



**Powers Elevation, Inc.**

OIL WELL ELEVATIONS-LOCATIONS  
ENVIRONMENTAL-ARCHAEOLOGICAL SERVICES  
P.O. Box 2612  
Denver, Colorado 80201-2612  
Phone 303/321-2217  
Toll Free 1-800-824-2550

February 10, 1988

Utah Department of Natural Resources  
Division of Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, UT 84114

**RECEIVED**  
FEB 12 1988

**DIVISION OF  
OIL, GAS & MINING**

RE: Application to Drill  
Chieftain International, Inc.  
#1 Federal  
NE SW, Sec 11 T40S R23E  
San Juan County, Utah

Gentlemen:

Enclosed are three copies of Federal APD Form 3160-3, the Location and Elevation Plat, the Drilling Program (Exhibit B) and the Blowout Preventer Equipment Diagram for the above-referenced proposed oil well.

Water for drilling operations will be provided by Hay Hot Oil, Inc. of Montezuma Creek, Utah. Enclosed is a copy of their water permit application showing the source of water. Statements regarding waste and trash disposal have been sent to the Utah Department of Health. This program does not utilize any county roads or lands; therefore no county agencies are involved.

If you have any questions, please contact me at the above toll-free number.

Please return approval to:

Mr. Richard M. Zajic  
Chieftain International Inc.  
444 17th Street, Suite 618  
Denver, Colorado 80202

Sincerely,

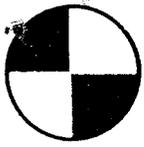
POWERS ELEVATION, INC.

*Connie L. Frailey*

Connie L. Frailey  
Vice President, Environmental Services

CF:nt

cc: Richard Zajic, Chieftain International Inc.



# Powers Elevation, Inc.

OIL WELL ELEVATIONS-LOCATIONS  
ENVIRONMENTAL-ARCHAEOLOGICAL SERVICES  
P.O. Box 2612  
Denver, Colorado 80201-2612  
Phone 303-321-2217  
Toll Free 1-800-824-2550

February 10, 1988

~~Bureau of Land Management  
Moab District Office  
P. O. Box 970  
Moab, Utah 84532~~

**RECEIVED**  
FEB 12 1988

RE: Filing Application for Permit to Drill  
Chieftain International, Inc.  
#1 Federal  
NE SW, Sec 11 T40S R23E  
San Juan County, Utah  
Lease SL-070968-B

DIVISION OF  
OIL, GAS & MINING

Gentlemen:

Enclosed are four copies of APD Form 3160-3 and Drilling Plan for the above-referenced proposed well location. The wellsite and access road were inspected on November 20, 1987.

A Class III archaeology survey has been done and the report already submitted to your office. Designation of Operator forms from Reynolds Metal have also been sent previously. Enclosed with this application are:

1. A copy of Chieftain International's Nationwide Bond, #6104237-1;
2. One copy each of agreements executed by Lorraine Thomas on behalf of the Navajo Nation, Johnny and Fred Johnson for use of private land, and Texaco, Inc., all regarding use of the access roads.

Notification regarding water use, and waste and sewage disposal has been made to the appropriate State agencies. There are no county or State-owned lands involved.

Chieftain International will be sending another certificate of merger between Reynolds Mining and Reynolds Metal, with a listing of the leases involved, to Connie Seare in the State BLM Office.

If anything else is required, please call me at the toll-free number in our letterhead. Thank you for your assistance.

Sincerely,

POWERS ELEVATION, INC.

*Connie L. Frailey*

Connie L. Frailey

cc: Richard M. Zajic, Chieftain International, Inc.  
William Mahoko II, Powers Elevation, Farmington, NM

Powers Elevation  
P.O. Box 2612  
Denver, Colorado 80201-2612

RE: Chieftain International, Inc.  
#1 Federal  
NE SW, Sec 11 T40S R23E  
1980' FS & 1980' FW  
San Juan County, Utah

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing applications for necessary drilling and associated permits, including Form 3160-3 and Drilling Plan, for the above-referenced well.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use program and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

POWER'S responsibilities do not include construction of location or supervision of drilling, completion, rehabilitation, or production operations.

Chieftain International, Inc.  
Company

by: Richard M Zajic

Title: Exploration Manager

Date: February 8, 1988

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

SUBMIT IN TRIPPLICATE\*  
(Other Instructions on reverse side)

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

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

**1A. TYPE OF WORK**  
 DRILL       DEEPEN       PLUG BACK

**B. TYPE OF WELL**  
 OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

**2. NAME OF OPERATOR**  
 Chieftain International, Inc.

**3. ADDRESS OF OPERATOR**  
 444 17th Street, Suite 618, Denver, CO 80202

**4. LOCATION OF WELL** (Report location clearly and in accordance with any State requirements \*)  
 At surface: 1980' FSL & 1980' FWL (NE SW)  
 At proposed prod. zone: same

**14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\***  
 10 miles north of Montezuma Creek, Utah

**15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.** (Also to nearest drlg. unit lide, if any)      660'

**16. NO. OF ACRES IN LEASE**      640

**17. NO. OF ACRES ASSIGNED TO THIS WELL**      40 acres

**18. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.**      1900'+

**19. PROPOSED DEPTH**      6078' *initial*

**20. ROTARY OR CABLE TOOLS**      Rotary

**21. ELEVATIONS (Show whether DF, RT, GR, etc.)**  
 5005 GR

**22. APPROX. DATE WORK WILL START\***  
 March 1, 1988

**5. LEASE DESIGNATION AND SERIAL NO.**  
 SL-070963-B

**6. IF INDIAN, ALLOTTED OR TRIBE NAME**  
 N/A

**7. UNIT AGREEMENT NAME**  
 N/A

**8. FARM OR LEASE NAME**  
 Chieftain Federal

**9. WELL NO.**  
 1

**10. FIELD AND POOL, OR WILDCAT**  
~~Aneth-Desert Creek Offset~~

**11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA**  
 Sec 11, T40S R23E

**12. COUNTY OR PARISH**      **13. STATE**  
 San Juan      Utah

**23. PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	16"	65#, H-40	40'	25 sx Class "B"
12-1/4"	9-5/8"	36#, K-55	1950'	550 sx 35:65 Poz, 200 sx Class B
8-3/4"	5-1/2"	15.5#, 17#	6078'	220 sx Thixotropic

