size,In. 8.500
Pump Pressure,PSI 2100
Circ Rate,GPM 401
Days Since Spud 40.3
Days Ahead/Behind(-) -8.0

Anlr Vel,FPM DP 208
Anlr Vel,FPM DC 368

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID.	ESCAID
*Sampl Source	PIT	OUT
Time	1330	1330
Flowline Temp.		
Depth (MD)	10197	10197
Mud WT	8.9	
FV	41	
PV	7	
YP	5	
10 Sec GEL	4.0	
10 Min GEL	8.0	
API WL		
API FC, 32nd		
HTHP WL	18.4	
HTHP FC,32nd	3	
Vol % Water	24.50	
Vol % Oil	65.50	
Vol % Solids	10.00	
Vol % Sand		
MB		

Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM) 2.10
Akl(MF)
Chlorides 187000
Calcium 19200
Potassium
Other Mud Properties
AWS % 0.00 0.00
AWM % 0.00 0.00

*Mud Additives
BARITE SX100 20.00
CALCIUM CL SX 80 17.00
CAUSTIC SX 50 1.00
CS-HTS SX100 10.00

Inclination Survey

MD	Angle	Azmith	Dist
10177	4.50		
9735	1.00		

Torque @ DRIG — Amount 1 — Units RNDS
Pickup 27055 — Slack Off 145 — Units K-lbs

Lith %Vol [redacted]

Mud Vol@	EOP
Resv Pit	110
Actv Pit	675
Hole	648
Total	1433

Mud Make-Up SLR — Cum
Oil 495
Water,Bbls 4705
Water Permit # 000

Bit Mfg	HUGHES	HUGHES
Bit No/Rerun	16/	15/
Size	8.500	8.500
Bit Model	ATJ-44	ATJ 33
Serial #	E-52PR	X19HP
Bit Nozzle Dia,32nd #1/#2/#3	12/12/10	13/13/12
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		6
Guage,I/O 32nd		4
Depth Bit Run	10197	9735
Pulled		10197
Footage	115	462
Rotary Hrs	9.50	37.00
Rotary RPM	60/ 65	55/ 65
Ave ROP	12.11	12.49
WT On Bit	40/ 45	40/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	96	
Hrs SLR		
GPM	401	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	7327.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add Brand	Amt	Units	Amt	Units

DEC 1 6

Drill String Summary

	Total Length	Total Displ.
BHA	936.09	27.65
Drill Pipe	9348.5	69

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0041 Date: 12/18/91

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill		
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan 10	Intan 10	

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
12/18/91	0830	98.0	69.0	35.0	28.0	133.0	97.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	330	DRILLING	
0830	600	TRIP OUT	PUMP PILL , DROP SURVEY. LAYED DOWN IBS OFF TOP OF 6 PT. REAMER.
1430	030	RIG SERV	
1500	400	TRIP IN	
1900	030	REAMING	F/10122 TO 10197
1930	930	DRILLING	60 RPM 45K WOB
			SMAC 6
			TOTAL ESCAID MUD LOST LAST 24 HRS. -25 BBLS.
			TOTAL CUM. LOST 433 BBLS.
			P.O. DRLG. [redacted] FORM.

* Mud Properties - Cont.		* Drilling Obj - Cont.	
Source	PIT	Obj Reservoir	Top MD
30 Min GEL		[redacted]	[redacted]
Lime, PPB	2.7		
LCM, PPB			
ES, Volts	392		

* Mud Additives - Cont.		
G. SORB	SX 50	4.00
LIME	DRM.	6.00
SHRINK WRP	EACH	2.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2 BACHMAN
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc. CLR
Air Temp, Deg F 3

Date: 12/17/91
Report No: 0040
AFE No: 00026519
AFE Amt, K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 40.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 10169
Footage SLR 287
Rotating Hours SLR 23.50
Mud WT, PPG 8.8
Hole Size, In. 8.500
Pump Pressure, PSI 2350
Circ Rate, GPM 334
Days Since Spud 39.3
Days Ahead/Behind(-) -7.0

Anlr Vel, FPM DP 173
Anlr Vel, FPM DC 307

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/15/91
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1300	1300
Flowline Temp.	90	
Depth (MD)	9970	9970
Mud WT	8.7	8.7
FV	39	39
PV	7	7
YP	5	5
10 Sec GEL	3.0	3.0
10 Min GEL	6.0	6.0
API WL		
API FC, 32nd		
HTHP WL		18.8
HTHP FC, 32nd		3
Vol % Water	24.50	24.50
Vol % Oil	66.50	66.50
Vol % Solids	9.00	9.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.40	1.50
Akl(MF)		
Chlorides	178400	178400
Calcium	17600	18000
Potassium		
Other Mud Properties		
AWS	0.83	
AWM	0.80	

*Mud Additives

CS-11	DRM.	1.00
CS-33	DRM.	1.00
CS-HTS	SX100	10.00
ESCAID 110	BBLS	9.00

Inclination Survey

MD	Angle	Azmith	Dist
9735	1.00		

Torque @ DRIG — Amount 2 — Units RNDS
Pickup 27555 — Slack Off 245 — Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	160
		Actv Pit	660
		Hole	633
		Total	1453

Mud Make-Up	SLR	Cum
Oil	9	495
Water, Bbls		4705
Water Permit #	000	

Bit Mfg HUGHES
Bit No/Rerun 15/
Size 8.500
Bit Model ATJ 33
Serial # X19HP
Bit Nozzle Dia, 32nd
#1/#2/#3 13/13/12
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run 9735
Pulled
Footage 434
Rotary Hrs 33.50
Rotary RPM 55/ 65
Ave ROP 12.96
WT On Bit 40/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	80	
Hrs SLR		
GPM	334	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	STAB-INTEG
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	7185.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary	Total Length	Total Displ.
BHA	940.96	27.85
Drill Pipe	9206.5	68

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report
Gas [redacted] Units [redacted] MD [redacted] Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0040 Date: 12/17/91

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	800	DRILLING	
1300	030	RIG SERV	
1330	1530	DRILLING	FT. UNION FORMATION. 60 RPM 45K WOB
			SMAC 6
			TOTAL ESCAID MUD LOST LAST 24 HRS. 39 BBLS.
			TOTAL CUM. LOST 382 BBLS.
			P.O. DRLG. HAVE HIGH TORQUE WHEN DRILL INTO
			DRILLING BREAKS.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.8	1.9
LCM, PPB	[redacted]	[redacted]
ES, Volts	[redacted]	[redacted]

* Mud Additives - Cont.

G. SORB	SX 50	10.00
LIME	DRM.	15.00
SHRINK WRP	EACH	1.00

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 0(0	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREE	EUSA Supv2	BACHMAN
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	
Drill Group	MDO	Air Temp, Deg F	

ate:	12/16/91
eport No:	0039
AFE No:	00026519
AFE Amt, K$	
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	39.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	9882
Footage SLR	164
Rotating Hours SLR	12.00
Mud WT, PPG	8.7
Hole Size, In.	8.500
Pump Pressure, PSI	1600
Circ Rate, GPM	397
Days Since Spud	38.3
Days Ahead/Behind(-)	-7.0

Anlr Vel, FPM DP	206
Anlr Vel, FPM DC	365

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID.	ESCAID
*Sampl Source	PIT	OUT
Time	1300	1300
Flowline Temp.		
Depth (MD)	9735	9735
Mud WT	8.5	
FV	37	
PV	5	
YP	5	
10 Sec GEL	3.0	
10 Min GEL	6.0	
API WL		
API FC, 32nd		
HTHP WL	18.0	
HTHP FC, 32nd	3	
Vol % Water	24.00	
Vol % Oil	68.50	
Vol % Solids	7.50	
Vol % Sand		
MB		

Mud Co.	GLOBAL
Mud PH	
Akl(PF)	
Akl(PM)	1.10
Akl(MF)	
Chlorides	170400
Calcium	16800
Potassium	

Other Mud Properties

*Mud Additives

BARITE	SX100	30.00
CALCIUM CL	SX 80	12.00
CEDAR FIBR	SX 30	5.00
CS TONE	SX 50	4.00

Inclination Survey

MD	Angle	Azmith	Dist
9735	1.00		
9251	1.50		

Torque @	Amount	Units
DRLG	0	RNDS

Pickup	Slack Off	Units
26050	245	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]	[redacted]	Resv Pit	320
		Actv Pit	542
		Hole	618
		Total	1480

Mud Make-Up SLR		Cum
Oil	90	486
Water, Bbls		4705
Water Permit #	000	

Bit Mfg	HUGHES	REED
Bit No/Rerun	15/	14/
Size	8.500	8.500
Bit Model	ATJ 33	HP53A
Serial #	X19HP	TC2227
Bit Nozzle Dia, 32nd #1/#2/#3	13/13/12	13/13/13
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		4
Guage, I/O 32nd		2
Depth Bit Run	9735	9280
Pulled		9735
Footage	147	455
Rotary Hrs	10.00	35.75
Rotary RPM	55/ 65	50/ 55
Ave ROP	14.70	12.73
WT On Bit	40/ 45	45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	95	
Hrs SLR		
GPM	397	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	15.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	STAB-INTEG
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
19	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
19	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	6903.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	940.96	27.85
Drill Pipe	8924.5	66

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0039 Date: 12/16/91

Pump Rate		13.375	600				[redacted]
Recip Pipe		9.625	9200				
Anulus PSI		5.500	16500				

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP
[redacted]	[redacted]				

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	DRILLING	ENCOUNTERING HIGH TORQUE.
0700	300	TRIP OUT	FOR BIT
1000	300	BHA INSP	INSPECT DC'S 2 CRACKED BOXES 1 CRACKED PIN
1300	400	TRIP IN	P.U. 2 DC'S & TIH TO 9717'
1700	200	REAMING	F/ 9717' TO 9735' 18'
1900	1000	DRILLING	
			SMAC 6
			P.O. DRLG.

* Mud Properties - Cont.

Source	PIT
30 Min GEL	
Lime, PPB	1.4
LCM, PPB	
ES, Volts	[illegible]

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-11	DRM.	1.00
CS-33	DRM.	1.00
G. SORB	SX 50	5.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	MCPEEK	Date:	12/15/91
Prosp Name	STEEL CREEK	EUSA Supv2	BACHMAN	Report No:	0038
Prosp Number		EUSA Other		AFE No:	00026519
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.			
Drill Group	MDO	Air Temp,Deg F			

Days Since Last LTA	38.0	Present Operation	DRILLING
LTA/MMH		MD @ End of Period	9718
Number Accidents SLR	0	Footage SLR	318
Pollution Incidents SLR	0	Rotating Hours SLR	23.75
		Mud WT,PPG	8.7
		Hole Size,In.	8.500
		Pump Pressure,PSI	1725
		Circ Rate,GPM	412
		Days Since Spud	37.3
		Days Ahead/Behind(-)	-6.5

Anlr Vel,FPM DP	214		
Anlr Vel,FPM DC	378		

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/15/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1230	1230	Akl(PF)		
Flowline Temp.	86		Akl(PM)	1.30	1.20
Depth (MD)	9525	9525	Akl(MF)		
Mud WT	8.4	8.3	Chlorides	187800	187800
FV	36	36	Calcium	16400	16400
PV	5	5	Potassium		
YP	5	5	Other Mud Properties		
10 Sec GEL	3.0	3.0			
10 Min GEL	6.0	6.0			
API WL					
API FC, 32nd					
HTHP WL		18.4			
HTHP FC,32nd		3			
Vol % Water	21.00	21.00			
Vol % Oil	71.00	71.50			
Vol % Solids	8.00	7.50			
Vol % Sand					
MB					

*Mud Additives		
CALCIUM CL	SX 80	70.00
CS TONE	SX 50	4.00
CS-11	DRM.	1.00
CS-33	DRM.	1.00

Inclination Survey			
MD	Angle	Azmith	Dist
9251	1.50		

Torque @	Amount	Units
DRLG	0	RNDS
Pickup	Slack Off	Units
26053	245	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	465
		Hole	595
		Total	1060

Mud Make-Up	SLR	Cum
Oil	106	396
Water,Bbls		4705
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	14/
Size		8.500
Bit Model		HP53A
Serial #		TC2227
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		9280
Pulled		
Footage		438
Rotary Hrs		33.75
Rotary RPM		50/ 55
Ave ROP		12.98
WT On Bit		45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		85
Hrs SLR		
GPM		412

Solids Control Equip Type	Hrs Used SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA No.	Item
1	BIT
1	6PT REAMER
1	STAB-INTEG
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	6689.8	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	968.01	28.85
Drill Pipe	8711.1	65

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0038 Date: 12/15/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1100	DRILLING	
1600	015	RIG SERV	
1615	1245	DRILLING	

SMAC 6
P.O. DRLG. FORMATION VERY FRACTURED. LOOSE SANDY CUTTINGS
[redacted]

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.7	1.5
LCM, PPB		
ES, Volts	[redacted]	399

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

ESCAID 110	BBLS	106.00
G. SORB	SX 50	5.00
LIME	DRM.	13.00
MICA	SX 25	2.00
SHRINK WRP	EACH	2.00

-----end of report-----end of report-----end of report-----end of report-----

Joe Glass

API#	43 043 30297 00 0	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	CLDY
Drill Group.	MDO	Air Temp, Deg F	16

Date:	12/14/91
Report No:	0037
AFE No:	00026519
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Present Operation	DRILLING
MD @ End of Period	9400
Footage SLR	120
Rotating Hours SLR	10.00
Mud WT, PPG	8.7
Hole Size, In.	8.500
Pump Pressure, PSI	1825
Circ Rate, GPM	439
Days Since Spud	36.3
Days Ahead/Behind(-)	-7.0

Anlr Vel, FPM DP	228
Anlr Vel, FPM DC	403

Days Since Last LTA	37.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	12/11/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1400	1400	Akl(PF)		
Flowline Temp.			Akl(PM)	1.30	1.10
Depth (MD)	9280	9280	Akl(MF)		
Mud WT	8.9	8.8	Chlorides	213000	213700
FV	36	37	Calcium	17200	16800
PV	6	5	Potassium		
YP	4	4	Other Mud Properties		
10 Sec GEL	3.0	3.0			
10 Min GEL	6.0	6.0			
API WL					
API FC, 32nd					
HTHP WL					
HTHP FC, 32nd					
Vol % Water	18.50	19.00			
Vol % Oil	72.00	72.00			
Vol % Solids	9.50	9.00			
Vol % Sand					
MB					

*Mud Additives

BENTONITE	SX100	6.00
CALCIUM CL	SX 80	4.00
CEDAR FIBR	SX 30	14.00
CS TONE	SX 50	4.00

Inclination Survey

MD	Angle	Azmith	Dist
9251	1.50		

Torque @	Amount	Units
DRLG	0	RNDS
Pickup	Slack Off	Units
25048	245	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	425
		Hole	580
		Total	1005

Mud Make-Up SLR		Cum
Oil		290
Water, Bbls		4705
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	14/
Size		8.500
Bit Model		HP58A
Serial #		TC2227
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		9280
Pulled		
Footage		120
Rotary Hrs		10.00
Rotary RPM		50/ 55
Ave ROP		12.00
WT On Bit		45/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM	105	
Hrs SLR		
GPM	439	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	6.00	325X325
CENTRIFUGE	6.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	6PT REAMER
1	STAB-INTEG
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
9	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	6371.8	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	968.01	28.85
Drill Pipe	8393.1	62

Cement Company					
Cementing Obj.					
Slurry					
Class					
Sacks					
Water, GPS					
WT, PPG					
BBLS Slurry					
Add Brand	Amt	Units	Amt	Units	

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PIT	LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0037 Date: 12/14/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan 10	Intan 10	

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	430	TRIP IN	P.U. PACKED BHA & TIH TO 9184' TOC
0930	400	CIRCULAT	CONDITION OIL MUD. WAITING ON MORE OIL MUD TO ARRIVE ON LOCATION.
1330	145	DRL CMT	DRLG. PLUG & HARD CMT. F/ 9184' TO 9230'
1515	215	WO SERV	DOWELL. ICE ON HIGHWAYS.
1730	100	TESTING	9 5/8" CSG. PUMPED 9 BBLS. 8.9 PPG MUD @ 1/4 BPM TO 2700 PSI. HELD 30 MINS. BLED OFF TO 2665 PSI. BLED OFF PRESSURE, REC. 9BBLS. BACK TO TRUCK.
1830	200	DRILLING	CMT. TO 9280' & DRLG. 10' FORM. TO 9290'
2030	030	PIT/LOT	RUN PIT W/ DOWELL @ 9290' W/ 8.9 PPG MUD.PUMPED @ RATE 1/4 BPM. 1/4 BBL. 0 PSI--1/2 BBL. 0 PSI 3/4 BBL. 0 PSI---1 BBL. 0 PSI---1 1/4 BBL. 0 PSI 1 1/2 BBL. 30 PSI---1 3/4 BBL.90 PSI---2 BBL. 150 PSI---2 1/4 BBL 190PSI---2 1/2 BBL 270 PSI 2 3/4 BBL 370 PSI----3 BBL 420 PSI---3 1/4 450 PSI---3 1/2 BBL 560 PSI---3 3/4 BBL 620 PSI 4 BBL 720 PSI---4 1/4 BBL 780 PSI---4 1/2 BBL 850 PSI---4 3/4 BBL 880 PSI---5 BBL 1000 PSI. PUMPED 5 BBLS. EMW = 11.0PPG. BLED BACK 5 BBLS.
2100	800	DRILLING	- SMAC 6 P.O. DRLG.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.7	1.4
LCM, PPB		
ES, Volts	413	421

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
[redacted]	[redacted]	[redacted]

* Mud Additives - Cont.

CS-11	DRM.	1.00
CS-33	DRM.	1.00
ESCAID 110	BBLS	90.00
LIME	DRM.	6.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 ?
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc. SNOW
Air Temp, Deg F 12

Anlr Vel, FPM DP 0
Anlr Vel, FPM DC 0

Date: 12/13/91
Report No: 0036
AFE No: 00026519
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 36.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation MIXING
MD @ End of Period 9280
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT, PPG 8.4
Hole Size, In. 12.250
Pump Pressure, PSI
Circ Rate, GPM 0
Days Since Spud 35.3
Days Ahead/Behind(-) -6.5

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 12/13/91 250/ 3000
Last BOP Drill 12/11/91
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	PIT	PIT
Time	2000	1430
Flowline Temp.		
Depth (MD)	9280	9280
Mud WT	8.4	9.6
FV	34	44
PV	4	10
YP	2	5
10 Sec GEL	2.0	4.0
10 Min GEL	4.0	8.0
API WL		
API FC, 32nd		
HTHP WL		
HTHP FC, 32nd		
Vol % Water	16.00	23.50
Vol % Oil	75.50	64.00
Vol % Solids	8.50	12.50
Vol % Sand		
MB		

Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM) 0.70
Akl(MF)
Chlorides 238400
Calcium 16000
Potassium
Other Mud Properties

*Mud Additives

SHRINK WRP	EACH	2.00
LIME	DRM.	6.00
ESCAID 110	BBLS	290.00
CS-33	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist
9251	1.50		

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	360
		Actv Pit	
		Hole	680
		Total	1040

Mud Make-Up	SLR	Cum
Oil	290	290
Water, Bbls		4705
Water Permit #	000	

Bit Mfg
Bit No/Rerun / /
Size
Bit Model
Serial #
Bit Nozzle Dia, 32nd #1/#2/#3
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run
Pulled
Footage
Rotary Hrs
Rotary RPM
Ave ROP
WT On Bit

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		
Hrs SLR		
GPM		

Solids Control Equip Type	Hrs Used SLR	Screen
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA No.	Item

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)

Drill Pipe Len, Ft.	OD	WT	Grade

Tool Joint Type	OD(In)

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA		
Drill Pipe		

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREL UNIT - Continued - Page 2
API# 43 043 30297 00 00 Report No: 0036 Date: 12/13/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	430	BOP T/DR	FINISH TESTING BOP'S
0930	1530	CL MUD T	FOR OIL MUD
0100	400	MIXING	TRANSFER ESCIAD OIL MUD TO PITS & MIXING SAME
			-
			SMAC 6
			P.O. PICKING UP PACKED BHA & TIH

* Mud Properties - Cont.

Source	PIT	PIT
30 Min GEL		
Lime, PPB	0.9	
LCM, PPB		
ES, Volts	392	187

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-II	DRM.	1.00
CS TONE	SX 50	4.00
CALCIUM CL	SX 80	4.00

-----end of report-----end of report-----end of report-----end of report-----

JCC

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Date:
Report No: 12/12/91
AFE No: 0035
AFE Amt,K$ 00026519
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 35.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation NIPL UP
MD @ End of Period 9280
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT,PPG 9.2
Hole Size,In. 12.250
Pump Pressure,PSI
Circ Rate,GPM 0
Days Since Spud 34.3
Days Ahead/Behind(-) -6.5

Anlr Vel,FPM DP 0
Anlr Vel,FPM DC 0

Well Control and Safety Drill
Last BOP Test 11/26/91 Low / High,PSI 250/ 2100
Last BOP Drill 12/11/91
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	L. DISP.	L. DISP.
Sampl Source	PIT	OUT
Time	1200	1200
Flowline Temp.		
Depth (MD)	9280	9280
Mud WT	9.2	
FV	37	
PV	7	
YP	7	
10 Sec GEL	5.0	
10 Min GEL	32.0	
API WL	13.4	
API FC, 32nd	3	
HTHP WL		
HTHP FC,32nd		
Vol % Water	93.50	
Vol % Oil	0.00	
Vol % Solids	6.50	
Vol % Sand	0.20	
MB	15.0	

Mud Co. GLOBAL
Mud PH 8.8
Akl(PF) 0.10
Akl(PM) 1.00
Akl(MF) 0.60
Chlorides 350
Calcium 80
Potassium
Other Mud Properties

Mud Additives
CEDAR FIBR SX 30 1.00

Inclination Survey

MD	Angle	Azmith	Dist
9251	1.50		

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	1300
		Hole	0
		Total	1300

Mud Make-Up SLR Cum
Oil
Water,Bbls 4705
Water Permit # 000

Bit Mfg
Bit No/Rerun / /
Size
Bit Model
Serial #
Bit Nozzle Dia,32nd
#1/#2/#3
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run
Pulled
Footage
Rotary Hrs
Rotary RPM
Ave ROP
WT On Bit

DEC 1 2

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		
Hrs SLR		
GPM		

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)

Drill Pipe

Len,Ft.	OD	WT	Grade

Tool Joint Type OD(In)

Drill String Summary Total Length Total Displ.
BHA
Drill Pipe

Cement Company DOWELL
Cementing Obj. CASING

Slurry	LEAD	TAIL
Class	HLC	CLAS G
Sacks	1108	660
Water,GPS		
WT,PPG	13.1	15.8
BBLS Slurry	320	135

*Add Brand	Amt	Units	Amt	Units
BENTONITE	6	VOL%		
D 800	.25	VOL%	.25	VOL%
TIC I D65	.20	VOL%		

POB 1015
FIN Csg PSI 1800
Mud Return FULL
Cmt Return 0

Csg Plan

OD(In)	MD
20.000	100

Csg Actual ---PPG---

OD(In)	MD	PIT	LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0035 Date: 12/12/91

Pump Rate	6.00	13.375	600
Recip Pipe	0	9.625	9200
Anulus PSI	0	5.500	16500

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	100	CIRCULAT	CSG.
0600	415	CEMENTNG	R.U. DOWELL & CMT. CSG. & DISPLACE W/ 9.2 PPG ESCIAD MUD. BUMPED PLUG.
1015	1230	NIPL DWN	BOP'S, SET SLIPS W/ 370K WT., CUT OFF CSG. INSTALL "B" SECTION. TEST TO 3000 PSI. O.K. N. U. BOP'S
2245	345	LOGGING	RAN TEMPATURE SURVEY F/ SURFACE TO T.D. 9150' W.L. MEAS TOP OF CMT. @ 5900'
0230	230	NIPL UP	FINISH N.U. & TESTING BOP'S & CHOKE MANIFOLD & OTHER RELATED EQUIPMENT. - SMAC 6 P.O. TESTING BOP'S & CLEANING PITS

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

* Cement Top Depth 6000
DV Tool Depth
Top FC Depth 9189
Bumped Plug (Y/N) Y
Pressure Over 600
BP Valves Held (Y/N) Y

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drlg Group	MDO

EUSA Supv1	MC LAIN
EUSA Supv2	
EUSA Other	
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	10:15

Date:	12/11/91
Report No:	0034
AFE No:	00026519
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	
Air Temp, Deg F	
Anlr Vel, FPM DP	100
Anlr Vel, FPM DC	170

Days Since Last LTA	34.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	CIRCULAT
MD @ End of Period	9280
Footage SLR	0
Rotating Hours SLR	0.0
Mud WT, PPG	9.2
Hole Size, In.	12.250
Pump Pressure, PSI	2300
Circ Rate, GPM	509
Days Since Spud	33.3
Days Ahead/Behind(-)	-6.5

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	12/11/91	
Last BOP Oper		
Last Anular Test		

Duration _____ min Next BOP Test
Duration _____ min 12/10/91

Mud Type	L. DISP.	L. DISP.
Sampl Source	OUT	IN
Time	1100	1100
Flowline Temp.	96	
Depth (MD)	9280	9280
Mud WT	9.2	9.2
FV	42	38
PV	7	7
YP	9	7
10 Sec GEL	6.0	5.0
10 Min GEL	36.0	31.0
API WL	12.8	13.2
API FC, 32nd	3	3
HTHP WL		
HTHP FC, 32nd		
Vol % Water	93.00	93.50
Vol % Oil	0.00	0.00
Vol % Solids	7.00	6.50
Vol % Sand	0.50	0.10
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.7	8.8
Akl(PF)	0.10	0.15
Akl(PM)	1.00	1.00
Akl(MF)	0.55	0.60
Chlorides	350	350
Calcium	80	80
Potassium		

Other Mud Properties

Mud Additives

BARITE	SX100	30.00

Inclination Survey

MD	Angle	Azmith	Dist
9251	1.50		

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol @	EQP
		Resv Pit	
		Actv Pit	675
		Hole	1290
		Total	1965

Mud Make-Up SLR		Cum
Oil		
Water, Bbls		4705
Water Permit #	000	

Bit Mfg	REED
Bit No/Rerun	13/ 12
Size	12.250
Bit Model	HP53A
Serial #	T14636
Bit Nozzle Dia, 32nd #1/#2/#3	18/18/18
Bit Grade	
Teeth, 8ths	3
Bearing, 8ths	4
Guage, I/O 32nd	I
Depth Bit Run	9280
Pulled	9280
Footage	0
Rotary Hrs	
Rotary RPM	/
Ave ROP	
WT On Bit	/

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	6370.7	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	8392.0	62

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water, GPS		
WT, PPG		
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0034 Date: 12/11/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	100	TRIP IN	WITH BHA.
0600	100	SLIP/CUT	
0700	230	TRIP IN	FINISH TIH.
0930	030	REAMING	65' TO BTM NO FILL.
1000	130	CIRCULAT	FOR CSGN.
1130	300	TRIP OUT	
1430	100	LDDC	8" ,9" DCS , SHOCK SUB AND BIT.
1530	1100	RUN CSNG	RU CSGN TOOLS AND RUN 9 5/8 CSGN RD CASING TOOLS.
0230	230	CIRCULAT	
			SMAC 6

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 0[illegible] 00
Prosp Name STEEL CREE[illegible]
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 MC LAIN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Weather Desc.
Air Temp, Deg F

Date: 12/10/91
Report No: 0033
AFE No: 00026519
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 33.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation TRIP IN
MD @ End of Period 9280
Footage SLR 31
Rotating Hours SLR 5.50
Mud WT, PPG 9.2
Hole Size, In. 12.250
Pump Pressure, PSI 2300
Circ Rate, GPM 509
Days Since Spud 32.3
Days Ahead/Behind(-) -6.5

Anlr Vel, FPM DP 100
Anlr Vel, FPM DC 170

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 11/26/91 250/ 2100
Last BOP Drill 12/08/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	L. DISP.	L. DISP.
Sampl Source	OUT	IN
Time	1330	1330
Flowline Temp.	100	
Depth (MD)	9280	9280
Mud WT	9.2	9.2
FV	44	40
PV	7	6
YP	14	12
10 Sec GEL	10.0	8.0
10 Min GEL	48.0	36.0
API WL	12.4	12.6
API FC, 32nd	3	3
HTHP WL		
HTHP FC, 32nd		
Vol % Water	93.00	93.50
Vol % Oil	0.00	0.00
Vol % Solids	7.00	6.50
Vol % Sand	0.50	0.20
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.8	8.9
Akl(PF)	0.15	0.15
Akl(PM)	1.00	1.10
Akl(MF)	0.60	0.60
Chlorides	350	350
Calcium	100	80
Potassium		

Other Mud Properties

Mud Additives

BARITE	SX100	39.00
CAUSTIC	SX 50	6.00
DRISPAC		2.00
NUT PLUG	SX 50	10.00

Inclination Survey

MD	Angle	Azmith	Dist
9251	1.50		
8757	0.75		

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith %Vol [redacted]

Mud Vol@	EOP
Resv Pit	
Actv Pit	730
Hole	1290
Total	2020

Mud Make-Up SLR Cum
Oil
Water, Bbls 100 4705
Water Permit # 000

Bit Mfg	REED	REED
Bit No/Rerun	13/ 12	12/
Size	12.250	12.250
Bit Model	HP53A	HP53A
Serial #	T14636	T14636
Bit Nozzle Dia, 32nd #1/#2/#3	18/18/18	13/13/13
Bit Grade		
Teeth, 8ths		3
Bearing, 8ths		4
Guage, I/O 32nd		I
Depth Bit Run	9280	8826
Pulled		9280
Footage	0	454
Rotary Hrs		65.00
Rotary RPM	/	60/ 65
Ave ROP		6.98
WT On Bit	/	50/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	6370.7	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type OD(In)
1 4.5 IN IF 5.000
2 4.5 IN IF 5.000

Drill String Summary

	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	8392.0	62

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water, GPS		
WT, PPG		
BBLS Slurry		

Add Brand Amt Units Amt Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan: OD(In) 20.000 MD 100
Csg Actual: OD(In) 13.375 MD 649 PIT LOT

Mudlogger Report: Gas Units MD [redacted] Chlori

Well Name STEEL CREEI JNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0033 Date: 12/10/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	530	DRILLING	
1030	030	CIRCULAT	FOR SHORT TRIP.
1100	100	SHRT TRP	20 STDS.
1200	330	CIRCULAT	FOR LOGS.
1530	030	SURVEY	AND PUMP PILL.
1600	400	TRIP OUT	
2000	830	LOGGING	RU SCHLUMBERGER AND LOG DIL/BHC SONIC,GR & CALIP (DEPTH 9272' TO 649' DIL/BHC SONIC) LOG GR TO SURFACE.
0430	030	TRIP IN	
			SMAC 5

* Drilling Obj - Cont.

