



Date: FEBRUARY 14, 2000

**H2S CONTIGENCY PLAN**

Company Name: TOM BROWN, INC.

Address: 555 17<sup>TH</sup> STREET SUITE 1850  
DENVER, CO 80202-3918

Well Name: LISBON C-9101

T.D.: 4,200'

Location: SW1/4 SE 1/4 OF SECTION 10, T305, R24E, SLB.-M.696' FSL 1483' FEL

Field Name: LISBON

H2S Formation and depth: ISMAY 4,086-4,121, LEADVILLE 9,000

(H2S safety equipment and supervision needs to be on location 1000ft. above H2S formation)

**OPERATIONS SUPERINTEDEDENT:**

Name: GREG OLSON

Office Tele: 303-260-5068

Home Tele: 303-205-9896

Cell 303-324-9391

**COMPANY MAN:**

Name: UNKNOWN AT THIS TIME

Office Tele:

Home Tele:

**GEOLOGIST:**

Name: CHRIS MULLEN

Office Tele: 303-260-5044

Home Tele: 303-679-9474

Cell 303-808-9790

**RIG CONTRACTOR:**

Name UNKNOWN AT THIS TIME

Rig Number:

Rig Tele:

**DRILLING SUPERITENDENT:**

Name: UNKNOWN AT THIS TIME

Office Tele:

Home Tele:

**TOOL PUSHERS:**

Name: UNKNOWN AT THIS TIME

Home Tele:

**ENV& SAFETY MAINAGER**

Name: Brant Gimmeson

Office Tele: 303-260-5030

Home Tele: 303-680-1568

Cell 303-883-4665

I. **INTRODUCTION** H2S is a toxic, poisonous gas that could cause death or injury. The objective of this contingency plan is to provide an organized plan of action for alerting and protecting the public from H2S exposure in the event a potentially hazardous volume is accidentally released to the atmosphere. This plan should be activated immediately if any such release occurs. The Drilling Superintendent is responsible for initiating and carrying out the plan.

II. **INDIVIDUAL RESPONSIBILITIES** It is the responsibility of all personnel on the location to familiarize themselves with the procedures outlined in this contingency plan.

A. All Personnel:

1. Responsible for his assigned safety equipment.
2. Responsible for familiarizing himself with the location of all safety equipment.
3. Responsible for reporting any indications of H2S to those in the area and to a supervisor.

B. Drilling Superintendent:

1. Responsible for thoroughly understanding and seeing that all aspects of this contingency plan are enforced.
2. Responsible for implementing all phases of this contingency plan.
3. Responsible for keeping a minimum of personnel on the locating during expected hazardous operations.
4. Responsible for coordinating all well site operations and communications in the event that an emergency condition develops.
5. Responsible for ensuring that all visitors receive an H2S Safety Orientation. A visitors log will be maintained as well as a list of all personnel on the location after drilling has progressed to the suspected H2S formation.

III. **LOCATION LAYOUT**

A. The location of a least two pre-determined safe areas to assemble at in the event of an emergency. These locations should be located 180 degrees to one another, and in the direction of the prevailing winds.

B. H2S rig monitor with three (3) heads. One located at the bell nipple, one located at the shale shaker, and a third one on the rig floor. Indicate here any other additional H2S detector locations for this well:

Type:

Location:

Type:

Location:

C. The location and type of all air masks. Self-contained breathing apparatus for use by rig personnel for this well will be kept in the following location(s):

Type: 1 – 30 Min. Rescue Unit	Location: Company Man's Trailer
Type: 1 – 30 Min. Rescue Unit	Location: Tools Pusher's Trailer
Type: 2 – 30 Min. Rescue Units	Location: Briefing Area #1
Type: 2 – 30 Min. Rescue Units	Location: Briefing Area #2
Type: 5 – 5 Min. Escape Units	Location: Rig Floor

If a cascade system is utilized, indicate the location(s):

Type:	Location:
Type:	Location:

D. The location of windsocks or streamers. The wind direction indicators for this well will be located at:

Type: Windsock	Location: Briefing Area #1
Type: Windsock	Location: Briefing Area #2
Type: Windsock	Location: Pits
Type: Windsock	Location: Rig Floor

E. The location of any other safety equipment used, such as flare guns or bug blowers:

Type: Hand Held Detector & Tubes	Location: Rig Floor
Type:	Location:

F. The location of all telephones and/or means of communication are as follows:

Type: Unknown at this time	Location:
Type:	Location:

G. Warning Signs:

1. "NO SMOKING" signs should be strategically located around the rig and rig location. The following locations are appropriate:

- a. Doghouse
- b. Rig Floor
- c. Substructure
- d. Lower landing of all stairs leading to rig floor
- e. Mud pits
- f. Shale shaker

2. "POISON GAS" signs should also be strategically located round the rig and rig location. The following locations are appropriate:

- a. All entrances leading to the location
- b. Lower landing of all stairs leading to rig floor
- c. All areas around substructure, including mud pits and shale shaker
- d. Various points along the perimeter of the radius of exposure.

**NOTE:** All warning signs should be black and yellow in color and of readable size at a reasonable distance.

**IV. OPERATING PROCEDURES** The following operating procedures will be utilized for drilling in areas with H<sub>2</sub>S.

- A. Plan of operating for handling gas kicks and other drilling problems. Any gas kick will be controlled by using approved well control techniques. Upon evidence that ambient H<sub>2</sub>S concentrations have reached 10 PPM, all non-essential personnel will be evacuated to pre-determined safe areas. Personnel remaining on the rig floor will continue to control the well until the situation indicates the area is safe to re-enter.
- B. Special Operations
1. Drill Stem Tests. All drill stem tests must be closed chamber and conducted during daylight hours.
  2. Coring. After a core has been cut, circulate bottoms up and monitor for h<sub>2</sub>s. If hole conditions (and/or detectors) indicate potentially hazardous conditions, put breathing equipment on 10 stands before core barrel reaches the surface. Breathing equipment will be worn by all personnel while core barrel is pulled, broken out and opened up, and until a safe atmosphere is indicated.

**V. OPERATING CONDITIONS** Operating conditions are defined in three categories. A description of each of these conditions and the required action to take are given below.

**A. CONDITION I - Normal Operating Conditions, Potential Danger, Operations Under Control**

Characterized by:	Normal drilling operations and test operations in zones which contain or may contain H <sub>2</sub> S.
Warning Flag:	Yellow
Alarm:	None
Probable Occurrence:	No detectable gas present at surface.
General Action:	(1) Know location of safety equipment. (2) Check safety equipment for proper function. Keep it available. (3) Be alert for a condition change. (4) Follow instructions of supervisor.

**B. CONDITION II - Potential to Moderate Danger to Life**

Characterized by: H2s gas present. Concentration less than 10 PPM.

Warning Flag: Orange

Alarm: Flashing light at 10 PPM H2S.  
Intermittent blasts on horn at 10 PPM H2S.

- Probable Occurrence:
- (1) As drill gas.
  - (2) As trip gas when circulating bottoms up.
  - (3) When a core barrel is pulled.
  - (4) When a well kick is circulated out.
  - (5) Surface pressure, well flow or lost operations.
  - (6) Equipment failure during testing operations.

- General Action:
- (1) Follow instructions of supervisor.
  - (2) Put on breathing equipment if directed, or if conditions warrant it.
  - (3) Stay in "SAFE BRIEFING AREA" if instructed and not working to correct the problem.
  - (4) The Drilling Superintendent will initiate action to reduce the H2S concentration to zero.

**C. CONDITION III - Moderate to Extreme Danger to Life**

Characterized by: H2S present in concentrations at or above 10 PPM. Critical well operations or well control problems. In the extreme, loss of well control.

Warning Flag: Red

Alarm: Flashing light and continuous blast on horn at 10 PPM H2S.

- Probable occurrence:
- (1) As drill gas.
  - (2) As trip gas when circulating bottoms up.
  - (3) When a core barrel is pulled.

- (4) When a well kick is circulated out.
- (5) Surface pressure, well flow or lost returns problems.
- (6) Equipment failure during testing operations.

General Action:

- (1) Put on breathing equipment. Move to "SAFE BRIEFING AREA" and remain there is not working to correct or control problem.
- (2) Follow instructions of Drilling Superintendent or other supervisor.
- (3) The Drilling Superintendent will initiate emergency action as provided in the contingency plan and as appropriate to the actual conditions. If testing operations are in progress the well will be shut in.
- (4) The Drilling Superintendent will conduct any necessary operations with an absolute minimum of personnel. All persons in the immediate area will wear a breathing apparatus. All other personnel will restrict their movements to those directed by the Superintendent.
- (5) If gas containing hydrogen sulfide is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is poisonous.

**VI. EMERGENCY PROCEDURES** The procedures listed below apply to drilling and testing operations.

- A. If at any time during Condition I, the mud logger, mud engineer, or any other person detects H<sub>2</sub>S, he will notify the Drilling Superintendent. All personnel should keep alert to the Drilling Superintendent's orders. He will:
  1. Immediately begin to ascertain the cause or the source of the H<sub>2</sub>S and take steps to reduce the H<sub>2</sub>S concentration to zero. This should include having the mud engineer run a sulfide and pH determination on the flowline mud if water-base mud is in use. If an oil-base mud is in use, the mud engineer should check the lime content of the mud.
  2. Order non-essential personnel out of the potential danger area.
  3. Order all personnel to check their safety equipment to see that it is working properly and in the proper location. Persons without breathing equipment will not be allowed to work in a hazard area.
  4. Notify the Contract Supervisor of condition and action taken.
  5. Increase gas monitoring activities with portable H<sub>2</sub>S detectors and continue operations with caution.
  6. Display the orange warning flag.

B. If the H2S concentration exceed 10 PPM the following steps will be taken:

1. Put on breathing equipment.
2. Display red flag
3. Driller - prepare to shut the well in.
  - a. Pick up pipe to get kelly out of BOP's.
  - b. Close BOP's if necessary.
4. If testing operations are in progress, the well will be shut-in.
5. Help anyone who may be affected by gas.
6. Evacuate quickly to the "SAFE BRIEFING AREA" if instructed or conditions warrant.

C. In the event a potentially hazardous volume of H2S is released into the atmosphere, the following steps must be taken to alert the public:

1. Remove all rig personnel from the danger area and assemble at a pre-determined safe area, preferable upwind from the well site.
2. Alert the drilling office, public safety personnel, regulatory agencies, and the general public of the existence and location of an H2S release. See List of Emergency Telephone Numbers.
3. Assign personnel to block any public road (and access road to location) at the boundary of the area of exposure. Any unauthorized people within the area should be informed that an emergency exists and be ordered to leave immediately.
4. Request assistance from public safety personnel to control traffic and/or evacuate people from the threatened area.

VII. **TRAINING PROGRAM** All personnel associated with the drilling operations will receive training o insure efficient and correct action in all situation. This training will be in the general areas of: (1) personnel safety, (2) rig operations, and (3) well control procedures.

A. **Personnel Safety Training** - All personnel shall have received H2S training in the following areas:

1. Hazards and characteristics of H2S.
2. Effect on metal components of the system.
3. Safety precautions.
4. Operation of safety equipment and life support systems.
5. Corrective action and shutdown procedures

B. **Rig Operations** - All rig personnel shall have received training in the following areas.

1. Well control procedures.
2. Layout and operations of the well control equipment.

NOTE: Proficiency will be developed through BOP drills which will be documented by the Drilling Superintendent

- C. **Service Company Personnel** All service personnel shall have been trained by their employers in the hazards and characteristics of H<sub>2</sub>S and the operation of safety equipment and life support systems.
- D. **Visitors** All first time visitors to the location will be required to attend a safety orientation. The Drilling Superintendent shall be responsible for this orientation and he shall see that every visitor is logged in correctly.
- E. **Public** The public within the area of exposure shall be given an advance briefing by the Drilling Superintendent. This briefing must include the follow elements:
1. Hazards and characteristics of hydrogen sulfide. It is an extremely dangerous gas. It is normally detectable by its "rotten egg" odor, but odor is not a reliable means of detection because the sense of smell may be dulled or lost due to intake of the gas. It is colorless, transparent, and flammable. It is heavier than air and may accumulate in low places.
  2. The necessity of an emergency action plan. Due to the danger of persons exposed to hydrogen sulfide and the need for expeditious action should an emergency occur, this action plan will be put into effect if and when a leak occurs.
  3. The location of hydrogen sulfide within the area of exposure. At the drilling location.
  4. The manner in which the public will be notified of an emergency. By telephone or personal contract.
  5. Steps to be taken in case of an emergency.
    - a. Abandon danger area.
    - b. Notify necessary agencies and request assistance for controlling traffic and evacuating people.



**SERVICE COMPANIES:**

1. Pump Trucks: HALIBURTON
2. Dirt Contractor(s): KSUE CORPORATION MOAB 435-259-2333
3. Roustabout Crew(s): COMPANY PERSONNEL, LISBON PLANT 435-686-7614
4. H2S Service Company: Standby Safety Services, Inc.
5. Others:

Note: All entries should be made in the following manner:

"Name, Tele, Location"



# TOM BROWN, INC.

February 22, 2000

Bureau of Land Management  
Moab Field Office  
82 East Dogwood, Suite M  
Moab, UT 84532

Attn: Minerals

RE: Agent Authorization

Gentleman:

This letter is to inform you that Permitco Inc. is authorized to act as Agent and to sign documents on behalf of Tom Brown Inc. when necessary for filing county, state and federal permits including Onshore Order No. 1, Right of Way applications, etc., for the Utah area.

It should be understood that Permitco is acting as Agent only in those matters stated above and is not responsible for drilling completion, production or compliance with regulations.