**EXHIBITS ATTACHED:**

- "A" Location and Elevation Plat
- "B" Drilling Program
- "C" Blowout Preventer Equipment Diagram
- "D" Surface Use Program
- "E" & "E<sub>1</sub>" Access Road Maps, Wells in Area
- "F" Application for Water Permit
- "G" Drill Pad Layout, Proposed Production Facilities
- "G<sub>1</sub>" Cut-Fill Cross Sections
- "H" Drill Rig Layout

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

**24.** SIGNED Richard M. Zajac TITLE Exploration Manager DATE February 10, 1988

(This space for Federal or State office use)  
 PERMIT NO. 43-037-31391

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

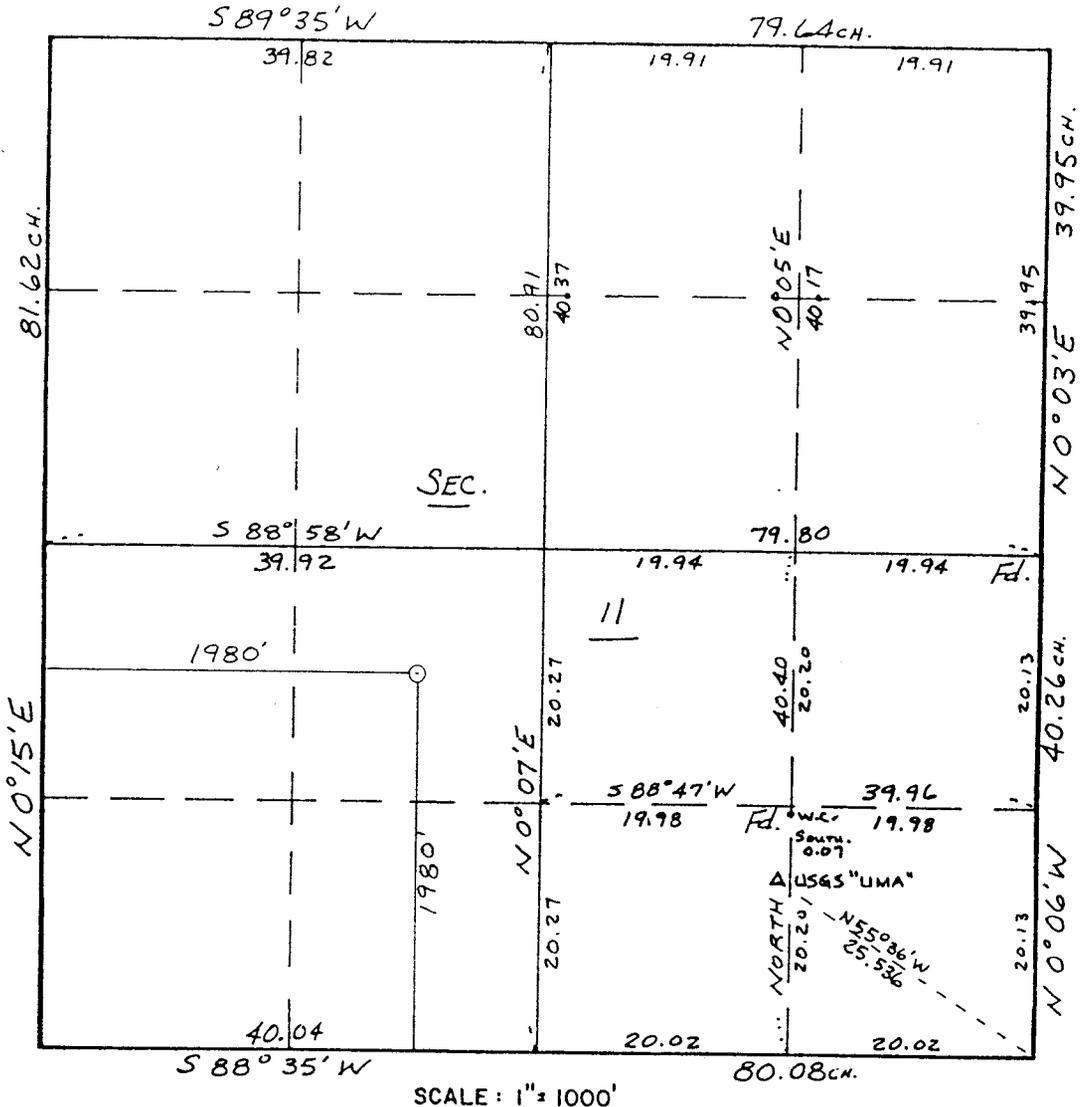
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

DATE 2-24-88  
 BY John R. Bays  
 WELL SPACING: R65-3-2

\*See Instructions On Reverse Side

Location and Elevation Plat

COMPANY CHIEFTAIN INTERNATIONAL, INC.  
 LEASE FEDERAL WELL NO. 1  
 SEC. 11, T. 40 S, R. 23 E  
 COUNTY San Juan STATE Utah  
 LOCATION 1950' FSL & 1950' FWL  
 ELEVATION 5005



SCALE: 1" = 1000'

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



*William E. Mahnke II*  
 WILLIAM E. MAHNKE II  
 NEW MEXICO P.L.S. NO 8466

SURVEYED Oct. 26 1987

EXHIBIT "B"DRILLING PROGRAM

Attached to Form 3160-3  
 Chieftain International, Inc.  
 #1 Federal  
 NE SW, Sec 11 T40S R23 E  
 1980' FSL 7 1980 FWL  
 San Juan County, Utah

1. The Geologic Surface Formation

The surface formation is Jurassic - Morrison and Lower Dakota.

2. Estimated Tops of Important Geologic Markers

Navajo	1220	Ismay	5701
Keyenta	1415	Gothic Shale	5856
Wingate	1551	Desert Creek	5878
Chinle	1853	Base Desert Creek	6008
Shinarump	2625	Akah	6034
Moenkopi	2695		
Cutler	2936	TD	6078'
Hermosa	4881		

3. Estimated Depths (Tops and Bottoms) of Anticipated Water, Oil, Gas or Minerals and Operator's Plans for Protection

Navajo	1220 - 1415	water
Ismay	5701 - 5856	oil
Desert Creek	5878 - 6008	oil

Sufficient casing will be set to protect all potentially productive hydrocarbon zones. Casing will be tested to 0.2 psi/ft or 100 psi, whichever is greater.