Obj	Reservoir	[redacted]
[redacted]		[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 0	EUSA Supv1	MC LAIN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	
Dril Group	MDO	Air Temp, Deg F	

Date:	12/09/91
Report No:	0032
AFE No:	00026519
AFE Amt, K$	
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Present Operation	DRILLING
MD @ End of Period	9249
Footage SLR	151
Rotating Hours SLR	23.50
Mud WT, PPG	9.2
Hole Size, In.	12.250
Pump Pressure, PSI	2300
Circ Rate, GPM	509
Days Since Spud	31.3
Days Ahead/Behind(-)	-6.0

Anlr Vel, FPM DP	100
Anlr Vel, FPM DC	119

Days Since Last LTA	32.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	12/08/91	
Last BOP Oper		
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test 12/10/91
	Duration min	

Mud Type	L. DISP.	L. DISP.	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.8	8.8
Time	1300	1300	Akl(PF)	0.10	0.10
Flowline Temp.	100		Akl(PM)	1.00	1.00
Depth (MD)	9150	9150	Akl(MF)	0.60	0.60
Mud WT	9.2	9.1	Chlorides	350	350
FV	36	36	Calcium	80	80
PV	5	5	Potassium		
YP	9	9	Other Mud Properties		
10 Sec GEL	4.0	4.0			
10 Min GEL	30.0	28.0			
API WL	13.2	13.2			
API FC, 32nd	3	3			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	93.50	94.00			
Vol % Oil	0.00	0.00			
Vol % Solids	6.50	6.00			
Vol % Sand	0.75	0.25			
MB	15.0	15.0			

Mud Additives

BENTONITE	SX100	10.00
CAUSTIC	SX 50	8.00
DRISPAC		2.00
NUT PLUG	SX 50	3.00

Inclination Survey

MD	Angle	Azmith	Dist
8757	0.75		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
26052	246	K-lbs

Lith	%Vol
[redacted]	[redacted]

Mud Vol@	EOP
Resv Pit	
Actv Pit	835
Hole	1275
Total	2110

Mud Make-Up SLR		Cum
Oil		
Water, Bbls	100	4605
Water Permit #	000	

Bit Mfg	REED	
Bit No/Rerun	/	12/
Size		12.250
Bit Model	HP53A	
Serial #	T14636	
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		8826
Pulled		
Footage		423
Rotary Hrs		59.50
Rotary RPM		60/ 65
Ave ROP		7.11
WT On Bit		50/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	6341.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	8362.5	62

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]	[redacted]		

Well Name STEEL CRE. UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0032 Date: 12/09/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	DRILLING	
0800	030	RIG SERV	FUNCTION BOP.
0830	2030	DRILLING	
			SMAC 4

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

end of report end of report end of report end of report

API#	43 043 30297 00 00	EUSA Supv1	MC LAIN	Date:	12/08/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0031
Prosp Number		EUSA Other		AFE No:	00026519
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt, K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.			
Dril Group	MDO	Air Temp, Deg F		Days Since Last LTA	31.0
				LTA/MMH	
Present Operation	DRILLING	Anlr Vel, FPM DP	100	Number Accidents SLR	0
MD @ End of Period	9098	Anlr Vel, FPM DC	170	Pollution Incidents SLR	0
Footage SLR	164				
Rotating Hours SLR	23.50	Well Control and Safety Drill		Low / High, PSI	
Mud WT, PPG	9.2	Last BOP Test	11/26/91	250/ 2100	
Hole Size, In.	12.250	Last BOP Drill	12/08/91		
Pump Pressure, PSI	2300	Last BOP Oper			
Circ Rate, GPM	509	Last Anular Test			
Days Since Spud	30.3	Duration	min	Next BOP Test	
Days Ahead/Behind(-)	5.5	Duration	min	12/10/91	

Mud Type	L. DISP.	L. DISP.	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.8	8.8
Time	1345	1345	Akl(PF)	0.10	0.15
Flowline Temp.	98		Akl(PM)	1.10	1.00
Depth (MD)	9000	9000	Akl(MF)	0.55	0.60
Mud WT	9.2	9.1	Chlorides	350	350
FV	35	34	Calcium	100	80
PV	5	5	Potassium		
YP	9	8	Other Mud Properties		
10 Sec GEL	6.0	5.0			
10 Min GEL	35.0	30.0			
API WL	13.0	13.2			
API FC, 32nd	3	3			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	93.00	94.00			
Vol % Oil	0.00	0.00			
Vol % Solids	7.00	6.00			
Vol % Sand	1.00	0.25			
MB	15.0	15.0			

*Mud Additives		
BENTONITE	SX100	10.00
CAUSTIC	SX 50	6.00
CFL	SX 50	3.00
DRISPAC		2.00

Inclination Survey

MD	Angle	Azmith	Dist
8757	0.75		

Torque @	Amount	Units
DRLG	1	RNDS

Pickup	Slack Off	Units
25951	245	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	900
		Hole	1255
		Total	2155

Mud Make-Up	SLR	Cum
Oil		
Water, Bbls	300	4505
Water Permit #	000	

Bit Mfg	REED	
Bit No/Rerun	/	12/
Size		12.250
Bit Model	HP53A	
Serial #	TI4636	
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		8826
Pulled		
Footage		272
Rotary Hrs		36.00
Rotary RPM		60/ 65
Ave ROP		7.56
WT On Bit		50/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control	Hrs Used	
Equip Type	SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe	Len, Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	6186.2	5.000	19.500	G-105

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	8207.5	61

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]		[redacted]	

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 00 Report No: 0031 Date: 12/08/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]N [redacted]

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	DRILLING	
0800	030	RIG SERV	FUNCTION BOP.
0830	2030	DRILLING	

SMAC 4

* Mud Additives - Cont.

NUT PLUG	SX	50	10.00
XCD POLY	SX	25	7.00

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
[redacted]		[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 00
Prosp Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drl Group MDO

EUSA Supv1 MC LAIN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Date: 12/07/91
Report No: 0030
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 30.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 8934
Footage SLR 127
Rotating Hours SLR 16.50
Mud WT,PPG 9.2
Hole Size,In. 12.250
Pump Pressure,PSI 2100
Circ Rate,GPM 485
Days Since Spud 29.3
Days Ahead/Behind(-) -4.5

Anlr Vel,FPM DP 95
Anlr Vel,FPM DC 162

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 11/26/91 250/ 2100
Last BOP Drill 12/04/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	L. DISP.	L. DISP.
Sampl Source	OUT	IN
Time	1630	1330
Flowline Temp.		
Depth (MD)	8828	8826
Mud WT	9.2	9.2
FV	36	35
PV	5	5
YP	8	7
10 Sec GEL	6.0	6.0
10 Min GEL	38.0	36.0
API WL	14.2	14.4
API FC, 32nd	3	3
HTHP WL		
HTHP FC,32nd		
Vol % Water	93.00	93.50
Vol % Oil	0.00	0.00
Vol % Solids	7.00	6.50
Vol % Sand	0.50	0.10
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.6	8.6
Akl(PF)	0.10	0.10
Akl(PM)	1.00	1.00
Akl(MF)	0.55	0.60
Chlorides	350	350
Calcium	80	80
Potassium		

Other Mud Properties

*Mud Additives

DRISPAC		1.00
CFL	SX 50	3.00
CEDAR FIBR	SX 30	13.00
CAUSTIC	SX 50	3.00

Inclination Survey

MD	Angle	Azmith	Dist
8757	0.75		
8442	2.00		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
25648	242	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit,	960
		Hole	1230
		Total	2190

Mud Make-Up SLR		Cum
Oil		
Water,Bbls	200	4205
Water Permit #	000	

Bit Mfg	REED	SECURITY
Bit No/Rerun	12/	11/
Size	12.250	12.250
Bit Model	HP53A	S86-F
Serial #	T14636	534531
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		7
Bearing, 8ths		3
Guage,I/O 32nd		I
Depth Bit Run	8826	8442
Pulled		8826
Footage	108	384
Rotary Hrs	12.50	54.00
Rotary RPM	60/ 65	60/ 65
Ave ROP	8.64	7.11
WT On Bit	50/ 55	45/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		100
Hrs SLR		
GPM		485

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	5998.2	5.000	19.500	G-105

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	8019.5	60

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]		[redacted]	

Well Name STEEL CREI UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0030 Date: 12/07/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	400	DRILLING	
0900	030	SURVEY	DROP SURVEY AND PUMP PILL.
0930	300	TRIP OUT	
1230	030	RIG SERV	FUNCTION BOP.
1300	300	TRIP IN	
1600	030	REAMING	39' NO FILL.
1630	1230	DRILLING	

SMAC 5

* Mud Additives - Cont.

BENTONITE	SX100	12.00
BARITE	SX100	54.00

* Drilling Obj - Cont.

Obj Reservoir Top MD

[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 MC LAIN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Date: 12/06/91
Report No: 0029
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 29.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 8807
Footage SLR 169
Rotating Hours SLR 23.50
Mud WT,PPG 9.1
Hole Size,In. 12.250
Pump Pressure,PSI 2100
Circ Rate,GPM 509
Days Since Spud 28.3
Days Ahead/Behind(-) -4.5

Anlr Vel,FPM DP 100
Anlr Vel,FPM DC 170

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 11/26/91 250/ 2100
Last BOP Drill 12/04/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	L. DISP.	L. DISP.
Sampl Source	OUT	IN
Time	1330	1330
Flowline Temp.	100	
Depth (MD)	8705	8705
Mud WT	9.2	9.2
FV	38	37
PV	6	5
YP	9	9
10 Sec GEL	7.0	7.0
10 Min GEL	33.0	30.0
API WL	16.0	15.8
API FC, 32nd	3	3
HTHP WL		
HTHP FC,32nd		
Vol % Water	93.00	93.50
Vol % Oil	0.00	0.00
Vol % Solids	7.00	6.50
Vol % Sand	0.75	0.15
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.7	8.6
Akl(PF)	0.10	0.10
Akl(PM)	1.10	1.00
Akl(MF)	0.80	0.80
Chlorides	350	350
Calcium	40	40
Potassium		

Other Mud Properties

Mud Additives

DRISPAC		2.00
CFL	SX 50	11.00
CEDAR FIBR	SX 30	2.00
CAUSTIC	SX 50	6.00

Inclination Survey

MD	Angle	Azmith	Dist
8442	2.00		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
25244	238	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	890
		Hole	1210
		Total	2100

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	200	4005
Water Permit #	000	

Bit Mfg SECURITY
Bit No/Rerun 11/
Size 12.250
Bit Model S86-F
Serial # 534531
Bit Nozzle Dia,32nd
#1/#2/#3 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 8442
Pulled
Footage 365
Rotary Hrs 50.00
Rotary RPM 60/ 65
Ave ROP 7.30
WT On Bit 45/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip	Type	SLR	Screen
CENTRIFUGE		24.00	325X325
CENTRIFUGE		24.00	325X325
CENTRIFUGE			325X325
FLOLINE C			325X325
FLOLINE C			

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	5873.6	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

DEC 0 6

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	7894.9	59

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report
Gas Units MD Chlori
[redacted]

Well Name STEEL CRE UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0029 Date: 12/06/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill		
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	830	DRILLING	
1330	030	RIG SERV	FUNCITON BOPS.
1400	1500	DRILLING	

SMAC 4
ACCIDENT 12/3/91 TIME 2200 HRS DERRICKMAN
BRUCE STACY BRUISED RIGHT FOREARM AND WRIST
WHILE TRIPPING OUT OF HOLE CAUGHT BETWEEN DC AND
SHEAVE FOR MULE.

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

API#	43 043 30297 00 0	EUSA Supv1	MC LAIN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	
Drill Group	MDO	Air Temp, Deg F	

Date:	12/05/91
Report No:	0028
AFE No:	00026519
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	28.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	8638
Footage SLR	168
Rotating Hours SLR	23.50
Mud WT, PPG	9.2
Hole Size, In.	12.250
Pump Pressure, PSI	2100
Circ Rate, GPM	509
Days Since Spud	27.3
Days Ahead/Behind(-)	-4.5
Anlr Vel, FPM DP	100
Anlr Vel, FPM DC	170

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	12/04/91	
Last BOP Oper		
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test 12/10/91
	Duration min	

Mud Type	L. DISP.	L. DISP.	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	9.0	9.0
Time	1530	1400	Akl(PF)	0.15	0.15
Flowline Temp.	96		Akl(PM)	1.00	1.10
Depth (MD)	8553	8542	Akl(MF)	0.85	0.90
Mud WT	9.2	9.1	Chlorides	400	400
FV	41	36	Calcium	40	40
PV	10	7	Potassium		
YP	14	11	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.8	10.0			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	93.50	94.00			
Vol % Oil	0.00	0.00			
Vol % Solids	6.50	6.00			
Vol % Sand	0.75	0.10			
MB	15.0	15.0			

Mud Additives

NUT PLUG	SX 50	12.00
DRISPAC		1.00

Inclination Survey

MD	Angle	Azmith	Dist
8442	2.00		

Torque @	Amount	Units
DRLG	1	RNDS

Pickup	Slack Off	Units
25250	248	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	920
		Hole	1161
		Total	2081

Mud Make-Up	SLR	Cum
Oil		
Water, Bbls		3805
Water Permit #	000	

Bit Mfg		SECURITY
Bit No/Rerun	/	11/
Size		12.250
Bit Model		S86-F
Serial #		534531
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		8442
Pulled		
Footage		196
Rotary Hrs		26.50
Rotary RPM		60/ 65
Ave ROP		7.40
WT On Bit		45/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Equip Type	SLR	Hrs Used	Screen
FLOLINE C			
FLOLINE C			325X325
CENTRIFUGE			325X325
CENTRIFUGE			325X325
CENTRIFUGE			325X325

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	5717.0	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	7738.3	58

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water, GPS				
WT, PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

DEC 0 5

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREF UNIT - Continued Page 2
API# 43 043 30297 0[illegible] 00 Report No: 0028 Date: 12/05/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1030	DRILLING	
1530	030	RIG SERV	FUNCTION BOP.
1600	1300	DRILLING	
			SMAC 4

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

API#	43 043 30297 00 0	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	CLDY
Drill Group	MDO	Air Temp,Deg F	22

Date:	12/04/91
Report No:	0027
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	27.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	8470
Footage SLR	120
Rotating Hours SLR	17.25
Mud WT,PPG	9.1
Hole Size,In.	12.250
Pump Pressure,PSI	2050
Circ Rate,GPM	509
Days Since Spud	26.3
Days Ahead/Behind(-)	-4.5
Anlr Vel,FPM DP	100
Anlr Vel,FPM DC	119

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	12/04/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/10/91

Mud Type	L. DISP.	L. DISP.	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	9.0	9.0
Time	1630	1515	Akl(PF)	0.15	0.20
Flowline Temp.	96		Akl(PM)	1.00	1.15
Depth (MD)	8432	8425	Akl(MF)	0.85	0.90
Mud WT	9.2	9.1	Chlorides	500	500
FV	39	36	Calcium	40	40
PV	10	7	Potassium		
YP	15	11	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.8	10.0			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC,32nd					
Vol % Water	93.50	94.00			
Vol % Oil	0.00	0.00			
Vol % Solids	6.50	6.00			
Vol % Sand	0.75	0.10			
MB	15.0	15.0			

Inclination Survey

MD	Angle	Azmith	Dist
8442	2.00		
7823	1.75		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
24947	245	K-lbs

Lith %		Mud Vol	
[redacted]		Resv Pit	[redacted]
		Actv Pit	900
		Hole	1145
		Total	2045

Mud Additives

SODA ASH		3.00
DRISPAC		1.00
CEDAR FIBR	SX 30	2.00
BARITE	SX100	2.00

Mud Make-Up SLR		Cum
Oil		
Water,Bbls		3805
Water Permit #	000	

Bit Mfg	SECURITY	HUGHES
Bit No/Rerun	11/	10/
Size	12.250	12.250
Bit Model	S86-F	ATJ-33
Serial #	534531	RA-561
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		4
Guage,I/O 32nd		I
Depth Bit Run	8442	8137
Pulled		8442
Footage	28	305
Rotary Hrs	3.00	38.25
Rotary RPM	60/ 65	55/ 65
Ave ROP	9.33	7.97
WT On Bit	45/ 60	50/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
6	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	5553.8	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	895.48	33.11
Drill Pipe	7575.1	56

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add Brand	Amt	Units	Amt	Units

DEC 04

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]		[redacted]	

Well Name STEEL CREEK UNIT - Continued - Page 2
API# 43 043 30297 00 00 Report No: 0027 Date: 12/04/91

Pump Rate		13.375	600					[redacted]
Recip Pipe		9.625	9200					
Anulus PSI		5.500	16500					

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	830	DRILLING	
1330	015	RIG SERV	
1345	545	DRILLING	
1930	300	TRIP OUT	FOR BIT.
2230	330	TRIP IN	P.U. 2 8" D.C.
0200	300	DRILLING	

SMAC 6
P.O. DRLG. N.P. HOLE IN EXCELLENT CONDITION. NO TIGHT PLACES. NO FILL.

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 0 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
DFTT Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 10:15

Date: 12/03/91
Report No: 0026
AFE No: 00026519
AFE Amt, K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. SNOW
Air Temp, Deg F 10

Days Since Last LTA 26.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 8350
Footage SLR 213
Rotating Hours SLR 24.00
Mud WT, PPG 9.1
Hole Size, In. 12.250
Pump Pressure, PSI 2050
Circ Rate, GPM 509
Days Since Spud 25.3
Days Ahead/Behind(-) -4.5

Anlr Vel, FPM DP 100
Anlr Vel, FPM DC 119

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 11/26/91 250/ 2100
Last BOP Drill 12/03/91
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	L. DISP.	L. DISP.	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	9.0	9.1
Time	1630	1515	Akl(PF)	0.20	0.20
Flowline Temp.	95		Akl(PM)	1.10	1.10
Depth (MD)	8240	8229	Akl(MF)	0.85	0.90
Mud WT	9.2	9.2	Chlorides	500	500
FV	39	37	Calcium	60	60
PV	9	8	Potassium		
YP	14	12	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.8	10.2			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	93.50	93.50			
Vol % Oil	0.00	0.00			
Vol % Solids	6.50	6.50			
Vol % Sand	0.75	0.25			
MB	15.0	15.0			

Mud Additives

DRISPAC		2.00
CFL	SX 50	15.00
CAUSTIC	SX 50	4.00

Inclination Survey

MD	Angle	Azmith	Dist
7823	1.75		

Torque @ DRLG Amount 1 Units RNDS
Pickup 23332 Slack Off 228 Units K-lbs

Lith %Vol [redacted]

Mud Vol@	EOP
Resv Pit	
Actv Pit	952
Hole	1118
Total	2070

Mud Make-Up SLR Cum
Oil
Water, Bbls 3805
Water Permit # 000

Bit Mfg HUGHES
Bit No/Rerun /
Size 12.250
Bit Model ATJ-33
Serial # RA-561
Bit Nozzle Dia, 32nd
#1/#2/#3 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run 8137
Pulled
Footage 213
Rotary Hrs 24.00
Rotary RPM 55/ 65
Ave ROP 8.87
WT On Bit 50/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
4	DRILL COLR
10	DRILL COLR
1	H-JAR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
4	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	5488.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type OD(In)

1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary

	Total Length	Total Displ.
BHA	841.19	29.66
Drill Pipe	7509.5	56

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report
Gas Units MD Chlori
[redacted]

Well Name STEEL CREF UNIT - Continued Page 2
API# 43 043 30297 0 00 Report No: 0026 Date: 12/03/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	2400	DRILLING	

SMAC 4
P.O. DRLG. NO PROBLEMS

Obj Reservoir Top MD
[redacted]

end of report end of report end of report end of report

-FCC

API#	43 043 30257 00 00	EUSA Supv1	MCPEEK	Date:	12/02/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0025
Prosp Number		EUSA Other		AFE No:	00025[redacted]
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 3
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	915/688-7135
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10.15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	SNOW		
Dril Group	MDC	Air Temp,Deg F	14	Days Since Last LTA	25.0
				LTA/MMH	
Present Operation	WASH/REM	Anlr Vel,FPM DP	0	Number Accidents SLR	0
MD @ End of Period	8137	Anlr Vel,FPM DC	0	Pollution Incidents SLR	0
Footage SLR	11				
Rotating Hours SLR	1.00	Well Control and Safety Drill		Low / High,PSI	
Mud WT,PPG	9.3	Last BOP Test	11/26/91	250/ 2100	
Hole Size,In.	12.250	Last BOP Drill	12/01/91		
Pump Pressure,PSI		Last BOP Oper			
Circ Rate,GPM	0	Last Anular Test			
Days Since Spud	24.5	SAFE-GEN	Duration 5.0 min	Next BOP Test	
Days Ahead/Behind(-)	-5.0		Duration min	12/10/91	

Mud Type	GND	GND	Mud Co.	GLOBAL	Inclination Survey		
Sampl Source	IN	OUT	Mud PH	9.8	MD	Angle	Azmith	Dist
Time	1500	0945	Akl(PF)	0.20	7823	1.75		
Flowline Temp.			Akl(PM)	1.10				
Depth (MD)	8137	8137	Akl(MF)	0.60				
Mud WT	9.3		Chlorides	500				
FV	42		Calcium	40				
PV	7		Potassium					
YP	14		Other Mud Properties					
10 Sec GEL	3.0							
10 Min GEL	11.0							
API WL	10.0							
API FC, 32nd	2							
HTHP WL								
HTHP FC,32nd								
Vol % Water	94.00		*Mud Additives					
Vol % Oil	0.00		SHRINK WRP	EACH	3.00			
Vol % Solids	5.00		SALT	SX 80	15.00			
Vol % Sand	0.20		CFL	SX 50	5.00			
MB	15.0		CAUSTIC	SX 50	2.00			

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
23130	227	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	770
		Hole	1103
		Total	1873

Mud Make-Up, SLR	Cum
Oil	
Water,Bbls	3805
Water Permit # 000	

Bit Mfg	HUGHES	REED	Pump No.	1	2
Bit No/Rerun	10/	3/	Stroke	10.0	10.0
Size	12.250	12.250	Liner	9.5	7.0
Bit Model	ATJ-33	HP-51A	SPM		
Serial #	RA-961	E-73802	Hrs SLR		
Bit Nozzle Dia,32nd			GPM		
#1/#2/#3	13/13/13	13/13/13			
Bit Grade					
Teeth, 8ths		4			
Bearing, 8ths		1			
Guage,I/O 32nd		1			
Depth Bit					
Run	8137	8126			
Pulled		8137			
Footage	0	11			
Rotary Hrs		1.00			
Rotary RPM	55/ 65	55/ 75			
Ave ROP		11.00			
WT On Bit	50/ 50	55/ 55			

Solids Control	Hrs Used	
Equip Type	SLR	Screen
FLOLINE C		
FLOLINE A		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA No.	Item
1	BIT
1	SHOCK SUB
4	DRILL COLR
4	DRILL COLR
5	DRILL COLR
1	H-JAR
3	SPIRAL HW

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
4	8.750	3.000	
4	7.625	3.000	
3	5.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	5305.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	812.17	28.53
Drill Pipe	7326.5	51

DEC 0 2

POB

FIN Csg PSI | Csg Plan | Csg Actual ---PPG--- | Mudlogger Report

Well Name STEEL CREEK UNIT — Continued — Page 2
API# 43 043 30257 00 00 — Report No: 3066 — Date: 12/02/81

Pump Rate	13.375	830
Recip Pipe	3.525	5200
Anulus PSI	5.500	16500

*Drilling Obj.	Top MD	Consumable Units	SLR	EOP
Obj Reservoir				
[redacted]	[redacted]			

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	330	TRIP IN	FINISH TIH TO 3066'
0930	100	REAMING	50' O.G. HOLE
0930	100	DRILLING	CHECK SURFACE EQUIPMENT FOR PRESSURE LOSS
1030	330	TRIP OUT	LOOKING FOR HOLE.
1300	330	BHA INSP	FOUND 1-8" 2-8" 3-8 3/4". LAYED DOWN SAME.
			P.U. 3-8 3/4".
2030	200	SLIP/CUT	DRLG. LINE.
0230	200	TRIP IN	FINISH TIH
0430	030	WASH/REM	25' TO BTM.
			SMAC 4
			P.O. DRLG.

* Mud Additives Cont.
BARITE SX100 [redacted]

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

GLASS

API#	43 043 30257 00 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SUSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
County	SUMMIT	Weather Desc.	CLR
Drill Group	MDU	Air Temp,Deg F	-22

Date:	12/01/91
Report No:	0024
AFE No:	000265.19
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7195
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	24.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP IN	Anlr Vel,FPM DP	0
MD @ End of Period	8125	Anlr Vel,FPM DC	0
Footage SLR	138		
Rotating Hours SLR	14.50		
Mud WT,PPG	9.1		
Hole Size,In.	12.250		
Pump Pressure,PSI			
Circ Rate,GPM	0		
Days Since Spud	23.3		
Days Ahead/Behind(-)	-3.0		

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	11/25/91	250/ 2100
Last BOP Drill	12/01/91	
Last BOP Oper		
Last Anular Test		
BOP DRILL	Duration ____ min	Next BOP Test
	Duration ____ min	12/10/91

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	9.0	9.0
Time	1615	1530	Akl(PF)	0.20	0.20
Flowline Temp.	96		Akl(PM)	1.20	1.10
Depth (MD)	8106	8097	Akl(MF)	0.85	0.90
Mud WT	9.4	9.2	Chlorides	600	600
FV	48	42	Calcium	40	40
PV	11	7	Potassium		
YP	18	14	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	12.0	11.0			
API WL	10.0	10.4			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC,32nd					
Vol % Water	92.50	94.00	Mud Additives		
Vol % Oil	0.00	0.00	DRISPAC		2.00
Vol % Solids	7.50	6.00	CFL	SX 50	33.00
Vol % Sand	0.75	0.20	CAUSTIC	SX 50	12.00
MB	17.5	15.0			

Inclination Survey

MD	Angle	Azmith	Dist
7823	1.75		

Torque @	Amount	Units
DRLG		RNDS
Pickup	Slack Off	Units
23130	227	K-lbs

Lith	%Vol	Mud Vols	EOP
[redacted]		Resv Pit	
		Actv Pit	500
		Hole	1098
		Total	1598

Mud Make-Up SLR		Cum
Oil		
Water,Bbls		5505
Water Permit # 000		

Bit Mfg	REED	SECURITY
Bit No/Rerun	9/	6/
Size	12.250	12.250
Bit Model	HP-51A	S84-F
Serial #	E-73802	547644
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		8
Bearing, 8ths		4
Guage,I/O 32nd		I
Depth Bit Run	8126	7837
Pulled		8126
Footage	0	289
Rotary Hrs		31.75
Rotary RPM	55/ 75	75/ 80
Ave ROP		9.10
WT On Bit	55/ 65	50/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		
Hrs SLR		
GPM		

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	5177.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

	Tool Joint	Type	OD(In)
1	4.5 IN	IF	5.000
2	4.5 IN	IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	898.58	34.36
Drill Pipe	7196.5	55

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	645		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0021 Date: 12/01/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	15500								

*Drilling Obj.	Top	Consumable	Units	SLR	EQP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	900	DRILLING	
1400	030	RIG SERV	
1430	530	DRILLING	LOST 150 PSI PUMP PRESSURE.
2000	500	TRIP OUT	DID NOT FIND ANY W.O'S IN DRLG. ASSY.
0200	300	TRIP IN	CHG. BIT, SHOCK SUB, & P.O. JARS
			SMAC 4
			P.O. TRIPPING IN HOLE

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

SOE GLA

API#	43 043 30297 00 00	EUSA Supv1	MCPEEK	Date:	11/30/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0023
Prosp Number		EUSA Other		AFE No:	00026519
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SUSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	10:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLR		
Drill Group	MDO	Air Temp,Deg F	-13	Days Since Last LTA	23.0
				LTA/MMM	
Present Operation	DRILLING	Anlr Vel,FPM DP	100	Number Accidents SLR	0
MD@ End of Period	7588	Anlr Vel,FPM DC	170	Pollution Incidents SLR	0
Footage SCR	151				
Rotating Hours SLR	17.25	Well Control and Safety Drill		Low / High,PSI	
Mud WT,PPG	9.1	Last BOP Test	11/26/91	250/ 2100	
Hole Size,In.	12.250	Last BOP Drill	11/25/91		
Pump Pressure,PSI	2200	Last BOP Oper			
Circ Rate,GPM	505	Last Anular Test			
Days Since Spud	22.3	SAFE-GEN	Duration 5.0 min	Next BOP Test	
Days Ahead/Behind(-)	-3.0		Duration min	12/10/91	

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.5	8.5
Time	1615	1500	Akl(PF)	0.10	0.10
Flowline Temp.	94	70	Akl(PM)	1.10	1.00
Depth (MD)	7865	7873	Akl(MF)	0.80	0.80
Mud WT	9.5	9.4	Chlorides	300	300
FV	40	34	Calcium	20	20
PV	10	7	Potassium		
YP	14	11	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.4	9.8			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC,32nd					
Vol % Water	92.00	92.50	Mud Additives		
Vol % Oil	0.00	0.00	XCD POLY	SX 25	1.00
Vol % Solids	8.00	7.50	CAUSTIC	SX 50	2.00
Vol % Sand	0.75	0.10	BENTONITE	SX100	9.00
MB	15.0	15.0			

Inclination Survey

MD	Angle	Azmith	Dist
7823	1.75		
7199	1.50		

Torque @	Amount	Units
DRLG	1	RNDS
Pickup	Slack Off	Units
23040	220	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	880
		Hole	1067
		Total	[illegible]

Mud Make-Up SLR		Cum
Oil		
Water,Bbls		3805
Water Permit # 000		

Bit Mfg	SECURITY	REED
Bit No/Rerun	6/	7/
Size	12.250	12.250
Bit Model	S84-F	HP51A
Serial #	547644	X30716
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		8
Bearing, 8ths		8
Guage,I/O 32nd		1
Depth Bit Run	7837	7221
Pulled		7837
Footage	151	616
Rotary Hrs	17.25	49.75
Rotary RPM	75/ 80	50/ 80
Ave ROP	8.75	12.38
WT On Bit	50/ 55	40/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	7.0
SPM		105
Hrs SLR		
GPM		509

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
5	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	5039.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	898.58	34.38
Drill Pipe	7060.5	52

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	545		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 045 30297 00 00 Report No: 0023 Date: 11/30/91

Pump Rate		13.375	600								
Recip Pipe		5.625	3200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	TRIP OUT	FINISH TOH. FOUND SHOCK SUB BODY CRACKER ALL AROUND JUST ABOVE THE MANDREL.L.D. SAME
0700	300	TRIP IN	P.U. SHOCK SUB & BIT # 8. BROKE CIRC.1/2 WAY IN.
1000	030	REAMING	WASH & REAM F/ 7792' TO 7837'. NO FILL
1030	330	DRILLING	
1400	045	SURVEY	
1445	315	DRILLING	
1800	030	RIG SERV	
1830	1030	DRILLING	
			SMAC 4
			P.O. DRLG.