Tom Brown, Inc. agrees to accept full responsibility for operations conducted in order to drill, complete and produce the above-mentioned well.

Sincerely,

Brant Gimmeson  
Environmental & Safety Manager

BG/bg

SAN JUAN COUNTY ROAD DEPARTMENT  
 835 East Highway 686  
 Post Office Box 188  
 Monticello, Utah 84536  
 (435) 587-3230  
 Fax (435) 587-2711

Application for Right-of-Way Encroachment Permit

Date February 29, 2000

TO: San Juan County Surveyor/Engineer  
 Post Office Box 188  
 Monticello, Utah 84536

Application is hereby made by: (1) Tom Brown Inc.  
 Address (2) 555 - 17th Street, Ste. 1850 Denver, CO 80202

Telephone Number: 303-260-5000 for permission to do the  
 following: (3) Utilize an existing county road (#114) in order  
to obtain access to a proposed drillsite located as follows.

See Maps A & B Attached.

(4) Location: Lisbon C-910 I  
SW SE Sec. 10, T30S- R24E  
36.7 miles southeast of Moab off Highway 191

City \_\_\_\_\_ County San Juan State Utah  
 or U.S. Highway No. \_\_\_\_\_ Milepost No. \_\_\_\_\_ in accordance  
 with the attached plan. (5)

(6) Construction will begin on or about NA 19\_\_\_\_ and  
 will be completed on or before NA 19\_\_\_\_.

If the proposed installation requires breaking of the  
 pavement, give the following information:

- a. Type of pavement: NA
- b. The opening to be made will be NA feet long by  
 \_\_\_\_\_ feet wide and \_\_\_\_\_ feet deep.
- c. A bond in the amount of \$ 150,000 has been posted with  
the Bureau of Land Management Telephone No. 435-259-6111  
 to run of a term of three (3) years after completion of work to  
 guarantee satisfactory performance.

(7) If this permit is granted, we agree to comply with all  
 conditions, restriction, and regulations as contained in the  
 "Regulations for the Control and Protection of State Highway

Rights-of-Way", approved by the Utah State Road Commission of October 8, 1962, and all revisions thereto or Regulations adopted by the San Juan County Commission.

(8) In approving this application and locations of utilities, and effort will be made to approve only locations that will not be affected in the event that San Juan County changes the roadway. But, in situations in which the utility has to be moved, this moving shall be done by the utility company or paid for by the company.

(9) For any and all applications requesting authority to use vibratory equipment, applicants shall:

- a. Provide map showing where vibrations will take place.
- b. Agree to repair any damages or replace any property damaged.
- c. Take full responsibility for proper flagging and traffic control.
- d. Agree that vibrating done in the area of dirt roads shall be done on the dirt road rather than in the bar ditch to minimize damage.
- e. Provide a schedule of the planned work and estimated dates of completion.
- f. Attach written permission from all adjacent fee-title owners.
- g. The San Juan County commission has authorized the San Juan County Surveyor/Engineer (or his Assignees) to issue permits.

(10) San Juan County can only grant permission to the extent that the County has the authority to do so and the permission granted hereunder is limited to the interest of authority actually owned by San Juan County and no warranties of ownership or authority to grant permission is expressed or implied by the granting of this permit.

*Lisa L. Smith*

BY: Lisa L. Smith  
Consultant for Tom Brown Inc.

TITLE

To be filled in by San Juan County Surveyor/Engineer.

- (1) Permit should be granted \_\_\_\_\_  
Permit should not be granted \_\_\_\_\_
- (2) Additional requirements which should be imposed \_\_\_\_\_

SAN JUAN COUNTY SURVEYOR/ENGINEER

PIPELINE RIGHT OF WAY INFORMATION  
*Lisbon C-9101*

1. The type of pipeline is a gathering system.
2. The outside diameters (O.D.) of all pipe sizes is 4-1/2".
3. The anticipated production through the line (MCF per day) is 1000 MCF.
4. The anticipated maximum test pressure is 1000 psi.
5. The anticipated operating pressure is 200 psi.
6. The type of pipe is steel.
7. The method of coupling is welded.
8. This pipeline will be laid along side an existing 6.625" and 4.5# steel gathering line.
9. There are no other objects to be associated in same pipeline corridor.
10. The total length of pipeline is approximately 2800 feet.
11. The pipeline will be laid on the surface. No trenching will be necessary.
12. The construction width needed for total surface disturbing activities is 35 feet.
13. There are no valves, sphere launchers, or other facilities associated with the proposed pipeline operation.





14421 Weld County Rd.10 • Ft. Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco 1@aol.com

February 29, 2000

Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801

Attn: John Baza

RECEIVED  
FEB 29 2000  
DIVISION OF  
OIL, GAS AND MINING

Re: Tom Brown, Inc.  
Lisbon C-910 I  
696' FSL and 1483' FEL  
SW SE Sec. 10, T30S - R24E  
San Juan County, Utah  
Lease No. U-014903

Dear John,

Enclosed please find three copies of the A.P.D. for the above mentioned well along with one copy of the Onshore Order No. 1 which has been filed with the BLM office in Moab, Utah.

Please be advised that this location falls at non-standard spacing due to topography. Tom Brown Inc. is the lease holder of all leases within a 460' radius. Therefore, we are requesting that you grant administrative approval of this exception to spacing.

If you should have any questions regarding the enclosed material, please don't hesitate to contact me. Your early approval of this application would be greatly appreciated.

Sincerely,

PERMITCO INC.

Lisa L. Smith  
Consultant for:  
Tom Brown, Inc.

Enc.  
cc: Tom Brown, Inc. - Denver, CO

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

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

1a. TYPE OF WORK      **DRILL**                       **DEEPEN**

b. TYPE OF WELL

OIL WELL       GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR                      **303/260-5000**                      **555 - 17th St., Suite 1850**  
**Tom Brown, Inc.**                      **Denver, CO 80202**

3. ADDRESS AND TELEPHONE NO.                      **303/857-9999**                      **14421 County Road 10**  
**PERMITCO INC.**                      **Fort Lupton, CO 80621**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At Surface                      **696' FSL and 1483' FEL**  
At proposed prod. zone                      **SW SE Section 10, T30S - R 24E**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**Approximately 36.7 miles southeast of Moab, UT**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)                      **696'**

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.                      **75'**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**6223' ungraded**

5. LEASE DESIGNATION AND SERIAL NO.  
**U-0141903**

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

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

8. FARM OR LEASE NAME, WELL NO.  
**Lisbon C-910 I**

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**Section 10, T30S - R24E**

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

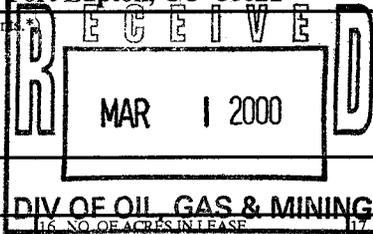
16. NO. OF ACRES IN LEASE                      **560**

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

19. PROPOSED DEPTH                      **4200'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

22. APPROX. DATE WORK WILL START\*  
**Upon Approval**



23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8"	36#	600'	320 sx Class "G" circ to surface
7-7/8"	5/1/2"	15.5#	4200'	500 sx 50/50 Poz est. TOC @600'

Tom Brown, Inc. proposes to drill a well to 4200' to test the Upper Ismay Carbonate formation. If productive casing will be run and the well completed. If dry, the well will be plugged and abandoned as per BLM and State of Utah requirements.

See Onshore Order No. 1 attached.

**CONFIDENTIAL - TIGHT HOLE**

Please be advised that Tom Brown, Inc. is considered to be the Operator of the above mentioned well. Tom Brown, Inc. agrees to be responsible under the terms and conditions of the lease for the operations conducted upon the leased lands.

Tom Brown, Inc. has been designated by proper lease interest owners to conduct operations on the above mentioned lease. Bonding by Tom Brown, Inc. is covered under the Nationwide Bond No. ESO - 183.

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. **Lisa L. Smith**                      Authorized Agent for:  
SIGNED *[Signature]*                      TITLE **Tom Brown, Inc.**                      DATE **02/29/00**

(This space for Federal or State office use)  
PERMIT NO. **43-037-31805**                      APPROVAL DATE

Application approval 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.  
CONDITIONS OF APPROVAL, IF ANY: **Federal Approval of this Action is Necessary**

APPROVED BY *[Signature]*                      TITLE **BRADLEY G. HILL**                      DATE **3/15/00**  
**RECLAMATION SPECIALIST III**

\*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.

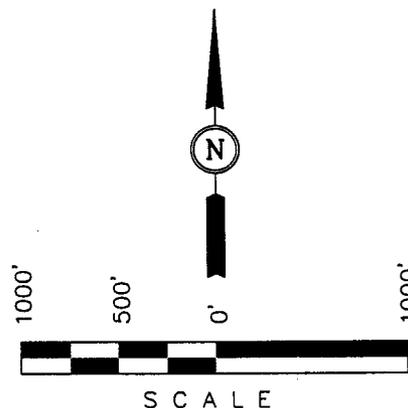
# T30S, R24E, S.L.B.&M.

TOM BROWN INC.

Well location, LISBON C-910I, located as shown in the SW 1/4 SE 1/4 of Section 10, T30S, R24E, S.L.B.&M. San Juan County, Utah.

## BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT A ROAD INTERSECTION IN THE NE 1/4 OF SECTION 16, T30S, R24E, S.L.B.&M. TAKEN FROM THE SANDSTONE DRAW QUADRANGLE, UTAH, SAN JUAN COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6140 FEET.



## CERTIFICATE

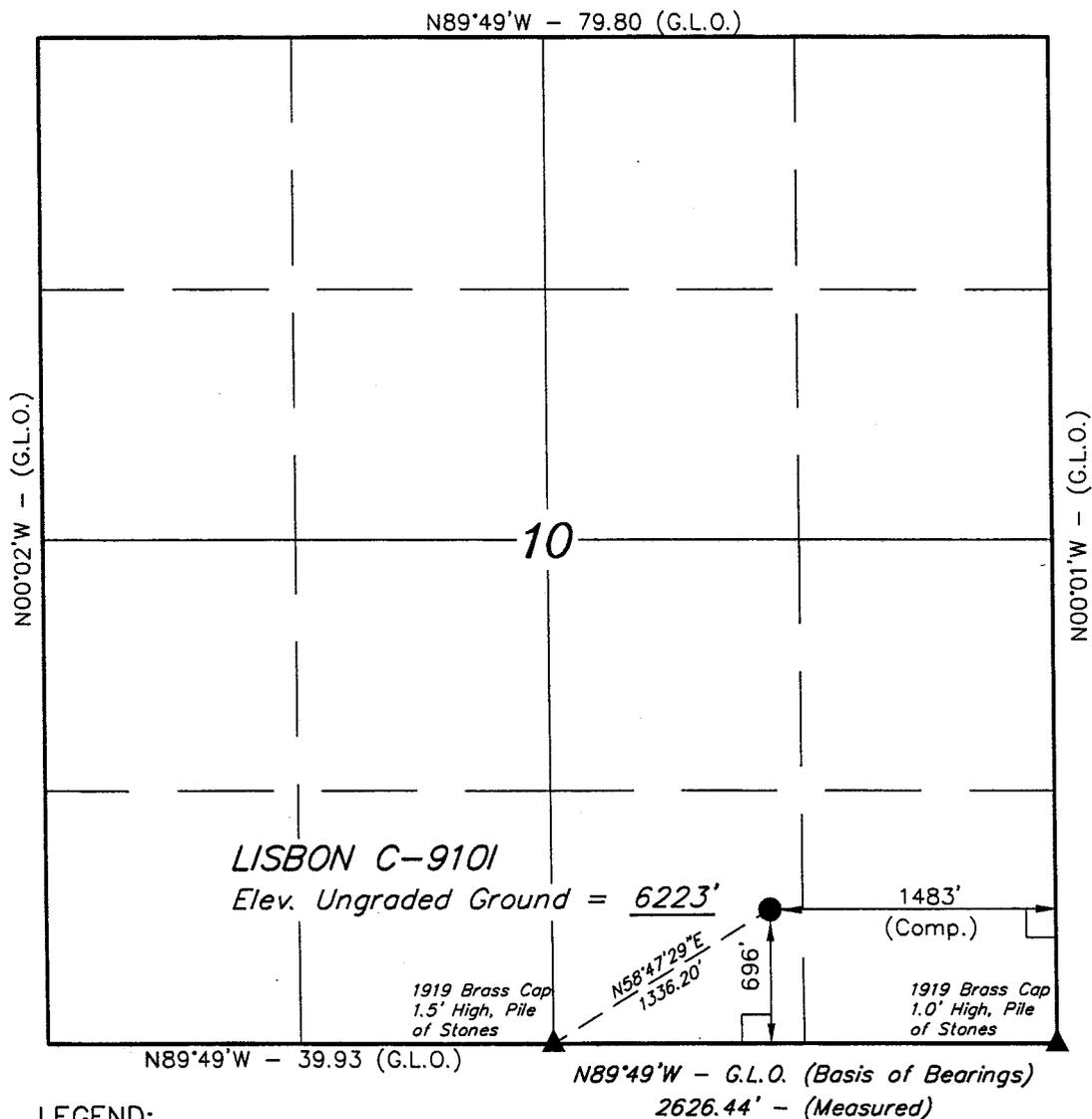
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

W. ROBERT L. KAY  
 No. 161319  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

Revised: 02-16-00 D.R.B.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-03-00	DATE DRAWN: 02-04-00
PARTY G.S. M.A. D.R.B.	REFERENCES G.L.O. PLAT -	
WEATHER COLD	FILE TOM BROWN INC.	



### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

LATITUDE = 38°11'13"  
 LONGITUDE = 109°16'14"

CONFIDENTIAL - TIGHT HOLE

**ONSHORE OIL & GAS ORDER NO. 1**

Approval of Operations on Onshore  
Federal and Indian Oil & Gas Leases

**Lisbon C-910 I**

696' FSL and 1483' FEL  
SW SE Sec. 10, T30S - R24E  
San Juan County, Utah

Prepared For:

**TOM BROWN, INC.**

By:

PERMITCO INC.  
14421 County Road #10  
Ft. Lupton, Colorado 80621  
303/857-9999

**RECEIVED**

MAR 01 2000

DIVISION OF  
OIL, GAS AND MINING

**CONFIDENTIAL - TIGHT HOLE**

Copies Sent To:

- ➔ 4 - BLM - Moab, UT  
1 - Utah Division of Oil, Gas & Mining - SLC, UT  
3 - Tom Brown, Inc. - Denver, CO



**TOM BROWN INC.**  
**LISBON C-910 I**  
 LOCATED IN SAN JUAN COUNTY, UTAH  
 SECTION 10, T30S, R24E, S.L.B.&M.



PHOTO: VIEW FROM RIDGE ABOVE LOCATION

CAMERA ANGLE: NORTH

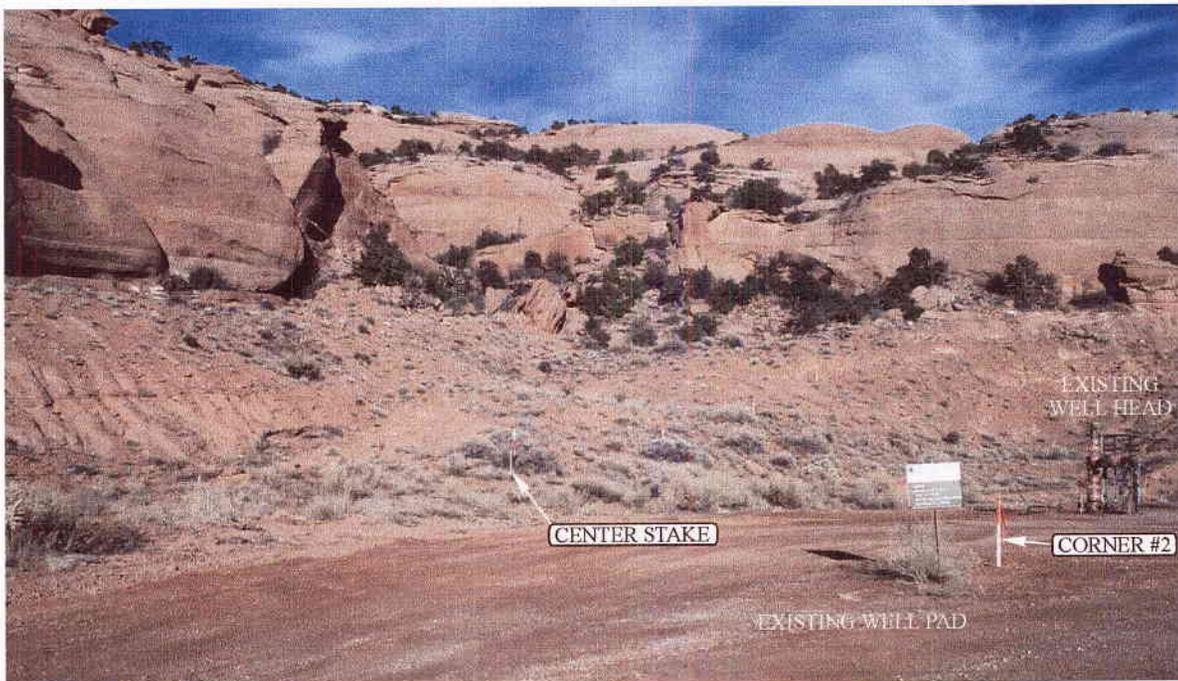


PHOTO: VIEW FROM CORNER #2

CAMERA ANGLE: NORTH EAST



- Since 1964 -

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**LOCATION PHOTOS**

**2** **4** **00**  
 MONTH DAY YEAR

**PHOTO**

TAKEN BY: G.S. DRAWN BY: H.N.M. REVISED: 2-17-00

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Lisbon C-910 I

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**ONSHORE OIL & GAS ORDER NO. 1  
Approval of Operations on Onshore  
Federal and Indian Oil and Gas Leases**

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

**1. ESTIMATED TOPS/ GEOLOGIC MARKERS**

The estimated tops of important geologic markers are as follows:

<i>Formation</i>	<i>Depth</i>	<i>Subsea</i>
Wingate Sand stone	Surface	
Paradox Shale	3676'	2558'
Upper Ismay Anydrite	3772'	2462'
Upper Ismay Carbonate	3794'	2440'
Hovenweep Shale	3838'	2390
Lower Ismay Anydrite	3894'	2340'
Lower Ismay Carbonate	3929'	2305'
Gothic Shale	3959'	2275'
T.D.	4200'	2234'

**2. ESTIMATED DEPTH OF OIL, GAS WATER AND OTHER MINERAL BEARING ZONES**

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



Tom Brown, Inc.

Lease No. U-0141903

**Lisbon C-910 I**

696' FSL and 1483' FEL

SW SE Sec. 10, T30S - R24E

**DRILLING PROGRAM**

San Juan County, Utah

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<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Fresh Water	Surface	0-500'
Oil	Upper Ismay Carbonate	3736'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to the BLM. All oil and gas shows will be tested to determine commercial potential.

### 3. **BOP EQUIPMENT**

Tom Brown, Inc.'s minimum specifications for pressure control equipment are as follows:

Ram Type: 9" Hydraulic double, 2000 psi w.p.

BOP systems will be consistent with API RP 53 and Onshore Oil and Gas Order No. 2. Pressure tests of the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing shoe and will remain in use until the well is completed or abandoned. Ram preventers will be inspected and operated each trip (no more than once a day is necessary), and annular preventers will be inspected and operated weekly to ensure good mechanical working order. These inspections shall be recorded in the drilling log and in the daily drilling report.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.



Tom Brown, Inc.

**Lisbon C-9101**

696' FSL and 1483' FEL

SW SE Sec. 10, T30S - R24E

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When testing the kill line valve(s) the check valve shall be held open or the ball removed.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

Pressure tests shall apply to all related well control equipment.

- a. The size and rating of the BOP stack is shown on the attached diagram. Although a rig has not been chosen to drill this well, most of the equipment for this depth of hole in the area use a 9", 2000 psi working pressure blowout preventor.
- b. A choke line and a kill line are to be properly installed. The kill line is not to be used as a fill-up line.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.

#### **4. CASING AND CEMENTING PROGRAM**

- a. The proposed casing and cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals. Any isolating medium other than cement shall receive approval prior to use. The casing setting depth shall be calculated to position the casing seat opposite a competent formation which will contain the maximum pressure to which it will be exposed during normal drilling operations. Determination of casing setting depth shall be based on all relevant factors,



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including; presence/absence of hydrocarbons; fracture gradients; usable water zones; formation pressures; lost circulation zones; other minerals; or other unusual characteristics. All indications of usable water shall be reported.

- b. Casing design shall assume formation pressure gradients of 0.44 to 0.50 psi per foot for exploratory wells (lacking better data).
- c. Casing design shall assume fracture gradients from 0.70 to 1.00 psi per foot for exploratory wells (lacking better data)
- d. Casing collars shall have a minimum clearance of 0.422 inches of all sides in the hole/casing annulus, with recognition that variances can be granted for justified exceptions.
- e. All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.
- f. All casing except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.
- g. The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.
- h. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.
- i. Three centralizers will be run on the bottom three joints of surface casing with a minimum of one centralizer per joint starting with the shoe joint.
- j. Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method, etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.
- k. All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.



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- l. On all exploratory wells, and on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- m. The proposed casing program will be as follows:

<i>Purpose</i>	<i>Depth</i>	<i>Hole Size</i>	<i>O.D.</i>	<i>Weight</i>	<i>Grade</i>	<i>Type</i>	<i>New/Used</i>
Surface	0-600'	12-1/4"	9-5/8"	36#	K-55	LT&C	New
Production	0-4200'	7-7/8"	5-1/2"	15.5#	K-55	LT&C	New

- o. Casing design subject to revision based on geologic conditions encountered.
- p. The cement program will be as follows:

<i>Surface</i>	<i>Type and Amount</i>
0-600'	320 sx Class "G", 1.15 yield, 15.8 ppg or sufficient to circulate to surface.
<i>Production</i>	<i>Type and Amount</i>
600-4200'	500 sx 50/50 Poz, 1.42 yield, 14.2 ppg. Estimated top of cement at 600'.

- q. After cementing but before commencing any test, the casing string shall stand cemented until the cement has reached a compressive strength of at least 500 psi at the shoe. WOC time shall be recorded in the driller's log.
- r. The following reports shall be filed with the District Manager within 30 days after the work is completed.
  - 1. Progress reports. Form 3160-5 (formerly 9-331) "Sundry Notices and Reports on Wells", must include complete information concerning:



- a. Setting of each string of casing, showing the size, grade, weight of casing set, hole size, setting depth, amounts and type of cement used, whether cement circulated or the top of the cement behind the casing, depth of cementing tools used, casing test method and results, and the date work was done. Show the spud date on the first reports submitted.
- b. Temperature or bond logs must be submitted for each well where the casing cement was not circulated to the surface.
- s. Auxiliary equipment to be used is as follows:
  - 1. Kelly cock
  - 2. No bit float is deemed necessary.
  - 3. A sub with a full opening valve.

**5. MUD PROGRAM**

- a. The proposed circulating mediums to be employed in drilling are as follows:

<i>Interval</i>	<i>Mud Type</i>	<i>Mud Wt.</i>	<i>Visc.</i>	<i>F/L</i>
0-600'	Water	+/-8.6	+/-28	N/C
600-4200'	LSND	+/-9	+/-32	+/-12

Sufficient mud materials will be stored on location to maintain well control and combat lost circulation problems that might reasonably be expected.

- b. Due to potential for contamination of usable quality water aquifers, chromates are banned from Federal leases.
- c. Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing or completion operations.



**6. EVALUATION PROGRAM**

The anticipated type and amount of testing, logging and coring are as follows:

- a. One drill stem test is anticipated, in the Upper Ismay Carbonate from 3736' - 3780'. If DST's are run, the following requirements will be adhered to:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DST's may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e. lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions. This would involve provided some means for reverse circulation.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- b. The logging program will consist of a GR/ILD/DEN/NEUT/SON from surface to T.D.
- c. One conventional core is anticipated in the Upper Ismay Carbonate from 3736-3780'.
- d. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the authorized officer (AO).



- e. The anticipated completion program is as follows:

Perforate zones of interest. Frac and acidize as necessary and place on production.

**7. ANTICIPATED PRESSURES AND H<sub>2</sub>S**

- a. The expected maximum bottom hole pressure is 1966 psi. No abnormal pressures are anticipated.
- b. No hydrogen sulfide gas is anticipated while drilling this well, however, H<sub>2</sub>S has been encountered in the Lisbon C-910 location, therefore, a Contingency Plan is attached and H<sub>2</sub>S equipment will be rigged up during drilling.

**8. OTHER INFORMATION AND NOTIFICATION REQUIREMENTS**

- a. Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communications, not later than 5 days following the date on which the well is placed on production.
- b. Production data shall be reported to the MMS pursuant to 30 CFR 216.5 using form MMS/3160.
- c. The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or the date on which gas is first measured through permanent metering facilities, whichever first occurs.
- d. Pursuant to NTL-4A, lessees or operators are authorized to vent/flare gas during initial well evaluation tests, not exceeding a period of 30 days or the production of 50 MMCF of gas, whichever occurs first. An application must be filed with the District Engineer and approval received, for any venting/flaring of gas beyond the initial 30 day or authorized test period.