#### 4. The Proposed Casing and Cement Program

HOLE SIZE	SETTING DEPTH (INTERVAL)	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE & JOINT	NEW OR USED
17-1/2	0 - 40'	40'	16"	65#,H-40,ST&C	
12-1/4"	0 - 1950'	1950'	9-5/8"	36#,K-55,ST&C	New
8-3/4"	0 - 5500'	5500'	5-1/2"	15.5#,K-55,LT&C	New
8-3/4"	5500 - TD	575'	5-1/2"	17#,K-55,LT&C	New

#### Cement Program

Conductor: 25 sx Class "B" with 3% CaCl<sub>2</sub>. Cement top at surface.

Surface Casing: 550 sx 35:65 Poz with 6% Gel, 2% CaCl<sub>2</sub> 0.25#/sk cellophane flake. Tail in 200 sx Class "B" with 2% CaCl<sub>2</sub>, 0.25#/sk cellophane flake. Cement top at surface.

Production Casing: 220 sx Thixotropic with 10% salt, 10# PPS Cal Seal and 0.6% fluid loss additive. Cement top at 5000'.

#### 5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the BOP equipment.

Annular preventer will be tested to 50% and the rest of the BOP stack will be tested to 70% of minimum internal yield of casing, after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil on the surface. Heavier muds will be on location to be added if pressure requires.

DEPTH	TYPE	WEIGHT #/gal	VISCOSITY sec/qt	FLUID LOSS cc
0 - 1950'	Gel/lime	8.4 - 8.6	27 - 35	NC
1950-5300'	Water w/gel and lime sweeps	8.4 - 8.6	27 - 35	NC
5300-TD	Dispersed	9.0 - 11.0	35 - 45	8 - 10

7. The Auxiliary Equipment to be Used

- (a) A kelly cock will be kept in the string.
- (b) A float will not be used at the bit.
- (c) A mud logging unit, gas detecting device, and flow sensor will be monitoring the system.
- (d) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging, and Coring Programs to be Followed

- (a) One Drill Stem test will be run in the Ismay at  $\pm$  5750', and one in the Desert Creek at  $\pm$ 5948'.
- (b) The logging program will consist of the following:
 

Dual	6078 to surface casing
BHC Sonic-GR	6078 to surface casing
CNL-LDT	6078 to 5650'
Cyber Look	6030' to 5870'
- (c) One 60' core will be taken from Desert Creek.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted for approval.

9. Any Anticipated Abnormal Pressures or Temperatures

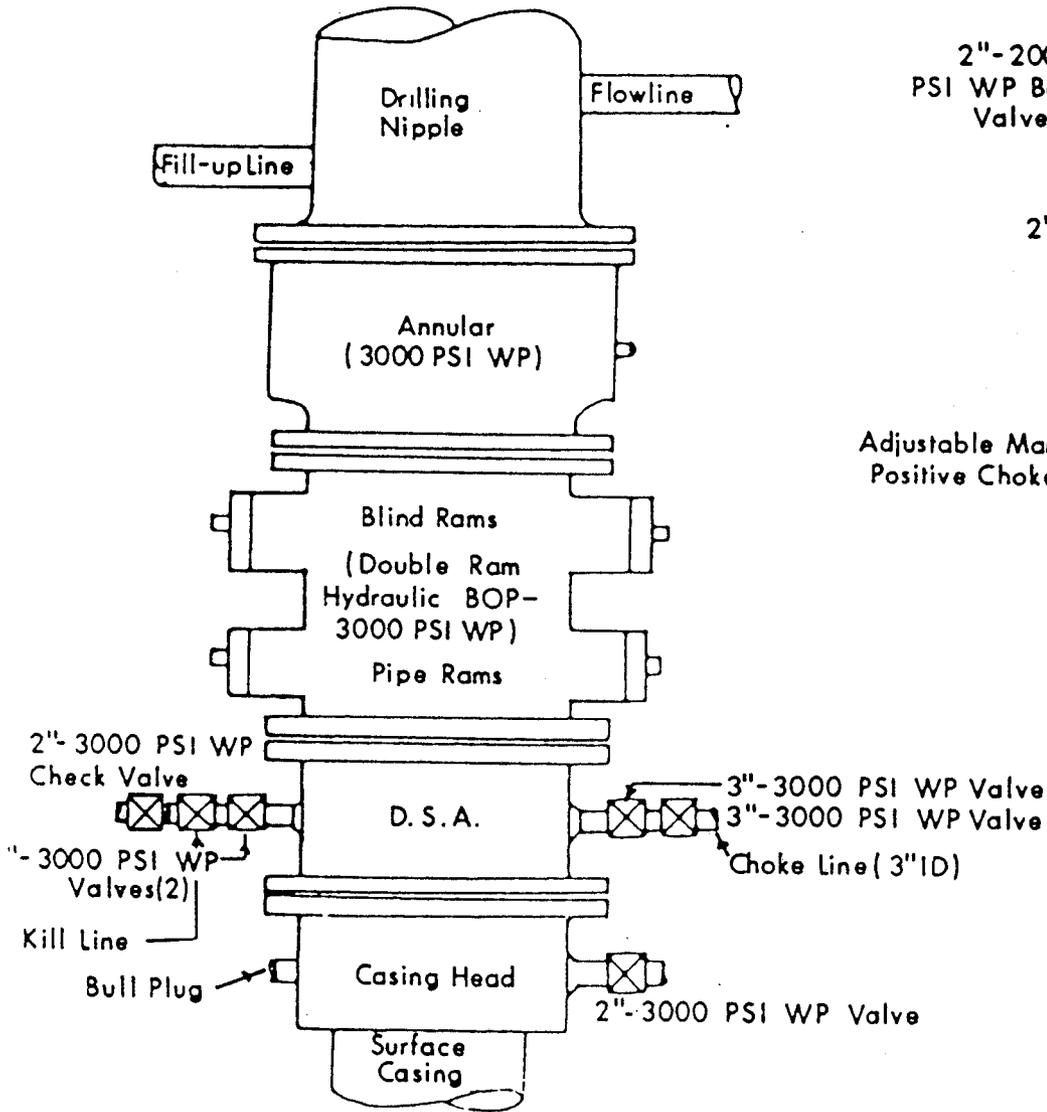
No abnormal pressures or temperatures have been noted or reported in wells drilled in the area, nor at the depths anticipated in this well. Bottom hole pressure expected is 3000 psi.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