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

Job 61255

API#	43 043 30297 00 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREI	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	10:15
State	UT		
Company	SUMMIT	Weather Desc.	CLR
Drlg Group	MDO	Air Temp,Deg F	10

Date:	11/29/91
Report No:	0022
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	22.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP OUT
MD @ End of Period	7837
Footage SLR	171
Rotating Hours SLR	17.25
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2200
Circ Rate,GPM	544
Days Since Spud	21.3
Days Ahead/Behind(-)	-3.0
Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	181

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	11/25/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR Duration 30.0 min Next BOP Test
Duration min 12/10/91

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.5	8.5
Time	1700	1530	Akl(PF)	0.10	0.10
Flowline Temp.	94	74	Akl(PM)	1.10	1.00
Depth (MD)	7761	7750	Akl(MF)	0.80	0.80
Mud WT	9.5	9.4	Chlorides	300	300
FV	41	36	Calcium	20	20
PV	15	8	Potassium		
YP	15	11	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.4	9.8			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC,32nd					
Vol % Water	92.00	92.50			
Vol % Oil	0.00	0.00			
Vol % Solids	8.00	7.50			
Vol % Sand	0.75	0.15			
MB	15.0	15.0			

Mud Additives

XCD POLY	SX 25	2.00
CAUSTIC	SX 50	2.00
BENTONITE	SX100	9.00

Inclination Survey

MD	Angle	Azmith	Dist
7199	1.50		

Torque @	Amount	Units
DRLG	1	RNDS

Pickup	Slack Off	Units
23525	220	K-lbs

[redacted]

Mud Volume	
Resv Pit	[redacted]
Actv Pit	810
Hole	1050
Total	1860

Mud Make-Up SLR		Cum
Oil		
Water,Bbls		3805
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	7/
Size		12.250
Bit Model		HP51A
Serial #		X30716
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		7221
Pulled		
Footage		616
Rotary Hrs		49.75
Rotary RPM		50/ 80
Ave ROP		12.38
WT On Bit		40/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	4888.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	898.58	34.38
Drill Pipe	6909.5	51

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 0 00 Report No: 0022 Date: 11/29/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	10	10
Intan		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	130	REPR/CNT	CHANGE OUT ELECTRICAL PLUG ON MUD PITS AND DRY OUT PLUG ON SHAKER
0630	730	DRILLING	
1400	045	REPAIR	DRY OUT ELECTRICAL PLUGS ON SHAKERS.
1445	030	RIG SERV	
1515	945	DRILLING	LOST 150 PSI PUMP PRESSURE.
0100	400	TRIP OUT	SLOW LOOKING FOR WASH-OUT OR CRACK IN DRLG. ASSY.
			SMAC 4
			P.O. NOW @ D.C'S. HAVE NOT LOCATED ANYTHING YET..

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

Joe Glass

API#	43 043 30297 0C 0	EUSA Supvl	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	8:45
State	UT		
County	SUMMIT	Weather Desc.	SNOW
Drl Group	MDO	Air Temp, Deg F	14

Date:	11/28/91	Days Since Last LTA	21.0
Report No:	0021	LTA/MMH	
AFE No:	00026519	Number Accidents SLR	0
AFE Amt, K$	[redacted]	Pollution Incidents SLR	0
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Present Operation	DRILLING	Anlr Vel, FPM DP	90
MD @ End of Period	7666	Anlr Vel, FPM DC	153
Footage SLR	286		
Rotating Hours SLR	23.50		
Mud WT, PPG	9.4		
Hole Size, In.	12.250		
Pump Pressure, PSI	1800		
Circ Rate, GPM	460		
Days Since Spud	20.3		
Days Ahead/Behind(-)	-3.0		

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/26/91	250/ 2100
Last BOP Drill	11/25/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	12/10/91

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.4	8.5
Time	1600	1430	Akl(PF)	0.10	0.10
Flowline Temp.	95		Akl(PM)	1.10	1.00
Depth (MD)	7530	7514	Akl(MF)	0.80	0.80
Mud WT	9.5	9.4	Chlorides	300	300
FV	40	35	Calcium	20	20
PV	10	7	Potassium		
YP	15	12	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	10.0	10.0			
API WL	9.4	10.0			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	92.00	92.50			
Vol % Oil	0.00	0.00			
Vol % Solids	8.00	7.50			
Vol % Sand	0.50	0.10			
MB	15.0	15.0			

Mud Additives

XCD POLY	SX 25	1.00
SALT	SX 80	10.00
CAUSTIC	SX 50	2.00
BENTONITE	SX100	9.00

Inclination Survey

MD	Angle	Azmith	Dist
7199	1.50		

Torque @	Amount	Units
DRLG	2	RNDS
Pick Up	Slack Off	Units
23525	220	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	820
		Hole	1018
		Total	1838

Mud Make-Up SLR		Cum
Oil		
Water, Bbls		3805
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	7/
Size		12.250
Bit Model		HP51A
Serial #		X30716
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		7221
Pulled		
Footage		445
Rotary Hrs		32.50
Rotary RPM		50/ 80
Ave ROP		13.69
WT On Bit		40/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	110	
Hrs SLR		
GPM	460	

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	4717.2	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	898.58	34.38
Drill Pipe	6738.5	50

Cement Company					
Cementing Obj.					
Slurry					
Class					
Sacks					
Water, GPS					
WT, PPG					
BBLS Slurry					
Add Brand	Amt	Units	Amt	Units	

POB					
FIN Csg PSI					
Mud Return					
Cmt Return					

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0021 Date: 11/28/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	815	DRILLING	
1315	030	RIG SERV	FUNCTION BOP'S - WORK KELLY VALVES
1345	1515	DRILLING	-
			SMAC 4
			P.O. LOST ALL POWER TO SHALE SHAKERS. WORKING ON SAME.

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

end of report end of report end of report end of report

API# 43 043 30297 00 0
Prosp Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 8:45

Date: 11/27/91
Report No: 0020
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLDY
Air Temp,Deg F 30

Days Since Last LTA 20.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 7380
Footage SLR 159
Rotating Hours SLR 9.00
Mud WT,PPG 9.4
Hole Size,In. 12.250
Pump Pressure,PSI 2300
Circ Rate,GPM 544
Days Since Spud 19.3
Days Ahead/Behind(-) -3.0

Anlr Vel,FPM DP 107
Anlr Vel,FPM DC 181

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 11/26/91 250/ 2100
Last BOP Drill 11/25/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/10/91

Mud Type	LSND	LSND
Sampl Source	OUT	IN
Time	2030	1400
Flowline Temp.	87	
Depth (MD)	7222	7222
Mud WT	9.5	9.4
FV	45	36
PV	10	8
YP	15	12
10 Sec GEL	4.0	4.0
10 Min GEL	11.0	10.0
API WL	9.2	9.8
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	92.50
Vol % Oil	0.00	0.00
Vol % Solids	8.00	7.50
Vol % Sand	0.75	0.10
MB	17.5	15.0

Mud Co.	GLOBAL	
Mud PH	8.5	8.4
Akl(PF)	0.10	0.10
Akl(PM)	1.00	1.00
Akl(MF)	0.85	0.80
Chlorides	300	300
Calcium	20	20
Potassium		

Other Mud Properties

*Mud Additives

XC POLYMER	SX 50	2.00
SALT	SX 80	10.00
DRISPAC		1.00
CAUSTIC	SX 50	2.00

Inclination Survey

MD	Angle	Azmith	Dist
7199	1.50		
6824	1.00		

Torque @ DRLG Amount 375 Units AMPS
Pickup 240 Slack Off 21522 Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	845
		Hole	975
		Total	1820

Mud Make-Up SLR Cum
Oil
Water
Water Permit # 000 3805

Bit Mfg	REED	HUGHES
Bit No/Rerun	7/	6/
Size	12.250	12.250
Bit Model	HP51A	ATJ-22
Serial #	X30716	D-41-PL
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		4
Bearing, 8ths		5
Guage,I/O 32nd		I
Depth Bit Run	7221	6338
Pulled		7221
Footage	159	883
Rotary Hrs	9.00	77.50
Rotary RPM	50/ 80	50/ 80
Ave ROP	17.67	11.39
WT On Bit	40/ 65	45/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
9	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	4435.0	5.000	19.500	G-105

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary

	Total Length	Total Displ.
BHA	898.58	34.38
Drill Pipe	6456.3	48

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]		[redacted]	

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 0. 00 Report No: 0020 Date: 11/27/91

Pump Rate	13.375	600	
Recip Pipe	9.625	9200	
Anulus PSI	5.500	16500	

[redacted]

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	445	BHA INSP	PROFILE SUB W/ BOX CRACKED
			ONE JT HWDP W/ BOX CRACKED
			TWO 6.75"DC W/. CRACKED BOXES
			ONE 8"W/CRACKED PIN
			ONE 8"W/ CRACKED BOX
0945	330	BOP T/DR	TEST BOP'S, CHOKE & KILL MANIFOLD,UPPER & LOWER
			KELLY VALVES & FLOOR VALVES 250 & 2100 PSI OK
1315	215	REPR/CNT	INSTALL LOWER SECTION OF STD PIPE
1530	300	TRIP IN	& PICK UP EXTRA DC'S BRK CIRC HALF WAY IN HOLE
1830	030	RIG SERV	
1900	030	TRIP IN	
1930	030	WASH/REM	7176-7221 (NO FILL)
2000	900	DRILLING	
			SMAC 4

* Mud Additives - Cont.
BARITE SX100 12.00

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

API#	43 043 30297 00 00	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	6:30
State	UT		
County	SUMMIT	Weather Desc.	SNOW
Drll Group	MDO	Air Temp, Deg F	22

Date:	11/26/91
Report No:	0019
AFE No:	00026519
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	19.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	TRIP OUT	Anlr Vel, FPM DP	107
MD @ End of Period	7221	Anlr Vel, FPM DC	181
Footage SLR	211		
Rotating Hours SLR	21.00		
Mud WT, PPG	9.4		
Hole Size, In.	12.250		
Pump Pressure, PSI	2300		
Circ Rate, GPM	544		
Days Since Spud	18.3		
Days Ahead/Behind(-)	-3.0		

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/25/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR — Duration 5.0 min; Duration ____ min; Next BOP Test 11/25/91

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.5	8.5
Time	1610	1500	Akl(PF)	0.10	0.10
Flowline Temp.	97		Akl(PM)	1.00	1.00
Depth (MD)	7127	7110	Akl(MF)	0.80	0.85
Mud WT	9.5	9.3	Chlorides	300	300
FV	39	35	Calcium	20	20
PV	10	7	Potassium		
YP	16	11	Other Mud Properties		
10 Sec GEL	4.0	3.0			
10 Min GEL	11.0	10.0			
API WL	9.2	9.8			
API FC, 32nd	2	2			
HTHP WL					
HTHP FC, 32nd					
Vol % Water	92.00	92.50			
Vol % Oil	0.00	0.00			
Vol % Solids	8.00	7.50			
Vol % Sand	0.75	0.15			
MB	17.5	15.0			

Mud Additives

XCD POLY		1.00
N CAP	5GAL	1.00
CAUSTIC	SX 50	4.00
BENTONITE	SX100	16.00

Inclination Survey

MD	Angle	Azmith	Dist
6824	1.00		

Torque @	Amount	Units
DRLG	375	AMPS

Pickup	Slack Off	Units
220	21016	K-lbs

Lith	%V	T	Mud Vol @	EOP
[redacted]			Resv Pit	
			Actv Pit	835
			Hole	962
			Total	1797

Mud Make-Up SLR		Cum
Oil		
Water, Bbls		3805
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	/	6/
Size		12.250
Bit Model		ATJ-22
Serial #		D-41-PL
Bit Nozzle Dia, 32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		6338
Pulled		
Footage		883
Rotary Hrs		77.50
Rotary RPM		50/ 80
Ave ROP		11.39
WT On Bit		45/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE		325X325
CENTRIFUGE		325X325
CENTRIFUGE		325X325
FLOLINE C		325X325
FLOLINE C		

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	4259.0	5.000	19.500	G-105

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	6280.3	47

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry
Add Brand Amt Units Amt Units

NOV 26

POB							
FIN Csg PSI		Csg Plan		Csg Actual		---PPG---	Mudlogger Report
Mud Return		OD(In)	MD	OD(In)	MD	PIT LOT	Gas Units MD Chlori
Cmt Return		20.000	100	13.375	649		[redacted]

Well Name STEEL CREEK UNIT - Continued

API# 43 043 30297 00 00 Report No: 0019 Date: 11/26/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top

Obj Reservoir MD

[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1015	DRILLING	
1515	030	RIG SERV	
1545	1045	DRILLING	
0230	030	SURVEY	& SLUG PIPE
0300	200	TRIP OUT	TO BHA

-

SMAC 4
P.O. INSPECTING BHA & PREP TO TEST BOP'S
NOTIFIED DAN WASHINGTON W/ BLM & FRANK MATTHEWS
W/ UTAH OIL & GAS OF UPCOMING BOP TEST.

* Drilling Obj - Cont.

Obj Reservoir Top MD

[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 0
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD,Ft.	16500
Budgeted TVD,Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drill Group	MDO

EUSA Supv1	BACHMAN
EUSA Supv2	
EUSA Other	
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	6:30

Date:	11/25/91
Report No:	0018
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	CLDY
Air Temp,Deg F	22
Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	128

Days Since Last LTA	18.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	7010
Footage SLR	247
Rotating Hours SLR	23.00
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2300
Circ Rate,GPM	544
Days Since Spud	17.3
Days Ahead/Behind(-)	-3.0

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR — Duration 5.0 min; Duration ___ min

Next BOP Test: 11/25/91

Mud Type	LSND	LSND
Sampl Source	OUT	IN
Time	1700	1600
Flowline Temp.	96	
Depth (MD)	6882	6870
Mud WT	9.5	9.4
FV	39	36
PV	11	8
YP	17	12
10 Sec GEL	4.0	4.0
10 Min GEL	11.0	10.0
API WL	9.2	10.0
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	92.00
Vol % Oil	0.00	0.00
Vol % Solids	8.00	8.00
Vol % Sand	0.75	0.10
MB	17.5	15.0

Mud Co.	GLOBAL	
Mud PH	8.6	8.7
Akl(PF)	0.10	0.10
Akl(PM)	1.10	1.00
Akl(MF)	0.90	0.90
Chlorides	300	300
Calcium	20	20
Potassium		

Other Mud Properties

Mud Additives

N CAP	5GAL	1.00
CAUSTIC	SX 50	4.00
BENTONITE	SX100	15.00

Inclination Survey

MD	Angle	Azmith	Dist
6824	1.00		
6278	1.00		

Torque @	Amount	Units
DRLG	2	RNDS

Pickup	Slack Off	Units
[redacted]	21014	K-lbs

Lith	%Vol
[redacted]	

Mud Vol@	EOP
Resv Pit	
Actv Pit	865
Hole	928
Total	1793

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls		3805
Water Permit #	000	

Bit Mfg	HUGHES
Bit No/Rerun	6/
Size	12.250
Bit Model	ATJ-22
Serial #	D-41-PL
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13
Bit Grade	
Teeth, 8ths	
Bearing, 8ths	
Guage,I/O 32nd	
Depth Bit Run	6338
Pulled	
Footage	672
Rotary Hrs	56.50
Rotary RPM	50/ 80
Ave ROP	11.89
WT On Bit	45/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C	24.00	
FLOLINE C	24.00	325X325
CENTRIFUGE	24.00	325X325
CENTRIFUGE	0.00	325X325
CENTRIFUGE	24.00	325X325

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	4059.0	5.000	19.500	G-105

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	6080.3	45

Cement Company
Cementing Obj.

Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE UNIT - Continued - Page 2
API# 43 043 30297 00 00 Report No: 0018 Date: 11/25/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	630	DRILLING	
1130	030	RIG SERV	
1200	330	DRILLING	
1530	030	SURVEY	
1600	1300	DRILLING	

SMAC 4
P.O. DRLG. AHEAD

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

----end of report-----end of report-----end of report-----end of report-----

Glass

API#	43 043 30297 00 0	EUSA Supv1	BACHMAN
Prosp. Name	STEEL CREE[redacted]	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	6:30
St[redacted]	UT		
Co[redacted]	SUMMIT	Weather Desc.	CLDY
Dr[redacted]	MDO	Air Temp,Deg F	22

Date:	11/24/91
Report No:	0017
AFE No:	00026519
AFE Amt,K$	
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Present Operation	DRILLING
MD @ End of Period	6763
Footage SLR	307
Rotating Hours SLR	23.50
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2300
Circ Rate,GPM	544
Days Since Spud	16.3
Days Ahead/Behind(-)	-3.0

Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	181

Days Since Last LTA	17.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	OUT	IN
Time	1430	1330
Flowline Temp.	95	
Depth (MD)	6590	6579
Mud WT	9.5	9.4
FV	43	35
PV	12	8
YP	16	11
10 Sec GEL	4.0	4.0
10 Min GEL	11.0	10.0
API WL	9.0	9.8
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	92.00
Vol % Oil	0.00	0.00
Vol % Solids	8.00	8.00
Vol % Sand	0.75	0.10
MB	17.5	15.0

Mud Co.	GLOBAL	
Mud PH	8.6	8.6
Akl(PF)	0.10	0.10
Akl(PM)	1.10	1.00
Akl(MF)	0.80	0.90
Chlorides	300	300
Calcium	20	20
Potassium		

Other Mud Properties

*Mud Additives

SHRINK WRP	EACH	4.00
N CAP	5GAL	1.00
CEDAR FIBR	SX 30	7.00
CAUSTIC	SX 50	4.00

Inclination Survey

MD	Angle	Azmith	Dist
6278	1.00		

Torque @	Amount	Units
DRIG	380	AMPS
Pickup	Slack Off	Units
210	200	K-lbs

Lith	%Vol	Mud Vol@ "EOP"	
[redacted]		Resv Pit	
		Actv Pit	870
		Hole	886
		Total	1756

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls		3805
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	6/
Size		12.250
Bit Model		ATJ-22
Serial #		D-41-PL
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		6338
Pulled		
Footage		425
Rotary Hrs		33.50
Rotary RPM		50/ 80
Ave ROP		12.69
WT On Bit		45/ 65

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		270X270
CENTRIFUGE		250X250
CENTRIFUGE		250X250

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2021.3	5.000	19.500	E-75
2	3808.0	5.000	19.500	G-105

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	5829.3	43

Cement Company
Cementing Obj.

Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0017 Date: 11/24/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	915	DRILLING	
1415	030	RIG SERV	
1445	1415	DRILLING	

SMAC 4
P.O. DRLG. AHEAD

* Mud Additives - Cont.
BENTONITE SX100 25.00

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 0(0	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	6:30
State	UT		
County	SUMMIT	Weather Desc.	CLR
Drlg Group	MDO	Air Temp,Deg F	-15

ate:	11/23/91
eport No:	0016
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	16.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	6456
Footage SLR	185
Rotating Hours SLR	15.50
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2300
Circ Rate,GPM	544
Days Since Spud	15.3
Days Ahead/Behind(-)	-3.0
Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	181

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	OUT	IN	Mud PH	8.5	8.7
Time	1900	1300	Akl(PF)	0.10	0.10
Flowline Temp.	76		Akl(PM)	1.00	1.00
Depth (MD)	6340	6338	Akl(MF)	0.70	0.70
Mud WT	9.5	9.3	Chlorides	300	100
FV	50	36	Calcium	20	20
PV	12	9	Potassium		
YP	18	13	Other Mud Properties		
10 Sec GEL	4.0	4.0			
10 Min GEL	13.0	11.0			
API WL	8.8	10.0			
API FC, 32nd	3	2			
HTHP WL					
HTHP FC,32nd					
Vol % Water	92.00	92.50			
Vol % Oil	0.00	0.00			
Vol % Solids	8.00	7.50			
Vol % Sand	0.75	0.15			
MB	20.0	15.0			

Inclination Survey

MD	Angle	Azmith	Dist
6278	1.00		
5746	1.25		

Torque @	Amount	Units
DRLG	370	AMPS
Pickup	Slack Off	Units
210	200	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	859
		Hole	852
		Total	1711

*Mud Additives

N CAP	5GAL	3.00
MICA	SX 50	6.00
CEDAR FIBR	SX 30	2.00
CAUSTIC	SX 50	3.00

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls		3805
Water Permit # 000		

Bit Mfg	HUGHES	REED
Bit No/Rerun	6/	5/
Size	12.250	12.250
Bit Model	ATJ-22	HP-51A
Serial #	D-41-PL	X-30724
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		6
Bearing, 8ths		6
Guage,I/O 32nd		2
Depth Bit Run	6338	4775
Pulled		6338
Footage	118	1563
Rotary Hrs	10.00	92.25
Rotary RPM	50/ 80	65/ 80
Ave ROP	11.80	16.94
WT On Bit	45/ 65	50/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C		
FLOLINE C		325X325
CENTRIFUGE		270X270
CENTRIFUGE		250X250
CENTRIFUGE		250X250

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3497.0	5.000	19.500	G-105
2	2021.3	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	5518.3	41

Cement Company				
Cementing Obj.				
Slurry				
Class				
Sacks				
Water,GPS				
WT,PPG				
BBLS Slurry				
Add Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0016 Date: 11/23/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	530	DRILLING	
1030	330	TRIP OUT	
1400	030	RIG SERV	
1430	300	TRIP IN	
1730	130	WASH/REM	TO BTM 6248-6338
1900	1000	DRILLING	

SMAC 4
P.O. DRLG. AHEAD

* Mud Additives - Cont.

BENTONITE	SX100	10.00
BARITE	SX100	23.00

* Drilling [redacted] - Cont.
Obj Reservoir [redacted] MD [redacted]
[redacted]

end of report end of report end of report end of report

API# 43 043 30297 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drlg Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 6:30

Date: 11/22/91
Report No: 0015
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. SNOW
Air Temp,Deg F 8

Days Since Last LTA 15.0
LTA/MM/YY
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 6271
Footage SLR 291
Rotating Hours SLR 22.50
Mud WT,PPG 9.4
Hole Size,In. 12.250
Pump Pressure,PSI 2300
Circ Rate,GPM 544
Days Since Spud 14.3
Days Ahead/Behind(-) -2.5

Anlr Vel,FPM DP 107
Anlr Vel,FPM DC 128

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 11/11/91 250/ 3000
Last BOP Drill 11/19/91
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	OUT	IN
Time	1500	1400
Flowline Temp.	92	
Depth (MD)	6119	6100
Mud WT	9.4	9.3
FV	39	35
PV	10	8
YP	14	11
10 Sec GEL	4.0	4.0
10 Min GEL	12.0	11.0
API WL	9.8	10.0
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	92.50
Vol % Oil		
Vol % Solids	8.00	7.50
Vol % Sand	0.50	0.15
MB	20.0	17.5

Mud Co.	GLOBAL	
Mud PH	8.7	8.8
Akl(PF)	0.10	0.15
Akl(PM)	0.90	1.00
Akl(MF)	0.75	0.75
Chlorides	100	100
Calcium	20	20
Potassium		

Other Mud Properties

Mud Additives

N CAP	5GAL	2.00
CAUSTIC	SX 50	4.00
BENTONITE	SX100	15.00

Inclination Survey

MD	Angle	Azmth	Dist
5746	1.25		

Torque-@ DRIG. Amount 370 Units AMPS
Pickup 205 Slack Off 201 Units K-lbs

Lith	%Vol	Mud Vol@ EOP	
[redacted]		Resv Pit	
		Actv Pit	952
		Hole	822
		Total	1774

Mud Make-Up SLR Cum
Oil
Water,Bbls 3805
Water Permit # 000

Bit Mfg REED
Bit No/Rerun 5/
Size 12.250
Bit Model HP-51A
Serial # X-30724
Bit Nozzle Dia,32nd
#1/#2/#3 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 4775
Pulled
Footage 1496
Rotary Hrs 86.75
Rotary RPM 65/ 80
Ave ROP 17.24
WT On Bit 50/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen
FLOLINE C	24.00	
FLOLINE C	24.00	325X325
CENTRIFUGE	24.00	270X270
CENTRIFUGE	24.00	250X250
CENTRIFUGE	24.00	250X250

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3278.0	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Tool Joint Type

				OD(In)
1	4.5	IN	IF	5.000
2	4.5	IN	IF	5.000

Drill String Summary

	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	5330.2	39

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan

OD(In)	MD
20.000	100

Csg Actual

OD(In)	MD	PIT	LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREE UNIT - Continued -

API# 43 043 30297 00 00 Report No: 0015 Date: 11/22/91

Pump Rate		13.375	600								
Pump Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1100	DRILLING	
1600	130	REPR/CNT	REPLACE SWIVEL PACKING
1730	1130	DRILLING	
			-
			SMAC 4
			P.O. DRLG. AHEAD

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

API#	43 043 30297 00	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	5:00
St[redacted]	UT		
Co[redacted]	SUMMIT	Weather Desc.	SNOW
Drill Group	MDO	Air Temp,Deg F	24

Date:	11/21/91
Report No:	0014
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Days Since Last LTA	14.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	5980
Footage SLR	394
Rotating Hours SLR	23.00
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2300
Circ Rate,GPM	544
Days Since Spud	13.3
Days Ahead/Behind(-)	-2.0

Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	128

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		

SAFE-TOUR — Duration 5.0 min — Duration ____ min — Next BOP Test 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		94
Depth (MD)	5770	5770
Mud WT	9.4	9.4
FV	37	37
PV	7	7
YP	12	13
10 Sec GEL	4.0	4.0
10 Min GEL	13.0	15.0
API WL	10.2	10.2
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	91.50
Vol % Oil	0.00	0.00
Vol % Solids	8.00	8.50
Vol % Sand	0.15	0.50
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.8	8.8
Akl(PF)	0.10	0.10
Akl(PM)	1.00	1.00
Akl(MF)	0.75	0.70
Chlorides	100	100
Calcium	20	20
Potassium		

Other Mud Properties

Mud Additives

CAUSTIC		6.00
DRISPAC		1.00
NUT PLUG		3.00

Inclination Survey

MD	Angle	Azmith	Dist
5746	1.25		
5212	1.50		

Torque @	Amount	Units
DRLG	380	AMPS
Pickup	Back Off	Units
200	190	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	875
		Hole	805
		Total	1680

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	200	3805
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	5/
Size		12.250
Bit Model		HP-51A
Serial #		X-30724
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		4775
Pulled		
Footage		1205
Rotary Hrs		64.25
Rotary RPM		65/ 80
Ave ROP		18.75
WT On Bit		50/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3028.0	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	5080.2	38

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add Brand Amt Units Amt Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued

API# 43 043 30297 00 00 Report No: 0014 Date: 11/21/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD

[redacted]

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1030	DRILLING	
1530	030	RIG SERV	
1600	030	SURVEY	
1630	1230	DRILLING	
			SMAC 4
			P.O. DRLG. AHEAD

* Drilling Obj - Cont.
Obj Reservoir Top MD

[redacted]

end of report end of report end of report end of report

API#	43 043 30297 00 0	EUSA Supv1	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	5:00
S[redacted]	UT		
Co[redacted]	SUMMIT	Weather Desc.	
Dr[redacted]Group	MDO	Air Temp,Deg F	

ate:	11/20/91
eport No:	0013
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Days Since Last LTA	13.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	5586
Footage SLR	404
Rotating Hours SLR	21.50
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2300
Circ Rate,GPM	544
Days Since Spud	12.3
Days Ahead/Behind(-)	-2.0

Anlr Vel,FPM DP	107
Anlr Vel,FPM DC	128

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		93
Depth (MD)	5320	5320
Mud WT	9.4	9.4
FV	35	35
PV	7	7
YP	18	18
10 Sec GEL	4.0	4.0
10 Min GEL	19.0	20.0
API WL	10.2	10.0
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.00	91.75
Vol % Oil	0.00	0.00
Vol % Solids	8.00	8.25
Vol % Sand	0.25	0.75
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.8	8.8
Akl(PF)	0.10	0.15
Akl(PM)	0.80	0.90
Akl(MF)	0.60	0.70
Chlorides	100	100
Calcium	20	20
Potassium		

Other Mud Properties

*Mud Additives

BENTONITE	10.00
CAUSTIC	6.00
DRISPAC	1.00
SHRINK WRP	2.00

Inclination Survey

MD	Angle	Azmith	Dist
5212	1.50		
4730	1.50		

Torque @	Amount	Units
DRLG	1	RNDS

Pickup	Slack Off	Units
19287	184	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	870
		Hole	740
		Total	1610

Mud Make-Up SLR		Cum
Oil		
Water,Bbls	200	3605
Water Permit #	000	

Bit Mfg	REED	
Bit No/Rerun	/	5/
Size		12.250
Bit Model	HP-51A	
Serial #	X-30724	
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run		4775
Pulled		
Footage		811
Rotary Hrs		41.25
Rotary RPM		65/ 80
Ave ROP		19.66
WT On Bit		50/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Equip Type	SLR	Hrs Used Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2591.0	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	4643.2	34

Cement Company			
Cementing Obj.			
Slurry			
Class			
Sacks			
Water,GPS			
WT,PPG			
BBLS Slurry			

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0013 Date: 11/20/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD

[redacted]

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	530	DRILLING	
1030	030	SURVEY	
1100	500	DRILLING	
1600	030	RIG SERV	
1630	945	DRILLING	
0215	130	REPR/CNT	REPLACE WASHPIPE & PACKING IN SWIVEL.
0345	115	DRILLING	50/55 WOB 75/80 RPM
			SMAC 4
			P.O. DRLG. AHEAD

* Mud Additives - Cont.
SODA ASH 1.00

* Drilling Obj - Cont.
Obj Reservoir Top MD

[redacted]

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API#	43 043 30297 00	EUSA Supvl	MCPEEK
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	3:30
State	UT		
County	SUMMIT	Weather Desc.	
Drl Group	MDO	Air Temp,Deg F	

Date:	11/19/91
Report No:	0012
AFE No:	00026519
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	12.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	5182
Footage SLR	407
Rotating Hours SLR	19.75
Mud WT,PPG	9.4
Hole Size,In.	12.250
Pump Pressure,PSI	2350
Circ Rate,GPM	544
Days Since Spud	11.3
Days Ahead/Behind(-)	-1.5

Anlr Vel,FPM DP	107	
Anlr Vel,FPM DC	128	

Well Control and Safety Drill — Low / High,PSI

Last BOP Test	11/11/91	250/ 3000
Last BOP Drill	11/19/91	
Last BOP Oper		
Last Anular Test		
BOP DRILL	Duration 0.8 min	Next BOP Test
SAFE-GEN	Duration 5.0 min	11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		92
Depth (MD)	4865	4865
Mud WT	9.4	9.4
FV	33	34
PV	6	7
YP	8	8
10 Sec GEL	3.0	3.0
10 Min GEL	13.0	13.0
API WL	10.4	10.4
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.75	92.00
Vol % Oil	0.00	0.00
Vol % Solids	7.25	8.00
Vol % Sand	0.10	0.50
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.5	8.5
Akl(PF)	0.05	0.05
Akl(PM)	0.60	0.65
Akl(MF)	0.40	0.40
Chlorides	100	100
Calcium	20	20
Potassium		

Other Mud Properties

Mud Additives

BARITE	20.00
BENTONITE	35.00
N CAP	1.00

Inclination Survey

MD	Angle	Azmith	Dist
4730	1.50		

Torque @	Amount	Units
DRLG	0	RNDS
Pickup	Slack Off	Units
18783	180	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	1000
		Hole	680
		Total	1680

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	200	3405
Water Permit #	000	

Bit Mfg		REED
Bit No/Rerun	/	5/
Size		12.250
Bit Model		HP-51A
Serial #		X-30724
Bit Nozzle Dia,32nd #1/#2/#3		13/13/13
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run		4775
Pulled		
Footage		407
Rotary Hrs		19.75
Rotary RPM		65/ 80
Ave ROP		20.61
WT On Bit		50/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	2184.5	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	4236.7	31