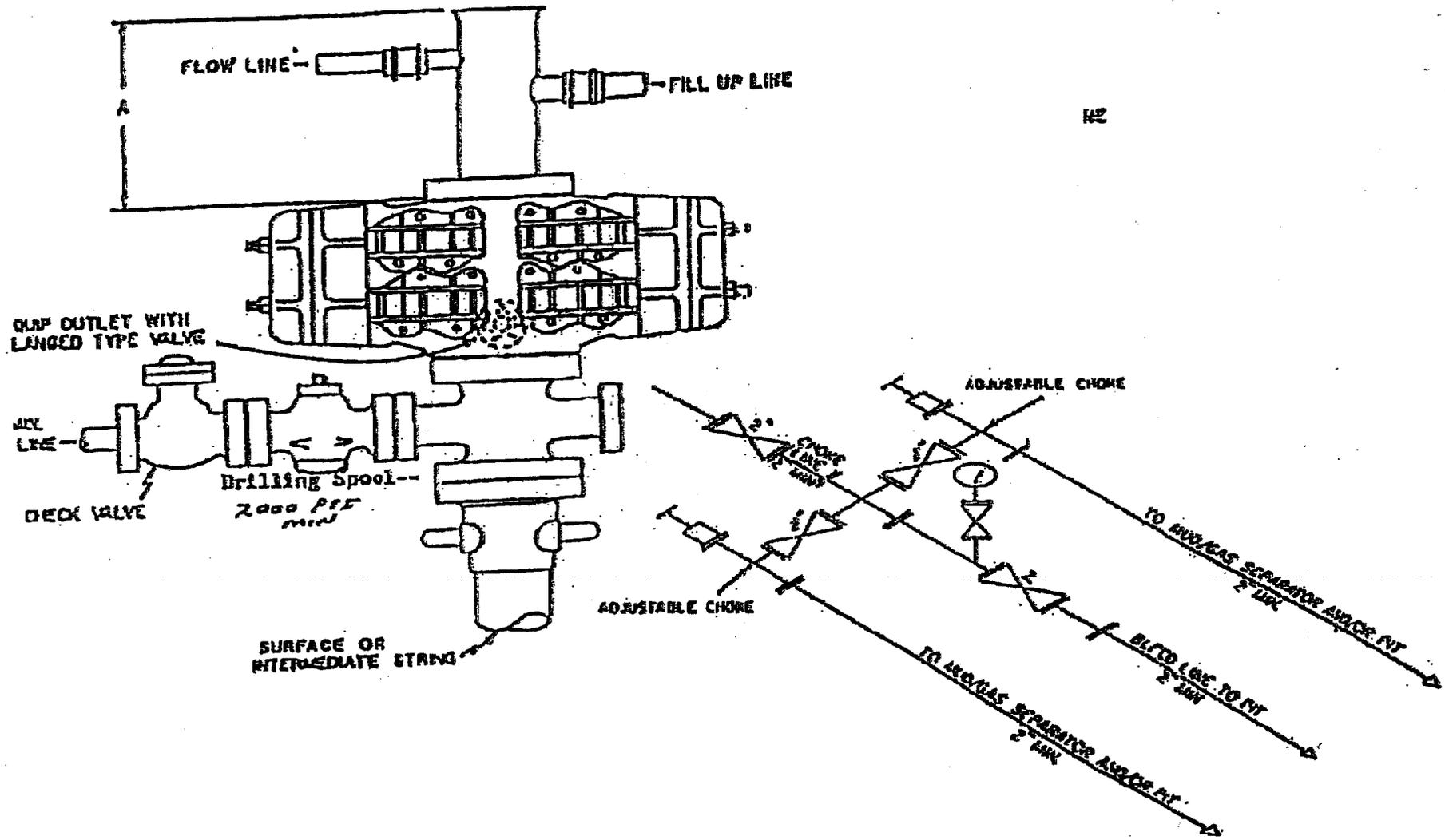


- e. Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.
- f. A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3 and 3162.7-4 shall be submitted to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 and Onshore Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.
- g. Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."
- If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).
- h. Drilling operations are planned to commence on immediately upon approval of this application.
- i. It is anticipated that the drilling of this well will take approximately 8 days.
- j. No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.



- k. Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.
- l. If a replacement rig is contemplated for completion operations, a "Sundry Notice" Form 3160-5 to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.
- m. Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.





2M CHOKES MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

BLOWOUT PREVENTER

4-10 inch      2000 psi      minimum

RECEIVED  
 OCT 15 1988  
 LANDER FIELD  
 OFFICE

ONSHORE ORDER NO. 1  
Tom Brown, Inc.  
**Lisbon C-910 I**  
696' FSL and 1483' FEL  
SW SE Sec. 10, T30S - R24E  
San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. U-0141903

SURFACE USE PLAN

Page 1

**ONSHORE OIL & GAS ORDER NO. 1**  
**Thirteen Point Surface Use Plan**

An onsite inspection of the subject well was conducted on Monday, February 7, 2000 at approximately 2:40 p.m. Weather conditions were warm and sunny. In attendance at the onsite inspection were the following individuals:

Rich McClure	Bureau of Land Management
Jeff Brown	Bureau of Land Management
Robert Kay	Uintah Engineering and Land Surveying
Lisa Smith	Permitco Inc.
Jerry Holder	Tom Brown, Inc.
Dayne Doucet	Tom Brown, Inc.
Brad Ankrom	Tom Brown, Inc.

The well site is located on a portion of the existing well pad. Therefore minimal dirt work will be required for the construction of this pad. In addition, due to the shallow depth of the well, the well will be drilled with a truck mounted rig and a closed mud system will be utilized in order to minimize construction.

1. **EXISTING ROADS**

- a. The proposed well site is located approximately 36.7 miles southeast of Moab, Utah.
- b. Directions to the location from Moab, Utah are as follows:  
  
Proceed southeasterly on Highway 163 for approximately 30.1 miles. Turn left on County Road 114 (Big Indian Road) and proceed easterly for 6.6 miles. Turn left and proceed approximately 150 feet to the location.
- c. For location of access roads within a 2-Mile radius, see Maps A & B.
- d. Improvement to the existing access will not be necessary since this is a county maintained road.



- e. All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.
- f. Existing roads and newly constructed roads on surface under the jurisdiction of any Surface Managing Agency shall be maintained in accordance with the standards of the SMA.

**2. PLANNED ACCESS ROADS**

- a. There will no new construction as this well sits on an existing well pad.
- b. The existing access is currently maintained by Tom Brown, Inc.
- b. The maximum grade of the existing access is 8%.
- c. No turnouts will be necessary.
- d. Culverts and/or low water crossings are installed as necessary along the existing access road.
- e. It was not necessary to centerline flag the road since the well is located on an existing well pad.
- f. The need for surfacing material during drilling is not anticipated, however, should it become necessary, it will be installed at the discretion of the operator.
- g. No cattle guards will be necessary.
- h. Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved by the Area Manager in advance.
- i. 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 obligations determined by the authorized officer.
- j. No rehabilitation of the road is anticipated since this access road services several other wells in the area operated by Tom Brown, Inc.



3. **LOCATION OF EXISTING WELLS WITHIN A 1-MILE RADIUS OF THE PROPOSED LOCATION.  
SEE MAP "C"**

- a. Water wells -none
- b. Injection wells -none
- c. Producing wells - Seven
- d. Drilling wells - none

4. **LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES.**

- a. All production facilities will be located at the well site. Attached see the proposed production diagram. There are currently 3-400 Bbl. tank at the existing location. It is anticipated that two of these tank will be utilized for Ismay production. An additional production unit will be installed as shown on the production diagram.
- b. All permanent structures (onsite for six months or longer) constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective color to match the standard environmental colors, as determined by the Rocky Mountain Five-State Interagency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will match the soil or rocks in the area.
- c. All site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed:
- d. If a gas meter run is constructed, it will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and will be buried downstream of the meter until it leaves the pad. Meter runs will be housed and/or fenced. The gas meter shall be calibrated prior to first sales and shall be calibrated quarterly thereafter. All gas production and measurement shall comply with the provision of 43 CFR 3162.7-3, Onshore Order No. 5 and American Gas Association (AGA) Report No. 3.
- e. The tank battery will be surrounded by a berm of sufficient capacity to contain 1-1/2 times the storage capacity of the largest tank. All loading lines and valves will be placed inside the



berm surrounding the tank battery. All oil production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4.

- f. Production facilities on location may include a lined or unlined produced water pit as specified in Onshore Order No. 7. If water is produced from the well, an Onshore Order No. 7 application must be submitted.
- g. Any necessary pits will be properly fenced to prevent any wildlife entry.
- h. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the Authorized Officer.
- i. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic.
- j. The road will be maintained in a safe useable condition.

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

- a. All water needed for drilling purposes will be obtained from produced water at the Lisbon Plant.
- b. Water will be hauled to location over the roads marked on Maps A and B.
- c. No water well is to be drilled on this lease.

**6. SOURCE OF CONSTRUCTION MATERIAL**

- a. Pad construction material will be native (that found in the well pad).
- b. Any gravel used will be obtained from a private or commercial source.
- c. The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.
- d. No construction materials will be removed from Federal land.



**7. METHODS OF HANDLING WASTE DISPOSAL**

- a. A closed mud system will be utilized to contain drilling fluids. At the end of drilling operations, the mud will be hauled to an approved disposal source.
- b. A small pit will be constructed to contain cuttings. These will be allowed to dry and then buried on location.
- c. Burning will not be allowed. All trash will be contained in a trash cage and its contents removed at the end of drilling operations and hauled to an approved disposal sight. Trash will be hauled as necessary, but not later than at the completion of drilling operations.
- d. Any salts and/or chemicals which are an integral part of the drilling system will be disposed of in the same manner as the drilling fluid.
- e. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations.
- f. The produced fluids (other than water) will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas salt water or other produced fluids will be cleaned up and removed.

**8. ANCILLARY FACILITIES**

There are no airstrips, camps, or other facilities planned during the drilling of the proposed well.

**9. WELL SITE LAYOUT**

- a. See Location Layout for orientation of rig, cross section of drill pad and cuts and fills.
- b. All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR 3162.6
- c. The location of mud tanks; reserve pit, trash cage; pipe racks; living facilities and soil stockpiles will be shown on the Location Layout.



- d. An open topped blooie tank will be utilized rather than a blooie pit. See location layout for location of blooie tank.
- e. Any pits containing fluid will be fenced to prevent wildlife entry.

**10. PLANS FOR RESTORATION OF SURFACE**

- a. Due to the limited amount of construction required, no topsoil will be salvaged.
- b. Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.
- c. The cuttings pit will be allowed to dry and will then be backfilled.
- d. Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash and junk not required for production.
- e. Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.
- f. The portions of the location not needed for continued production operations will be reseeded with the following seed mixture:

<i>Species</i>	<i>Lbs. PLS/Acre</i>
Crested Wheatgrass	4
Four Wing Salt bush	4
Alfalfa	1

- g. The abandonment marker will be at least four feet above ground level and will be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).
- h. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.



11. **SURFACE OWNERSHIP**

**Access Roads** - All roads are County maintained or are located on lands managed by the BLM.

**Well pad** - The well pad is located on lands managed by the BLM.

12. **OTHER INFORMATION**

a. A Class III archeological survey was previously conducted prior to construction of the Lisbon C-910 producing location. All proposed surface disturbance will be contained within the previously cleared area and no additional archeological work will be required.

b. The operator is responsible for informing all persons in the areas 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 Register of Historic Places;

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

-a time frame for the AO to complete and 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 required mitigation has been completed, the operator will then be allowed to resume construction.

c. All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan



Tom Brown, Inc.

Lease No. U-0141903

**Lisbon C-910 I**

**SURFACE USE PLAN**

696' FSL and 1483' FEL

SW SE Sec. 10, T30S - R24E

San Juan County, Utah

Page 8

of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

- d. A complete copy of the approved APD shall be on location during construction of the location and drilling activities.
- e. There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.h.
- f. "Sundry Notice and Report on Wells" (From 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- g. This permit will be valid for a period of one year from the date of approval. An extension period may be granted, if requested, prior to the expiration of the original approval period.
- h. The operator or his contractor shall contact the BLM Offices at 801/977-4300 48 hours prior to construction activities.

**13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

Permit Matters

**PERMITCO INC.**

Lisa L. Smith  
 14421 County Road #10  
 Ft. Lupton, CO 80621  
 303/857-9999 (Office)  
 303/857-0577 (Fax)

Drilling & Completion Matters

**TOM BROWN, INC.**

555-17th Street, Suite 1850  
 Denver, CO 80202  
 Brant Gimmeson  
 303/260-5000 (Office)  
 303/260-5007 (Fax)  
 303/ 205-9896 (Home) Greg Olson  
 303/324-9391 (Cell)



ONSHORE ORDER NO. 1

Tom Brown, Inc.

**Lisbon C-910 I**

696' FSL and 1483' FEL

SW SE Sec. 10, T30S - R24E

San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. U-0141903

**SURFACE USE PLAN**

Page 9

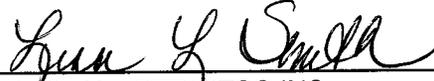
**CERTIFICATION**

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

This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

February 29, 2000

Date:



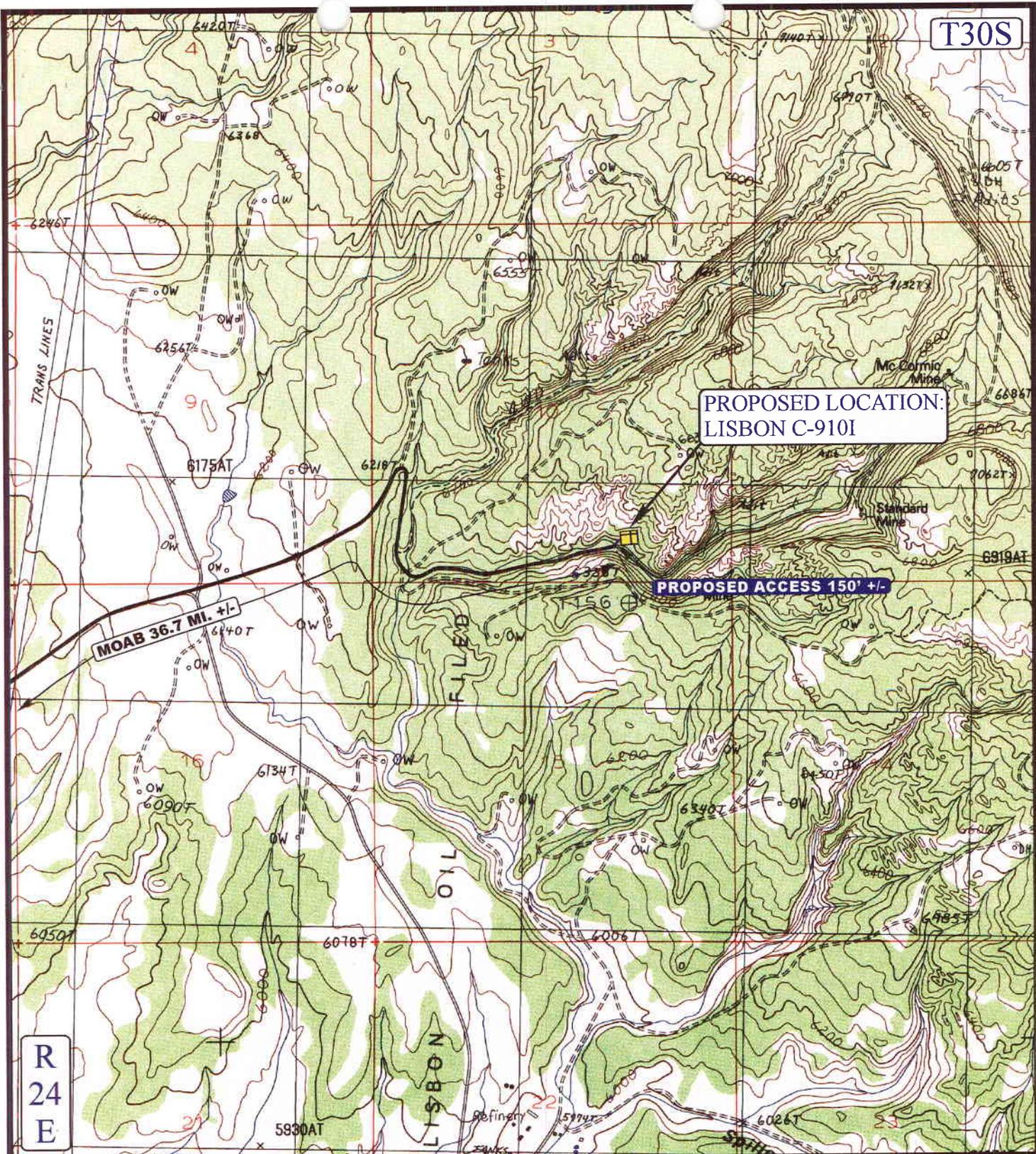
Lisa L. Smith - PERMITCO INC.