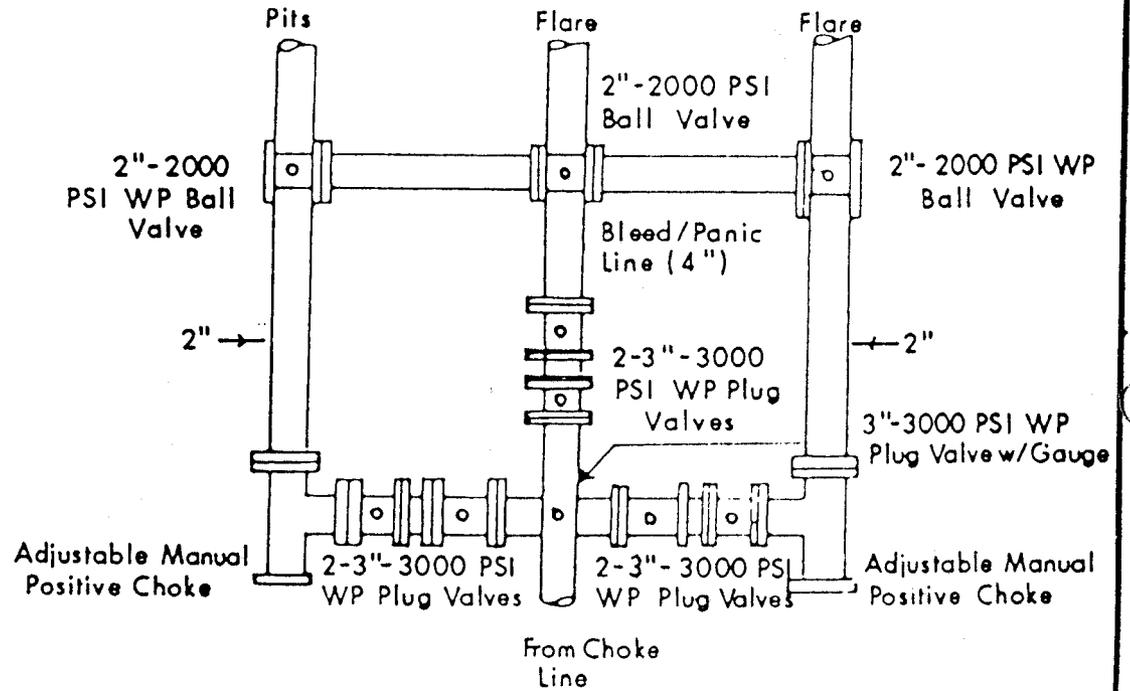
10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is March 1, 1988, or as soon as possible after examination and approval of drilling requirements. Operations will cover 15 days for drilling and 10 days for completion; up to six months for clean up depending upon weather.

**BOP SCHEMATIC  
3000 PSI WORKING PRESSURE**



**PLAN VIEW CHOKES MANIFOLD**



The hydraulic closing unit will be located more than 30' from the wellhead. Choke & bleed/panic lines will go to the pit and flare. All connections in choke line and manifold will be flanged or welded. All flanges should be ring joint gasket type. All turns in lines shall be constructed using targeted 90° tees or block ells. All lines shall be anchored.

**BOPE SCHEMATIC**

EXHIBIT "E"