Cement Company					
Cementing Obj.					
Slurry					
Class					
Sacks					
Water,GPS					
WT,PPG					
BBLS Slurry					
Add Brand	Amt	Units	Amt	Units	

POB					
FIN Csg PSI					
Mud Return					
Cmt Return					

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREE UNIT - Continued
API# 43 043 30297 00 00 Report No: 0012 Date: 11/19/91

Pump Rate	13.375	600	
Recip Pipe	9.625	9200	
Anulus PSI	5.500	16500	

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	115	TRIP IN	W/ BHA
0615	100	SLIP/CUT	DRLG. LINE
0715	030	RIG SERV	
0745	100	TRIP IN	"NO" TIGHT PLACES ON TIH
0845	030	REAMING	4730' TO 4775'. NO FILL
0915	1945	DRILLING	50/55 WOB 75/80 RPM
			-
			SMAC 4
			P.O. DRLG. AHEAD

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 1
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drlg Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 3:30

Date: 11/18/91
Report No: 0011
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 11.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation TRIP IN
MD @ End of Period 4775
Footage SLR 217
Rotating Hours SLR 18.50
Mud WT,PPG 9.4
Hole Size,In. 12.250
Pump Pressure,PSI 2350
Circ Rate,GPM 544
Days Since Spud 10.3
Days Ahead/Behind(-) -0.5

Anlr Vel,FPM DP 107
Anlr Vel,FPM DC 128

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill		
Last BOP Oper		
Last Anular Test		

SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		92
Depth (MD)	4655	4655
Mud WT	9.4	9.4
FV	34	34
PV	6	6
YP	10	11
10 Sec GEL	3.0	4.0
10 Min GEL	14.0	16.0
API WL	9.4	9.2
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.50	92.00
Vol % Oil	0.00	0.00
Vol % Solids	7.50	8.00
Vol % Sand	0.00	0.75
MB	15.0	15.0

Mud Co.	GLOBAL	
Mud PH	8.6	8.5
Akl(PF)	0.05	0.05
Akl(PM)	0.60	0.70
Akl(MF)	0.60	0.60
Chlorides	100	100
Calcium	40	40
Potassium		

Other Mud Properties

Mud Additives

SODA ASH	2.00
CAUSTIC	10.00
BENTONITE	5.00

Inclination Survey

MD	Angle	Azmith	Dist
4730	1.50		
4353	1.50		

Torque @	Amount	Units
DRLG	0	RNDS

Pickup	Slack Off	Units
179[illegible]	173	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	1070
		Hole	650
		Total	1720

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	300	3205
Water Permit #	000	

Bit Mfg	REED	SMITH
Bit No/Rerun	5/	4/
Size	12.250	12.250
Bit Model	HP-51A	F-2D
Serial #	X-30724	KS4518
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		4
Bearing, 8ths		3
Guage,I/O 32nd		I
Depth Bit Run	4775	3979
Pulled		4775
Footage	0	796
Rotary Hrs		53.50
Rotary RPM	65/ 80	65/ 80
Ave ROP		14.88
WT On Bit	50/ 60	45/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	65
Hrs SLR		
GPM	272	272

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	1777.4	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	3829.6	28

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREF UNIT - Continuec
API# 43 043 30297 (00 Report No: 0011 Date: 11/18/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD

Consumable	Units	SLR	EOP

Summary(K$)	Daily	Cum.
Total Drill		
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1100	DRILLING	
1600	030	RIG SERV	FUNCTION BOP'S & WORK KELLY VALVES
1630	730	DRILLING	
2400	300	TRIP OUT	PUMP PILL, DROP SURVEY, TOH FOR BIT
0300	100	REPR/CNT	REPAIR PILL PIT SUCTION LINE
0400	100	TRIP IN	

SMAC 4

* Drilling Obj - Cont.
Obj Reservoir Top MD

end of report end of report end of report end of report

API# 43 043 30297 00 C
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 2:30

Weather Desc.
Air Temp,Deg F

D e: 11/17/91
R ort No: 0010
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 10.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 4558
Footage SLR 358
Rotating Hours SLR 23.25
Mud WT,PPG 9.4
Hole Size,In. 12.250
Pump Pressure,PSI 2590
Circ Rate,GPM 586
Days Since Spud 9.3
Days Ahead/Behind(-) 0.0

Anlr Vel,FPM DP 115
Anlr Vel,FPM DC 137

Well Control and Safety Drill — Low / High,PSI
Last BOP Test 11/11/91 250/ 3000
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1330	1330
Flowline Temp.		90
Depth (MD)	4330	4330
Mud WT	9.4	9.4
FV	34	35
PV	5	6
YP	12	14
10 Sec GEL	4.0	5.0
10 Min GEL	20.0	25.0
API WL	9.6	9.4
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.75	92.00
Vol % Oil	0.00	0.00
Vol % Solids	7.25	8.00
Vol % Sand	0.10	0.75
MB	15.0	17.5

Mud Co.	GLOBAL	
Mud PH	8.7	8.5
Akl(PF)	0.10	0.05
Akl(PM)	0.60	0.60
Akl(MF)	0.60	0.50
Chlorides	100	100
Calcium	20	40
Potassium		

Other Mud Properties

*Mud Additives

BARITE	8.00
BENTONITE	10.00
CAUSTIC	10.00
CEDAR FIBR	5.00

Inclination Survey

MD	Angle	Azmith	Dist
4353	1.50		
3856	1.00		

Torque @ DRIG — Amount 0 — Units RNDS
Pickup 17370 — Slack Off 168 — Units K-lbs

Lith %Vol

Mud Vol@	EOP
Resv Pit	
Actv Pit	895
Hole	605
Total	1500

Mud Make-Up SLR — Cum
Oil
Water,Bbls 285 — 2905
Water Permit # 000

Bit Mfg SMITH
Bit No/Rerun 4/
Size 12.250
Bit Model F-2D
Serial # KS4518
Bit Nozzle Dia,32nd
#1/#2/#3 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 3979
Pulled
Footage 579
Rotary Hrs 35.00
Rotary RPM 65/ 80
Ave ROP 16.54
WT On Bit 45/ 55

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	70	70
Hrs SLR		
GPM	293	293

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	1560.4	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

Tool Joint Type — OD(In)
1 4.5 IN IF 5.000
2 4.5 IN IF 5.000

Drill String Summary

	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	3612.6	27

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan

OD(In)	MD
20.000	100

Csg Actual

OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0010 Date: 11/17/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	1100	DRILLING	
1600	030	RIG SERV	
1630	015	SURVEY	
1645	1215	DRILLING	55/60 WOB 70/80 RPM
			SMAC 4
			P.O. DRLG. AHEAD. NO PROBLEMS

* Mud Additives - Cont.		* Drilling Obj - Cont.	
LUBRA SEAL	10.00	Obj Reservoir	Top MD
MICA	5.00	[redacted]	[redacted]
N CAP	4.00		

end of report end of report end of report end of report

API# 43 043 30297 00 0
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 2:30

Date: 11/16/91
Report No: 0009
AFE No: 00026519
AFE Amt,K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 9.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 4200
Footage SLR 326
Rotating Hours SLR 17.25
Mud WT,PPG 9.3
Hole Size,In. 12.250
Pump Pressure,PSI 2590
Circ Rate,GPM 586
Days Since Spud 8.3
Days Ahead/Behind(-) 0.0

Anlr Vel,FPM DP 115
Anlr Vel,FPM DC 137

Well Control and Safety Drill
Last BOP Test 11/11/91 Low / High,PSI 250/ 3000
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1730	1730
Flowline Temp.		85
Depth (MD)	3990	3990
Mud WT	9.3	9.4
FV	33	34
PV	4	5
YP	6	7
10 Sec GEL	2.0	3.0
10 Min GEL	8.0	10.0
API WL	10.4	10.2
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	92.75	92.00
Vol % Oil	0.00	0.00
Vol % Solids	7.25	8.00
Vol % Sand	0.00	0.50
MB	12.5	12.5

Mud Co.	GLOBAL	
Mud PH	8.4	8.3
Akl(PF)	0.05	0.00
Akl(PM)	0.40	0.35
Akl(MF)	0.45	0.40
Chlorides	100	100
Calcium	40	40
Potassium		

Other Mud Properties

*Mud Additives

BARITE	30.00
BENTONITE	48.00
CAUSTIC	4.00
DRISPAC	1.00

Inclination Survey

MD	Angle	Azmith	Dist
3856	1.00		

Torque @	Amount	Units
DRLG	0	RNDS
Pickup	Slack Off	Units
16865	162	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	1025
		Hole	560
		Total	1585

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	300	2620
Water Permit #	000	

Bit Mfg	SMITH	REED
Bit No/Rerun	4/	3/
Size	12.250	12.250
Bit Model	F-2D	HP-43A
Serial #	KS4518	N-13305
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		8
Bearing, 8ths		8
Guage,I/O 32nd		4
Depth Bit Run	3979	2904
Pulled		3979
Footage	221	1075
Rotary Hrs	11.75	38.25
Rotary RPM	65/ 80	70/ 90
Ave ROP	18.81	28.10
WT On Bit	45/ 55	45/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	70	70
Hrs SLR		
GPM	293	293

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	1229.1	5.000	19.500	G-105
2	2052.2	5.000	19.500	E-75

Tool Joint Type

		OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water,GPS		
WT,PPG		
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	3281.3	24

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 0 Report No: 0009 Date: 11/16/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan 10	Intan 10	

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	030	REPR/CNT	REPAIRING STANDPIPE
0530	530	DRILLING	
1100	330	TRIP OUT	FOR BIT. TIH W/ BHA
1430	100	SLIP/CUT	DRLG. LINE
1530	015	RIG SERV	
1545	100	TRIP IN	FINISH TIH TO 3919'
1645	030	REAMING	60' O.G. HOLE
1715	1145	DRILLING	
			-
			SMAC 4
			P.O. DRLG. AHEAD. NO PROBLEMS

* Mud Additives - Cont.
N CAP 3.00

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Da[redacted] 70.00
S[redacted] UT
C[redacted]nty SUMMIT
D[redacted]Grou[redacted] MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 2:00

Weather Desc.
Air Temp,Deg F

Date: 11/15/91
Report No: 0008
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Days Since Last LTA 0.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

P[redacted]ent O[redacted]ation REPR/CNT
MD @ End of Period 3874
Footage SLR 535
Rotating Hours SLR 20.25
Mud WT,PPG 9.3
Hole Size,In. 12.250
Pump Pressure,PSI 2500
Circ Rate,GPM 586
Days Since Spud 7.3
Days Ahead/Behind(-) 0.0

Anlr Vel,FPM DP 115
Anlr Vel,FPM DC 137

Well Control and Safety Drill
Last BOP Test 11/11/91 Low / High,PSI 250/ 3000
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		92
Depth (MD)	3560	3560
Mud WT	9.2	9.3
FV	32	34
PV	4	4
YP	5	6
10 Sec GEL	2.0	3.0
10 Min GEL	7.0	8.0
API WL	12.8	12.6
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	93.25	92.50
Vol % Oil	0.00	0.00
Vol % Solids	6.75	7.50
Vol % Sand	0.00	0.50
MB	12.5	15.0

Mud Co.	GLOBAL	
Mud PH	8.4	8.4
Akl(PF)	0.05	0.05
Akl(PM)	0.20	0.20
Akl(MF)	0.40	0.40
Chlorides	100	100
Calcium	40	40
Potassium		

Other Mud Properties

Mud Additives

BENTONITE	36.00
CAUSTIC	2.00
DRISPAC	1.00
N CAP	4.00

*Inclination Survey

MD	Angle	Azmith	Dist
3856	1.00		
3356	1.50		

Torque @	Amount	Units
DRLG	0	RNDS

Pickup	Slack Off	Units
16560	155	K-lbs

Lith	%Vol

Mud Vol@	EOP
Resv Pit	
Actv Pit	1275
Hole	510
Total	1785

Mud Make-Up	SLR	Com
Oil		
Water,Bbls	330	2320
Water Permit #	000	

Bit Mfg REED
Bit No/Rerun 3/
Size 12.250
Bit Model HP-43A
Serial # N-13305
Bit Nozzle Dia,32nd
#1/#2/#3 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 2904
Pulled
Footage 970
Rotary Hrs 32.75
Rotary RPM 70/ 90
Ave ROP 29.62
WT On Bit 45/ 60

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	70	70
Hrs SLR		
GPM	293	293

Solids Control Equip	Type	SLR	Hrs Used Screen

BHA No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	2052.2	5.000	19.500	E-75
2	903.1	5.000	19.500	G-105

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	2955.3	22

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0008 Date: 11/15/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP
Obj Reservoir					
[redacted]	[redacted]				

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	130	DRILLING	
0630	030	SURVEY	
0700	930	DRILLING	
1630	015	RIG SERV	
1645	030	REPAIR	WORKON MUD PUMPS
1715	900	DRILLING	
0215	030	SURVEY	
0245	015	DRILLING	
0300	200	REPR/CNT	WAITING ON WELDER TO REPAIR HOLE IN STANDPIPE 2' BELOW RIG FLOOR

SMAC 4
ELLIS & HEMBREE INSPECTED RIG & HELD SAFETY MTGS.
P.O. WAITING ON WELDER TO WELD STANDPIPE.
NO OTHER PROBLEMS.

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Inclination Survey - Cont.

MD	Angle	Azmith	Dist
2861	2.50		

end of report end of report end of report end of report

API# 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drilling Group MDO

EUSA Supv1 MCPEEK
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 0:00

Date: 11/14/91
Report No: 0007
AFE No: 00026519
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA 7.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation SURVEY
MD @ End of Period 3339
Footage SLR 554
Rotating Hours SLR 18.50
Mud WT,PPG 9.2
Hole Size,In. 12.250
Pump Pressure,PSI 2500
Circ Rate,GPM 610
Days Since Spud 6.3
Days Ahead/Behind(-) 0.0

Anlr Vel,FPM DP 120
Anlr Vel,FPM DC 143

Well Control and Safety Drill
Last BOP Test 11/11/91 Low / High,PSI 250/ 3000
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1600	1600
Flowline Temp.		80
Depth (MD)	2904	2904
Mud WT	9.2	9.2
FV	28	28
PV	2	2
YP	2	3
10 Sec GEL	1.0	1.0
10 Min GEL	2.0	3.0
API WL	13.2	13.0
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	94.25	93.50
Vol % Oil	0.00	0.00
Vol % Solids	5.75	6.50
Vol % Sand	0.00	0.50
MB	10.0	10.0

Mud Co.	GLOBAL	
Mud PH	8.5	8.5
Akl(PF)	0.05	0.05
Akl(PM)	0.25	0.20
Akl(MF)	0.50	0.45
Chlorides	150	150
Calcium	40	60
Potassium		

Other Mud Properties

Mud Additives

BARITE	20.00
BENTONITE	11.00
N CAP	2.00
XCD POLY	1.00

Inclination Survey

MD	Angle	Azmith	Dist
2861	2.50		
2365	1.00		

Torque @	Amount	Units
DRLG	0	RNDS

Pickup	Slack Off	Units
15550	145	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	1250
		Hole	405
		Total	1655

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	640	1990
Water Permit #	000	

Bit Mfg	REED	HUGHES
Bit No/Rerun	3/	2/
Size	12.250	12.250
Bit Model	HP-43A	ATJ-11
Serial #	N-13305	H-60-PR
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	13/13/13
Bit Grade		
Teeth, 8ths		8
Bearing, 8ths		6
Guage,I/O 32nd		8
Depth Bit		
Run	2904	657
Pulled		2904
Footage	435	2247
Rotary Hrs	12.50	48.25
Rotary RPM	70/ 90	60/ 80
Ave ROP	34.80	46.57
WT On Bit	45/ 60	40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	73	73
Hrs SLR		
GPM	305	305

Solids Control Equip Type	Hrs Used SLR	Screen

BHA No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	2052.2	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	2052.2	15

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0007 Date: 11/14/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	245	DRILLING	
0745	030	RIG SERV	WORK & GREASE UPPER & LOWER KELLY VALVE
0815	145	DRILLING	
1000	030	SURVEY	
1030	130	DRILLING	
1200	130	TRIP OUT	FOR BIT
1330	130	TRIP IN	TO 2799'
1500	115	REAMING	F/ 2799' TO 2904' OF UNDERGAUGE HOLE
1615	1230	DRILLING	
0445	015	SURVEY	
			SMAC 4
			P.O. TAKING SURVEY ON WIRELINE.

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
[redacted]		[redacted]

end of report ----- end of report ----- end of report ----- end of report -----

43 043 30297 00 00

Prosp Name: STEEL CREEK
Prosp Number:
Well: STEEL CREEK UNIT
Well Number: 1
Budgeted MD,Ft.: 16500
Budgeted TVD,Ft.: 16500
Ta[redacted] Days: 70.00
St[redacted]: OT
Co[redacted]: SUMMIT
Dr[redacted] Group: MDO

EUSA Supv1: BACHMAN
EUSA Supv2:
EUSA Other:
EUSA Engin:
Resp Engin: MEDLEY
Oper Supt.: SOSSAMAN
Rig Contract: DAYWORK
Repair Ctr Hrs: 0:00

Weather Desc.:
Air Temp,Deg F:

Date: 11/13/91
Report No: 0006
AFE No: 00026519
AFE Amt,K$: [redacted]
Rig Name: NORTON NO. 9
Rig Phone: (915)688-7185
Disp Phone:
Radio Sta/Twr:

Days Since Last LTA: 6.0
LTA/MMH:
Number Accidents SLR: 0
Pollution Incidents SLR: 0

Present Operation: DRILLING
MD @ End of Period: 2785
Footage SLR: 715
Rotating Hours SLR: 22.00
Mud WT,PPG: 9.1
Hole Size,In.: 12.250
Pump Pressure,PSI: 2350
Circ Rate,GPM: 610
Days Since Spud: 5.3
Days Ahead/Behind(-): 0.0

Anlr Vel,FPM DP: 120
Anlr Vel,FPM DC: 203

Well Control and Safety Drill — Low / High,PSI
Last BOP Test: 11/11/91 — 250/ 3000
Last BOP Drill:
Last BOP Oper:
Last Anular Test:
SAFE-TOUR — Duration: 5.0 min — Next BOP Test: 11/25/91
Duration: min

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	0130	0130
Flowline Temp.		72
Depth (MD)	2690	2690
Mud WT	9.1	9.2
FV	30	30
PV	4	4
YP	4	4
10 Sec GEL	2.0	2.0
10 Min GEL	8.0	7.0
API WL	10.8	10.6
API FC, 32nd	2	2
HTHP WL		
HTHP FC,32nd		
Vol % Water	94.00	93.50
Vol % Oil	0.00	0.00
Vol % Solids	6.00	6.50
Vol % Sand	0.00	0.50
MB	12.5	15.0

Mud Co.	GLOBAL	
Mud PH	8.7	8.8
Akl(PF)	0.10	0.15
Akl(PM)	0.40	0.45
Akl(MF)	0.60	0.60
Chlorides	200	200
Calcium	80	80
Potassium		

Other Mud Properties

*Mud Additives

BARITE		12.00
BENTONITE		3.00
DRISPAC		4.00
N CAP		1.00

Inclination Survey

MD	Angle	Azmith	Dist
2365	1.00		
1867	0.25		

Torque @	Amount	Units
DRLG	360	AMPS

Pickup	Slack Off	Units
145	145	K-lbs

Lith	%Vol
[redacted]	

Mud Vol@	EOP
Resv Pit	
Actv Pit	940
Hole	375
Total	1315

Mud Make-Up	SLR	Cum
Oil		
Water,Bbls	900	1350
Water Permit #	000	

Bit Mfg: HUGHES
Bit No/Rerun: 2/
Size: 12.250
Bit Model: ATJ-11
Serial #: H-60-PR
Bit Nozzle Dia,32nd #1/#2/#3: 13/13/13
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit Run: 657
Pulled
Footage: 2128
Rotary Hrs: 42.25
Rotary RPM: 60/ 80
Ave ROP: 50.37
WT On Bit: 40/ 50

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	73	73
Hrs SLR		
GPM	305	305

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	1866.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary

	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	1866.0	14

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0006 Date: 11/13/..

Pump Rate		13.375	600										
Recip Pipe		9.625	9200										
Anulus PSI		5.500	16500										

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
[redacted]							Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	230	DRILLING	
0730	015	RIG SERV	
0745	015	DRILLING	
0800	130	SHRT TRP	15 STDS NO PROBLEMS
0930	330	DRILLING	
1300	015	SURVEY	
1315	1545	DRILLING	
			SMAC 4
			DRLG NO PROBLEMS

* Mud Additives - Cont.

XCD POLY 1.00

* Drilling Obj - Cont.

Obj Reservoir Top MD

[redacted]

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API#	43 043 30297 00 0	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	0:00
State	UT		
County	SUMMIT	Weather Desc.	
DMR Group	MDO	Air Temp,Deg F	

Date:	11/12/91	Days Since Last LTA	5.0
Report No:	0005	LTA/MMH	
AFE No:	00026519	Number Accidents SLR	0
AFE Amt,K$	[redacted]	Pollution Incidents SLR	0
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Present Operation	DRILLING	Anlr Vel,FPM DP	120
MD @ End of Period	2070	Anlr Vel,FPM DC	203
Footage SLR	1285		
Rotating Hours SLR	19.25		
Mud WT,PPG	8.9		
Hole Size,In.	12.250		
Pump Pressure,PSI	2350		
Circ Rate,GPM	610		
Days Since Spud	4.3		
Days Ahead/Behind(-)	0.0		

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill		
Last BOP Oper		
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test 11/25/91
	Duration min	

Mud Type	LSND	LSND	Mud Co.	GLOBAL	
Sampl Source	IN	OUT	Mud PH	10.6	10.6
Time	1600	1600	Akl(PF)	0.70	0.65
Flowline Temp.		70	Akl(PM)	1.90	1.90
Depth (MD)	1250	1250	Akl(MF)	1.00	1.00
Mud WT	8.7	8.8	Chlorides	200	200
FV	32	31	Calcium	120	120
PV	5	5	Potassium		
YP	7	8	Other Mud Properties		
10 Sec GEL	1.0	2.0			
10 Min GEL	6.0	8.0			
API WL	8.8	9.0			
API FC, 32nd	2.0	2.0			
HTHP WL					
HTHP FC,32nd					
Vol % Water	97.00	96.50			
Vol % Oil	0.00	0.00			
Vol % Solids	3.00	3.50			
Vol % Sand	0.25	0.75			
MB	10.0	10.0			

Mud Additives

BENTONITE		16.00
DRISPAC		8.00
SODA ASH		3.00
XCD POLY		4.00

*Inclination Survey

MD	Angle	Azmith	Dist
1867	0.25		
1370	1.00		

Torque @	Amount	Units
DRLG	320	AMPS
Pickup	Slack Off	Units
135	130	K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	870
		Hole	180
		Total	1050

Mud Make-Up SLR		Cum
Oil		
Water,Bbls	250	450
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	2/	
Size	12.250	
Bit Model	ATJ-11	
Serial #	H-60-PR	
Bit Nozzle Dia,32nd #1/#2/#3	13/13/13	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit Run	657	
Pulled		
Footage	1413	
Rotary Hrs	20.25	
Rotary RPM	60/ 80	
Ave ROP	69.78	
WT On Bit	40/ 50	

Pump.No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	73	73
Hrs SLR		
GPM	305	305

Solids Control Equip Type	Hrs Used SLR	Screen

BHA No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	1093.0	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	4.5 IN IF	

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	1093.0	8

POB						
FIN Csg PSI						
Mud Return						
Cmt Return						

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	---PPG--- PIT	LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CRE' UNIT - Continued Page 2
API# 43 043 30297 00 Report No: 0005 Date: 11/12/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	DRILLING	
0700	100	RIG SERV	& SURVEY
0800	230	DRILLING	
1030	100	REPAIR	PUMPS
1130	600	DRILLING	
1730	015	SURVEY	
1745	545	DRILLING	
2330	215	CLEAN FL	& FLY ASH EQUIP.
0145	015	SURVEY	
0200	300	DRILLING	
			-
			SMAC 4
			DRLG NO PROBLEMS

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
DKTA		15900
MRSN		16185

* Inclination Survey - Cont.

MD	Angle	Azmith	Dist
869	1.00		
615	1.00		

-----end of report-----end of report-----end of report-----end of report-----

API # 43 043 30297 00 0
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
D&P Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 0:00

Date: 11/11/91
Report No: 0004
AFE No: 00026519
AFE Amt, K$
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp, Deg F

Days Since Last LTA 4.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation DRILLING
MD @ End of Period 785
Footage SLR 128
Rotating Hours SLR 1.00
Mud WT, PPG 8.7
Hole Size, In. 12.250
Pump Pressure, PSI 2000
Circ Rate, GPM 586
Days Since Spud 3.3
Days Ahead/Behind(-) 0.0

Anlr Vel, FPM DP 0
Anlr Vel, FPM DC 137

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	11/11/91	250/ 3000
Last BOP Drill		
Last BOP Oper		
Last Anular Test		

SAFE-TOUR
Duration 5.0 min Next BOP Test
Duration min 11/25/91

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	0230	0230
Flowline Temp.		62
Depth (MD)	657	657
Mud WT	8.7	8.7
FV	28	30
PV	3	3
YP	3	5
10 Sec GEL	1.0	1.0
10 Min GEL	2.0	3.0
API WL	13.0	13.6
API FC, 32nd	2	2
HTHP WL		
HTHP FC, 32nd		
Vol % Water	97.25	97.25
Vol % Oil		
Vol % Solids	2.75	2.75
Vol % Sand	0.00	0.50
MB	10.0	10.0

Mud Co.	GLOBAL	
Mud PH	11.5	11.7
Akl(PF)	1.10	1.40
Akl(PM)	3.40	3.80
Akl(MF)	1.80	1.90
Chlorides	300	350
Calcium	100	120
Potassium		

Other Mud Properties

Mud Additives

BENTONITE	10.00
DRISPAC	8.00
SHRINK WRP	6.00
XCD POLY	3.00

Inclination Survey

MD	Angle	Azmith	Dist
615	1.00		

Torque @	Amount	Units
DRLG	320	AMPS

Pickup	Slack Off	Units
115	115	K-lbs

Lith	%Vol

Mud Vol @	EOP
Resv Pit	
Actv Pit	776
Hole	94
Total	870

Mud Make-Up	SLR	Cum
Oil		
Water, Bbls	200	200
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	2/	
Size	12.250	
Bit Model	ATJ-11	
Serial #	H-60-PR	
Bit Nozzle Dia, 32nd #1/#2/#3	13/13/13	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run		
Pulled	657	
Footage	128	
Rotary Hrs	1.00	
Rotary RPM	60/ 80	
Ave ROP	128.00	
WT On Bit	40/ 50	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	70	70
Hrs SLR		
GPM	293	293

Solids Control Hrs Used

Equip	Type	SLR	Screen

BHA

No.	Item
1	BIT
1	FLOAT SUB
1	SHOCK SUB
5	DRILL COLR
6	DRILL COLR
10	DRILL COLR
3	SPIRAL HW
1	OTIS SUB
6	SPIRAL HW

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
5	8.750	3.000	
6	7.625	3.000	
10	6.750	2.750	

Drill Pipe

Len, Ft.	OD	WT	Grade

Tool Joint Type OD(In)

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary	Total Length	Total Displ.
BHA	900.66	34.43
Drill Pipe	0.0	0

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0004 Date: 11/11/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP
[redacted]	[redacted]				

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl	[redacted]	[redacted]
Total D&C	[redacted]	[redacted]
Mud Costs	[redacted]	[redacted]
Cement Cost	[redacted]	[redacted]
Adj Fact Tan	10	Intan 10

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	445	TESTING	BOP STACK 250 & 3000 PSI
0945	730	INST EQ	RIGGING FLO-LINE & CHOKE LINES
1715	145	LDDP	& PREP TO PICK UP BHA
1900	400	PU EQUIP	BHA & TAG CMT @ 556
2300	200	TESTING	RUN PIT 10 GAL = 11# 20 GAL = 28# 30 GAL= 44# TEST CSG TO 1500 PSI OK
0100	200	DRL CMT	DRLG FLOAT COLLAR @ 571 SHOE @ 649 & DRLG TO 659
0300	100	TESTING	RE RUN PIT 10 GAL= 30# 20 GAL== 40# 30 GAL=45# MUD 8.7#/GAL HELD 45 PSI FOR 5 MIN W/ NO LOSS
0400	100	DRILLING	- SMAC 5

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API # 43 043 30297 00 00
Prosp. Name STEEL CREE
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 0:00

Date: 11/10/91
Report No: 0003
AFE No: 00026519
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp, Deg F

Days Since Last LTA 3.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation TESTING
MD @ End of Period 657
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT, PPG 8.8
Hole Size, In. 17.500
Pump Pressure, PSI 1200
Circ Rate, GPM 668
Days Since Spud 2.3
Days Ahead/Behind(-) 0.0

Anlr Vel, FPM DP 0
Anlr Vel, FPM DC 68

Well Control and Safety Drill — Low / High, PSI
Last BOP Test
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min

Mud Type	LSND	LSND
Sampl Source	IN	OUT
Time	1300	1300
Flowline Temp.		
Depth (MD)	657	657
Mud WT	8.9	
FV	29	
PV	2	
YP	6	
10 Sec GEL	4.0	
10 Min GEL	7.0	
API WL	90.0	
API FC, 32nd	6	
HTHP WL		
HTHP FC, 32nd		
Vol % Water	95.75	
Vol % Oil	0.00	
Vol % Solids	4.25	
Vol % Sand	0.00	
MB	12.5	

Mud Co. GLOBAL
Mud PH 8.5
Akl(PF) 0.05
Akl(PM) 0.10
Akl(MF) 0.40
Chlorides 100
Calcium 80
Potassium
Other Mud Properties

Mud Additives

Inclination Survey

MD	Angle	Azmith	Dist
615	1.00		

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	
		Actv Pit	890
		Hole	95
		Total	985

Mud Make-Up SLR Cum
Oil
Water, Bbls
Water Permit #

Bit Mfg
Bit No/Rerun / /
Size
Bit Model
Serial #
Bit Nozzle Dia, 32nd
#1/#2/#3
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run
Pulled
Footage
Rotary Hrs
Rotary RPM
Ave ROP
WT On Bit

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	80	80
Hrs SLR		
GPM	334	334

Solids Control Hrs Used

Equip Type	SLR	Screen

BHA

No.	Item

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)

Drill Pipe

Len, Ft.	OD	WT	Grade

Tool Joint Type OD(In)

Drill String Summary — Total Length — Total Displ.
BHA
Drill Pipe

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0003 Date: 11/10/91

Pump Rate		13.375	600								
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP
[redacted]	[redacted]				

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan 10 Intan 10		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	WOC	
0700	200	CUT CSG	BACK OUT 13.375 CSG :& CUT OFF 20" CONDUCTOR
0900	200	NIPL UP	"A" SECTION
1100	1700	NIPL UP	BOP STACK
0400	100	TESTING	BOP'S
			-
			SMAC 5
			TALKED TO JOHN BERRIER W UTAH OIL & GAS
			OF BOP TESTING & CSG TEST
			WAS UNABLE TO REACH BLM IN SALT LAKE CITY
			TALKED TO NICK HEICK IN KEMMERER DISTRICT