Authorized Agent for:

Tom Brown, Inc.







T30S

R  
24  
E

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD

**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOM BROWN, INC.**

LISBON C-910I  
 SECTION 10, T30S, R24E, S.L.B.&M.  
 696' FSL 1483' FEL



**TOPOGRAPHIC** **2** **4** **00**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 2-17-00 **B**  
 TOPO



**PROPOSED LOCATION:  
LISBON C-910I**

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ⊘ DISPOSAL WELLS  | ♂ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



**TOM BROWN, INC.**

**LISBON C-910I**  
**SECTION 10, T30S, R24E, S.L.B.&M.**  
**696' FSL 1483' FEL**



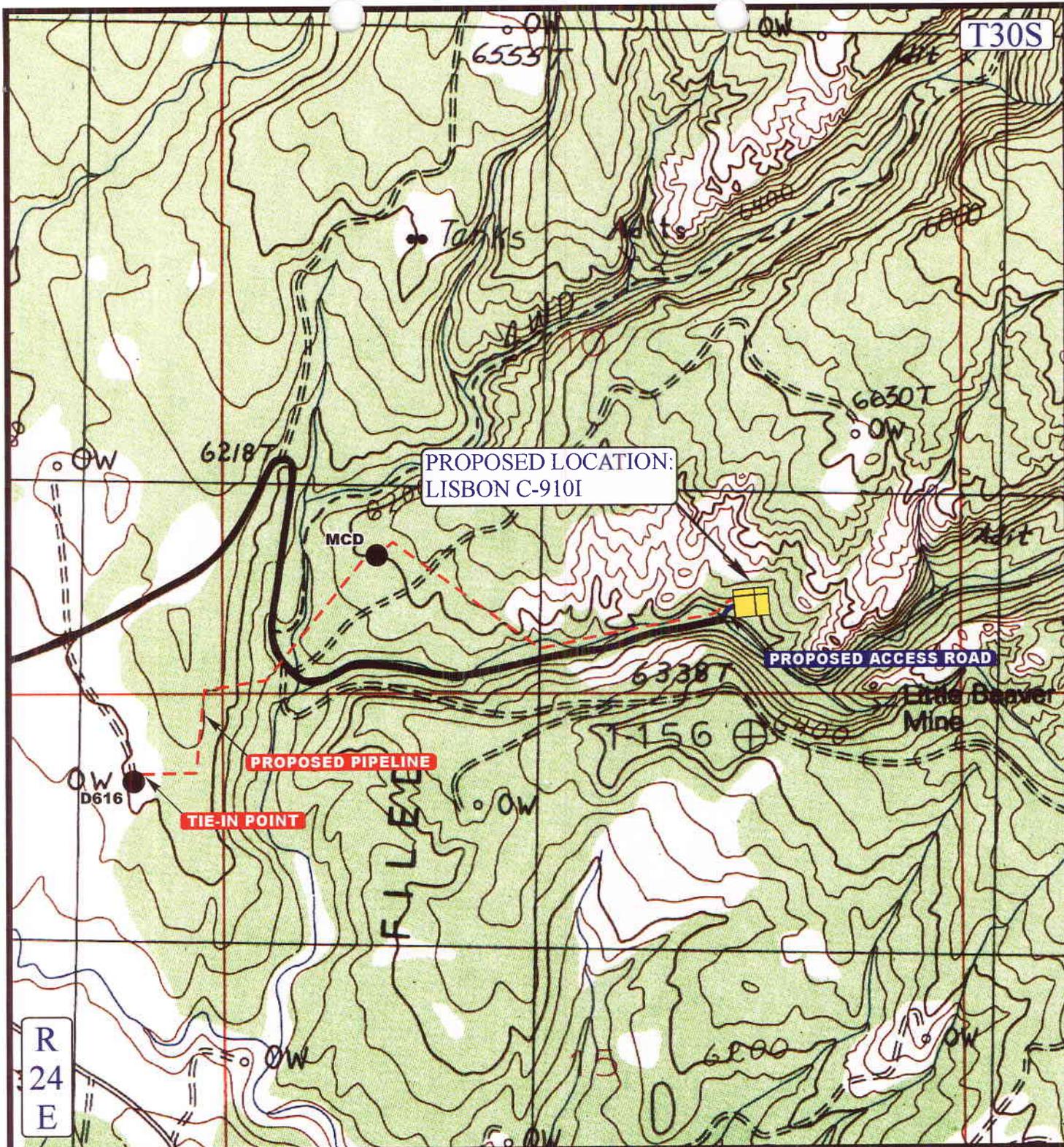
**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**2 17 00**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 2-17-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 5500' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS



**TOM BROWN, INC.**

LISBON C-9101  
 SECTION 10, T30S, R24E, S.L.B.&M.  
 696' FSL 1483' FEL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
 MAP**

<b>2</b>	<b>28</b>	<b>00</b>
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00



**TOM BROWN INC.**

**LOCATION LAYOUT FOR**

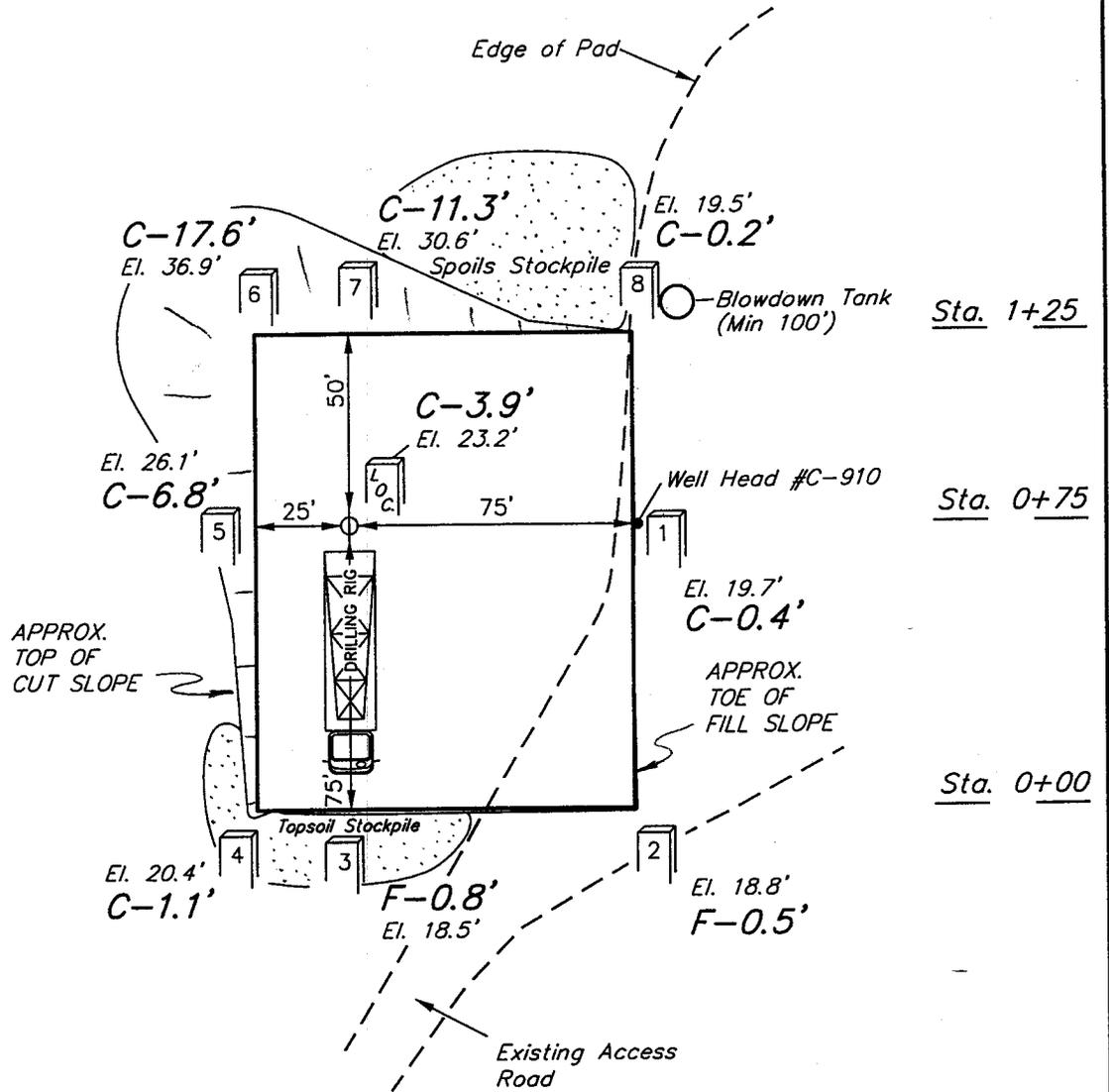
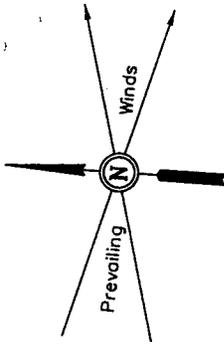
LISBON C-910I  
SECTION 10, T30S, R24E, S.L.B.&M.  
696' FSL 1483' FEL

SCALE: 1" = 50'

DATE: 02-04-00

Drawn By: D.R.B.

Revised: D.R.B.



**FIGURE #1**

Elev. Ungraded Ground at Location Stake = 6223.2'  
Elev. Graded Ground at Location Stake = 6219.3'

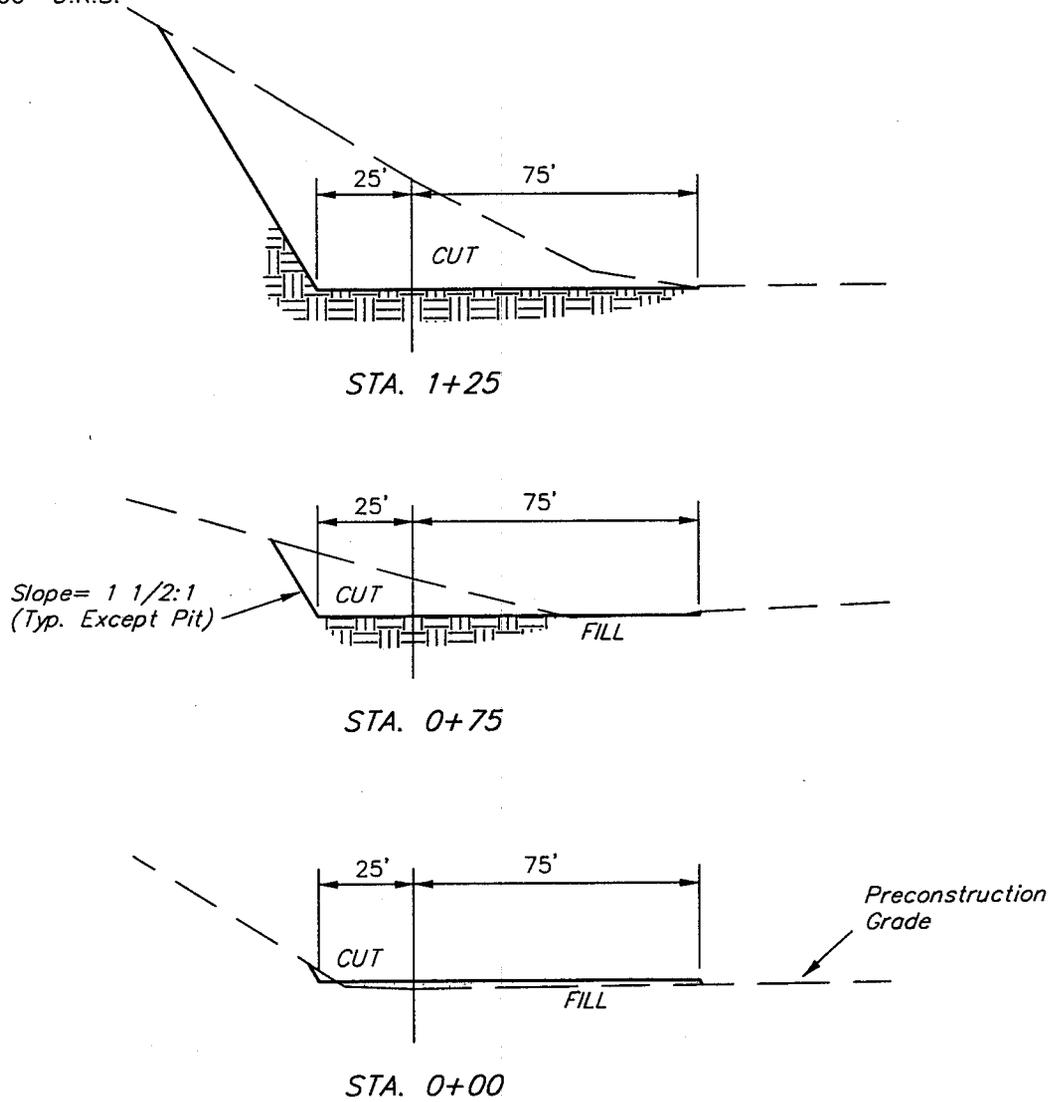
**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

**TOM BROWN INC.**  
 TYPICAL CROSS SECTIONS FOR  
 LISBON C-910I  
 SECTION 10, T30S, R24E, S.L.B.&M.  
 696' FSL 1483' FEL



1" = 20'  
 X-Section Scale  
 1" = 50'

DATE: 02-04-00  
 Drawn By: D.R.B.  
 Revised: 02-16-00 D.R.B.