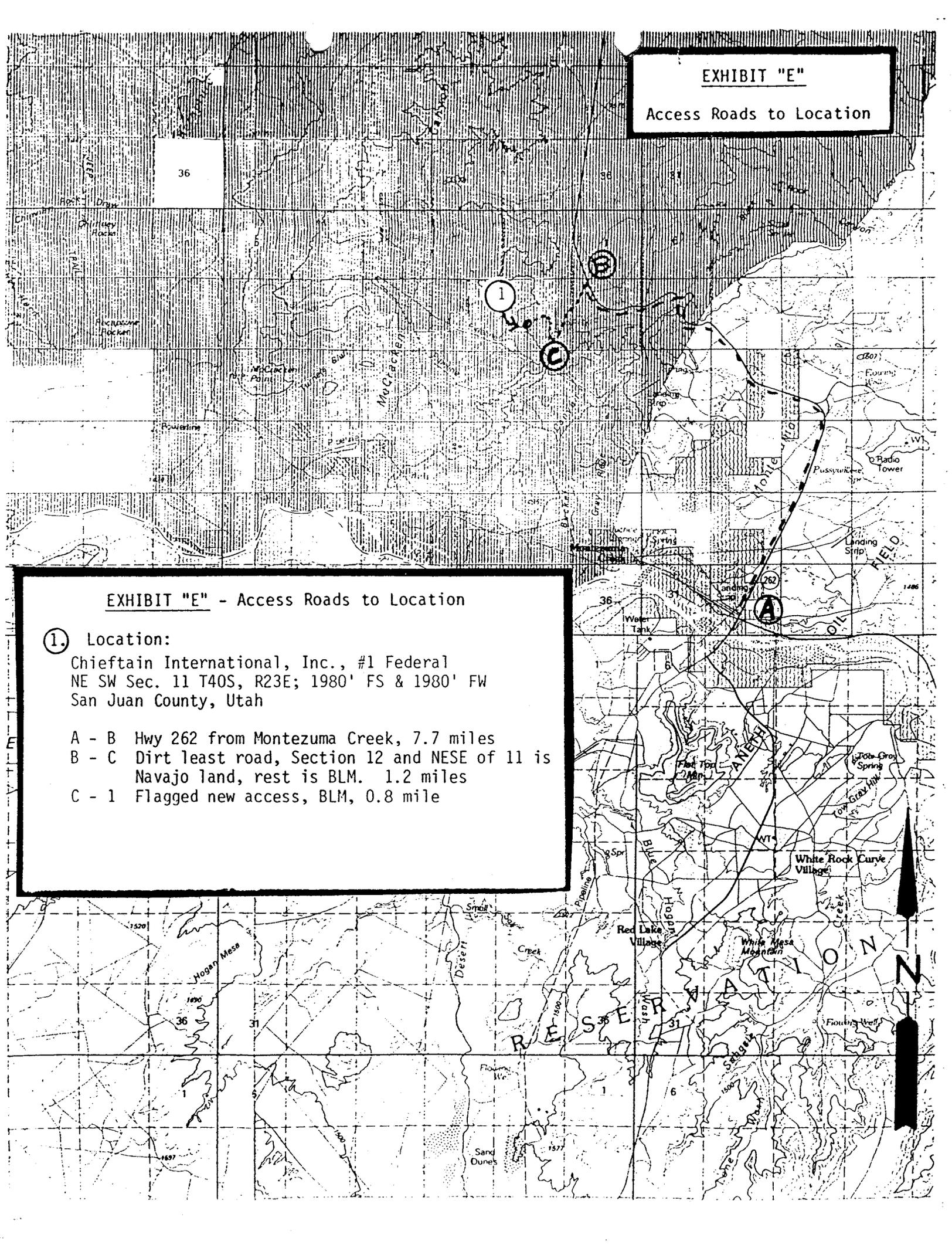
Access Roads to Location

EXHIBIT "E" - Access Roads to Location

① Location:

Chieftain International, Inc., #1 Federal  
NE SW Sec. 11 T40S, R23E; 1980' FS & 1980' FW  
San Juan County, Utah

- A - B Hwy 262 from Montezuma Creek, 7.7 miles
- B - C Dirt least road, Section 12 and NESE of 11 is Navajo land, rest is BLM. 1.2 miles
- C - 1 Flagged new access, BLM, 0.8 mile



030117

OPERATOR Chieftain International, Inc. DATE 2-12-88

WELL NAME Chieftain Federal #1

SEC NE SW 11 T 40S R 23E COUNTY San Juan

43-037-31391  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'  
Need water permit  
Exception to Cause 17 granted administratively  
per R.S. Fitch + John Dwyer.  
Lease holder has all of SW/4.

APPROVAL LETTER:

SPACING:

R615-2-3

UNIT

R615-3-2

17 2-24-60  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1 - Water



February 24, 1988

*N0300(A)*  
Chieftain International, Inc.  
444 17th Street, Suite 618  
Denver, Colorado 80202

CORRECTED APPROVAL

Gentlemen:

Re: Chieftain Federal #1 - NE SW Sec. 11, T. 40S, R. 23E  
1980' FSL, 1980' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with order of Cause No. 17, dated February 24, 1960, 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.

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

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form to the Division within five working days of the time that the well is spudded or a change in operations or interests necessitates a change in entity status.
3. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
4. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.

Page 2  
Chieftain International, Inc.  
Chieftain Federal #1  
February 24, 1988

5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
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 43-037-31391.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson

8159T



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

February 24, 1988

Chieftain International, Inc.  
444 17th Street, Suite 618  
Denver, Colorado 80202

Gentlemen:

Re: Chieftain Federal #1 - NE SW Sec. 11, T. 40S, R. 23E  
1980' FSL, 1980' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules, 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.

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

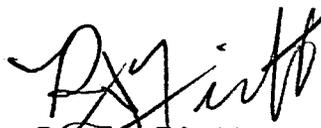
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Chieftain Federal #1  
February 24, 1988

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R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson

8159T

030117

COMPANY: Chieftain Int'l Inc. UT ACCOUNT # NO300 SUSPENSE DATE: 3-01-88

WELL NAME: Chieftain Fed. #1

API #: 43-037-31391

SEC, TWP, RNG: 11, T.40S, R.23E

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Connie Frailey / Powers Elevation, Inc.

CONTACT TELEPHONE NO.: 303/321-2217

SUBJECT: Operator address has two locations "mother company" Chieftain Int'l, Inc.  
1201 Toronto Dominion TWR, Edmonton / Canada.

Alternate address is 444 17th Street, Suite 618 Denver Colorado 80202.

(Use attachments if necessary)

RESULTS:

Alternate address in Denver.

(Use attachments if necessary)

CONTACTED BY: J. Romero

DATE: 3-1-88

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

**RECEIVED**  
MAR 16 1988  
DIVISION OF  
OIL, GAS & MINING

1A. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

B. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
 Chieftain International, Inc.

3. ADDRESS OF OPERATOR  
 444 17th Street, Suite 618, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 1980' FSL & 1980' FWL (NE SW)  
 At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 10 miles north of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest dr/g. unit line, if any) 660'  
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 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 acres

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 20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5005 GR  
 22. APPROX. DATE WORK WILL START\* March 1, 1988

PROPOSED CASING AND CEMENTING PROGRAM

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EXHIBITS ATTACHED:

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- "D" Surface Use Program
- "E" & "E1" Access Road Maps, Wells in Area
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- "G1" Cut-Fill Cross Sections
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24. SIGNED Richard M. Zajac TITLE Exploration Manager DATE February 10, 1988  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY /S/ GENE NODINE TITLE DISTRICT MANAGER DATE MAR 14 1988  
 CONDITIONS OF APPROVAL, IF ANY:

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

CONDITIONS OF APPROVAL ATTACHED  
 \*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.

Location and Elevation Plat

COMPANY CHIEFTAIN INTERNATIONAL, INC.