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 3029[illegible] 0 00	EUSA Supv1	BACHMAN	Date:	11/09/91
Prosp Name	STEEL CREEK	EUSA Supv2		Report No:	0007
Prosp Number		EUSA Other		AFE No:	00028519
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(315)999-7165
Budgeted TVD,Ft	16500	Rig Contract	DAYWORK	Disp Phone	
Target Date	70.00	Repair Ctr Hrs	0:00	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.			
Ort4 Ground	MDO	Air Temp,Deg F		Days Since Last LTA	2.2
				LTA/MMH	
Present Operation	WOC	Anlr Vel,FPM DP		Number Accidents SLR	0
MD @ End of Period	657	Anlr Vel,FPM DC		Pollution Incidents SLR	0
Footage SLR	657				
Rotating Hours SLR	8.75	Well Control and Safety Drill		Low / High,PSI	
Mud WT,PPG	8.8	Last BOP Test			
Hole Size,In.	17.500	Last BOP Drill			
Pump Pressure,PSI		Last BOP Oper			
Circ Rate,SPM		Last Anular Test			
Days Since Spud	1.3	SAFE-TOUR	Duration 5.0 min	Next BOP Test	
Days Ahead/Behind(-)	0.0		Duration min		

Mud Type	SND	LSND	Mud Co.		SLOBAL	*Inclination Survey	
Sampl Source	IN	OUT	Mud PH	8.5	8.5	MD Angle	Azmith Dist
Time	1300	1300	Akl(PF)	0.05	0.05	615 1.00	
Flouline Temp.		88	Akl(PM)	0.10	0.10	463 0.75	
Depth (MD)	620	620	Akl(MF)	0.35	0.15		
Mud WT	8.5	8.8	Chlorides	100	100	Torque @	Amount Units
FV	28	28	Calcium	80	80		
PV	7	7	Potassium			Pickup	Slack Off Units
YP	4	4	Other Mud Properties				K-lbs
10 Sec GEL	2.0	2.0					
10 Min GEL	3.0	4.0				Lith %Vol	Mud Vol@ EOP
API WL							Resv Pit
API FC, 32nd	6	6					Actv Pit 825
HTHP WL							Hole 160
HTHP FC,32nd							Total 985
Vol % Water	95.50	95.00	Mud Additives				
Vol % Oil			MICA		2.00	Mud Make-Up SLR	Cum
Vol % Solids	4.50	5.00	CEDAR FIBR		1.00	Oil	
Vol % Sand	0.00	0.50	CAUSTIC		2.00	Water,Bbls	
MB			BENTONITE		25.00	Water Permit #	

Bit Mfg	SMITH	Pump No.		Solids Control Hrs Used	
Bit No/Rerun	/ 1/	Stroke		Equip Type	SLR Screen
Size	17.500	Liner			
Bit Model	SDT	SPM			
Serial #	XJ-7902	Hrs SLR			
Bit Nozzle Dia,32nd		GPM			
#1/#2/#3	16/16/16				
Bit Grade					
Teeth, 8ths	8				
Bearing, 8ths	8				
Guage,1/0 32nd	1				
Depth Bit					
Run	0				
Pulled	657				
Footage	657				
Rotary Hrs	18.75				
Rotary RPM	45/ 75				
Ave ROP	35.2				
WT On Bit	25/ 50				

BHA No.	Item	Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	BIT	2	14.000	3.000	
1	SHOCK SUB	5	9.000	2.500	
2	DRILL COLR	1	9.000	2.500	
1	CROSS-OVER				
3	DRILL COLR				
1	DRILL COLR				
	HVY WT DP				

Drill Pipe	Len,Ft.	OD	WT	Grade

Tool Joint Type	OD(In)

Cement Company	DOWELL
Cementing Obj.	CASING
Slurry	LEAD
Class	CLASS G
Sacks	725
Water,GPS	5.00
WT,PPG	15.5
BBLS Slurry	148

*Add Brand	Amt	Units	Amt	Units
D- 29	.25	LB/SK		
D-77 CAOL	2	VOL%		

Drill String Summary	Total Length	Total Displ.
BHA	245.63	22.49
Drill Pipe	0.0	0

POB	0025										
FIN Csg PSI	300	Csg Plan		Csg Actual		---PPG---		Mudlogger Report			
Mud Return	FULL	OD(In)	MD	OD(In)	MD	PIT	LOT	Gas	Units	MD	Chlori
Cmt Return	10	20.000	133	13.375	649						

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0002 Date: 11/30/91

Pump Rate	8.00	13.375	800						
Recip Pips		9.625	9200						
Anulus PSI		5.500	15500						

#Drilling Obj.	Top	Consumable	Units	SLR	ROP	Summary(K$)	Daily	Cum.
Obj Reservoir	MD					Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C	[redacted]	[redacted]
						Mud Costs	[redacted]	[redacted]
						Cement Cost	[redacted]	[redacted]
						Adj Fact Tan 10	Intan 10	

_ Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	345	DRILLING	FINISH 17.5" SURFACE HOLE (687 FT)
1345	100	CIRCULAT	& COND. HOLE FOR CSG
1445	100	TRIP OUT	TO RUN CSG
1545	215	LDDC	14" BHA
1800	100	RIG UP	CSG CREW
1900	200	RUN CSNG	RUN 196JTS 13.375"68# K-55 BTC CSG & SET @ 849'KB
2100	100	CIRCULAT	& WASHING LAST 30 FT TO BTM
2200	200	CEMENTING	W/ 725 SX CLASS G W/ 2% CACL & .25#/SX D-29
			CIRC 18 BBLS GOOD CMT TO SURFACE, BUMPED PLUG
0100	400	WOC	PREP TO NIPPLE UP BOP'S
			-
			SMAC 5

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Cement Top Depth 0
DV Tool Depth
Top FC Depth
Bumped Plug (Y/N) Y
Pressure Over 1000
BP Valves Held (Y/N) Y

* Inclination Survey - Cont.

MD	Angle	Azmith	Dist
279	0.25		

-----end of report-----end of report-----end of report-----end of report-----

API# 43 047 [illegible] 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Suggested MD,Ft. [illegible]
Suggested TVD,Ft. [illegible]
Target Days 70.00
State UT
County SUMMIT
Drill Group MDD

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin
Resp Engin MERLAY
Oper Supt. BOSSERMAN
Rig Contract [illegible]
Repair Ctr Hrs [illegible]

Date: 11/08/[illegible]
Report No: [illegible]
AFE No: [illegible]
AFE Amt,K$ [illegible]
Rig Name NORTON NO. [illegible]
Rig Phone [illegible]
Disp Phone
Radio Sta/Twr

Weather Desc.
Air Temp,Deg F

Days Since Last LTA [illegible]
LTA/MMM
Number Accidents SLR [illegible]
Pollution Incidents SLR [illegible]

Present Operation DRILL/BHA
MD @ End of Period [illegible]
Footage SLR [illegible]
Rotating Hours SLR [illegible]
Mud WT,PPG [illegible]
Hole Size,In. [illegible]
Pump Pressure,PSI [illegible]
Circ Rate,GPM [illegible]
Days Since Spud [illegible]
Days Ahead/Behind(-) [illegible]

Anlr Vel,FPM DP [illegible]
Anlr Vel,FPM DC [illegible]

Well Control and Safety Drill — Low / High,PSI
Last BOP Test
Last BOP Drill
Last BOP Oper
Last Anular Test
SAFE-TOUR Duration [illegible] min Next BOP Test
Duration min

Mud Type LSND SPUD
Sampl Source OUT [illegible]
Time [illegible] [illegible]
Flowline Temp.
Depth (MD) [illegible] [illegible]
Mud WT [illegible]
FV [illegible]
PV [illegible]
YP [illegible]
10 Sec GEL [illegible]
10 Min GEL [illegible]
API WL
API FC, 32nd
HTHP WL
HTHP FC,32nd
Vol % Water 99.50
Vol % Oil
Vol % Solids 0.50
Vol % Sand 0.00
MB [illegible]

Mud Co. GLOBAL
Mud PH [illegible]
Akl(PF) 0.00
Akl(PM) 0.00
Akl(MF) 0.00
Chlorides 100
Calcium 80
Potassium
Other Mud Properties

Mud Additives
SHRINK WRP 12.00

Inclination Survey

MD	Angle	Azmith	Dist
[illegible]	0.25		
[illegible]	[illegible]		

Torque @ Amount Units
DRLG [illegible] AMPS
Pickup Slack Off Units
96 87 K-lbs

Lith %Vol

Mud Vol@ EOP
Resv Pit
Actv Pit 500
Hole
Total 500

Mud Make-Up SLR Cum
Oil
Water,Bbls
Water Permit #

Bit Mfg SMITH
Bit No/Rerun [illegible]
Size 17.500
Bit Model SDT
Serial # [illegible]
Bit Nozzle Dia,32nd
#1/#2/#3 16/16/16
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,1/0 32nd
Depth Bit
Run
Pulled 0
Footage [illegible]
Rotary Hrs [illegible]
Rotary RPM [illegible]
Ave ROP [illegible]
WT On Bit [illegible]

Pump No. 1 2
Stroke 10.0 10.0
Liner [illegible]
SPM 80 80
Hrs SLR
GPM 334 334

Solids Control Hrs Used
Equip Type SLR Screen

BHA
No. Item
1 BIT
1 REVOLVER SUB
1 DRILL COLLAR
1 CROSS-OVER
1 DRILL COLLAR
1 DRILL COLLAR
HVY WT DP

Drill Collars
No. OD(In) ID(In) Tool Jnt Size(OD)
2 14.000 3.000
1 9.000 2.500
1 8.000 2.500

Drill Pipe
Len,Ft. OD WT Grade

Tool Joint Type OD(In)

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary — Total Length — Total Displ.
BHA 245.83 22.49
Drill Pipe 0.0 0

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan
OD(In) MD
20.000 100

Csg Actual ---PPG---
OD(In) MD PIT LOT

Mudlogger Report
Gas Units MD Chlori

Well Name [illegible] - Continued Page [illegible]
API# [illegible] Report No: [illegible] Date: [illegible]

Pump Rate		13.375	500								
Recip Pipe		[illegible]	[illegible]								
Anulus PSI		[illegible]	15500								

Drilling Obj. Top | Consumable Units SLR EOP

Obj Reservoir MD

[redacted]

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl	[redacted]	[redacted]
Total D&C	[redacted]	[redacted]
Mud Costs	[redacted]	[redacted]
Cement Cost	[redacted]	[redacted]

Adj Fact Tan [illegible] Intan [illegible]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
[illegible]	[illegible]	SPUD/DRL	[illegible]
[illegible]	[illegible]	DRL/BHP	

SNEC 1
NOTIFIED LEON JEREGREN W/ BLM OF SPUD
NOTIFIED CAROLYN WILLIAMS W/ UTAH OIL & GAS
NOTIFIED BOB ODEN W/FOREST SERVICE OF SPUD
@ 10:30 AM 11/07/91
MUD ON REPORT IS WATER TO BE USED TO SPUD

+ Mud Properties - Cont.

Mud Type LSND
Source [illegible]
Time [illegible]
Flowline Temp.
Depth (MD) 126
Mud Wt.
PV
YP
10 Sec Gel
10 Min Gel
30 Min Gel
API WL
API FC 32nd
HTHP WL
HTHP FC 32nd
Vol % Water
Vol % Oil
Vol % Solids
Vol % Sand
MBT
Mud (PH)
Alk (PF)
Alk (PM)
Alk (MF)
Chlorides
Calcium
Potassium
Lime PPB
LCM PPB
Sol. Volts

+ Drilling Obj - Cont.

Obj Reservoir Top MD

[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30257 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MCC

EUSA Supv1 BACHMAN
EUSA Supv2
EUSA Other
EUSA Engin MEDLEY
Resp Engin MEDLEY
Oper Supt. SUSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 0:00

Weather Desc.
Air Temp,Deg F

Date: 11/07/91
Report No: 001
AFE No: 0092
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 5
Rig Phone (915)588-7135
Disp Phone
Radio Sta/Tur

Days Since Last LTA 1.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation RIG UP
MD @ End of Period 0
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT,PPG 8.3
Hole Size,In. 0.000
Pump Pressure,PSI
Circ Rate,GPM 0
Days Since Spud
Days Ahead/Behind(-) 0.0

Anlr Vel,FPM DP 0
Anlr Vel,FPM DC 0

Well Control and Safety Drill — Low / High,PSI
Last BOP Test
Last BOP Drill
Last BOP Oper
Last Anular Test
Duration min Next BOP Test
Duration min

Mud Type
Sampl Source
Time
Flowline Temp.
Depth (MD)
Mud WT
FV
PV
YP
10 Sec GEL
10 Min GEL
API WL
API FC, 32nd
HTHP WL
HTHP FC,32nd
Vol % Water
Vol % Oil
Vol % Solids
Vol % Sand
MB

Mud Co.
Mud PH
Akl(PF)
Akl(PM)
Akl(MF)
Chlorides
Calcium
Potassium
Other Mud Properties

Mud Additives

Inclination Survey
MD Angle Azmith Dist

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith %Vol
Mud Vol@ EOP
Resv Pit
Actv Pit
Hole
Total

Mud Make-Up SLR Cum
Oil
Water,Bbls
Water Permit #

Bit Mfg
Bit No/Rerun / /
Size
Bit Model
Serial #
Bit Nozzle Dia,32nd
#1/#2/#3
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run
Pulled
Footage
Rotary Hrs
Rotary RPM
Ave ROP
WT On Bit

Pump No. 1 2
Stroke 10.0 10.0
Liner 6.5 6.5
SPM
Hrs SLR
GPM

Solids Control Hrs Used
Equip Type SLR Screen

BHA
No. Item

Drill Collars
No. OD(In) ID(In) Tool Jnt Size(OD)

Drill Pipe
Len,Ft. OD WT Grade

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Tool Joint Type OD(In)

Drill String Summary — Total Length — Total Displ.
BHA
Drill Pipe 0.0 0

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan
OD(In) MD

Csg Actual ---PPG---
OD(In) MD PIT LOT

Mudlogger Report
Gas Units MD Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 045 30257 00 00 Report No: 0001 Date: 11/27/81

Pump Rate		3.375	600								
Recip Pipe		5.875	9200								
Anulus PSI		5.500	16500								

Drilling Obj.	Top MD	Consumable	Units	SLR	EOP
Obj Reservoir					
[redacted]	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				
[redacted]	[redacted]				

Summary(K$)	Daily	Cum.
Total Drill		0.0
Total Compl		0.0
Total D&C		0.0
Mud Costs		0.0
Cement Cost		0.0
Adj Fact Tan 10	Intan 10	

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	2400	RIG UP	SOLIDS CONTROL EQUIP.
			-
			SMAC 4
[redacted]		[redacted]	
[redacted]		[redacted]	

-----end of report-----end of report-----end of report-----end of report-----

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☒ Other LEACHATE TEST RESULTS	

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

13. 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.)*

ATTACHED ARE THE FIRST 3 LEACHATE TESTS RECEIVED ON THE SOLIDIFIED OBM CUTTINGS FROM THE SUBJECT WELL. TO DATE THERE ARE 11 MORE TESTS IN THE PROCESS OF BEING RUN. RESULTS OF THESE TESTS WILL BE SUBMITTED WHEN RECEIVED.

RECEIVED
JAN 27 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 01/20/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. X 3258 • CASPER, WY 82602 • PH E (307) 235-0515
254 . JRTH CENTER, SUITE 100 • CASPER, . _ 82601 • FAX (307) 234-1639

LABORATORY REPORT

Lab. No. 91-0155

Report Date: 01-15-92

To: Exxon USA
Address: P.O.Box 230
Midland, TX 79702

SPECIAL EPA-TYPE WATER ANALYSIS

Sample I.D.: Steel Creek - Unit 1
Date Sampled: 01-06-92
Sample Submitted: 01-08-92

Oil & Grease ---------- 18 mg/l in leachate

Comments:

State of Louisiana #29-B Leachate testing. 24 hours test.

Q.A. MANAGER: R.O. Gearing
Energy Laboratories, Inc.
Casper, WY 82601

RECEIVED
JAN 27 1992
DIVISION OF
OIL GAS & MINING

ENERGY LABORATORIES, INC.
P.O. BOX 3258 • CASPER, WY 82602 • PHONE (307) 235-0515
254 NORTH CENTER, SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639

LABORATORY REPORT

Lab. No. 91-47204

Report Date: 01-14-92

To: Exxon USA
Address: P.O.Box 230
Midland, TX 79702

SPECIAL EPA-TYPE WATER ANALYSIS

Sample I.D.: Steel Creek - Unit 1
Date Sampled: 12-17-91
Sample Submitted: 12-18-91

Oil & Grease ---------- <1 mg/l in leachate

pH ---------- 11.40 (units)

Comments:

State of Louisiana #29-B Leachate testing. 24 hours test.

Q.A. MANAGER: R.A. Gearing
Energy Laboratories, Inc.
Casper, WY 82601

RECEIVED
JAN 27 1992
DIVISION OF
OIL GAS & MINING

ENERGY LABORATORIES

ENERGY LABORATORIES, INC.
P.O. BOX 3258 • CASPER, WY 82602 • PHONE (307) 235-0515
25 NORTH CENTER, SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639

LABORATORY REPORT

Lab. No. 91-47205

Report Date: 01-14-92

To: Exxon USA
Address: P.O.Box 230
Midland, TX 79702

SPECIAL EPA-TYPE WATER ANALYSIS

Sample I.D.: Steel Creek - Unit 2
Date Sampled: 12-17-91
Sample Submitted: 12-18-91

Oil & Grease ---------- 93 mg/l in leachate

pH ---------- 11.0 (units)

Comments:

State of Louisiana #29-B Leachate testing. 24 hours test.

Q.A. MANAGER: R.A. Lanting
Energy Laboratories, Inc.
Casper, WY 82601

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other LEACHATE TEST RESULTS	

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

13. 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.)*

ATTACHED ARE THE RESULTS OF 10 MORE LEACHATE TESTS RUN ON SOLIDIFIED OBM CUTTINGS FOR THE SUBJECT WELL.

RECEIVED
JAN 27 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 01/24/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

ENERGY LABORATORIES, INC.
P.O. BOX 3258 • CASPER, WY 82602 • PHONE (307) 235-0515
254 NORTH CENTER, SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639

WATER ANALYSIS REPORT - EXXON CO.

Project: Steel Creek Unit #1

Sample I.D.:	#1	#2	#3	#4	#5	
Sample Date:	01-07-92	01-07-92	01-07-92	01-07-92	01-07-92	
Report Date:	01-21-92	01-21-92	01-21-92	01-21-92	01-21-92	
Lab I.D. #:	92-0215	92-0216	92-0217	92-0218	92-0219	Det.Limit
Oil & Grease, mg/l *	17	<1	<1	9	<1	1

Sample I.D.:	#6	#7	#8	#9	#10	
Sample Date:	01-07-92	01-07-92	01-07-92	01-07-92	01-07-92	
Report Date:	01-21-92	01-21-92	01-21-92	01-21-92	01-21-92	
Lab I.D. #:	92-0220	92-0221	92-0222	92-0223	92-0224	Det.Limit
Oil & Grease, mg/l *	13	<1	1	119	<1	1

* Oil & Grease in Leachate

Comments: State of Louisiana #29-B Leachate test. 24 hour test.

Q.A. MANAGER:
Energy Laboratories, Inc.
Casper, WY 82601

Post-it™ brand fax transmittal memo 7671 | # of pages ▸ 1

To David Murry	From Kathy
Co. Exxon	Co. Energy Lab
Dept.	Phone #
Fax #	Fax #

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

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SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

8. Well Name and No.
STEEL CREEK UNIT 1

9. API Well No.
4304330297

10. Field and Pool, or Exploratory Area
WILDCAT

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other DAILY DRILLING REPORTS	

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

13. 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.)*

ATTACHED ARE THE DAILY DRILLING REPORTS FROM 1-14-92 THROUGH 1-20-92.

RECEIVED
JAN 27 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 01/24/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

GENERAL INSTRUCTIONS

This form is for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any 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.

SPECIFIC INSTRUCTIONS

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 or Federal office for specific instructions.

Item 13-Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq, 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 2024, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

*U.S. GPO: 1990-773-016/06059

API#	43 043 30297 00 2	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	MC LAIN
Prosp Number		EUSA Other	ALLISON
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	13:15
State	UT		
County	SUMMIT		
Drill Group	MDO		

Date:	01/20/92
Report No:	0074
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	CLR
Air Temp, Deg F	-15
Anlr Vel, FPM DP	173
Anlr Vel, FPM DC	307

Days Since Last LTA	74.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	BOP T/DR
MD @ End of Period	16308
Footage SLR	115
Rotating Hours SLR	9.50
Mud WT, PPG	9.9
Hole Size, In.	8.500
Pump Pressure, PSI	2000
Circ Rate, GPM	334
Days Since Spud	73.3
Days Ahead/Behind(-)	-6.0

Well Control and Safety Drill		Low / High, PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
Duration	min	Next BOP Test
Duration	min	02/03/92

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1300	1300
Flowline Temp.	96	
Depth (MD)	16308	16308
Mud WT	9.9	9.8
FV	47	48
PV	8	8
YP	18	18
10 Sec GEL	12.0	12.0
10 Min GEL	22.0	21.0
API WL		
API FC, 32nd		
HTHP WL		12.4
HTHP FC, 32nd		3
Vol % Water	16.00	16.00
Vol % Oil	70.00	70.00
Vol % Solids	15.00	15.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	0.70	0.80
Akl(MF)		
Chlorides	305600	305600
Calcium	24000	24000
Potassium		

Other Mud Properties			
AWS	%RH	0.00	0.00
AWM	%RH	0.00	0.60
O/W RATIO	%	81.0	19.0

*Mud Additives		
BARITE	SX100	80.00
CEDAR FIBR	SX 30	15.00
CS 38H	SX 40	10.00
CS TONE	SX 50	12.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	125
		Actv Pit	684
		Hole	1036
		Total	1845

Mud Make-Up SLR		Cum
Oil		2746
Water, Bbls		4855
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	28/
Size		8.500
Bit Model		ATJ-44C
Serial #		E-75-PJ
Bit Nozzle Dia, 32nd #1/#2/#3		11/11/12
Bit Grade		
Teeth, 8ths		2
Bearing, 8ths		2
Guage, I/O 32nd		1
Depth Bit Run		16163
Pulled		16308
Footage		145
Rotary Hrs		12.00
Rotary RPM		50/ 80
Ave ROP		12.08
WT On Bit		10/ 40

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	80	
Hrs SLR		
GPM	334	

Solids Control Equip Type	Hrs Used SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA No.	Item
1	BIT
1	BITSUB
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
20	6.750	2.750	

Drill Pipe	Len, Ft.	OD	WT	Grade
1	3265.1	5.000	25.600	X-95
2	9055.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	909.34	26.71
Drill Pipe	15181.1	120

Cement Company			
Cementing Obj.			
Slurry			
Class			
Sacks			
Water, GPS			
WT, PPG			
BBLS Slurry			
Add Brand	Amt	Units	Amt Units

JAN 20 92

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CRE. UNIT - Continued - Page 2
API# 43 043 30297 00 00 Report No: 0074 Date: 01/20/92

Pump Rate		13.375	600	9.625	9275		
Recip Pipe		9.625	9200				
Anulus PSI		5.500	16500				

*Drilling Obj. Top
Obj Reservoir MD

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill		
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan		

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
01/20/92	0100	153.0	152.0	32.0	28.0	185.0	180.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	530	DRILLING	
1030	030	RIG SERV	FUNCTION BOP.
1100	400	DRILLING	TO CORE POINT 16308'.
1500	200	CIRCULAT	FOR SAMPLE.
1700	500	TRIP OUT	TIGHT SPOT @ 16032' PULL TO HWDP.
2200	400	CK EQUIP	INSPECT BHA LAY DOWN 1 JT OF HWDP.
0200	300	BOP T/DR	TEST BOPS

NOTIFIED ROBERT HENRICKS W/ BLM & JOHN BARRIER
W/ UTAH OIL & GAS OF UPCOMING BOP TEST.
1130 HRS 1-19-92

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 95 BBLS.
TOTAL CUM. LOST 3648 BBLS.
P.O: TESTING B.O.P.'S

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	0.9	1.0
LCM, PPB		
ES, Volts	623	616

* Drilling Obj - Cont.

Obj Reservoir	Top MD

* Mud Additives - Cont.

G. SORB	SX 50	5.00
LUBRA SEAL	SX 50	20.00
MICA	SX 50	20.00

-----end of report-----end of report-----end of report-----end of report-----

API #	43 043 30297 00 00	EUSA Supv1	BACHMAN
Prosp Name	STEEL CREEK	EUSA Supv2	MC LAIN
Prosp Number		EUSA Other	ALLISON
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	13:15
State	UT		
County	SUMMIT	Weather Desc.	CLR
Dril Group	MDO	Air Temp, Deg F	-5

Date:	01/19/92
Report No:	0073
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Days Since Last LTA	73.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	DRILLING
MD @ End of Period	16193
Footage SLR	30
Rotating Hours SLR	2.50
Mud WT, PPG	9.9
Hole Size, In.	8.500
Pump Pressure, PSI	2000
Circ Rate, GPM	334
Days Since Spud	72.3
Days Ahead/Behind(-)	-6.0

Anlr Vel, FPM DP	173
Anlr Vel, FPM DC	307

Well Control and Safety-Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	2100	2100
Flowline Temp.	94	
Depth (MD)	16163	16163
Mud WT	9.8	9.9
FV	47	48
PV	8	8
YP	17	18
10 Sec GEL	12.0	13.0
10 Min GEL	22.0	24.0
API WL		
API FC, 32nd		
HTHP WL		12.4
HTHP FC, 32nd		
Vol % Water	15.50	16.00
Vol % Oil	70.50	70.00
Vol % Solids	14.00	14.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	0.90	1.00
Akl(MF)		
Chlorides	307600	305600
Calcium	24000	24000
Potassium		
Other Mud Properties		
AWS %RH	0.00	0.00
AWM %RH	0.00	0.59
O/W RATIO %	81.0	19.0

*Mud Additives

CA CL WATR	BBL.	35.00
CS 38H	SX 40	16.00
CS TONE	SX 50	8.00
CS-II	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	320	AMPS
Pickup	Slack Off	Units
37862	347	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	200
		Actv Pit	715
		Hole	1025
		Total	1940

Mud Make-Up	SLR	Cum
Oil	150	2746
Water, Bbls		4855
Water Permit #	000	

Bit Mfg	HUGHES
Bit No/Rerun	28/
Size	8.500
Bit Model	ATJ-44C
Serial #	E-75-PJ
Bit Nozzle Dia, 32nd #1/#2/#3	
	11/11/12
Bit Grade	
Teeth, 8ths	
Bearing, 8ths	
Guage, I/O 32nd	
Depth Bit Run	
Pulled	16163
Footage	30
Rotary Hrs	2.50
Rotary RPM	50/ 80
Ave ROP	12.00
WT On Bit	10/ 40

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	80	
Hrs SLR		
GPM	334	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	BITSUB
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	9055.1	5.000	19.500	G-105
3	3265.1	5.000	25.600	X-95

Tool Joint

	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	909.34	26.71
Drill Pipe	15181.1	120

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add Brand Amt Units Amt Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]	[redacted]	[redacted]	

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0073 Date: 01/19/92

Pump Rate		13.375	600	9.625	9275			[redacted]		[redacted]	
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl	[redacted]	[redacted]
						Total D&C	[redacted]	[redacted]
						Mud Costs	[redacted]	[redacted]
						Cement Cost	[redacted]	[redacted]
						Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	500	CIRCULAT	AT SHOE SMOOTHING OUT MUD WT THRU SYSTEM.
1000	030	TRIP IN	TO 11470'.
1030	330	CIRCULAT	AND RIG SERVICE.
1400	030	TRIP IN	TO 13720'.
1430	230	CIRCULAT	
1700	030	TRIP IN	TO 15964'. FUNCTION BOP.
1730	230	CIRCULAT	
2000	630	WASH/REM	FROM 15964' TO 16163'.
0230	230	DRILLING	

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. +26 BBLS.
TOTAL CUM. LOST 3553 BBLS.
P.O. DRILLING NO PROBLEMS

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.2	1.3
LCM, PPB		
ES, Volts	628	617

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-33	DRM.	1.00
ESCAID 110	BBLS	150.00
LIME	SX 50	10.00
LUBRA SEAL	SX 50	12.00
MICA	SX 50	12.00

-----end of report-----end of report-----end of report-----end of report-----

JOE GLASS

API # 43 043 30297 00 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2 MC LAIN
EUSA Other ALLISON
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 13:15

Date: 01/18/92
Report No: 0072
AFE No: 9770075
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLR
Air Temp, Deg F -20

Days Since Last LTA 72.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation CIRCULAT
MD @ End of Period 16163
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT, PPG 10.4
Hole Size, In. 8.500
Pump Pressure, PSI 1700
Circ Rate, GPM 284
Days Since Spud 71.3
Days Ahead/Behind(-) -5.0

Anlr Vel, FPM DP 147
Anlr Vel, FPM DC 261

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1300	1300
Flowline Temp.		
Depth (MD)	16163	16163
Mud WT		10.4
FV		48
PV		8
YP		19
10 Sec GEL		13.0
10 Min GEL		25.0
API WL		
API FC, 32nd		
HTHP WL		13.2
HTHP FC, 32nd		3
Vol % Water		14.50
Vol % Oil		69.00
Vol % Solids		16.50
Vol % Sand		
MB		

Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM) 1.00
Akl(MF)
Chlorides 341300
Calcium 25600
Potassium

Other Mud Properties

AWS	%RH	0.00	0.00
AWM	%RH	0.00	0.00
O/W RATIO	%	83.0	17.0

*Mud Additives

BARITE	SX100	485.00
CALCIUM CL	SX 80	50.00
CS 38H	SX 40	6.00
CS TONE	SX 50	55.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith	%Vol

Mud Vol@	EOP
Resv Pit	200
Actv Pit	500
Hole	1025
Total	1725

Mud Make-Up

SLR	Cum
Oil 180	2596
Water, Bbls 35	4855
Water Permit # 000	

Bit Mfg HUGHES
Bit No/Rerun /
Size 28/ 8.500
Bit Model ATJ-44C
Serial # E-75-PJ
Bit Nozzle Dia, 32nd #1/#2/#3
Bit Grade 11/11/12
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run
Pulled 16163
Footage 0
Rotary Hrs
Rotary RPM 50/ 80
Ave ROP
WT On Bit 10/ 40

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	68	
Hrs SLR		
GPM	284	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	1.00	325X325
CENTRIFUGE	1.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	BITSUB
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	3265.1	5.000	25.600	X-95
2	8992.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary

	Total Length	Total Displ.
BHA	909.34	26.71
Drill Pipe	15118.1	120

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori

Well Name STEEL CRE. UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0072 Date: 01/18/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C	[redacted]	[redacted]
						Mud Costs	[redacted]	[redacted]
						Cement Cost	[redacted]	[redacted]
						Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	630	WASH/REM	FROM 16016' TO 16101'. LOST ALL RETURNS.
1130	030	TRIP OUT	WITH 6 STDS DP.
1200	200	LOST CIR	MIX LCM WORK PIPE.
1400	030	TRIP OUT	PULL 10 STDS DRILL.
1430	200	REPR/CNT	BROKE DRILL PIPE SLIPS W/O NEW SET.
1630	230	TRIP OUT	PULL INTO CSGN.
1900	900	BLD VOL	
0400	100	CIRCULAT	AT CSG SHOE SMOOTHING OUT MUD SYSTEM
			TOOK 14 BBLS TO FILL DP & 31 BBL TO CIRC HOLE
			SMAC 3
			TOTAL ESCAID MUD LOST LAST 24 HRS. 246 BBLS.
			TOTAL CUM. LOST 3579 BBLS.
			P.O. CIRC MUD AT CSG SHOE TO SMOOTH OUT MUD

* Mud Properties - Cont.