**FIGURE #2**

APPROXIMATE YARDAGES

<b>CUT</b>	
(6") Topsoil Stripping	= 230 Cu. Yds.
Remaining Location	= 1,330 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 1,560 CU.YDS.</b>
<b>FILL</b>	<b>= 200 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 1,350 Cu. Yds.
Topsoil	= 230 Cu. Yds.

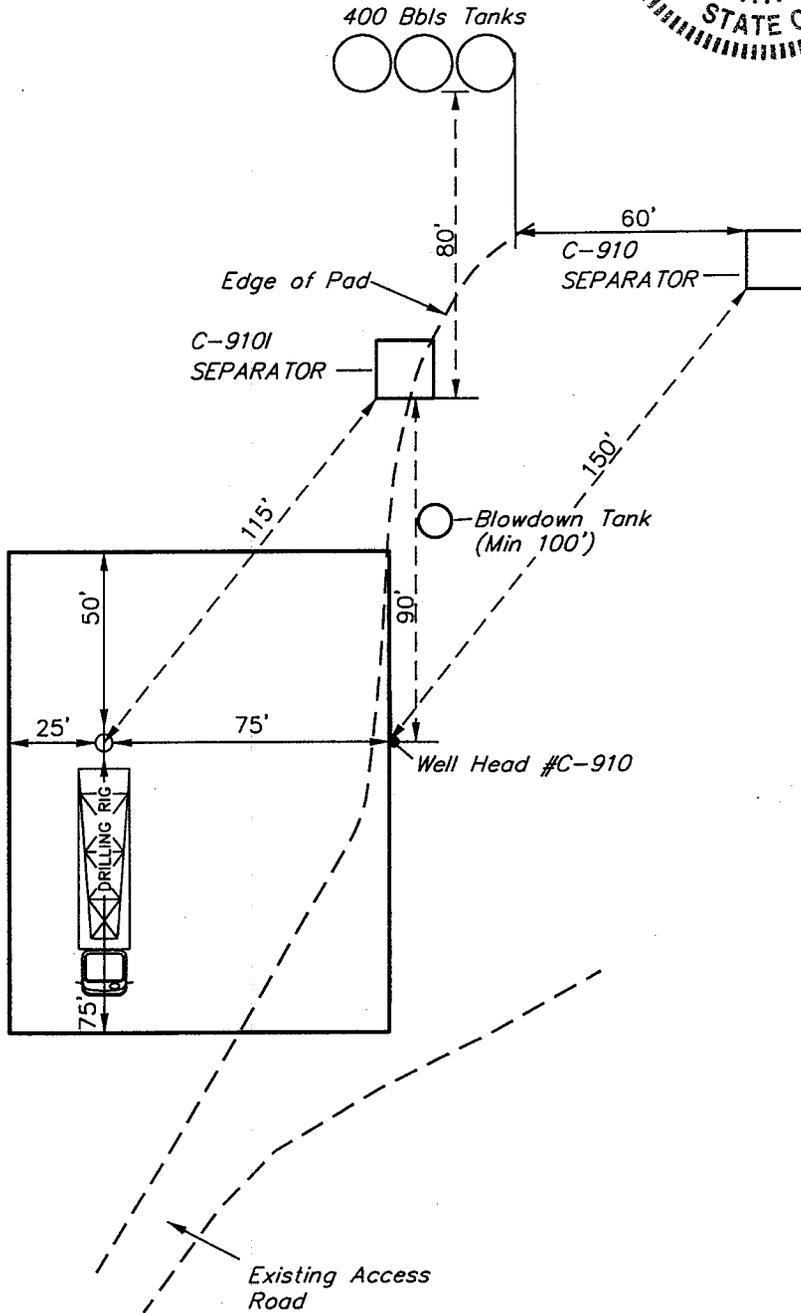
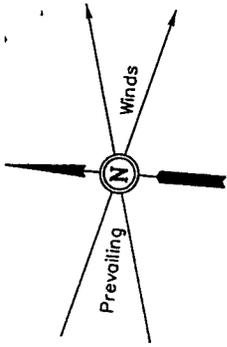
EXCESS MATERIAL After = 1,120 Cu. Yds.  
 Reserve Pit is Backfilled &  
 Topsoil is Re-distributed

TOM BROWN INC.

PRODUCTION FACILITIES LAYOUT FOR

LISBON C-910I  
SECTION 10, T30S, R24E, S.L.B.&M.  
696' FSL 1483' FEL

SCALE: 1" = 50'  
DATE: 02-28-00  
Drawn By: D.R.B.



There are no federal stipulations at this time.



A Class III Archeological Survey was previously conducted prior to construction of the Lisbon C-910 location. All disturbance for the Lisbon C-910 I will stay within the previously disturbed area, therefore, no additional archeological work will be required.



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/01/2000

API NO. ASSIGNED: 43-037-31805
--------------------------------

WELL NAME: LISBON C-910 I  
 OPERATOR: TOM BROWN INC ( N9885 )  
 CONTACT: LISA SMITH, AGENT

PHONE NUMBER: 303-857-9999

PROPOSED LOCATION:

SWSE 10 300S 240E  
 SURFACE: 0696 FSL 1483 FEL  
 BOTTOM: 0696 FSL 1483 FEL  
 SAN JUAN  
 LISBON ( 385 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1-Federal  
 LEASE NUMBER: U-0141903  
 SURFACE OWNER: 1-Federal

PROPOSED FORMATION: ISMY

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. ESO-183 )  
 Potash (Y/N)  
 Oil Shale (Y/N) \*190 - 5 (B)  
 Water Permit  
 (No. Lisbon Plant/Produced Wtr)  
 RDCC Review (Y/N)  
 (Date: )  
 Fee Surf Agreement (Y/N)

LOCATION AND SITING: \*Within Lisbon Unit Boundary  
 Non Unitized PZ.  
 R649-2-3. Unit  
 R649-3-2. General  
 Siting: R649-3-3. Exception  
 Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_  
 R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: ① FEDERAL APPROVAL  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_





# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Kathleen Clarke  
Executive Director

Lowell P. Braxton  
Division Director

1594 West North Temple, Suite 1210  
PO Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

March 15, 2000

Tom Brown, Inc  
555 - 17th Street, Suite 1580  
Denver, CO 80202

Re: Lisbon C-910 I Well, 696' FSL, 1483' FEL, SW SE, Sec. 10, T. 30S, R. 24E,  
San Juan County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31805.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza  
Associate Director

er

Enclosures

cc: San Juan County Assessor  
Bureau of Land Management, Moab District Office  
Permitco, Inc.

Operator: Tom Brown, Inc

Well Name & Number Lisbon C-910 I

API Number: 43-037-31805

Lease: U-0141903

Location: SW SE                      Sec. 10                      T. 30S                      R. 24E

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338
- Contact Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval which must be obtained prior to drilling.



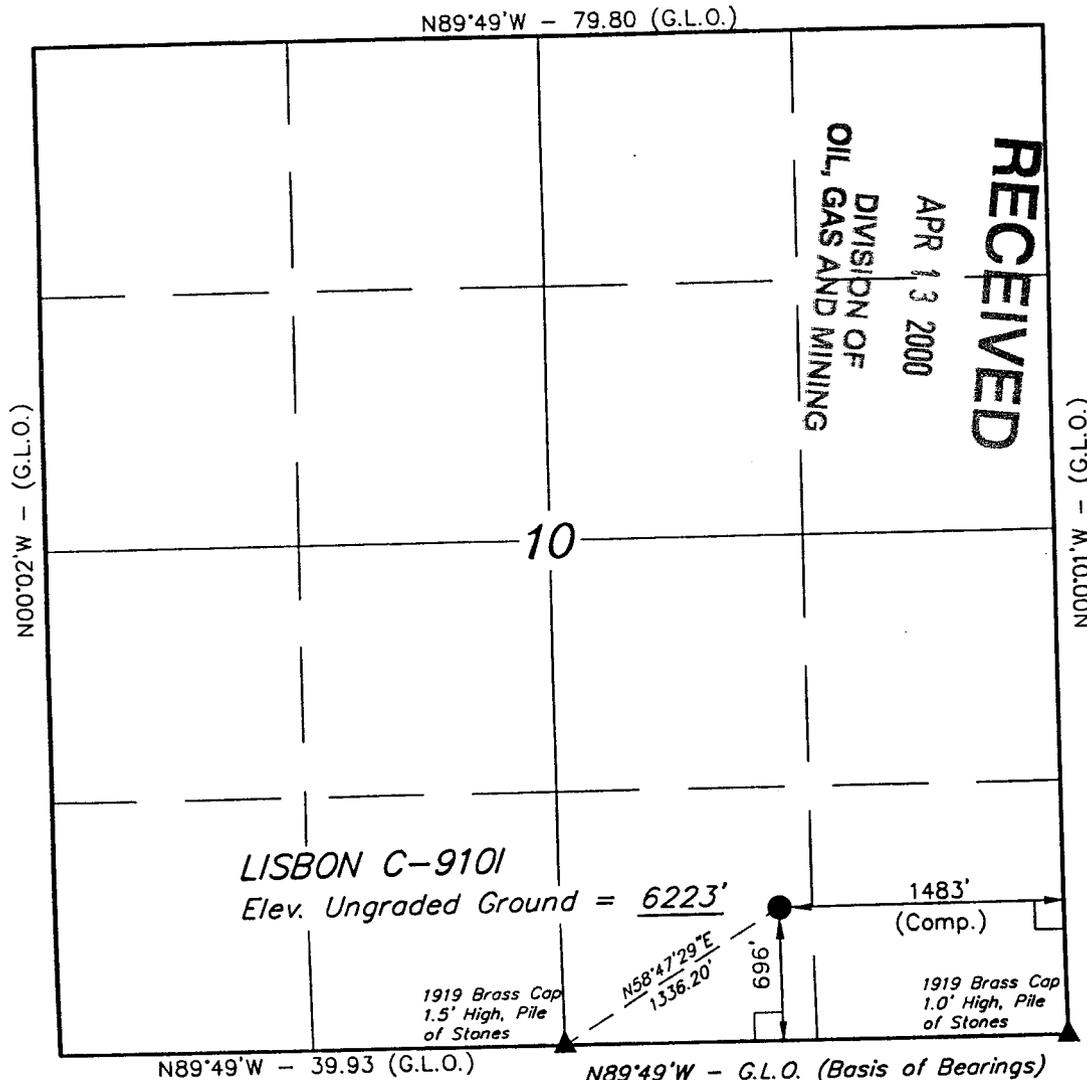
T30S, R24E, S.L.B.&M.

TOM BROWN INC.

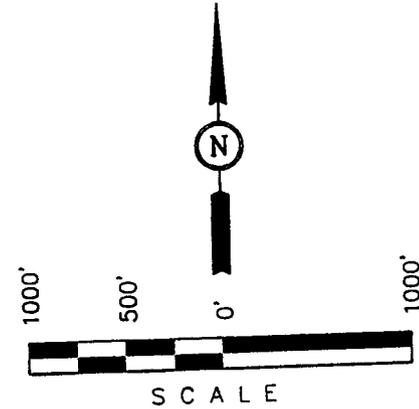
Well location, LISBON C-910I, located as shown in the SW 1/4 SE 1/4 of Section 10, T30S, R24E, S.L.B.&M. San Juan County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT A ROAD INTERSECTION IN THE NE 1/4 OF SECTION 16, T30S, R24E, S.L.B.&M. TAKEN FROM THE SANDSTONE DRAW QUADRANGLE, UTAH, SAN JUAN COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6140 FEET.



RECEIVED  
APR 13 2000  
DIVISION OF  
OIL, GAS AND MINING



CERTIFICATE

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

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

Revised: 02-16-00 D.R.B.

LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.

LATITUDE = 38°11'13"  
LONGITUDE = 109°16'14"

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 02-03-00	DATE DRAWN: 02-04-00
PARTY G.S. M.A. D.R.B.	REFERENCES G.L.O. PLAT -	
WEATHER COLD	FILE TOM BROWN INC.	