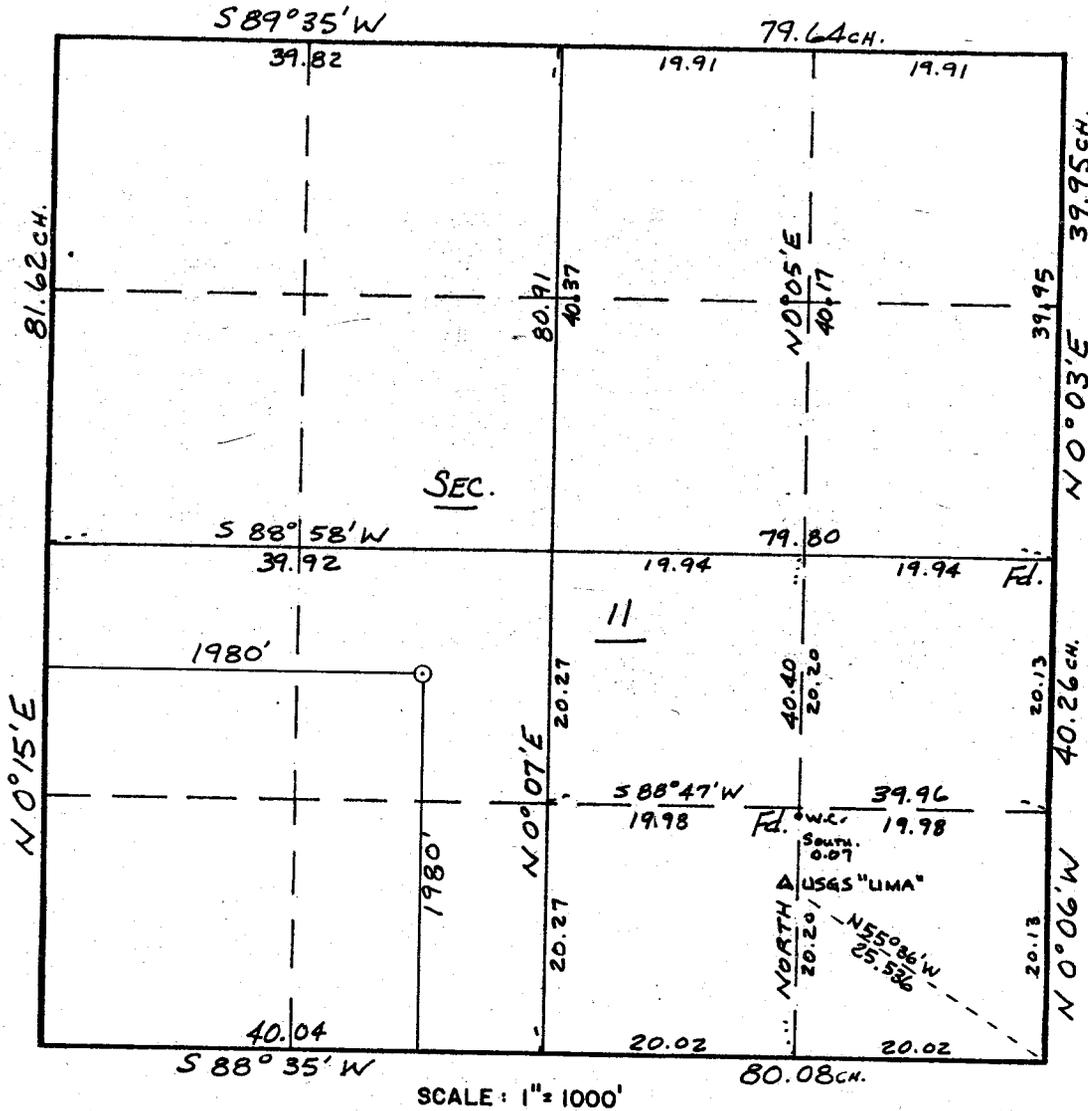
LEASE FEDERAL WELL NO. 1

SEC. 11, T. 40 S, R. 23 E

COUNTY San Juan STATE Utah

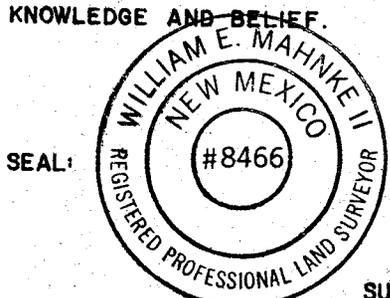
LOCATION 1980'FSL & 1980'FWL

ELEVATION 5005



SCALE: 1" = 1000'

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



*William E. Mahnke II*  
 WILLIAM E. MAHNKE II  
 NEW MEXICO P.L.S. No 8466

SURVEYED OCT. 26, 1987

Chieftain International, Inc.  
Well No. Chieftain Federal 1  
Sec. 11, T. 40 S., R. 23 E.  
San Juan County, Utah  
Lease SL-060968-B

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

A. DRILLING PROGRAM

Pressure control equipment will be pressure tested according to standards set forth in API RP 53. Pressure tests will be conducted prior to drilling out from casing shoes.

B. THIRTEEN POINT SURFACE USE PLAN

1. All persons in the area who are associated with the project will be informed by the holder that they will be subject to prosecution for disturbing archaeological sites or collecting artifacts. If subsurface cultural material is exposed during construction, work at that spot will stop immediately and the BLM, San Juan Resource Area Office will be contacted (801) 587-2141. The holder will be responsible for the cost of evaluation of the discovery and proper mitigation measures. Any decision as to proper mitigation shall be made by the authorized officer after consulting with the holder.
2. If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

NOTIFICATIONS

Notify the San Juan Resource Area, at (801) 587-2141 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

~~1 day prior to running and cementing surface casing;~~

~~1 day prior to pressure testing of BOPE and/or surface casing.~~

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer      Office Phone: (801) 259-6111

Home Phone: (801) 259-6239

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111

Home Phone: (801) 259-7990

Paul Brown, I&E Coordinator

Office Phone: (801) 259-6111

Home Phone: (801) 259-7018

24 hours advance notice is required for all abandonments.





STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

June 13, 1988

Chieftain International, Inc.  
444 17th Street, Suite 618  
Denver, Colorado 80202

Gentlemen:

Re: Request for Completed Entity Action Form

This is written to remind you that all well operators are responsible for sending an Entity Action Form to the Division of Oil, Gas and Mining within five working days of spudding a new well. This office was notified that your company spudded the Chieftain Federal #1 API Number 43-037-31391 on March 26, 1988. At this time, we have not received an Entity Action Form for this well.