Source	IN
30 Min GEL	
Lime, PPB	1.3
LCM, PPB	
ES, Volts	482

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-11	DRM.	2.00
CS-33	DRM.	1.00
ESCAID 110	BBLS	180.00
G. SORB	SX 50	5.00
LIME	SX 50	10.00
LUBRA SEAL	SX 30	100.00
MICA	SX 50	122.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drill Group	MDO

EUSA Supv1	BACHMAN
EUSA Supv2	MC LAIN
EUSA Other	ALLISON
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	11:15

Date:	01/17/92
Report No:	0071
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	SNOW
Air Temp, Deg F	15
Anlr Vel, FPM DP	147
Anlr Vel, FPM DC	261

Days Since Last LTA	71.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	WASH/REM
MD @ End of Period	16163
Footage SLR	0
Rotating Hours SLR	0.0
Mud WT, PPG	10.2
Hole Size, In.	8.500
Pump Pressure, PSI	1700
Circ Rate, GPM	284
Days Since Spud	70.3
Days Ahead/Behind(-)	-4.0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1400	1400
Flowline Temp.	90	
Depth (MD)	16163	16163
Mud WT	10.0	10.0
FV	46	47
PV	8	8
YP	18	19
10 Sec GEL	12.0	12.0
10 Min GEL	26.0	25.0
API WL		
API FC, 32nd		
HTHP WL		12.8
HTHP FC, 32nd		3
Vol % Water	14.50	15.00
Vol % Oil	70.50	70.00
Vol % Solids	15.00	15.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.10	1.10
Akl(MF)		
Chlorides	341300	333700
Calcium	25600	25200
Potassium		
Other Mud Properties		
AWS	%RH 0.00	0.00
AWM	%RH 0.56	0.00
O/W RATIO	% 82.0	18.0

*Mud Additives

BARITE	SX100	140.00
CS 38H	SX 40	2.00
CS TONE	SX 50	7.00
G. SORB	SX 50	5.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
REAM	300	AMPS
Pickup	Slack Off	Units
37762	352	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	25
		Actv Pit	665
		Hole	1025
		Total	1715

Mud Make-Up	SLR	Cum
Oil		2416
Water, Bbls		4820
Water Permit #	000	

Bit Mfg	HUGHES	DIA BOART
Bit No/Rerun	28/	27/
Size	8.500	8.500
Bit Model	ATJ-44C	CMD 256
Serial #	E-75-PJ	5910593
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/12	/ /
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit Run	16163	16105
Pulled		16163
Footage	0	58
Rotary Hrs		11.75
Rotary RPM	50/ 80	65/ 65
Ave ROP		4.94
WT On Bit	10/ 40	15/ 18

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	68	
Hrs SLR		
GPM	284	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	BITSUB
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
20	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	8992.1	5.000	19.500	G-105
3	3265.1	5.000	25.600	X-95

	Tool Joint Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	909.34	26.71
Drill Pipe	15118.1	120

Cement Company
Cementing Obj.

Slurry		
Class		
Sacks		
Water, GPS		
WT, PPG	7.02	
BBLS Slurry		

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan

OD(In)	MD
20.000	100

Csg Actual

OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CRE.. UNIT — Continued — Page 2
API# 43 043 30297 00 00 Report No: 0071 Date: 01/17/92

Pump Rate	13.375	600	9.625	9275			[redacted]	[redacted]	
Recip Pipe	9.625	9200							
Anulus PSI	5.500	16500							

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl	[redacted]	[redacted]
Total D&C	[redacted]	[redacted]
Mud Costs	[redacted]	[redacted]
Cement Cost	[redacted]	[redacted]
Adj Fact Tan	[redacted] Intan	[redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	200	TRIP OUT	W/ CORE #1
0700	200	LAY DN	CORE (REC 54 FEET)
0900	100	LD EQUIP	ALL REAMERS & IBS'S & SHOCK SUB
1000	330	TRIP IN	W BIT (SLICK)
1330	1530	WASH/REM	15900 TO 16016
			SHAKERS LOADED--EXCESSIVE TORQUE--
			-
			SMAC 3
			TOTAL ESCAID MUD LOST LAST 24 HRS. 59 BBLS.
			TOTAL CUM. LOST 3333 BBLS.
			P.O. WASHING & REAMING @ 16016

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.4	1.4.
LCM, PPB	[illegible]	[illegible]
ES, Volts	577	543

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

LUBRA SEAL	SX 30	10.00
MICA	SX 50	10.00
SHRINK WRP	EACH	13.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD,Ft. 16500
Budgeted TVD,Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Drill Group MDO

EUSA Supv1 BACHMAN
EUSA Supv2 MC LAIN
EUSA Other
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 11:15

Date: 01/16/92
Report No: 0070
AFE No: 9770075
AFE Amt,K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLR
Air Temp,Deg F 15

Days Since Last LTA 70.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation TRIP OUT
MD @ End of Period 16163
Footage SLR 58
Rotating Hours SLR 11.75
Mud WT,PPG 10.0
Hole Size,In. 8.500
Pump Pressure,PSI 1150
Circ Rate,GPM 272
Days Since Spud 69.3
Days Ahead/Behind(-) -3.0

Anlr Vel,FPM DP 141
Anlr Vel,FPM DC 250

Well Control and Safety Drill

		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR Duration 5.0 min Next BOP Test
Duration min 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1300	1300
Flowline Temp.	95	
Depth (MD)	16135	16135
Mud WT	9.8	10.0
FV	43	45
PV	8	8
YP	15	16
10 Sec GEL	11.0	12.0
10 Min GEL	19.0	21.0
API WL		
API FC, 32nd		
HTHP WL		12.8
HTHP FC,32nd		3
Vol % Water	15.00	15.00
Vol % Oil	71.00	70.00
Vol % Solids	15.00	[redacted]
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.10	1.15
Akl(MF)		
Chlorides	324300	329000
Calcium	25200	25200
Potassium		

Other Mud Properties

AWS	%RH	0.00	0.61
AWM	%RH	0.00	0.55
O/W RATIO	%	82.0	18.0

*Mud Additives

BARITE	SX100	320.00	
CS 38H	SX 40	9.00	
CS TONE	SK 50	27.00	
ESCAID 110	BBLS	20.00	

Inclination Survey

MD	Angle	Azmith	Dist

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	25
		Actv Pit	715
		Hole	1025
		Total	1765

Mud Make-Up SLR Cum
Oil 20 2416
Water,Bbls 4820
Water Permit # 000

Bit Mfg DIA BOART
Bit No/Rerun 27/
Size 8.500
Bit Model CMD 256
Serial # 5910593
Bit Nozzle Dia,32nd
#1/#2/#3 / /
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage,I/O 32nd
Depth Bit
Run 16105
Pulled
Footage 58
Rotary Hrs 11.75
Rotary RPM 65/ 65
Ave ROP 4.94
WT On Bit 15/ 18

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	
Hrs SLR		
GPM	272	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	CORE BARRL
1	H-JAR
19	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3331.1	5.000	25.600	X-95
2	8992.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

Drill String Summary

	Total Length	Total Displ.
BHA	949.22	28.29
Drill Pipe	15184.1	120

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]		[redacted]	

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0070 Date: 01/16/92

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]	[redacted]	
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C	[redacted]	[redacted]
						Mud Costs	[redacted]	[redacted]
						Cement Cost	[redacted]	[redacted]
						Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	WASH/REM	FROM 16035' TO 16105'.
0800	1145	CORING	CORE #1 FROM 16105' TO 16163'
1945	915	TRIP OUT	MIX & PUMP SLUG THGHT HOLE PU KELLY AND CIRC AND WORK 6 JTS OUT OF HOLE. PIPE CAME WET MIX AND PUMP 2ND SLUG TOOH.

2000 HRS MW 10#
VIS 47
PV 8
YP 19

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 11 BBLS.
TOTAL CUM. LOST 3274 BBLS.
P.O. TOOH WITH CORE #1
FLOOR HAND DANIEL DURRANT MASHED INDEX AND MIDDLE FINGER OF RIGHT HAND IN TONGS FIRST AID N.L.T.A.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.4	1.5
LCM, PPB		
ES, Volts	590	520

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

LIME	SX 50	10.00
LUBRA SEAL	SX 30	36.00
MICA	SX 50	36.00
SHRINK WRP	EACH	13.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Drlg Group	MDO

EUSA Supv1	MCPEEK
EUSA Supv2	MC LAIN
EUSA Other	
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	11:15

Date:	01/15/92
Report No:	0069
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Weather Desc.	
Air Temp, Deg F	
Anlr Vel, FPM DP	195
Anlr Vel, FPM DC	345

Days Since Last LTA	69.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	WASH/REM
MD @ End of Period	16105
Footage SLR	0
Rotating Hours SLR	0.0
Mud WT, PPG	9.7
Hole Size, In.	8.500
Pump Pressure, PSI	2400
Circ Rate, GPM	376
Days Since Spud	68.3
Days Ahead/Behind(-)	-2.0

Well Control and Safety Drill

		Low / High, PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		

SAFE-TOUR — Duration 5.0 min; Duration min — Next BOP Test 12/27/91

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1400	1400
Flowline Temp.		
Depth (MD)	16105	16105
Mud WT		9.7
FV		47
PV		8
YP		15
10 Sec GEL		10.0
10 Min GEL		18.0
API WL		
API FC, 32nd		
HTHP WL		12.4
HTHP FC, 32nd		3
Vol % Water		[illegible]
Vol % Oil		[illegible]
Vol % Solids		14.00
Vol % Sand		
MB		

Mud Co.	GLOBAL
Mud PH	
Akl(PF)	
Akl(PM)	1.30
Akl(MF)	
Chlorides	319500
Calcium	24400
Potassium	

Other Mud Properties

AWS	%RH	0.00	0.00
AWM	%RH	0.59	0.00
O/W RATIO	%	83.0	17.0

*Mud Additives

BARITE	SX100	500.00
ESCAID 110	BBLS	13.00
LIME	SX 50	10.00
LUBRA SEAL	SX 30	25.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units

Pickup	Slack Off	Units K-lbs

Lith	%Vol

Mud Vol@ EOP	
Resv Pit	25
Actv Pit	577
Hole	1131
Total	1733

Mud Make-Up SLR		Cum
Oil	13	2396
Water, Bbls		4820
Water Permit #	000	

Bit Mfg	DIA BOART	REED
Bit No/Rerun	27/	26/
Size	8.500	8.500
Bit Model	CMD 256	HP61
Serial #	5910593	TW2931
Bit Nozzle Dia, 32nd #1/#2/#3	/ /	12/11/11
Bit Grade		
Teeth, 8ths		2
Bearing, 8ths		2
Guage, I/O 32nd		I
Depth Bit Run	16105	15995
Pulled		16105
Footage	0	110
Rotary Hrs		12.50
Rotary RPM	/	60/ 65
Ave ROP		8.80
WT On Bit	/	40/ 45

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	CORE BARRL
1	H-JAR
19	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
19	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	3266.1	5.000	25.600	X-95
2	8992.1	5.000	19.500	G-105
3	2860.9	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	4.5 IN IF	5.000

Drill String Summary	Total Length	Total Displ.
BHA	949.22	28.29
Drill Pipe	15119.1	120

Cement Company
Cementing Obj.

Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

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Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD
20.000	100

Csg Actual OD(In)	MD	PPG PIT	PPG LOT
13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0069 Date: 01/15/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj.	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
Obj Reservoir						Total Drill	[redacted]	[redacted]
[redacted]	[redacted]					Total Compl	[redacted]	[redacted]
						Total D&C	[redacted]	[redacted]
						Mud Costs	[redacted]	[redacted]
						Cement Cost	[redacted]	[redacted]
						Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	400	CIRCULAT	CONDITION MUD AND HOLE FOR CORE.
0900	630	TRIP OUT	TIGHT @ 16050' 15500' 14010' 11297' & 10924'.
1530	130	PU EQUIP	CORE BARREL
1700	100	TRIP IN	TO DRILL PIPE.
1800	100	SLIP/CUT	145' DRLG LINE.
1900	415	TRIP IN	TO 15972'
2315	545	WASH/REM	DEPTH @ 0500 HRS 16035'. HAD PROBLEMS WITH HOLE PACKING OFF FROM 0130 HRS TO 0330 HRS.

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 131 BBLS.
TOTAL CUM. LOST 3263 BBLS.
P.O. CIRC. STILL HAVE A LOTS OF CUTTINGS COMING ACROSS SHAKERS, AMOUNT HAS REDUCED BY APPROX. 2/3 VOLUME.

* Mud Properties - Cont.

Source	IN
30 Min GEL	
Lime, PPB	1.7
LCM, PPB	
ES, Volts	639

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

MICA	SX 50	32.00
VEN FYBER	SX 40	10.00

-----end of report-----end of report-----end of report-----end of report-----

Well Name STEEL CREEK UN - Continued
API# 43 043 30297 00 00 Report No: 0068 Date: 01/14/92 Page 2

Pump Rate		13.375	600	9.625	9275			[redacted]		[redacted]	
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj	Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]		[redacted]					Total Drill	[redacted]	[redacted]
							Total Compl		
							Total D&C		
							Mud Costs		
							Cement Cost		
							Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	030	REAMING	TO BTM. @ 15995
0530	200	DRILLING	TO 16030'
0730	430	WORK PIP	ATTEMPTED TO MAKE CONN. HOLE KEPT SLOUGHING IN AND PACKING OFF.SWEEP HOLE W/ HI-VIS SWEEPS AND RAISING M.W. TO 9.0 PPG
1200	1030	DRILLING	DRILLING. HOLE CONTINUES TO SLOUGH. HAVING PROBLEMS MAKING CONN. CONTINUE TO RAISE M.W. TO 9.5 PPG TO STABALIZE [redacted] REACHED CORE DEPTH @ 16105'
2230	630	CIRCULAT	TO COND. MUD & HOLE.

SMAC 5
TOTAL ESCAID MUD LOST LAST 24 HRS. 154 BBLS.
TOTAL CUM. LOST 3132 BBLS.
P.O. CIRC. STILL HAVE A LOTS OF CUTTINGS COMING ACROSS SHAKERS, AMOUNT HAS REDUCED BY APPROX. 2/3 VOLUME.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.3	1.3
LCM, PPB		
ES, Volts	780	734

* Drilling Obj - Cont.

Obj	Reservoir	Top MD
[redacted]	[redacted]	[redacted]

* Mud Additives - Cont.

LIME	SX 50	10.00
LUBRA SEAL	SX 30	18.00
MICA	SX 50	40.00
SHRINK WRP	EACH	25.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 3029 00 00	EUSA Supv1	MCPEEK
Prosp Name	STEEL EEK	EUSA Supv2	
Prosp Number		EUSA Other	
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	11:15
State	UT		
County	SUMMIT	Weather Desc.	SNOW
Drilling Group	MDO	Air Temp,Deg F	8

Date:	01/14/92	Days Since Last LTA	68.0
Report No:	0068	LTA/MMH	
AFE No:	9770075	Number Accidents SLR	0
AFE Amt,K$	[redacted]	Pollution Incidents SLR	0
Rig Name	NORTON NO. 9		
Rig Phone	(915)688-7185		
Disp Phone			
Radio Sta/Twr			

Present Operation	CIRCULAT	Anlr Vel,FPM DP	195
MD @ End of Period	16105	Anlr Vel,FPM DC	345
Footage SLR	107		
Rotating Hours SLR	12.50		
Mud WT,PPG	9.5		
Hole Size,In.	8.500		
Pump Pressure,PSI	2400		
Circ Rate,GPM	376		
Days Since Spud	67.3		
Days Ahead/Behind(-)	-1.0		

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	12/13/91	250/ 3000
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	12/27/91

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1230	1230	Akl(PF)		
Flowline Temp.	98		Akl(PM)	1.00	1.00
Depth (MD)	16035	16035	Akl(MF)		
Mud WT	9.0	9.2	Chlorides	339300	337100
FV	45	46	Calcium	28000	28000
PV	8	8	Potassium		
YP	14	15	Other Mud Properties		
10 Sec GEL	10.0	11.0	AWS	%RH 0.00	0.60
10 Min GEL	18.0	20.0	AWM	%RH 0.00	0.58
API WL			O/W RATIO	% 82.0	18.0
API FC, 32nd					
HTHP WL		12.4			
HTHP FC,32nd		3			
Vol % Water	16.00	16.00	*Mud Additives		
Vol % Oil	72.50	72.00	BARITE	SX100	850.00
Vol % Solids	11.50	[illegible]	CS TONE	SX 50	15.00
Vol % Sand			ESCAID 110	BBLS	30.00
MB			G. SORB	SX 50	6.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
OFF BT	1	RNDS
Pickup	Slack Off	Units
38070	355	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	125
		Actv Pit	675
		Hole	1018
		Total	1818

Mud Make-Up	SLR	Cum
Oil	30	2383
Water,Bbls		4820
Water Permit #	000	

Bit Mfg	REED	
Bit No/Rerun	26/	
Size	8.500	
Bit Model	HP61	
Serial #	TW2931	
Bit Nozzle Dia,32nd #1/#2/#3	12/11/11	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run	15995	
Pulled		
Footage	110	
Rotary Hrs	12.50	
Rotary RPM	60/ 65	
Ave ROP	8.80	
WT On Bit	40/ 45	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	90	
Hrs SLR		
GPM	376	

Solids Control	Hrs Used	
Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA No.	Item
1	BIT
1	6PT REAMER
1	SHOCK SUB
1	STAB-INTEG
1	DRILL COLR
1	STAB-INTEG
20	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
1	6.750	2.750	
20	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	2860.9	5.000	19.500	E-75
2	8992.1	5.000	19.500	G-105
3	3266.1	5.000	25.600	X-95

Tool Joint	Type	OD(In)
1	4.5 IN IF	5.000
2	4.5 IN IF	5.000
3	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	961.99	28.70
Drill Pipe	15119.1	120

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water,GPS	
WT,PPG	
BBLS Slurry	

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Add	Brand	Amt	Units	Amt	Units

POB					
FIN Csg PSI					
Mud Return					
Cmt Return					

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]	[redacted]		

January 30, 1992

TO: Well File

FROM: F. R. Matthews, Petroleum Engineer

RE: Exxon Steel Creek Unit # 1, Section 34, T. 3N., R. 13E, API 43-043-30297, Summit County, Ut.

On January 29, 1992 Jim Thompson and I visited the Norton # 9 rig, located 27 miles south of Mountain View, Wyo. Met with the BLM representative who was on site to witness the plugging.

Dowell/Schulumberg had already pumped 2 of 6 plugs required and were in the process of pulling pipe to the 3rd plug position.

Plugging procedure as follows:

Plug # 1	16,250'-15,865'	100 sax	Cedar Mtn & Dakota formations.
Plug # 2	14,900'-14,608'	100 sax	Frontier formation.
Plug # 3	12,000'-11,781'	75 sax	Mesaverde formation.
Plug # 4	9375'-9085'	100 sax	@ Casing shoe. This plug must be tagged and cement must be no deeper than 9175'
Plug # 5	6100'-5800'	110 sax	
Plug # 6	50-to surface		

Install dry hole marker

Casing to be perforated W/4-SPF 90 degree phasing @ 750', run CICR @ 700', circulate and squeeze 9 5/8" and 13 3/8" annulus.

MacSoft VT #1

INSPECTOR: JT INSP DATE: 920130 COMMENTS : Y
REVIEWED : REASON: 12 : DRILLING OPER

OPERATOR : N0420 : EXXON CORPORATION LEASE: U-55711
WELL NAME: STEEL CREEK UNIT #1 API : 43-043-30297
S: 34 T: 3.0 N R: 13.0 E CONTRACTOR : _____
COUNTY : SUMMIT FIELD: 001 : WILDCAT

DRILLING/COMPLETION/WORKOVER:

_ APD	_ WELL SIGN	_ HOUSEKEEPING	_ BOPE
_ SAFETY	_ POLLTN CNTL	_ SURFACE USE	_ PITS
Y OPERATIONS	Y OTHER		

SHUT-IN _ / TA _ :

_ WELL SIGN	_ HOUSEKEEPING	_ EQUIPMENT*	_ SAFETY
_ OTHER			

ABANDONED:

_ MARKER	_ HOUSEKEEPING	_ REHABILITATION	_ OTHER

PRODUCTION:

_ WELL SIGN	_ HOUSEKEEPING	_ EQUIPMENT*	_ FACILITIES
_ METERING*	_ POLLTN CNTL	_ PITS	_ DISPOSAL
_ SECURITY	_ SAFETY	_ OTHER	

GAS DISPOSITION:

_ VENTED/FLARED	_ SOLD	_ LEASE USE	(NOT PRINTED)

PF KEYS: (1) NO UPDT (9) WELL DATA (10) COMMENTS (12) DELETE (16) EXIT

MacSoft VT #1

OIL AND GAS INSPECTION COMMENTS PAGE 2

WELL NAME: STEEL CREEK UNIT #1 API: 43-043-30297
INSPECTOR: JT DATE: 920130 REVIEWED:

*FACILITIES INSPECTED:
DRILLING_RIG_____

REMARKS:
EXXON_IN_THE_PROCESS_OF_PLUGGING_WELL._____
SEE_MEMO_TO_FILE_FOR_PLUGGING_DETAILS._____

ACTION:
_____

PF KEYS: (1) NO UPDATE (10) COMMENTS (12) DELETE DATA

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other CORRECTION OF TEST RESULTS	

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

13. 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 LEACHATE TEST RESULTS SUBMITTED 1-24-92 CONTAINED A TYPOGRAPHICAL ERROR IN THE COMMENTS SECTION. THE COMMENTS REFERED TO THE TESTS BEING RUN FOR 24 HOURS.
THESE 10 SAMPLES WERE ACTUALLY TESTED FOR 7 DAYS. ATTACHED ARE THE CORRECTED TEST RESULTS.

RECEIVED
FEB 03 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 01/28/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

ENERGY LABORATORIES, INC.
P.O. BOX 3258 • CASPER, WY 82602 • PHONE (307) 235-0515
254 NORTH CENTER, SUITE 100 • CASPER, WY 82601 • FAX (307) 234-1639

WATER ANALYSIS REPORT - EXXON CO.

Project: Steel Creek Unit #1

Sample I.D.:	#1	#2	#3	#4	#5	
Sample Date:	01-07-92	01-07-92	01-07-92	01-07-92	01-07-92	
Report Date:	01-21-92	01-21-92	01-21-92	01-21-92	01-21-92	
Lab I.D. #:	92-0215	92-0216	92-0217	92-0218	92-0219	Det.Limit
Oil & Grease, mg/l *	17	<1	<1	9	<1	1

Sample I.D.:	#6	#7	#8	#9	#10	
Sample Date:	01-07-92	01-07-92	01-07-92	01-07-92	01-07-92	
Report Date:	01-21-92	01-21-92	01-21-92	01-21-92	01-21-92	
Lab I.D. #:	92-0220	92-0221	92-0222	92-0223	92-0224	Det.Limit
Oil & Grease, mg/l *	13	<1	1	119	<1	1

* Oil & Grease in Leachate

Comments: State of Louisiana #29-B Leachate test. 7 day test.

Q.A. MANAGER:
Energy Laboratories, Inc.
Casper, WY 82601

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[ ] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[X] Other DAILY DRILLING REPORTS	

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

13. 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.)*

ATTACHED ARE THE DAILY DRILLING REPORTS FROM 1-21-92 THRU 1-28-92.

RECEIVED
FEB 06 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 01/31/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

GENERAL INSTRUCTIONS

This form is for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any 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.

SPECIFIC INSTRUCTIONS

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 or Federal office for specific instructions.

Item 13-Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq, 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

Public reporting burden for this form is estimated to average 30 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 2024, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

*U.S. GPO: 1990-773-016/06059

API# 43 043 30297 00 00	EUSA Supv1 BACHMAN	Date: 01/21/92
Prosp Name STEEL CREEK	EUSA Supv2 MC LAIN	Report No: 0075
Prosp Number	EUSA Other ALLISON	AFE No: 9770075
Well STEEL CREEK UNIT	EUSA Engin	AFE Amt,K$ [redacted]
Well Number 1	Resp Engin MEDLEY	Rig Name NORTON NO. 9
Budgeted MD,Ft. 16500	Oper Supt. SOSSAMAN	Rig Phone (915)688-7185
Budgeted TVD,Ft. 16500	Rig Contract DAYWORK	Disp Phone
Target Days 70.00	Repair Ctr Hrs 13:15	Radio Sta/Twr
State UT		
County SUMMIT	Weather Desc. CLR	
Dril Group MDO	Air Temp,Deg F -5	Days Since Last LTA 75.0
		LTA/MM-H
Present Operation WASH/REM	Anlr Vel,FPM DP 173	Number Accidents SLR 0
MD @ End of Period 16308	Anlr Vel,FPM DC 307	Pollution Incidents SLR 0
Footage SLR 0		
Rotating Hours SLR 0.0	Well Control and Safety Drill	Low / High,PSI
Mud WT,PPG 9.9	Last BOP Test 01/20/92	250/ 3500
Hole Size,In. 8.500	Last BOP Drill 01/14/92	
Pump Pressure,PSI 2000	Last BOP Oper 12/31/91	300/ 3500
Circ Rate,GPM 334	Last Anular Test	
Days Since Spud 74.3	SAFE-TOUR Duration 5.0 min	Next BOP Test
Days Ahead/Behind(-) -7.0	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1300	1300	Akl(PF)		
Flowline Temp.			Akl(PM)		0.70
Depth (MD)	16308	16308	Akl(MF)		
Mud WT		9.9	Chlorides		305600
FV		49	Calcium		24000
PV		8	Potassium		
YP		19	Other Mud Properties		
10 Sec GEL		13.0	AWS	%RH 0.00	0.00
10 Min GEL		25.0	AWM	%RH 0.00	0.00
API WL			O/W RATIO	% 81.0	19.0
API FC, 32nd					
HTHP WL		12.4			
HTHP FC,32nd		3			
Vol % Water		16.00	Mud Additives		
Vol % Oil		69.50	CS-33	DRM.	2.00
Vol % Solids		15.50	G. SORB	SX 50	2.00
Vol % Sand			SHRINK WRP	EACH	18.00
MB					

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
REAM	400	AMPS
Pickup	Slack Off	Units
38566	350	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	125
		Actv Pit	630
		Hole	1036
		Total	1791

Mud Make-Up SLR		Cum
Oil		2746
Water,Bbls		4855
Water Permit #	000	

Bit Mfg	DIA BOART	
Bit No/Rerun	29/ 27	
Size	8.500	
Bit Model	CMD 256	
Serial #	5910593	
Bit Nozzle Dia,32nd #1/#2/#3	/ /	
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run	16308	
Pulled		
Footage	0	
Rotary Hrs		
Rotary RPM	/	
Ave ROP		
WT On Bit	/	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	80	
Hrs SLR		
GPM	334	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	CORE BARRL
1	H-JAR
19	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
19	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3175.2	5.000	25.600	X-95
2	9054.7	5.000	19.500	G-105
3	188.7	5.000	25.600	E-75
4	2860.9	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	1006.90	30.44
Drill Pipe	15279.5	121

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report

Gas	Units	MD	Chlori
[redacted]			

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0075 Date: 01/21/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl	[redacted]	[redacted]
Total D&C	[redacted]	[redacted]
Mud Costs	[redacted]	[redacted]
Cement Cost	[redacted]	[redacted]
Adj Fact Tan	[redacted] Intan	[redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	BOP T/DR	FINISH BOP TEST OK.
0800	100	PU EQUIP	PU CORE BARREL AND BIT FOR CORE #2.
0900	100	TRIP IN	WITH BHA AND 1 STD DP.
1000	100	SLIP/CUT	CUT 115' DRLG LINE.
1100	330	TRIP IN	TO SHOE
1430	045	STRAPING	114 TJS X 95/25.60#
1515	515	TRIP IN	PICKING YP X95 DP TAG BRIDGE @ 15955'.
2030	830	WASH/REM	FROM 15955' TO 16308'

MUD PROPERTIES @ 0300
VIS=55
PV= 9
YP=20
GELS 18/32

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 56 BBLS.
TOTAL CUM. LOST 3704 BBLS.
P.O REAMING TO BTM W/ CORE BBL

* Mud Properties - Cont.

Source	IN
30 Min GEL	
Lime, PPB	0.9
LCM, PPB	
ES, Volts	584

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00
Prosp Name	STEEL CREEK
Prosp Number	
Well	STEEL CREEK UNIT
Well Number	1
Budgeted MD, Ft.	16500
Budgeted TVD, Ft.	16500
Target Days	70.00
State	UT
County	SUMMIT
Dril Group	MDO

EUSA Supv1	BACHMAN
EUSA Supv2	MC LAIN
EUSA Other	ALLISON
EUSA Engin	
Resp Engin	MEDLEY
Oper Supt.	SOSSAMAN
Rig Contract	DAYWORK
Repair Ctr Hrs	13:15
Weather Desc.	
Air Temp, Deg F	

Date:	01/22/92
Report No:	0076
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	76.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	WASH/REM
MD @ End of Period	16335
Footage SLR	27
Rotating Hours SLR	3.00
Mud WT, PPG	9.9
Hole Size, In.	8.500
Pump Pressure, PSI	2000
Circ Rate, GPM	272
Days Since Spud	75.3
Days Ahead/Behind(-)	-7.0
Anlr Vel, FPM DP	141
Anlr Vel, FPM DC	250

Well Control and Safety Drill		Low / High, PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/14/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	0400	0400
Flowline Temp.		
Depth (MD)	16308	16308
Mud WT	9.9	9.9
FV	54	55
PV	10	9
YP	18	20
10 Sec GEL	16.0	18.0
10 Min GEL	30.0	32.0
API WL		
API FC, 32nd		
HTHP WL		12.4
HTHP FC, 32nd		3
Vol % Water	16.00	16.00
Vol % Oil	69.00	68.50
Vol % Solids	15.00	15.50
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)	1.00	0.80
Akl(MF)		
Chlorides	305600	305600
Calcium	23600	24000
Potassium		

Other Mud Properties

AWS	%RH	0.00	0.00
AWM	%RH	0.00	0.60
O/W RATIO	%	81.0	19.0

*Mud Additives

MICA	SX 50	38.00
LUBRA SEAL	SX 50	48.00
ESCAID 110	BBLS	20.00
CS-33	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
REAM	1	RNDS
Pickup	Slack Off	Units
37063	350	K-lbs

Lith	%Vol	Mud Vol @	EOP
[redacted]		Resv Pit	50
		Actv Pit	635
		Hole	1037
		Total	1722

Mud Make-Up SLR		Cum
Oil	20	2766
Water, Bbls		4855
Water Permit #	000	

Bit Mfg	HUGHES	DIA BOART
Bit No/Rerun	30/ 28	29/ 27
Size	8.500	8.500
Bit Model	ATJ-44C	CMD 256
Serial #	E-75-PJ	5910593
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/12	/ /
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		I
Depth Bit Run	16335	16308
Pulled		16335
Footage	0	27
Rotary Hrs		3.00
Rotary RPM	/	60/ 65
Ave ROP		9.00
WT On Bit	/	15/ 18

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	65	
Hrs SLR		
GPM	272	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	BITSUB
21	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe

	Len, Ft.	OD	WT	Grade
1	3176.2	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Displ
BHA	938.63	27.80
Drill Pipe	15255.8	122

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	02

Add Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PIT	LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori
[redacted]	[redacted]		

Well Name STEEL CREEK UNIT - Continued -
API# 43 043 30297 00 00

Report No: 0076 Date: 01/22/92 Page 2

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	300	CORING	CORE # 2 FRON 16308' TO 16335'.
0800	130	CIRCULAT	MIX AND PUMP HIGH VIS PILL SPOT ON BTM.
0930	300	TRIP OUT	WORK PIPE PU KELLY AND CIRC LDDP 10 JTS.
1230	100	CIRCULAT	MIX AND PUMP SLUG.
1330	530	TRIP OUT	TO CORE BARREL.
1900	230	LD EQUIP	BREAK DOWN CORE BARREL NO CORE RECOVERY LAY DOWN CORE BARREL. BIT RINGED OUT IN 2 PLACES.
2130	515	TRIP IN	TO 15979' TAG BRIDGE.
0245	100	WASH/REM	FROM 15979' TO 16004' 2 JETS PLUGGED ON BIT.
0345	045	CIRCULAT	WORK TO UNPLUG BIT
0430	030	WASH/REM	FROM 16004' TO 16022' 1 JET STILL PLUGGED.