Tom Brown, Inc.  
Lisbon C-910 I  
Lease U-014903  
SW SE Section 10, T30S, R24E  
Grand County, Utah

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.

Be advised that Tom Brown, Inc. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0183 (Principal - Tom Brown, Inc.) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

This permit will be valid for a period of one year from the date of approval. After permit termination, a new application must be filed for approval.

All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

**RECEIVED**

APR 13 2000

DIVISION OF  
OIL, GAS AND MINING

## A. DRILLING PROGRAM

1. The proposed BOPE is in a 2M configuration, and is adequate for this depth in this area. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. A Cement Bond Log (CBL) or other appropriate tool shall be used to determine the top-of-cement behind the production casing.
3. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining is required before conducting any surface disturbing activities.
4. In the drilling portion of your application, part 8.m. states that, "Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be disposed of into *unlined pits* for a period of up to 90 days." As a point of clarification, Onshore Oil & Gas Order No. 7 provides that, "produced water from newly completed wells may be temporarily disposed of into *reserve pits* for a period of up to 90 days.

## **B. SURFACE**

1. Tanks will be used at the C-910I Well to provide a closed system for fluids and to eliminate the need for a reserve pit during drilling, cementing, and testing operations.
2. No pits will be authorized at the C-910I Well for the disposal or burial of drill cuttings.
3. In order to eliminate the need for a pit during production operations; a tank, surrounded by a berm of soil, will be used to contain produced water from the C-910I Well (or the facilities at the C-910 Well will be utilized).
4. A Sundry Notice will be required prior to the installation of a pipeline from the C-910I Well.

A pipeline from the C-910I Well could be authorized along one of the pipeline routes previously approved by Sundry Notice: (1) the route approved on 11/8/96 for a surface pipeline from the A-911 Well to the B-810 production facilities, or (2) the route approved 5/18/99 for a surface pipeline from the A-911 Well to Valve Box 6. Other routes may require additional inspection, documentation, and review prior to authorization.

### C. REQUIRED APPROVALS, REPORTS AND NOTIFICATIONS

Required verbal notifications are summarized in Table 1, attached.

Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Moab Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Moab Field Office, and they shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Moab Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

The following notifications are required. Notify Rich McClure (435-259-2127) for construction and reclamation matters. Notify Jeff Brown (435-587-1525) for spud, surface casing and other matters relative to drilling:

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

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer      Office: (435) 259-2117  
Home: (435) 259-2214

Tom Brown, Inc.  
Lisbon C-910 I  
Lease U-014903  
SW SE Section 10, T30S, R24E  
Grand County, Utah

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.

Be advised that Tom Brown, Inc. is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by ES 0183 (Principal - Tom Brown, Inc.) via surety consent as provided for in 43 CFR § 3104.2.

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR § 3106.7-2 continuing responsibility are met.

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All lease operations will be conducted in full compliance with applicable regulations (43 CFR § 3100), Onshore Oil and Gas Orders, lease terms, notices to lessees, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to field representatives to insure compliance.

**RECEIVED**

APR 13 2000

DIVISION OF  
OIL, GAS AND MINING

A. DRILLING PROGRAM

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4. In the drilling portion of your application, part 8.m. states that, "Pursuant to Onshore Order No. 7, with the approval of the District Engineer, produced water may be disposed of into *unlined pits* for a period of up to 90 days." As a point of clarification, Onshore Oil & Gas Order No. 7 provides that, "produced water from newly completed wells may be temporarily disposed of into *reserve pits* for a period of up to 90 days.

## **B. SURFACE**

1. Tanks will be used at the C-910I Well to provide a closed system for fluids and to eliminate the need for a reserve pit during drilling, cementing, and testing operations.
2. No pits will be authorized at the C-910I Well for the disposal or burial of drill cuttings.
3. In order to eliminate the need for a pit during production operations; a tank, surrounded by a berm of soil, will be used to contain produced water from the C-910I Well (or the facilities at the C-910 Well will be utilized).
4. A Sundry Notice will be required prior to the installation of a pipeline from the C-910I Well.

A pipeline from the C-910I Well could be authorized along one of the pipeline routes previously approved by Sundry Notice: (1) the route approved on 11/8/96 for a surface pipeline from the A-911 Well to the B-810 production facilities, or (2) the route approved 5/18/99 for a surface pipeline from the A-911 Well to Valve Box 6. Other routes may require additional inspection, documentation, and review prior to authorization.

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Building Location- Contact the BLM Natural Resource Protection Specialist at least 48-hours prior to commencing construction of location.

Spud- The spud date will be reported to BLM 24-hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the Moab Field Office within 24-hours after spudding, regardless of whether spud was made with a dry hole digger or big rig.

Daily Drilling Reports- Daily drilling reports shall detail the progress and status of the well and shall be submitted to the Moab Field Office on a weekly basis.

Monthly Reports of Operations- In accordance with Onshore Oil and Gas Order No. 1, this well shall be reported on Minerals Management Service (MMS) Form 3160, "Monthly Report of Operations," starting the month in which operations commence and continuing each month until the well is physically plugged and abandoned. This report will be filed directly with MMS.

Sundry Notices- There will be no deviation from the proposed drilling and/or workover program without prior approval. "Sundry Notices and Reports on Wells" (Form 3160-5) will be filed, with the Moab Field Office, for approval of all changes of plans and subsequent operations in accordance with 43 CFR § 3162.3-2. Safe drilling and operating practices must be observed.

Drilling Suspensions- Operations authorized by this permit shall not be suspended for more than 30 days without prior approval of the Moab Field Office. All conditions of this approval shall be applicable during any operations conducted with a replacement rig.

Undesirable Events- Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be immediately reported to the BLM in accordance with requirements of NTL-3A.

Cultural Resources- If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the Moab Field Office is to be notified.

First Production- Should the well be successfully completed for production, the Moab Field Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Moab Field Office, and they shall be notified prior to the first sale.

Well Completion Report- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the Moab Field Office not later than thirty-days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the Moab Field Office.

Venting/Flaring of Gas- Gas produced from this well may not be vented/flared beyond an initial, authorized test period of 30 days or 50 MMcf, whichever first occurs, without the prior, written approval of the Moab Field Office. Should gas be vented or flared without approval beyond the authorized test period, the well may be ordered shut-in until the gas can be captured or approval to continue the venting/flaring as uneconomic is granted. In such case, compensation to the lessor shall be required for that portion of the gas that is vented/flared without approval and which is determined to have been avoidably lost.

Produced Water- An application for approval of a permanent disposal method and location will be submitted to the Moab Field Office for approval pursuant to Onshore Oil and Gas Order 7.

Off-Lease Measurement, Storage, Commingling- Prior approval must be obtained from the Moab Field Office for off-lease measurement, off-lease storage and/or commingling (either down-hole or at the surface).

Plugging and Abandonment- If the well is completed as a dry hole, plugging instructions must be obtained from the Moab Field Office prior to initiating plugging operations.

A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the Moab Field Office within thirty-days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Moab Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

The following notifications are required. Notify Rich McClure (435-259-2127) for construction and reclamation matters. Notify Jeff Brown (435-587-1525) for spud, surface casing and other matters relative to drilling:

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

1 day prior to spudding;

50 feet prior to reaching the surface casing setting depth

If the people above cannot be reached, notify the Moab Field Office at (435) 259-2100. If unsuccessful, contact the person listed below.

Well abandonment operations require 24 hour advance notice and prior approval. In the case of newly drilled dry holes, verbal approval can be obtained by calling the Moab Field Office at (435) 259-2100. If approval is needed after work hours, you may contact the following:

Eric Jones, Petroleum Engineer      Office: (435) 259-2117  
Home: (435) 259-2214

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DIVISION OF  
OIL, GAS AND MINING

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DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: TOM BROWN INC

Well Name: LISBON C-910 I

Api No. 43-037-31805 LEASE TYPE: FEDERAL

Section 10 Township 30S Range 24E County SAN JUAN

Drilling Contractor SAUERS DRILLING RIG # 31

SPUDDED:

Date 06/10/2000

Time 12:00 AM

How DRY

Drilling will commence \_\_\_\_\_

Reported by DOUG REYNOLDS

Telephone # 1-970-326-6117

Date 06/09/2000 Signed: CHD



14421 Weld County Rd.10 • Ft. Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL Permitco.1@aol.com

June 8, 2000

Division of Oil, Gas & Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, UT 84114-5801  
Attn: Lesha Cordova

Re: Tom Brown, Inc.  
Lisbon C-910 I  
696' FSL and 1483' FEL  
SW SE Sec. 10, T30S - R24E  
San Juan County, Utah  
Lease No. U-014903

Dear Lesha,

The subject location was originally proposed at the above mentioned footages. In order to accomodate the drilling rig on such a small pad, it will be necessary for us to move the location approximately 20-50 feet from it's current location.

Tom Brown Inc. is the lease holder of all leases within a 660' radius of the subject location. Therefore, a move of 50 feet will not impact any other lease holders. Therefore, we are requesting that you grant administrative approval of the subject location at non standard footages.

We will notify your office, as well as the BLM, via Sundry Notice once we have determined the estimated footages for the new borehole.

If you should need anything else, please contact me at your convenience, or Mr. Brant Gimmeson of Tom Brown, Inc. at 303/260-5030.

Thank you for your assistance.

Sincerely,

PERMITCO INC.

Lisa L. Smith  
Consultant for:  
Tom Brown, Inc.

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JUN 12 2000

DIVISION OF  
OIL, GAS AND MINING

Enc.

cc: Tom Brown, Inc. - Denver, CO

**COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**SUMMARY NOTICES AND REPORTS ON WELLS**

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

Do not use this form for proposals to drill, or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other    Drilling

2. Name of Operator: Tom Brown, Inc.  
 Contact: Greg Olson  
 Phone: (303)260-5068

5. Lease Serial No.  
U-O14903

6. If Indian, Allotte or Tribe Name  
N/A

7. If Unit or CA/Agreement Designation  
N/A

3. Address and Telephone No.  
555 Seventeenth Street, Suite 1850, Denver, CO 80202

8. Well Name and No.  
Lisbon C-910I

9. API Well No.  
43-037-31805

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4. Location of Well (Footage, T, R, M, or Survey Description)  
696FSL 1483 FEL (well moved slightly & will be resurveyed)  
SW SE Sec. 10 T30S R24E

10. Field and Pool, or Exploratory Area  
Lisbon

11. County or Parish, State  
San Juan, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (start/resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Notice of Spud</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, A form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The Lisbon C-910I spudded on June 11, 2000 @ 1330 hours. Attached for your information are daily reports detailing activity from June 11, 2000 through June 19, 2000.

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JUN 21 2000  
DIVISION OF  
OIL, GAS AND MINING

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

Name (Printed/Typed) Jane Washburn    Title Drilling Technician

Signature *Jane Washburn*    Date 6/19/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any, are attached. Approval of this notice 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.

Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.





# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I    **AFE # :** D00U019  
**Operator :** TOM BROWN, INC.  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 43-037-31805  
**Field :** LISBON    **Target Formation :**  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :**    **Proposed Depth :** 4200 ft.

## Daily Drilling Details Report

**Activity Date :** 6/13/00    **Formation :** Surface    **Current Depth :** 520 ft.  
**Days From Spud :** 3    **24 Hr. Footage Made :** 380 ft.  
**Activity :** Drilling    **Weather:** nice  
**Operations :**  
06:00 to 06:30 - Deviation Survey - @ 115 1 deg  
06:30 to 08:30 - Drilling - f/140-203  
08:30 to 09:00 - Deviation Survey - @ 203 1 deg  
09:00 to 11:30 - Drilling - to 291  
11:30 to 13:00 - Repair Rig - conn and tight Kelly, @ 291 1 1/2 deg  
13:00 to 14:30 - Drilling - to 352  
14:30 to 15:30 - Deviation Survey - @ 352 1 3/4 deg tighten Kelly  
15:30 to 16:00 - Drilling - to 383  
16:00 to 16:30 - Deviation Survey - @ 383 1 3/4 deg  
16:30 to 18:00 - Trips - LD BHA  
18:00 to 02:00 - Reaming - opening hole f/ 7 7/8 - 12 1/4", svy every 90'  
02:00 to 03:00 - Trips - TF 7 7/8 bit  
03:00 to 04:00 - Drilling - to 447  
04:00 to 04:30 - Deviation Survey - @ 422 1 3/4 deg  
04:30 to 06:00 - Drilling - to 520, short handed, driller, one hand on morn tour pusher about played out

## Mud Properties

**Depth** 520    **MudWeight:** 8.2    **PlasticVis:** 0    **Viscosity:** 0    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

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OIL, GAS AND MINING









**COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
**MONTHLY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill, or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator:

Tom Brown, Inc.

Contact:

Greg Olson

Phone:

(303)260-5068

3. Address and Telephone No.

555 Seventeenth Street, Suite 1850, Denver, CO 80202

4. Location of Well (Footage, T, R, M, or Survey Description)

696FSL 1483 FEL (well moved slightly & will be resurveyed)  
SW SE Sec. 10 T30S R24E

5. Lease Serial No.

U-014903

6. If Indian, Allote or Tribe Name

N/A

7. If Unit or CA/Agreement Designation

N/A

8. Well Name and No.

Lisbon C-910I

9. API Well No.

43-037-31805

10. Field and Pool, or Exploratory Area

Lisbon

11. County or Parish, State

San Juan, UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (start/resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Monthly Activity</u>
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, A form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Attached for your information are daily reports for the Lisbon C910I detailing activity from June 19, 2000 through June 27, 2000. Rig release was on June 26, 2000 and completion activity has not been started.