Please review the instructions on the back of the enclosed form. Make sure you choose the proper Action Code to show whether the well will be a single well with its own sales facilities (Code A), a well being added to an existing group of wells having the same tank battery and common division of royalty interest (Code B - show existing Entity Number to which well should be added), or a well being drilled in the participating area of a properly designated unit (Code B). Complete the form and return it to us by June 24.

Your attention to this matter is appreciated. If we can be of assistance to you, please feel free to call.

Sincerely,

Don Staley  
Administrative Supervisor

Enclosure  
cc: D.R. Nielson  
R.J. Firth  
0682S

**RECEIVED**  
SEP 26 1988

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Chieftain Int'l Inc.  
ADDRESS 1201 Toronto Dominion Tower  
Edmonton Alberta, Canada T5J 2Z1

OPERATOR CODE N0300  
PHONE NO. 403 425-1950

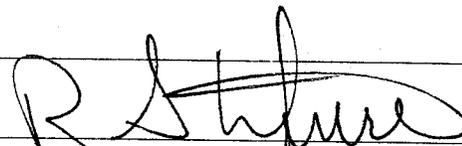
DIVISION  
OIL, GAS & MINING

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					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10932	43-037-31391	Chieftain Federal #1	NESW	11	40S	23E	San Juan	3-26-88	
COMMENTS: State lease Field-Greater Aneth Not in a Unit Proposed Zone - Akah (only well in sec. 11 operated by Chieftain Int'l, assign new entity 10932 on 9-26-88) JCR											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

- ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)  
 B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)  
 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  
 Assistant Mgr. 9/21/88  
 TITLE DATE

**RECEIVED**  
SEP 29 1988

ENTITY ACTION FORM - DOGM FORM 6

OPERATOR Chieftain International, Inc.

OPERATOR CODE No300

ADDRESS 1201 Toronto Dominion Tower

PHONE NO. (403) 425-1950

EDMONTON CENTRE

DIVISION OF  
OIL & MINING

EDMONTON, ALBERTA T5J 2Z1 CANADA

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					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	None	10932	4303731391	#1 Chieftain Federal	NE/SW	11	40S	23E	San Juan	3-26-88	

COMMENTS:  
*was assigned 9-26-88. (see action form received 9-26-88) for*

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

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COMMENTS:

--	--	--	--	--	--	--	--	--	--	--	--

COMMENTS:

- ACTION CODES:
- A - ESTABLISH NEW ENTITY FOR NEW WELL (SINGLE WELL ONLY)
  - B - ADD NEW WELL TO EXISTING ENTITY (GROUP OR UNIT WELL)
  - 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 *[Signature]*  
 TITLE SR. VICE PRESIDENT  
 DATE Sept. 23/88  
 EXPLORATION & DEVELOPMENT



CHIEFTAIN INTERNATIONAL INC.

1201 TORONTO DOMINION TOWER, EDMONTON CENTRE, EDMONTON, ALBERTA, CANADA T5J 2Z1  
TELEPHONE (403) 425-1950 TELECOPIER 429-4681 TELEX 037-3499

DIS DTS  
② LCR

September 22, 1988

**RECEIVED**  
SEP 29 1988

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

**DIVISION OF  
OIL, GAS & MINING**

Attention: Mr. Don Staley  
Administrative Supervisor

Gentlemen:

Re: No. 1 Chieftain Federal, San Juan County, Wyoming  
Request for Completed Entity Action Form

Please accept our apologies for not returning the above mentioned form as required. With the transfer of records from our Denver office to the Edmonton office it was inadvertantly misplaced.

Yours truly,

CHIEFTAIN INTERNATIONAL, INC.

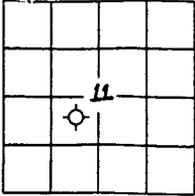
G. W. Youell  
Sr. Vice President  
Exploration and Development

GWY/js  
enclosure

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 BUREAU OF LAND MANAGEMENT

INDIVIDUAL WELL RECORD

Sec. 11  
 T. 40 S.  
 R. 23 E.  
SLB& Mer.  
 Ref. No. \_\_\_\_\_



FEDERAL

Date April 26, 1988

Lease No. SL-070968B  
 Lessee Chieftain International Inc. 75% et al  
 Operator Chieftain International, Inc.  
 Well Name & No. Chieftain Federal 1  
 A.P.I. Well No. 43-037-31391

State Utah  
 County San Juan  
 Field Aneth  
 Unit/CA \_\_\_\_\_  
 District Moab  
 Subdivision NESW

Location 1980' FSL; 1980' FWL  
 Date Drilling Approved March 14, 1988  
 Date Drilling Commenced March 26, 1988  
 Date Drilling Ceased April 11, 1988

Well Elevation 5005 GR; 5019 KB Feet  
 Total Depth 6105; PB surface Feet  
 Initial Production Dry

Oral to Abandon  
 Date Completed For Production April 8, 1988  
 SRA approved MAR 7 1989

Gravity A.P.I. \_\_\_\_\_  
 Initial Reservoir Pressure \_\_\_\_\_

Abandonment Approved (Final)  
FAN Approval June 16, 1991  
 GEOLOGIC FORMATIONS

PRODUCTIVE HORIZONS

SURFACE	LOWEST TESTED	NAME	DEPTHS	CONTENTS						
<u>Morrison</u>	<u>Akah</u>									
<table border="1"> <tr> <td>SURFACE MANAGEMENT AGENCY</td> <td><u>BLM</u></td> </tr> <tr> <td>MINERAL OWNERSHIP</td> <td><u>BLM</u></td> </tr> <tr> <td>LEASE EXPIRATION</td> <td><u>11/30/60</u></td> </tr> </table>					SURFACE MANAGEMENT AGENCY	<u>BLM</u>	MINERAL OWNERSHIP	<u>BLM</u>	LEASE EXPIRATION	<u>11/30/60</u>
SURFACE MANAGEMENT AGENCY	<u>BLM</u>									
MINERAL OWNERSHIP	<u>BLM</u>									
LEASE EXPIRATION	<u>11/30/60</u>									

WELL STATUS

YEAR	JAN.	FEB.	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1988			SPUD	Oral to Abn SRA rec'd								
1989			SRA approved 3/7/89									
1991						FAN approved						