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 101 BBLS.
TOTAL CUM. LOST 3805 BBLS.

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.3	1.0
LCM, PPB		
ES, Volts	602	592

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS 38H	SX 40	7.00
CA CL WATR BBL.		123.00
BARITE	SX100	160.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	MC PEEK	Date:	01/23/92
Prosp Name	STEEL CREEK	EUSA Supv2	MC LAIN	Report No:	0077
Prosp Number		EUSA Other	ALLISON	AFE No:	9770075
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt,K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	13:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	SNOW		
Dril Group	MDO	Air Temp,Deg F	14	Days Since Last LTA	77.0
				LTA/MMH	
Present Operation	DRILLING	Anlr Vel,FPM DP	158	Number Accidents SLR	0
MD @ End of Period	16446	Anlr Vel,FPM DC	280	Pollution Incidents SLR	0
Footage SLR	111				
Rotating Hours SLR	18.50				
Mud WT,PPG	9.9				
Hole Size,In.	8.500				
Pump Pressure,PSI	2250				
Circ Rate,GPM	305				
Days Since Spud	76.3				
Days Ahead/Behind(-)	-7.0				

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/23/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	1230	1230	Akl(PF)		
Flowline Temp.	94		Akl(PM)	1.40	1.40
Depth (MD)	16347	16347	Akl(MF)		
Mud WT	10.0	10.0	Chlorides	308400	315200
FV	55	57	Calcium	26400	26800
PV	12	11	Potassium		
YP	17	20	Other Mud Properties		
10 Sec GEL	14.0	15.0	AWS	%RH 0.00	0.00
10 Min GEL	27.0	25.0	AWM	%RH 0.00	0.00
API WL			O/W RATIO	% 80.0	20.0
API FC, 32nd					
HTHP WL		12.0			
HTHP FC,32nd		3			
Vol % Water	16.50	17.00	*Mud Additives		
Vol % Oil	68.00	67.50	CA CL WATR	BBL.	40.00
Vol % Solids	15.50	15.50	CS 38H	SX 40	5.00
Vol % Sand			CS TONE	SX 50	30.00
MB			CS-II	DRM.	1.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
DRLG	2	RNDS
Pickup	Slack Off	Units
35085	365	K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]	[redacted]	Resv Pit	100
		Actv Pit	675
		Hole	1040
		Total	1815

Mud Make-Up	SLR	Cum
Oil	180	2946
Water,Bbls		4855
Water Permit #	000	

Bit Mfg		HUGHES
Bit No/Rerun	/	30/ 28
Size		8.500
Bit Model		ATJ-44C
Serial #		E-75-PJ
Bit Nozzle Dia,32nd #1/#2/#3		11/11/12
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		16335
Pulled		
Footage		111
Rotary Hrs		18.50
Rotary RPM		55/ 60
Ave ROP		6.00
WT On Bit		35/ 40

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM	73	
Hrs SLR		
GPM	305	

Solids Control Hrs Used

Equip Type	SLR	Screen
CENTRIFUGE	0.00	325X325
CENTRIFUGE	0.00	270X270
CENTRIFUGE		230X230
FLOLINE C		270X270
FLOLINE C		

BHA

No.	Item
1	BIT
1	BITSUB
21	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars

No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe

	Len,Ft.	OD	WT	Grade
1	3388.6	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Disol.
BHA	938.63	27.80
Drill Pipe	15468.2	124

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water,GPS
WT,PPG
BBLS Slurry

Add	Brand	Amt	Units	Amt	Units

		Csg Plan OD(In)	Csg Plan MD	Csg Actual OD(In)	Csg Actual MD	PPG PIT	PPG LOT	Mudlogger Report Gas	Units	MD	Chlori
POB											
FIN Csg PSI		20.000	100	13.375	649			[redacted]	[redacted]		
Mud Return											
Cmt Return											

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0077 Date: 01/23/92

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	[redacted] Intan	[redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	500	WASH/REM	16022'TO 16335' DRILL UP CORE THAT WAS LEFT ON BTM. +/- 20'
1000	330	DRILLING	
1330	030	RIG SERV	FUNCITON BOPS. HELD BOP DRILL.
1400	1500	DRILLING	

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 131 BBLS.
TOTAL CUM. LOST 3936 BBLS.
P.O. DRLG. PROBABLE T.D. @ 16500'

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.8	1.8
LCM, PPB		
ES, Volts	541	534

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

CS-33	DRM.	1.00
ESCAID 110	BBLS	180.00
G. SORB	SX 50	3.00
LIME	SX 50	10.00
LUBRA SEAL	SX 50	25.00

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 0	EUSA Supv1	MC PEEK
Prosp Name	STEEL CREEK	EUSA Supv2	MC LAIN
Prosp Number		EUSA Other	ALLISON
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	13:15
State	UT		
County	SUMMIT	Weather Desc.	CLDY
Dril Group	MDO	Air Temp, Deg F	24

Date:	01/24/92
Report No:	0078
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	

Days Since Last LTA	78.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	LOGGING
MD @ End of Period	16500
Footage SLR	54
Rotating Hours SLR	5.00
Mud WT, PPG	10.0
Hole Size, In.	8.500
Pump Pressure, PSI	
Circ Rate, GPM	0
Days Since Spud	77.3
Days Ahead/Behind(-)	

Anlr Vel, FPM DP	0
Anlr Vel, FPM DC	0

Well Control and Safety Drill		Low / High, PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/24/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1530	1300
Flowline Temp.	96	
Depth (MD)	16500	16500
Mud WT	10.0	10.0
FV	52	54
PV	12	11
YP	17	19
10 Sec GEL	14.0	15.0
10 Min GEL	27.0	26.0
API WL		
API FC, 32nd		
HTHP WL	12.0	12.0
HTHP FC, 32nd	3	3
Vol % Water	16.50	17.00
Vol % Oil	68.00	67.50
Vol % Solids	15.50	15.50
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	312844	315207
Calcium	26400	26400
Potassium		
Other Mud Properties		
AWS	%RH	0.00 / 20.0
AWM	%RH	0.00
O/W RATIO	%	80.0

*Mud Additives		
CS TONE	SX 50	5.00
CS-HTS	SX 50	10.00
ESCAID 110	BBLS	25.00
LUBRA SEAL	SX 50	21.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units

Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol @	EOP
[redacted]		Resv Pit	100
		Actv Pit	691
		Hole	1048
		Total	1839

Mud Make-Up SLR		Cum
Oil	25	2971
Water, Bbls		4855
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	30/ 28	
Size	8.500	
Bit Model	ATJ-44C	
Serial #	E-75-PJ	
Bit Nozzle Dia, 32nd #1/#2/#3	11/11/12	
Bit Grade		
Teeth, 8ths	4	
Bearing, 8ths	4	
Guage, I/O 32nd	I	
Depth Bit		
Run	16335	
Pulled	16500	
Footage	165	
Rotary Hrs	23.50	
Rotary RPM	55/ 60	
Ave ROP	7.02	
WT On Bit	35/ 40	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control Equip Type	Hrs Used SLR	Screen

BHA No.	Item
1	BIT
1	BITSUB
21	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe	Len, Ft.	OD	WT	Grade
1	3450.0	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Disol.
BHA	938.63	27.80
Drill Pipe	15529.6	124

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

JAN 24 92

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlor
[redacted]	[redacted]	[redacted]	

Well Name STEEL CRE. UNIT
API# 43 043 30297 00 00

- Continued -

Report No: 0078 Date: 01/24/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill		
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan		Intan

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
01/24/92	0100	154.0	124.0	35.0	28.0	189.0	152.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	500	DRILLING	TO T.D. 16500'
1000	200	CIRCULAT	& COND. HOLE
1200	045	SHRT TRP	PULL 15 STDS. HAD TIGHT SPOTS @ 16162,16130 & 16040
1245	100	WO EXXON	SET @ 15100' BEFORE RETURNING TO BTM.
1345	330	TRIP IN	HIT BRIDGE @ 16020'. P.U. KELLY & REAM TO 16130 TIH TO 16406'. W&R TO BTM. @ 16500'.
1715	200	CIRCULAT	FOR LOGS
1915	615	TRIP OUT	FOR LOGS
0130	330	LOGGING	R.U. SCHLUMBERGER & LOGGING WELL RUN # 1 DUAL IND./SONIC. TOOLS WENT TO 16440' HTI SOME TIGHT PLACES GOING IN & COMING OUT WITH TOOLS.

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS. 2 BBLS.
TOTAL CUM. LOST 3938 BBLS.
P.O.LOGGING

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.8	1.8
LCM, PPB		
ES, Volts	562	552

* Drilling Obj - Cont.
Obj Reservoir Top MD

* Mud Additives - Cont.

MICA	SX 50	20.00
SHRINK WRP	EACH	12.00
T-1949	SX 50	3.00

-----end of report-----end of report-----end of report-----end of report-----

API# 43 043 30297 00 J
Prosp Name STEEL CREEK
Prosp Number
Well STEEL CREEK UNIT
Well Number 1
Budgeted MD, Ft. 16500
Budgeted TVD, Ft. 16500
Target Days 70.00
State UT
County SUMMIT
Dril Group MDO

EUSA Supv1 MC PEEK
EUSA Supv2 MC ELROY
EUSA Other ALLISON
EUSA Engin
Resp Engin MEDLEY
Oper Supt. SOSSAMAN
Rig Contract DAYWORK
Repair Ctr Hrs 13:15

Date: 01/25/92
Report No: 0079
AFE No: 9770075
AFE Amt, K$ [redacted]
Rig Name NORTON NO. 9
Rig Phone (915)688-7185
Disp Phone
Radio Sta/Twr

Weather Desc. CLR
Air Temp, Deg F 15

Days Since Last LTA 79.0
LTA/MMH
Number Accidents SLR 0
Pollution Incidents SLR 0

Present Operation LOGGING
MD @ End of Period 16500
Footage SLR 0
Rotating Hours SLR 0.0
Mud WT, PPG 10.0
Hole Size, In. 8.500
Pump Pressure, PSI
Circ Rate, GPM 0
Days Since Spud 78.3
Days Ahead/Behind(-) -2.0

Anlr Vel, FPM DP 0
Anlr Vel, FPM DC 0

Well Control and Safety Drill — Low / High, PSI
Last BOP Test 01/20/92 250/ 3500
Last BOP Drill 01/24/92
Last BOP Oper 12/31/91 300/ 3500
Last Anular Test
SAFE-GEN Duration 5.0 min Next BOP Test
Duration min 02/03/92

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1400	1400
Flowline Temp.		
Depth (MD)	16500	16500
Mud WT		10.0
FV		57
PV		12
YP		19
10 Sec GEL		14.0
10 Min GEL		27.0
API WL		
API FC, 32nd		
HTHP WL		12.2
HTHP FC, 32nd		3
Vol % Water		17.00
Vol % Oil		67.50
Vol % Solids		15.50
Vol % Sand		
MB		

Mud Co. GLOBAL
Mud PH
Akl(PF)
Akl(PM)
Akl(MF)
Chlorides 315207
Calcium 26400
Potassium
Other Mud Properties
O/W RATIO % 80.0 0.00
AWM %RH 0.00
O/W RATIO % 20.0

Mud Additives
BARITE SX100 30.00
LUBRA SEAL SX 50 10.00
MICA SX 50 10.00

Inclination Survey
MD Angle Azmith Dist

Torque @ Amount Units
Pickup Slack Off Units K-lbs

Lith %Vol

Mud Vol@ EOP
Resv Pit 100
Actv Pit 468
Hole 1162
Total 1730

Mud Make-Up SLR Cum
Oil 0 2971
Water, Bbls 4855
Water Permit # 000

Bit Mfg
Bit No/Rerun / /
Size
Bit Model
Serial #
Bit Nozzle Dia, 32nd
#1/#2/#3
Bit Grade
Teeth, 8ths
Bearing, 8ths
Guage, I/O 32nd
Depth Bit
Run
Pulled
Footage
Rotary Hrs
Rotary RPM
Ave ROP
WT On Bit

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control Hrs Used
Equip Type SLR Screen

BHA
No. Item
1 BIT
1 BITSUB
21 DRILL COLR
1 H-JAR
3 HVY WT DP
1 OTIS SUB
6 HVY WT DP

Drill Collars
No. OD(In) ID(In) Tool Jnt Size(OD)
21 6.750 2.750

Drill Pipe
	Len, Ft.	OD	WT	Grade
1	2892.0	5.000	19.500	E-75
2	191.2	5.000	25.600	E-75
3	8996.4	5.000	19.500	G-105
4	3450.0	5.000	25.600	X-95

	Tool Joint Type	OD(In)
1	NC50	5.000
2	NC50	5.000
3	4.5 IN IF	5.000
4	NC50	5.000

Cement Company
Cementing Obj.
Slurry
Class
Sacks
Water, GPS
WT, PPG
BBLS Slurry
Add Brand Amt Units Amt Units

Drill String Summary — Total Length / Total Displ.
BHA 938.63 27.80
Drill Pipe 15529.6 124

POB
FIN Csg PSI
Mud Return
Cmt Return

Csg Plan OD(In) 20.000 MD 100
Csg Actual OD(In) 13.375 MD 649
PPG PIT LOT

Mudlogger Report
Gas Units MD Chlori

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0079 Date: 01/25/92 Page 2

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum.
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	[redacted]	[redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	2400	LOGGING	FINISH RUN # 1 DUAL IND./SONIC F/ 16440' RUN #2 DENSITY NUETRON. TOOLS WOULD NOT GO PAST 16060'. LOGGED FROM 16060' TO CSG. ADDED MORE WEIGHT TO TOOL AND ATTEMPTED TO TRY TO GET BELOW TIGHT PLACE. FAILED TO GET BY RUN #3 RAN DIPMETER. TOOL FAILED. TOOH & WO NEW DIPMETER FOR 2 HRS. RAN DIPMETER TO 16082'. LOGGING OUT - SMAC 3 TOTAL ESCAID MUD LOST LAST 24 HRS.111 BBLS. TOTAL CUM. LOST 4049 BBLS. P.O.LOGGING

* Mud Properties - Cont.

Source	IN
30 Min GEL	
Lime, PPB	1.7
LCM, PPB	
ES, Volts	538

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 0	EUSA Supv1	MC PEEK
Prosp Name	STEEL CREEK	EUSA Supv2	MC ELROY
Prosp Number		EUSA Other	ALLISON
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	13:15
State	UT		
County	SUMMIT	Weather Desc.	
Dril Group	MDO	Air Temp, Deg F	

Date:	01/26/92
Report No:	0080
AFE No:	9770075
AFE Amt, K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	80.0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	LOGGING
MD @ End of Period	16500
Footage SLR	0
Rotating Hours SLR	0.0
Mud WT, PPG	10.1
Hole Size, In.	8.500
Pump Pressure, PSI	
Circ Rate, GPM	0
Days Since Spud	79.3
Days Ahead/Behind(-)	-3.0
Anlr Vel, FPM DP	0
Anlr Vel, FPM DC	0

Well Control and Safety Drill		Low / High, PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/24/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.
*Sampl Source	OUT	IN
Time	1530	1300
Flowline Temp.	94	
Depth (MD)	16500	16500
Mud WT	10.1	10.1
FV	58	64
PV	13	12
YP	17	18
10 Sec GEL	15.0	15.0
10 Min GEL	27.0	28.0
API WL		
API FC, 32nd		
HTHP WL	12.0	12.0
HTHP FC, 32nd	3	3
Vol % Water	16.50	17.00
Vol % Oil	67.50	67.00
Vol % Solids	16.00	16.00
Vol % Sand		
MB		

Mud Co.	GLOBAL	
Mud PH		
Akl(PF)		
Akl(PM)		
Akl(MF)		
Chlorides	312844	315206
Calcium	26400	26400
Potassium		
Other Mud Properties		
O/W RATIO %	80.0	0.00
AWM %RH		0.00
O/W RATIO %		20.0

Mud Additives		
BARITE	SX100	35.00
CS-11	DRM.	1.00
ESCAID 110	BBLS	25.00

Inclination Survey			
MD	Angle	Azmith	Dist
16464	3.75		
15950	1.25		

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
[redacted]		Resv Pit	
		Actv Pit	795
		Hole	1048
		Total	1843

Mud Make-Up SLR		Cum
Oil	25	2996
Water, Bbls		4855
Water Permit #	000	

Bit Mfg	HUGHES	
Bit No/Rerun	31/ 28	
Size	8.500	
Bit Model	ATJ-44C	
Serial #	E-75-PJ	
Bit Nozzle Dia, 32nd #1/#2/#3	0/ 0/ 0	
Bit Grade		
Teeth, 8ths	4	
Bearing, 8ths	4	
Guage, I/O 32nd	I	
Depth Bit		
Run	16500	
Pulled	16500	
Footage	0	
Rotary Hrs		
Rotary RPM	65/ 65	
Ave ROP		
WT On Bit	0/ 5	

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control	Hrs Used	
Equip Type	SLR	Screen

BHA No.	Item
1	BIT
1	BITSUB
21	DRILL COLR
1	H-JAR
3	HVY WT DP
1	OTIS SUB
6	HVY WT DP

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe	Len, Ft.	OD	WT	Grade
1	3450.0	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

Tool Joint	Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	938.63	27.80
Drill Pipe	15529.6	124

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori
[redacted]	[redacted]	[redacted]	

Well Name STEEL CRE. UNIT - Continued
API# 43 043 30297 00 00

Report No: 0080 Date: 01/26/92 Page 2

Pump Rate		13.375	600	9.625	9275			[redacted]	[redacted]
Recip Pipe		9.625	9200						
Anulus PSI		5.500	16500						

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	[redacted] Intan	[redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot
01/26/92	0130	154.0	124.0	35.0	28.0	189.0	152.0

Daily Operations Summary

From	Time	Activity	Narrative
0500	100	LOGGING	FINISHED RUN #3 DIPMETER
0600	130	TRIP IN	WITH BHA
0730	100	SLIP/CUT	DRLG. LINE
0830	030	RIG SERV	FUNCTION BOP'S
0900	445	TRIP IN	TO 16101'. HIT TIGHT PLACE.
1345	215	WASH/REM	F/ 16101' TO 16500'
1600	300	CIRCULAT	FOR LOGS
1900	630	TRIP OUT	TO LOG. HIT TIGHT PLACE @ 16162'. PULLED FREE THE REST OF THE WAY OUT OF HOLE. DROPPED SURVEY.
0130	330	LOGGING	RUN DENSITY/ NUETRON. LOGGERS T.D. 16450'

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS.+85 BBLS (GAIN)
TOTAL CUM. LOST 3964 BBLS.
P.O.LOGGING
HOLE HAS TAKEN 4 BBLS FLUID FROM 0130 TO 0500

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.6	1.6
LCM, PPB		
ES, Volts	554	538

* Drilling Obj - Cont.
Obj Reservoir Top MD
[redacted]

-----end of report-----end of report-----end of report-----end of report-----

API#	43 043 30297 00 00	EUSA Supv1	MC PEEK
Prosp Name	STEEL CREEK	EUSA Supv2	MC ELROY
Prosp Number		EUSA Other	ALLISON
Well	STEEL CREEK UNIT	EUSA Engin	
Well Number	1	Resp Engin	MEDLEY
Budgeted MD,Ft.	16500	Oper Supt.	SOSSAMAN
Budgeted TVD,Ft.	16500	Rig Contract	DAYWORK
Target Days	70.00	Repair Ctr Hrs	13:15
State	UT		
County	SUMMIT	Weather Desc.	CLR
Dril Group	MDO	Air Temp,Deg F	8

Date:	01/27/92
Report No:	0081
AFE No:	9770075
AFE Amt,K$	[redacted]
Rig Name	NORTON NO. 9
Rig Phone	(915)688-7185
Disp Phone	
Radio Sta/Twr	
Days Since Last LTA	81:0
LTA/MMH	
Number Accidents SLR	0
Pollution Incidents SLR	0

Present Operation	WO EXXON	Anlr Vel,FPM DP	0
MD @ End of Period	16500	Anlr Vel,FPM DC	0
Footage SLR	0		
Rotating Hours SLR	0.0		
Mud WT,PPG	9.9		
Hole Size,In.	8.500		
Pump Pressure,PSI			
Circ Rate,GPM	0		
Days Since Spud	80.3		
Days Ahead/Behind(-)	-4.0		

Well Control and Safety Drill		Low / High,PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/24/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-GEN	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID	ESCAID.	Mud Co.	GLOBAL	
*Sampl Source	OUT	IN	Mud PH		
Time	2020	1400	Akl(PF)		
Flowline Temp.	91		Akl(PM)		
Depth (MD)	16500	16500	Akl(MF)		
Mud WT	10.0	10.0	Chlorides	312844	315206
FV	54	61	Calcium	26000	26000
PV	12	12	Potassium		
YP	16	17	Other Mud Properties		
10 Sec GEL	14.0	15.0	O/W RATIO %	80.0	0.00
10 Min GEL	25.0	26.0	AWM %RH		0.00
API WL			O/W RATIO %		20.0
API FC, 32nd					
HTHP WL	12.4	12.4			
HTHP FC,32nd	3	3			
Vol % Water	16.50	17.00			
Vol % Oil	67.50	67.50			
Vol % Solids	16.00	15.50			
Vol % Sand					
MB					

*Mud Additives

CA CL WATR	BBL.	90.00
CS TONE	SX 50	5.00
CS-11	DRM.	2.00
ESCAID 110	BBLS	361.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	502
		Actv Pit	690
		Hole	1097
		Total	2289

Mud Make-Up	SLR	Cum
Oil	361	3357
Water,Bbls		4855
Water Permit #	000	

Bit Mfg		
Bit No/Rerun	/	/
Size		
Bit Model		
Serial #		
Bit Nozzle Dia,32nd #1/#2/#3		
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage,I/O 32nd		
Depth Bit		
Run		
Pulled		
Footage		
Rotary Hrs		
Rotary RPM		
Ave ROP		
WT On Bit		

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control Equip Type	Hrs Used SLR	Screen

BHA No.	Item
1	BIT
1	BITSUB
21	DRILL COLR

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe	Len,Ft.	OD	WT	Grade
1	3450.0	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	630.14	23.31
Drill Pipe	15529.6	124

Cement Company					
Cementing Obj.					
Slurry					
Class					
Sacks					
Water,GPS					
WT,PPG					
BBLS Slurry					
Add Brand	Amt	Units	Amt	Units	

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report Gas	Units	MD	Chlori

Well Name STEEL CREEK UNIT - Continued Page 2
API# 43 043 30297 00 00 Report No: 0081 Date: 01/27/92

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Obj Reservoir	Top MD	Consumable	Units	SLR	EOP	Summary(K$)	Daily	Cum
[redacted]	[redacted]					Total Drill	[redacted]	[redacted]
						Total Compl		
						Total D&C		
						Mud Costs		
						Cement Cost		
						Adj Fact Tan	[redacted]	ntan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	945	LOGGING	FINISHED RUNNING DENSITY/NEUTRON RUN VELOCITY SURVEY F/ 16445' TO SURFACE.
1445	115	LDDP	LAYED DOWN HWDP & JARS.
1600	330	TRIP IN	HOLE TO BOTTOM OF CSG W/ OPEN ENDED D.P. SLM
1930	930	WO EXXON	CIRC. & COND. OIL MUD. WAITING ON DECISION FROM GEOLOGIST WHETHER TO P&A OR RUN CSG.

SMAC 3
TOTAL ESCAID MUD LOST LAST 24 HRS 8 BBLS
TOTAL CUM. LOST 3972 BBLS.
P.O. WOO
MIXING 9.0 PPG WATER/GEL MUD

* Mud Properties - Cont.

Source	OUT	IN
30 Min GEL		
Lime, PPB	1.6	1.6
LCM, PPB		
ES, Volts	540	526

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

* Mud Additives - Cont.

G. SORB	SX 50	10.00
SHRINK WRP EACH		19.00

-----end of report-----end of report-----end of report-----end of report-----

SBT

API#	43 043 30297 00 00	EUSA Supv1	MC PEEK	Date:	01/28/92
Prosp Name	STEEL CREEK	EUSA Supv2	MC ELROY	Report No:	0082
Prosp Number		EUSA Other		AFE No:	9770075
Well	STEEL CREEK UNIT	EUSA Engin		AFE Amt, K$	[redacted]
Well Number	1	Resp Engin	MEDLEY	Rig Name	NORTON NO. 9
Budgeted MD, Ft.	16500	Oper Supt.	SOSSAMAN	Rig Phone	(915)688-7185
Budgeted TVD, Ft.	16500	Rig Contract	DAYWORK	Disp Phone	
Target Days	70.00	Repair Ctr Hrs	13:15	Radio Sta/Twr	
State	UT				
County	SUMMIT	Weather Desc.	CLR		
Dril Group	MDO	Air Temp, Deg F	10	Days Since Last LTA	82.0
				LTA/MMH	
Present Operation	WO AMOCO	Anlr Vel, FPM DP	0	Number Accidents SLR	0
MD @ End of Period	16500	Anlr Vel, FPM DC	0	Pollution Incidents SLR	0
Footage SLR	0				
Rotating Hours SLR	0.0				
Mud WT, PPG	9.9				
Hole Size, In.	8.500				
Pump Pressure, PSI					
Circ Rate, GPM	0				
Days Since Spud	81.3				
Days Ahead/Behind(-)					

Well Control and Safety Drill		Low / High, PSI
Last BOP Test	01/20/92	250/ 3500
Last BOP Drill	01/24/92	
Last BOP Oper	12/31/91	300/ 3500
Last Anular Test		
SAFE-TOUR	Duration 5.0 min	Next BOP Test
	Duration min	02/03/92

Mud Type	ESCAID.	ESCAID	Mud Co.	GLOBAL	
*Sampl Source	IN	OUT	Mud PH		
Time	1500	1400	Akl(PF)		
Flowline Temp.		92	Akl(PM)		
Depth (MD)	16500	16500	Akl(MF)		
Mud WT	9.9	9.9	Chlorides	315206	312844
FV	54	52	Calcium	26000	26000
PV	12	11	Potassium		
YP	16	15	Other Mud Properties		
10 Sec GEL	14.0	13.0	O/W RATIO %	20.0	80.0
10 Min GEL	25.0	23.0			
API WL					
API FC, 32nd					
HTHP WL	12.4	12.4			
HTHP FC, 32nd	3	3			
Vol % Water	17.00	16.50			
Vol % Oil	68.00	68.00			
Vol % Solids	15.00	15.50			
Vol % Sand					
MB					

Mud Additives		
BARITE	SX100	210.00
BENTONITE	SX100	214.00
CAUSTIC	SX 50	12.00

Inclination Survey

MD	Angle	Azmith	Dist

Torque @	Amount	Units
Pickup	Slack Off	Units K-lbs

Lith	%Vol	Mud Vol@	EOP
		Resv Pit	579
		Actv Pit	600
		Hole	1097
		Total	2276

Mud Make-Up SLR		Cum
Oil	0	3357
Water, Bbls		4855
Water Permit #	000	

Bit Mfg		
Bit No/Rerun	/	/
Size		
Bit Model		
Serial #		
Bit Nozzle Dia, 32nd #1/#2/#3		
Bit Grade		
Teeth, 8ths		
Bearing, 8ths		
Guage, I/O 32nd		
Depth Bit		
Run		
Pulled		
Footage		
Rotary Hrs		
Rotary RPM		
Ave ROP		
WT On Bit		

Pump No.	1	2
Stroke	10.0	10.0
Liner	6.5	6.5
SPM		
Hrs SLR		
GPM		

Solids Control Equip Type	Hrs SLR	Used Screen

BHA No.	Item
1	BIT
1	BITSUB
21	DRILL COLR

Drill Collars No.	OD(In)	ID(In)	Tool Jnt Size(OD)
21	6.750	2.750	

Drill Pipe	Len, Ft.	OD	WT	Grade
1	3450.0	5.000	25.600	X-95
2	8996.4	5.000	19.500	G-105
3	191.2	5.000	25.600	E-75
4	2892.0	5.000	19.500	E-75

	Tool Joint Type	OD(In)
1	NC50	5.000
2	4.5 IN IF	5.000
3	NC50	5.000
4	NC50	5.000

Drill String Summary	Total Length	Total Displ.
BHA	630.14	23.31
Drill Pipe	15529.6	124

Cement Company	
Cementing Obj.	
Slurry	
Class	
Sacks	
Water, GPS	
WT, PPG	
BBLS Slurry	

Add	Brand	Amt	Units	Amt	Units

POB	
FIN Csg PSI	
Mud Return	
Cmt Return	

Csg Plan OD(In)	MD	Csg Actual OD(In)	MD	PPG PIT	PPG LOT
20.000	100	13.375	649		

Mudlogger Report			
Gas	Units	MD	Chlori

9 92

Well Name STEEL CREEK UNIT - Continued
API# 43 043 30297 00 00 Report No: 0082 Date: 01/28/92 Page 2

Pump Rate		13.375	600	9.625	9275						
Recip Pipe		9.625	9200								
Anulus PSI		5.500	16500								

*Drilling Obj. Top
Obj Reservoir MD
[redacted]

Consumable Units SLR EOP

Summary(K$)	Daily	Cum.
Total Drill	[redacted]	[redacted]
Total Compl		
Total D&C		
Mud Costs		
Cement Cost		
Adj Fact Tan	[redacted]	Intan [redacted]

Trip Data:

Date	Time	Act DP	Theor DP	Act DC	Theor DC	Act Tot	Theor Tot

Daily Operations Summary

From	Time	Activity	Narrative
0500	830	WO EXXON	WAITING ON DECISION FROM GEOLOGIST
1330	1530	WO AMOCO	WAITING ON DECISION FROM AMOCO
			SMAC 3
			TOTAL ESCAID MUD LOST LAST 24 HRS 13 BBLS
			TOTAL CUM. LOST 3985 BBLS.
			P.O. WOO

* Mud Properties - Cont.