First Production Memorandum 12/18/57 Lease Extension Memorandum 2/11/58 Confirmation \_\_\_\_\_

9/2/66 Held by Loc in Producing Aneth Unit

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

RECEIVED  
JUL 15 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOGS OF OIL GAS & MINING

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

2. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

3. NAME OF OPERATOR  
Chieftain International, Inc.

4. ADDRESS OF OPERATOR  
1201 TD Tower, Edm. Centre, Edmonton, Alberta T5J 2Z1 Canada

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
At surface 1980' FSL & 1980' FWL (NESW)  
At top prod. interval reported below Same  
At total depth Same

6. LEASE DESIGNATION AND SERIAL NO.  
SL-070968B

7. IF INDIAN, ALLOTTEE OR TRIBE NAME  
NA

8. UNIT AGREEMENT NAME  
NA

9. FARM OR LEASE NAME  
NA

10. WELL NO.  
CHIEFTAIN FED. #1

11. FIELD AND POOL, OR WILDCAT  
Aneth-Desert Creek Offset

12. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
SEC. 11 T. 40S, R. 23E

14. API NO. 43-037-31391 DATE ISSUED \_\_\_\_\_

12. COUNTY SAN JUAN 13. STATE UTAH

15. DATE SPUNDED 3-26-88 16. DATE T.D. REACHED 4-11-88 17. DATE COMPL. (Ready to prod.) 4-11-88 (Plug & Abd.) 18. ELEVATIONS (DF, RES, RT, GR, ETC.) 5005' GR 5019' KB 19. ELEV. CASING HEAD 5005'

20. TOTAL DEPTH, MD & TVD 6105' 21. PLUG BACK T.D., MD & TVD Surf. 22. IF MULTIPLE COMPL. HOW MANY NA 23. INTERVALS DRILLED BY ROTARY TOOLS 0 - TD CABLE TOOLS NA

24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)  
NA

25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN MOP CYBERLOOK  
DLL-MSFL, LDT-CNL-GR, EPT, BHC-Sonic 9-23-91

27. WAS WELL CORED YES  NO  (Submit analysis)  
DRILL STEM TEST YES  NO  (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	36	1978'	12-1/4	Cmt-550 sxs Lite (35:65:6) w/2% CaCl2 w/1/4 per sk flocele, followed by 200 sxs Class B 2% CaCl2	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)
NA				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
NA		

31. PERFORATION RECORD (Interval, size and number)  
NA

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NA	

33. PRODUCTION

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

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

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

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

TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS  
DST Report attached

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

SIGNED S. Jay Milner TITLE Mgr. Drilling & Production DATE 7/9/91

See Spaces for Additional Data on Reverse Side

## INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

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

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

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

### 37. SUMMARY OF POROUS ZONES:

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

Formation	Top	Bottom	Description, contents, etc.	Name	Meas. Depth	True Vert. Depth	Top	
Desert Creek	5938	6100	DST #1 6006' - 6036' Times 20 - 60 - 60 - 120 Recovery (pipe) 120' GCM, 230' HGCM&O, 70' GCM & W Recovery (Sampler) 300cc oil, 1300cc WCM, 1.1 cu.ft.gas Pressures IH-3074 FH-3056 IF-94-105 FF-184-205 ISI-2710 FSI-2828	Dechelly Cedar Mesa Honaker Upper Ismay Lower Ismay Gothic Upper Desert Base Desert Cr Akah	3826' 3899' 4536' 5766' 5894' 5914' 5938' 6038' 6100'	3826' 3899' 4536' 5766' 5894' 5914' 5938' 6038' 6100'		
Desert Creek	5938'	6100'	DST #2 6039' - 6050' Times 20 - 60 - 60 - 120 Recovery (pipe) 70' Mud Recovery (Sampler) 1800cc Mud Pressures: IH-3116 FF-56-64 FH-3095 ISI-2610 IF-42-43 FSI-2565					

38.

### GEOLOGIC MARKERS

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

Route original/copy to:

Well File \_\_\_\_\_

Suspense  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

Other  
\_\_\_\_\_  
\_\_\_\_\_

(Location) Sec \_\_\_ Twp \_\_\_ Rng \_\_\_  
(API No.) \_\_\_\_\_

1. Date of Phone Call: 8-27-91 Time: 1:35

2. DOGM Employee (name) U (Initiated Call   
Talked to: \_\_\_\_\_

Name JAY MILNER (Initiated Call  - Phone No. 403425-1950  
of (Company/Organization) Chieftan Int'l N0300

3. Topic of Conversation: NEED DST & LOGS  
CHIEFTAN FED #1  
40S 23E 11 43 037 3/391

4. Highlights of Conversation: \_\_\_\_\_  
WILL SEND RIGHT AWAY

MIKE DAVIES 214-734-7104  
STATED THE INFO ON BACKLOG WORK IS ALL  
HE HAS. HE IS SORRY HE CANT BE OF FURTHER  
HELP.

12-31-91  
9:05

*Need logs  
9-23-91*

# Log Request

7-31-91

Phillips Rutherford	20-68	43-037-31591	415-248-00	NLI
Cheftan International	Cheftain Fed #1	43-037-31391	405-238-11	NLI
Phillips Rutherford	24-32	43-037-31593	415-238-24	NLI
Zinke & Trumbo	Cottonwood Ridge 1-19	43-013-30933	55-4W-19	NLI



**CHIEFTAIN**  
INTERNATIONAL (U.S.) INC.

**RECEIVED**

SEP 23 1991

SENT VIA COURIER

September 20, 1991

DIVISION OF  
OIL GAS & MINING

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

Attention: Vicky Carney

Dear Ms. Carney,

Re: #1 Chieftain Federal, Aneth Field  
San Juan County, Utah 405 23E 11

Enclosed please find copies of final logs on the above-  
noted well as you requested.

Please call if you require any further information.

Yours truly,

Chieftain International (U.S.) Inc.

S. Jay Milner  
Manager, Drilling & Production

/mis  
Encl.

Logs rec'd:

Compensated Neutron - Litho-Density  
Borehole Compensated Sonic Log  
MOP Cyberlook  
Electromagnetic Propagation Log  
Dual Laterolog Micro - SFL

All logs are half size and will probably not  
be filmed.