Source	IN	OUT
30 Min GEL		
Lime, PPB	1.6	1.6
LCM, PPB		
ES, Volts	512	528

* Drilling Obj - Cont.

Obj Reservoir	Top MD
[redacted]	[redacted]

-----end of report-----end of report-----end of report-----end of report-----

RECEIVED
FEB 06 1992
DIVISION OF
OIL GAS & MINING

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7546

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☒ Abandonment	☐ Change of Plans
	☐ Recompletion	☐ New Construction
☐ Subsequent Report	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
☐ Final Abandonment Notice	☐ Altering Casing	☐ Conversion to Injection
	☐ Other	

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

13. 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.)*

VERBAL APPROVAL WAS RECEIVED FROM MR. AL MCKEE, BLM, ON JANUARY 27, 1992 TO PLUG AND ABANDON THIS WELL AS FOLLOWS:

PLUG 1: 16250 - 15865, 100 SX CL G
PLUG 2: 14900 - 14608, 100 SX CL G
PLUG 3: 12000 - 11781, 75 SX CL G
PLUG 4: 9365 - 9065, 110 SX CL G
PLUG 5: 6100 - 5700, 110 SX CL G
PLUG 6: 700 - SURF, 300 SX CL G, PERF AT 700', CEMENT RETAINER SET AT 650', CIRC BETWEEN 13-3/8 X 9-5/8 CSG.
PLUG 7: 50 - SURFACE, 20 SX CL G.

RECEIVED
FEB 10 1992
DIVISION OF
OIL GAS & MINING

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

Signed Judy Bagwell Title Judy Bagwell Sr Staff Office Assistant Date 02/05/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
FEB 10 1992
DIVISION OF
OIL, GAS & MINING

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7546

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
[ ] Notice of Intent	[X] Abandonment	[ ] Change of Plans
[X] Subsequent Report	[ ] Recompletion	[ ] New Construction
[ ] Final Abandonment Notice	[ ] Plugging Back	[ ] Non-Routine Fracturing
	[ ] Casing Repair	[ ] Water Shut-Off
	[ ] Altering Casing	[ ] Conversion to Injection
	[ ] Other	

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

13. 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.)*

1-29-92 16250 - 15865, 100 SX CL G + 35% SILICA FLOUR, 0.15% D-65, 2% D-800, PULL UP TO 15800', DISPLACED OBM WITH 9.0 PPG FW-GEL MUD.
14900 - 14608, 100 SX CL G + 35% SILICA FLOUR.
12000 - 11781, 75 SX CL G.
1-30-92 9375 - 9085, 100 SX CL G. TRIPPED IN HOLE, COULD NOT TAG PLUG. RESET PLUG 4
9365 - 9065, 100 SX CL G, TAGGED TOC AT 9130'.
6100 - 5700, 110 SX CL G. PERF 9-5/8 CSG AT 700'. SET CEMENT RETAINER AT 650.
1-31-92 700 - SURF, CIRC 300 SX CL G BELOW RETAINER, TO SURFACE BETWEEN 13-3/8 X 9-5/8 CSG. CIRC 3-5 BARRELS TO SURFACE. LEFT 9 BARRELS CEMENT ON TOP OF RETAINER.
50 - SURF, 20 SX CL G + 2% CALCIUM CHLORIDE.
2-1-92 INSTALLED DRY HOLE MARKER. WELL PLUGGED AND ABANDONED.

BLM REPRESENTATIVE, PATTY RAMSTETTER, ON LOCATION FOR MOST OF OPERATION.

14. I hereby certify that the foregoing is true and correct
Signed Judy Bagwell Title Judy Bagwell Sr Staff Office Assistant Date 02/05/92

(This space for Federal or State office use)
Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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

*See Instructions on Reverse Side

Form 3160-5
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: September 30, 1990

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.
U 55711

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.
STEEL CREEK UNIT 1

2. Name of Operator
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

9. API Well No.
4304330297

3. Address and Telephone No.
P. O. BOX 1600 MIDLAND, TX 79702 (915) 688-7548

10. Field and Pool, or Exploratory Area
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
596' FSL & 446' FEL, SEC.34, T3N, R13E

11. County or Parish, State
SUMMIT UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other DAILY DRILLING REPORTS	

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

13. 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.)*

ATTACHED ARE THE DAILY DRILLING REPORTS FROM 1-29-92 THROUGH 2-3-92.

RECEIVED
FEB 10 1992
DIVISION OF
OIL GAS & MINING

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

Signed S. Johnson Title Stephen Johnson Administrative Specialist Date 02/06/92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____

Conditions of approval, if any:

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

*See Instructions on Reverse Side

Form 3160-4
(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Form approved
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR
EXXON CORPORATION ATTN: REGULATORY AFFAIRS

3. ADDRESS OF OPERATOR
P. O. BOX 1600
MIDLAND, TX 79702

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
596' FSL AND 446' FEL SEC.34-3N-13E
At surface

At top prod. interval reported below

At total depth

MAR 09 92
DIVISION OF OIL GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.
U 55711

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
STEEL CREEK UNIT

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
SEC34-3N-13E

14. PERMIT NO.	DATE ISSUED	12. COUNTY OR PARISH	13. STATE
4304330297	10-11-91	SUMMIT	UT

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR ETC.)*	19. ELEV. CASINGHEAD
11-7-91	1-23-92	PA 2-1-92 Per Sundry Dated 2-5-92	9750KB,9749DF,9724GL	

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
16500				X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION---TOP, BOTTOM, NAME (MD AND TVD)*
DID NOT PRODUCE

25. WAS DIRECTIONAL SURVEY MADE
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN 3-9-92
2-IL-SFL, COMP NEU LITHO DEN,CMT TOP,BHC SONLITH STRIP,MUD

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	51#	649	17 1/2	725 SX CLASS C	
9 5/8	53.5,43.5	9275	12 1/4	1108 SX HLC,660SX G	

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
16250-15865 100 SX,14900-14608 100SX
12000-11781 75SX, 9375-9085 100 SX
9365-9065 100 SX,6100-5700 110SX
700-SURF 300 SX,50-SURF 20 SX

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping---size and type of pump)	WELL STATUS (Producing or shut-in)
P7A		P&A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PRODN. 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 (Solid, 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 Sharon B. Timlin TITLE Sharon B. Timlin Sr.staff office assistant (915) 688-7509 DATE 03/02/92

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

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

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.
SEE STRIP LOG			

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
FORT UNION	9460	
MESA VERDE	11920	
HILLIARD	13970	
FRONTIER	14808	
2ND FRONTIER	15214	
MOWRY	15654	
MUDDY	15880	
DAKOTA(PRIM)	16012	
MORRISON	16308	

ROUTINE CORE ANALYSIS

EXXON EXPLORATION COMPANY

43-043-30297

Steel Creek # 1 Well
Summit County, Utah

TerraTek Project No. 5144

RECEIVED
MAR 09 1992
DIVISION OF
OIL GAS & MINING

Prepared for:

EXXON EXPLORATION COMPANY
P.O. BOX 4778
HOUSTON, TEXAS 77210

Prepared by:

TERRATEK GEOSCIENCE SERVICES
UNIVERSITY RESEARCH PARK
360 WAKARA WAY
SALT LAKE CITY, UTAH 84108

February 1992

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EXXON EXPLORATION COMPANY

STEEL CREEK # 1 WELL
SUMMIT COUNTY, UTAH

TerraTek Project No. 5144

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P.O. Box 1600
Midland, Texas 79702

Attn: Mr. Joe Glass

Introduction

Diamond coring equipment and oil base mud were used in the Steel Creek # 1 Well in Summit County, Utah to obtain 4.0-inch diameter core. The interval and formation cored are listed on the enclosed Core Interval Summary. A representative of TerraTek Geoscience Services was at wellsite to retrieve the core and prepare it for transport to the TerraTek laboratory in Salt Lake City, Utah. Core fluids were preserved by wrapping the core with Saran film and placing the wrapped core in sealed polytubes.

The following routine core analysis measurements were requested: fluid saturations by the Dean-Stark method, porosity and grain density by the Boyle's law method, and horizontal permeabilities to nitrogen gas. These measurements were performed on one-inch diameter plug samples. The interval 16,105' to 16,156' was analyzed; the bottom three-foot interval, being shale, was not analyzed.

Procedures

Upon arrival in the laboratory, a core gamma log was recorded. Horizontal plug samples were drilled from the core parallel to bedding using odorless mineral spirits as the bit coolant. Plug end pieces were saved for petrographic analyses.

Fluid saturations were measured by means of the solvent distillation extraction (Dean-Stark) technique using toluene as the solvent. Oil remaining in the samples following the Dean-Stark extraction process was removed by batch cleaning the plugs with toluene in a large reflux soxhlet. The samples were dried in a convection oven at 110°C prior to porosity and permeability measurements being performed.

Porosities were determined by measuring grain volumes and bulk volumes. Grain volumes were measured in a helium expansion

porosimeter using Boyle's law. Bulk volumes were measured by buoyant weight in mercury using Archimedes' principle. Grain volumes were also utilized to compute grain densities.

Horizontal permeabilities to nitrogen were measured in a pressurized Hassler sleeve. Sleeve pressure of 400 psi was used to prevent gas from flowing around the sample. Downstream steady-state flow was monitored with an orifice-equipped pressure transducer.

Results

Results of the tests described above appear following the Core Interval Summary in graphical and tabular form. A plot of the total gamma ray activity appears on the Teklog, along with plots of grain density, horizontal permeability, porosity, and fluid saturations. Following the Teklog, the test results are tabulated, including a key to the lithological abbreviations and a Data Summary. The zones of the summary are based on variations in porosity and permeability. A porosity versus permeability crossplot is included at the end of this report.

CORE INTERVAL SUMMARY

EXXON EXPLORATION COMPANY

STEEL CREEK # 1 WELL
SUMMIT COUNTY, UTAH

TerraTek Project No. 5144

CORE NO.	INTERVAL	FORMATION
1	16,105' - 16,163'	Cedar Mountain

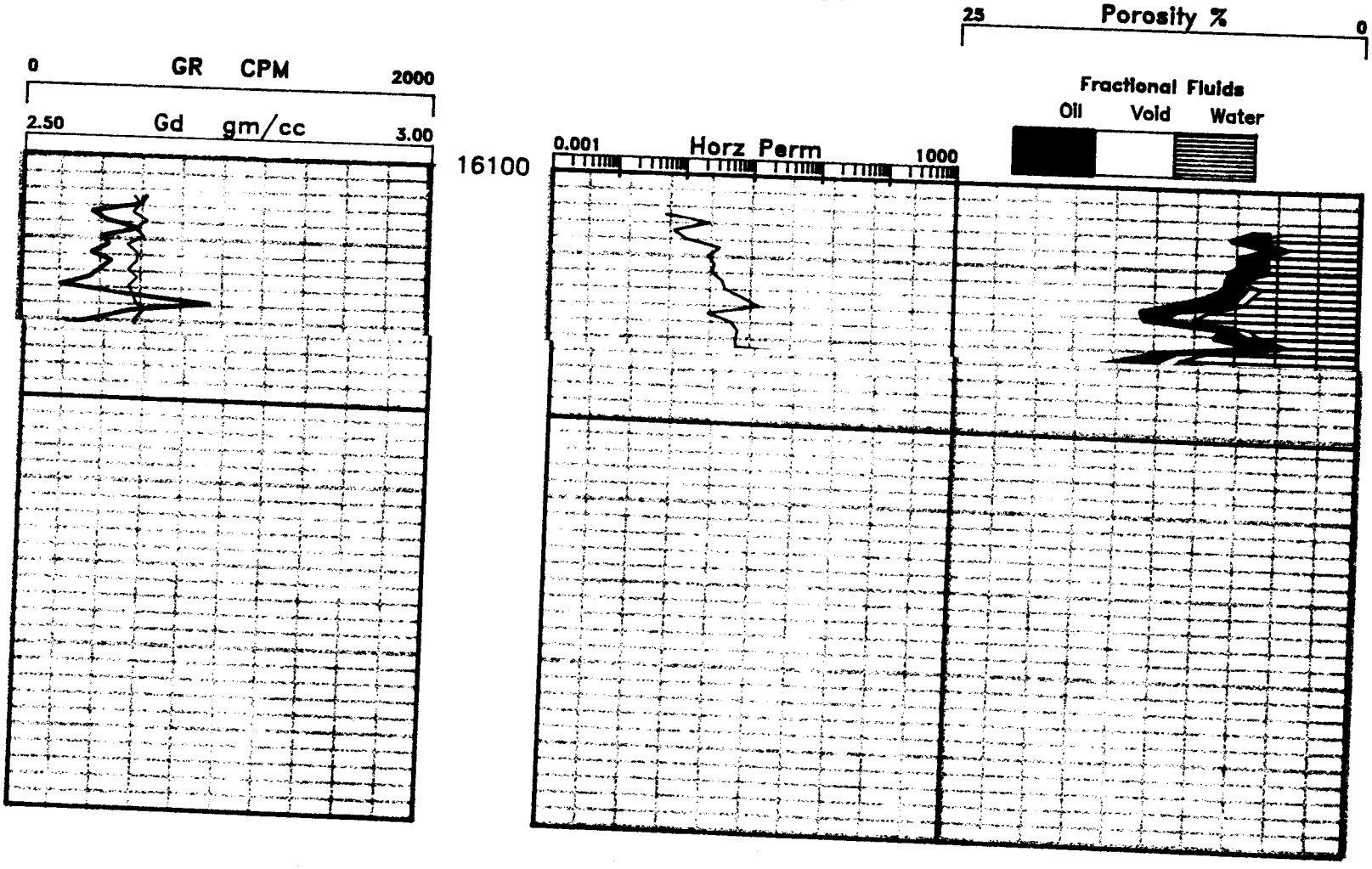
TERRA TEK GEOSCIENCE SERVICES

360 Wakara Way, SLC Utah 84108 (801) 584-2480

EXXON EXPLORATION COMPANY
Steel Creek #1 Well

TEKLOG

January 30, 1992
TTGS File No.: 5144



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EXXON EXPLORATION COMPANY

Well:	Steel Creek #1	State:	Utah	Date:	3-FEB-1992
Field:	Wildcat	County:	Summit	TTCS File #:	5144
Drilling fluid:	Oil Base	Location:	Sec.34, T34N, R13E	Elevation:	

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability Horz (md)	Permeability Vert (md)	Porosity %	Saturation Oil %	Saturation H2O %	Grain Density (gm/cc)	Lithology
Cedar Mountain Formation								
1	16105.0-06.0	.05		6.6	15.1	72.9	2.64	Ss,ltgy,vf-fgr,sil,cly
2	16106.0-07.0	.22		7.9	17.5	82.3	2.64	Ss,ltgy,vf-fgr,sil,cly,sl/cgl
3	16107.0-08.0	.07		5.6	16.7	78.6	2.64	Ss,ltgy,vf-fgr,sil,cly,cgl
4	16108.0-09.0	.10		7.3	16.9	77.4	2.65	Ss,ltgy,vf-fgr,sil,cly,cgl
5	16109.0-10.0	.32		7.4	22.4	76.2	2.64	Ss,ltgy,fgr,sil,cly
6	16110.0-11.0	.22		8.0	21.5	70.3	2.65	Ss,bf,fgr,sil,cly
7	16111.0-12.0	.27		8.2	7.9	89.3	2.63	Ss,bf,fgr,sil,cly
8	16112.0-13.0	.25		8.4	16.9	72.1	2.64	Ss,bf,fgr,sil,cly
9	16113.0-14.0	.36		9.4	21.0	70.0	2.64	Ss,bf,fgr,sil,cly
10	16114.0-15.0	.41		11.4	32.0	62.6	2.63	Ss,bf,f-mgr,sil,cly,fri
11	16115.0-16.0	.74		13.4	16.0	69.0	2.64	Ss,bf,f-mgr,sil,cly,fri
12	16116.0-17.0	1.3		13.3	8.0	76.5	2.63	Ss,bf,f-mgr,sil,cly,fri
13	16117.0-18.0	.23		8.5	10.1	78.0	2.64	Ss,bf,f-mgr,sil,cly,sl/fri
14	16118.0-19.0	.51		8.8	23.3	67.5	2.64	Ss,bf,f-mgr,sil,cly,sl/fri
15	16119.0-20.0	.63		6.1	22.1	70.3	2.65	Ss,bf-mgy,f-mgr,sil,cly
16	16120.0-21.0	.59		12.5	10.3	74.8	2.64	Ss,bf,f-cgr,sil,cly,sl/fri
17	16121.0-22.0	.62		14.6	15.3	75.4	2.64	Ss,bf w/blk str,f-mgr,sil,cly,lig,fri
18	16122.0-23.0	21.		17.0	8.4	67.4	2.65	Ss,bf,f-mgr,sil,sl/cly,sl/fri
19	16123.0-24.0	.54		17.9	12.6	79.1	2.64	Ss,bf,f-mgr,sil,cly,fri
20	16124.0-25.0	1.3		14.2	18.1	72.5	2.64	Ss,bf-ltgy,m-vcgr,sil,cly,fri

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EXXON EXPLORATION COMPANY
Well: Steel Creek #1

Date: 3-FEB-1992

TTCS File #: 5144

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability Horz (md)	Permeability Vert (md)	Porosity %	Saturation Oil %	Saturation H2O %	Grain Density (gm/cc)	Lithology
21	16125.0-26.0	40.		16.9	9.5	74.9	2.64	Ss,bf,mgr,sil,cly,fri
22	16126.0-27.0	3.4		14.7	23.3	63.5	2.64	Ss,ltgy,m-cgr,sil,cly,v/fri
23	16127.0-28.0	4.1		14.4	17.4	73.2	2.63	Ss,ltgy,m-cgr,sil,cly,fri
24	16128.0-29.0	1.6		15.0	17.3	62.5	2.65	Ss,bf,f-cgr,sil,cly,fri
25	16129.0-30.0	25.		15.1	14.5	64.6	2.64	Ss,bf,f-mgr,sil,sl/cly,fri
26	16130.0-31.0	10.		18.1	2.9	77.9	2.63	Ss,bf,f-mgr,sil,cly,fri
27	16131.0-32.0	6.4		17.6	24.9	57.5	2.64	Ss,bf,fgr,sil,sil,cly,fri
28	16132.0-33.0	.58+		8.2	24.3	67.5	2.64	Ss,bf,fgr,sil,cly,cly clasts,styl
29	16133.0-34.0	7.0		16.2	12.9	66.8	2.63	Ss,bf,fgr,sil,cly,sl/fri
30	16134.0-35.0	5.8		17.3	13.5	71.3	2.63	Ss,bf,fgr,sil,cly,sl/fri
31	16135.0-36.0	33.		18.1	14.2	69.0	2.64	Ss,bf,fgr,sil,cly,fri
32	16136.0-37.0	2.8		6.3	17.3	79.5	2.63	Ss,m-dkgy,m-vcgr,sil,cly,styl
33	16137.0-38.0	.16		7.3	32.8	52.1	2.64	Ss,bf-gy,f-cgr,sil,cly,sl/fri
34	16138.0-39.0	1.2		13.9	24.7	64.5	2.64	Ss,bf,f-mgr,sil,cly,fri
35	16139.0-40.0	.42		12.7	21.7	58.8	2.65	Ss,bf,f-mgr,sil,cly,fri
36	16140.0-41.0	2.2+		8.6	34.1	58.9	2.64	Ss,bf,fgr,sil,cly,cly clasts,styl
37	16141.0-42.0	.31		11.6	13.2	72.2	2.64	Ss,bf,fgr,sil,cly
38	16142.0-43.0	113.+		17.3	22.3	68.1	2.64	Ss,bf,fgr,sil,cly,cly clasts,fri
39	16143.0-44.0	.36		6.7	32.8	53.8	2.65	Ss,bf,fgr,sil,slty,sl/cly,fri
40	16144.0-45.0	.38		9.6	16.1	83.8	2.64	Ss,bf,vf-fgr,sil,cly
41	16145.0-46.0	1.5		12.1	7.4	87.0	2.63	Ss,ltgy,vfgr,sil,cly
42	16146.0-47.0	.61		10.6	28.4	70.8	2.64	Ss,ltgy,vfgr,sil,cly

+ - Dehydration crack affecting permeability

TerraTek Geoscience Services®

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EXXON EXPLORATION COMPANY
Well: Steel Creek #1

Date: 3-FEB-1992

TTCS File #: 5144

PLUG DEAN-STARK ANALYSIS

Sample Number	Depth (feet)	Permeability Horz (md)	Permeability Vert (md)	Porosity %	Saturation Oil %	Saturation H2O %	Grain Density (gm/cc)	Lithology
43	16147.0-48.0	.25		9.4	29.0	69.5	2.64	Ss,ltgy,vfgr,sil,cly,bdd
44	16148.0-49.0	.61		8.6	18.6	80.3	2.62	Ss,ltgy,vfgr,sil,cly,lig lam
45	16149.0-50.0	3.4+		10.6	6.2	90.7	2.65	Ss,ltgy,vfgr,sil,v/cly,lig lam
46	16150.0-51.0	.41		5.0	5.0	94.5	2.66	Ss,ltgy,vf-fgr,sil,cly,pyr
47	16151.0-52.0	.26+		9.4	15.1	70.7	2.65	Ss,ltgy,vf-fgr,sil,cly
48	16152.0-53.0	1.8		8.9	18.4	78.7	2.66	Ss,ltgn,vfgr,sil,glauc,cly,bdd
49	16153.0-54.0	.51		8.2	25.2	70.4	2.66	Ss,ltgn,vfgr,sil,glauc,cly,bdd
50	16154.0-55.0	1.5		11.2	11.9	85.8	2.63	Ss,ltgy,vfgr,sil,cly,fri
51	16155.0-56.0	2.6+		11.8	12.2	82.9	2.64	Ss,ltgy,vfgr,sil,v/cly,v/fri
	16156.0-59.0							Shale; No analysis
	16159.0-63.0							Not recovered

+ - Dehydration crack affecting permeability

DESCRIPTION SCHEME FOR CARBONATE SEDIMENTARY ROCKS:
ROCK TYPE, COLOR, GRAIN SIZE / CRYSTAL SIZE, POROSITY TYPE, ACCESSORIES

DESCRIPTION SCHEME FOR CLASTIC SEDIMENTARY ROCKS:
ROCK TYPE, COLOR, GRAIN SIZE, CEMENT, STRUCTURES AND ACCESSORIES

KEY TO ABBREVIATIONS:

aff	-	anhydrite filled fracture	frac	-	fracture	pff	-	pyrite filled fracture
alt	-	altered	fri	-	friable	pis	-	pisolitic
anhy	-	anhydrite(ic)	gff	-	gouge filled fracture	pk	-	pink
arg	-	argillaceous	glauc	-	glauconitic	pof	-	partially open fracture
bdd	-	bedded	gn	-	green	ppvgs	-	pinpoint vugs
bent	-	bentonite	gr	-	grain(ed)	ptg	-	parting(s)
bf	-	buff	grnl	-	granule	purp	-	purple
biot	-	bioturbated	gy	-	gray	pyr	-	pyrite(ic)
bit	-	bitumen	gyp	-	gypsum(iferous)	qff	-	quartz filled fracture
bl	-	blue(ish)	hem	-	hematite(ic)	qtz	-	quartz
blk	-	black	if	-	incipient fracture	red	-	red
bnd	-	banded	incl	-	inclusion	sa	-	salty
brec	-	breccia(ted)	intprt	-	interparticle	sdy	-	sandy
brn	-	brown	intrprt	-	intraparticle	sh	-	shale
bur	-	burrowed	intxl	-	intercrystalline	shy	-	shaley
c	-	coarse	lam	-	laminated	sid	-	siderite
calc	-	calcite(areous)	lav	-	lavender	sil	-	silica(eous)
carb	-	carbonaceous	lig	-	lignite(ic)	sl/	-	slightly
cff	-	calcite filled fracture	ls	-	limestone	sltst	-	siltstone
cgl	-	conglomerate	lt	-	light	slty	-	silty
chky	-	chalky	m	-	medium	ss	-	sandstone
chlor	-	chlorite	mar	-	maroon	stn	-	stain(ed)(ing)
cht	-	chert	mas	-	massive	str	-	streak
chty	-	cherty	mic	-	micro	styl	-	stylolite
cly	-	clay(ey)	mica	-	micacious	suc	-	sucrosic
clyst	-	claystone	mol	-	moldic	tan	-	tan
dism	-	disseminated	nod	-	nodule(s)	v/	-	very
dk	-	dark	o	-	oil	vc	-	very coarse
dff	-	dolomite filled fracture	of	-	open fracture	vf	-	very fine
dol	-	dolomite(ic)	ool	-	oolitic	vgy	-	vuggy
f	-	fine	org	-	organic	wh	-	white
fen	-	fenestral	orng	-	orange	wthrd	-	weathered
fis	-	fissile	pbl	-	pebble	yel	-	yellow
fos	-	fossil(iferous)	pel	-	peloids	xl	-	crystalline

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EXXON EXPLORATION COMPANY

Well:	Steel Creek #1	State:	Utah	Date:	3-FEB-1992
Field:	Wildcat	County:	Summit	TTCS File #:	5144
Drilling fluid:	Oil Base	Location:	Sec.34, T34N, R13E	Elevation:	

PLUG DEAN-STARK ANALYSIS
DATA SUMMARY

Zone Number	Depth Interval (feet)	Number of Samples	Permeability Horz (md)	Permeability Vert (md)	Porosity %	Saturation Oil %	Saturation H2O %	Grain Density (gm/cc)
Cedar Mountain Formation								
1	16105.0-09.0	4	.11 [0.078]		6.9 [1.02]	16.6 [1.01]	77.8 [3.84]	2.64 [0.00]
2	16109.0-20.0	11	.48 [0.326]		9.3 [2.36]	18.3 [7.41]	72.9 [7.02]	2.64 [0.00]
3	16120.0-43.0	23	12. [24.55]		14.1 [3.59]	17.6 [7.55]	68.4 [7.33]	2.64 [0.00]
4	16143.0-54.0	11	.92 [0.977]		9.0 [1.93]	18.4 [9.64]	77.3 [11.7]	2.65 [0.01]
5	16154.0-56.0	2	2.1 [0.740]		11.5 [0.38]	12.1 [0.19]	84.3 [2.02]	2.64 [0.00]

[] Sample Standard Deviation

Terra Tek Geoscience Services®

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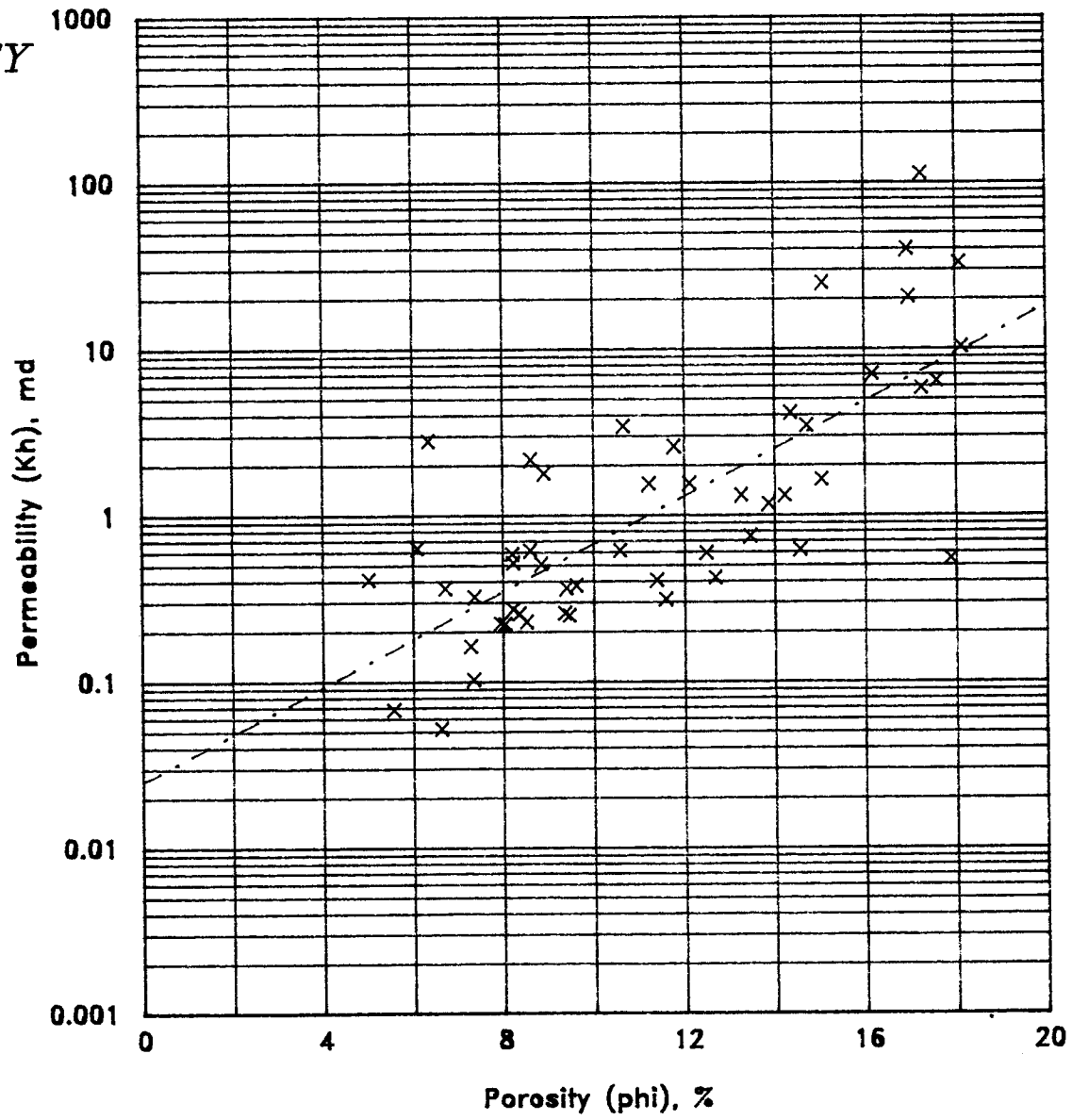
HORIZONTAL PERMEABILITY VS POROSITY

EXXON EXPLORATION COMPANY
Steel Creek #1 Well
Wildcat
Summit County, Utah
January 30, 1992

Depth Interval: 16105 to 16156 Feet		
TTGS# 5144		
Porosity (phi), %		
Min	Max	Average
5.003	18.124	11.323
Permeability (Kh), md		
Min	Max	Geo. Ave
0.052	112.610	1.049
Equation of the Line		
log Kh = α phi + β		
log Kh = 0.1430 phi −1.5981		
Correlation Coefficient : 0.756		
Cedar Mountain Formation		



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