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JUL 17 2000

DIVISION OF  
OIL, GAS AND MINING

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

Name (Printed/Typed)

Jane Washburn

Title

Drilling Technician

Signature

*Jane Washburn*

Date

7/12/00

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice 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.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for ny 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.



# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I    **AFE # :** D00U019  
**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

## Daily Drilling Details Report

**Activity Date :** 6/19/00    **Formation :** Honaker Trail    **Current Depth :** 2760 ft.  
**Days From Spud :** 9    **24 Hr. Footage Made :** 383 ft.  
**Activity :** Drilling    **Weather:** Scattered light rain-Cool  
**Operations :** 06:00 to 11:00 - Drilling - Drilling to 2471'  
11:00 to 12:00 - Repair Rig - Work on rig pump  
12:00 to 12:30 - Drilling - Drilling 2471'-2480'  
12:30 to 18:30 - Repair Rig - Work on pump. Change out liner gasket, stuffing box packing, and swab head.  
18:30 to 19:30 - Drilling - Drilling 2480-2533'  
19:30 to 20:00 - Lubricate Rig - Rig Service  
20:00 to 06:00 - Drilling - Drilling 2533-2760'

## Mud Properties

**Depth** 2760    **MudWeight:** 9.2    **PlasticVis:** 0    **Viscosity:** 32    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

## Daily Drilling Details Report

**Activity Date :** 6/20/00    **Formation :** Honaker Trail    **Current Depth :** 3237 ft.  
**Days From Spud :** 10    **24 Hr. Footage Made :** 477 ft.  
**Activity :** Drilling    **Weather:** Fair  
**Operations :** 06:00 to 13:30 - Drilling - Drilling to 2939'  
13:30 to 14:00 - Lubricate Rig - Lubricate Rig.  
14:00 to 14:30 - Drilling - Drill 2939'-2945'  
14:30 to 17:30 - Other - Drill intermittently. Clean sand trap with Super Sucker. Clean mud tank. 65% filled with solids.  
17:30 to 06:00 - Drilling - Drill to 3237'.

## Mud Properties

**Depth** 3237    **MudWeight:** 8.9    **PlasticVis:** 0    **Viscosity:** 31    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

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OIL, GAS AND MINING



# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I    **AFE # :** D00U019  
**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

## Daily Drilling Details Report

**Activity Date :** 6/21/00    **Formation :** La Sal    **Current Depth :** 3732 ft.  
**Days From Spud :** 11    **24 Hr. Footage Made :** 495 ft.  
**Activity :** Drilling    **Weather:** Fair-80's. Clear  
**Operations :** 06:00 to 10:00 - Drilling - Drilling to 3327'  
10:00 to 13:00 - Trips - TOH for new bit. Strap on TOH.  
13:00 to 13:30 - Other - Change out bits.  
13:30 to 16:30 - Trips - TIH with new bit. Strap on TIH. Corrected depth 18.44' down (deeper).  
16:30 to 19:30 - Drilling - Drilling 3327-3422'  
19:30 to 20:00 - Lubricate Rig - Rig service  
20:00 to 06:00 - Drilling - Drill to 3732'.

## Mud Properties

**Depth** 3732    **MudWeight:** 8.9    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

## Daily Drilling Details Report

**Activity Date :** 6/22/00    **Formation :** Upper Ismay    **Current Depth :** 3943 ft.  
**Days From Spud :** 12    **24 Hr. Footage Made :** 211 ft.  
**Activity :** Coring    **Weather:** Fair 80's.  
**Operations :** 06:00 to 12:30 - Drilling - Drilling to core point @ 3912'-UPPER ISMAY  
12:30 to 13:30 - Condition Mud & Circulate - Circulate  
13:30 to 16:30 - Trips - TOH for core barrel  
16:30 to 17:30 - Other - LD MWD, Motor, and Directional BHA  
17:30 to 19:00 - Other - PU Core barrel and BHA  
19:00 to 19:30 - Lubricate Rig - Rig Service  
19:30 to 20:00 - Trips - TIH with Coring BHA and DC's  
20:00 to 21:30 - Cut Off Drilling Line - Cut and slip 300' drill line  
21:30 to 23:30 - Trips - Finish TIH  
23:30 to 01:30 - Coring - Core Upper Ismay 3912-3943'  
01:30 to 04:30 - Trips - TOH  
04:30 to 06:00 - Coring - Retrieve core,LD, and box core.

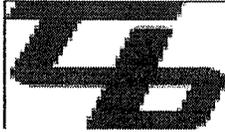
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OIL, GAS AND MINING

## Mud Properties

**Depth** 3943    **MudWeight:** 9.0    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0



# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I    **AFE # :** D00U019  
**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

## Daily Drilling Details Report

**Activity Date :** 6/23/00    **Formation :**    **Current Depth :** 4110 ft.  
**Days From Spud :** 13    **24 Hr. Footage Made :** 167 ft.  
**Activity :** Wire Line Logs    **Weather:** Fair-Low 80's  
**Operations :**  
06:00 to 06:30 - Coring - Finish retrieving core from barrel  
06:30 to 08:00 - Other - PU BHA. (Square motor).  
08:00 to 09:30 - Trips - TIH. Tight Hole @ 2000'. Wash and ream  
09:30 to 11:30 - Reaming - Wash and Ream 150'  
11:30 to 13:30 - Trips - TOH and LD square mud motor. PU Inteq Motor  
13:30 to 14:00 - Lubricate Rig - Rig Service  
14:00 to 16:30 - Trips - TIH  
16:30 to 17:30 - Reaming - Ream out core hole 3912'-3942'  
17:30 to 23:30 - Drilling - Drill to TD @ 4110'.  
23:30 to 00:30 - Condition Mud & Circulate - Circ  
00:30 to 01:00 - Deviation Survey - Run deviation survey @ TD- 1/4 dgr.  
01:00 to 04:00 - Trips - TOH for logs. LD mud motor.  
04:00 to 06:00 - Wire Line Logs - RU Schlumberger. Run Platform Express from TD to BSC.

## Mud Properties

**Depth** 4110    **MudWeight:** 9.0    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

## Daily Drilling Details Report

**Activity Date :** 6/24/00    **Formation :** Ismay    **Current Depth :** 4110 ft.  
**Days From Spud :** 14    **24 Hr. Footage Made :** 0 ft.  
**Activity :** Other    **Weather:**  
**Operations :**  
06:00 to 08:00 - Wire Line Logs - Finish running Schlumberger Platform Express logs  
08:00 to 08:30 - Lubricate Rig - Rig Service  
08:30 to 10:00 - Trips - TIH with bit (LD mud motor)  
10:00 to 17:00 - Other - Wait on orders from Denver Office. Spoke to BLM for P/A requirements  
17:00 to 17:30 - Trips - Short Trip 10 std. Pump sweep to clean hole.  
17:30 to 06:00 - Other - Circ. Wait on DST tools.

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## Mud Properties

**Depth** 4110    **MudWeight:** 9.0    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0



# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I    **AFE # :** D00U019  
**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

## Daily Drilling Details Report

**Activity Date :** 6/25/00    **Formation :**    **Current Depth :** 4140 ft.  
**Days From Spud :** 15    **24 Hr. Footage Made :** 30 ft.  
**Activity :** Trips    **Weather:**  
**Operations :** 06:00 to 08:00 - Other - Wait on DST tools  
08:00 to 10:00 - Trips - TOH for DST. Strap on TOH. TD Correction to 4139.36'  
10:00 to 12:00 - Drill Stem Test - PU DST tools.  
12:00 to 12:30 - Lubricate Rig - Rig Service  
12:30 to 14:30 - Trips - TIH  
14:30 to 19:00 - Drill Stem Test - DST Lower Ismay. See DST report in PA.  
19:00 to 21:00 - Trips - TOH  
21:00 to 23:30 - Other - LD DST tools and load.  
23:30 to 00:30 - Trips - TIH DC's and SWDP  
00:30 to 03:00 - Trips - TOH and LD HWDP and DC's. Strap 18 jts of DP.  
03:00 to 06:00 - Trips - TIH DP and PU 18 jts of DP.

## Mud Properties

**Depth** 4140    **MudWeight:** 9.0    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

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**Drilling Chronological Report**

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**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drlg/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

**Daily Drilling Details Report**

**Activity Date :** 6/26/00    **Formation :** Lower Ismay    **Current Depth :** 4140 ft.  
**Days From Spud :** 16    **24 Hr. Footage Made :** 0 ft.  
**Activity :** Other    **Weather:** Fair-80's  
**Operations :** 06:00 to 09:00 - Condition Mud & Circulate - Circulate. Wait for cementers. Notified State of Utah of P/A. Left voice mail.  
09:00 to 10:00 - Other - RU Halliburton cementers  
10:00 to 10:30 - Plug Back - Pump 1st P/A plug from 3700-4140'-126 sxs. Witnessed by BLM Jeff Brown.  
10:30 to 12:00 - Trips - TOH and LD 63 jts.  
12:00 to 12:30 - Condition Mud & Circulate - Circulate. Get ready for next plug.  
12:30 to 14:00 - Plug Back - Pump 2nd P/A plug from 2025-2186'-60 sxs. Witnessed by BLM.  
14:00 to 15:30 - Trips - TOH and LD DP.  
15:30 to 16:00 - Plug Back - Circ. Get ready to cement. Halliburton getting ready to pump cement. Pre-mixed some cement. Cemented up pump truck. Truck won't pump. Call for new truck.  
16:00 to 00:30 - Condition Mud & Circulate - New pump truck arrives in 7 hours. RU new pump truck.  
00:30 to 01:00 - Plug Back - Pump 3rd plug from 502-665 60 sxs.  
01:00 to 01:30 - Trips - LD 20 jts of DP.  
01:30 to 02:00 - Plug Back - Pump 4th plug from Surface-55' 34 sxs.  
02:00 to 06:00 - Other - Clean mud tanks. ND BOP stack.

**Mud Properties**

**Depth** 4140    **MudWeight:** 9.0    **PlasticVis:** 0    **Viscosity:** 30    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

**Daily Drilling Details Report**

**Activity Date :** 6/27/00    **Formation :** Lower Ismay    **Current Depth :** 4140 ft.  
**Days From Spud :** 17    **24 Hr. Footage Made :** 0 ft.  
**Activity :** Rig Up & Tear Down    **Weather:** Cloudy  
**Operations :** 06:00 to 09:00 - Rig Up & Tear Down - Finish cleaning mud tanks and ND BOP. Cutoff wellhead. Release rig @ 0900 @ 6-26-00. RD Rig.

**Mud Properties**

**Depth** 4140    **MudWeight:** 0.0    **PlasticVis:** 0    **Viscosity:** 0    **YP:** 0    **Gels1:** 0    **Gels2:** 0    **FL:** 0.0  
**HTFL:** 0    **TempDeg:** 0    **FC:** 0    **PH1:** 0.0    **PH2:** 0.0    **PM:** 0.0    **PF:** 0.0    **MF:** 0.0    **Ca:** 0    **CaCl2:** 0    **Cl:** 0  
**Sand:** 0.00    **PercSolids:** 0.0    **PercOil:** 0.0    **PercWater:** 0.0

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# Tom Brown, Inc.

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# Drilling Chronological Report

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**Operator :** TOM BROWN, INC.    **WI :** 1    **NRI :** 0.825  
**Loc :**    **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 04303731805  
**Field :** LISBON  
**Contractor :** Sauer 31    **AFE Type :** Exploration Drig/Comp  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00    **Proposed Depth :** 4200 ft.

### DRILL STEM TEST RESULTS

DS	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Interval
1	6/24/2000	Lower Ismay	4010	4140	1203	1072	198	1956	15,60,60,120
<b>1st Open:</b>		Surface bubbles. 1" in 5 min, 1/2" in 10 min, 1/2" in 15 min. SI tool w/ 1/2" blow. Died in 3 mins.		<b>2nd Open:</b>		Surface bubbles. 1/2" in for 50 mins. 1/4" in 55 mins. Weak surface bubbles in 60 mins. SI tool w/weak surface bubbles. Died in 1 1/2 mins.		<b>Recovery:</b> Recovered 475' mud cut water. Top sample @ 2300 ppm NaCL. Middle sample @ 3200 ppm NaCL. Bottom Sample: 18000 ppm NaCL	

### Formation Tops

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Ref Subsea	+/- To Ref Well	Comments

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STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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5. Lease Designation and Serial No.  
U-014903

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. If Indian, Allotte or Tribe Name  
N/A

7. Unit Agreement Name  
N/A

8. Well Name and Number  
Lisbon C910I

9. API Well Number  
43-037-31805

10. Field and Pool, or Exploratory Area  
Lisbon

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator:

Tom Brown, Inc.

Contact: Brant Gimmeson  
Phone: 303-260-5030

3. Address and Telephone No.

555 Seventeenth Street, Suite 1850, Denver, CO 80202

4. Location of Well

Footages: 659 FSL 1486 FEL

QQ, Sec T,R,M: SW SE Sec. 10 T30S R24E

4227952 N  
651455 E

County: San Juan  
State: Utah

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

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandon\*
- Repair Casing
- Change Plans
- Convert to Injection
- Fracture Treat or Acidize
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

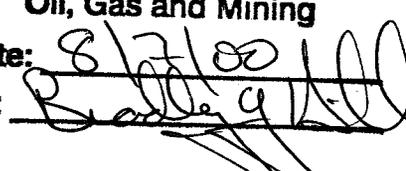
Other  
Change in footages  
Date of work completion \_\_\_\_\_

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

12. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, A form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The wellhead had to be moved from the original survey for the drilling rig to fit on the location.  
The new footages are 659 FSL 1486 FEL

COPY SENT TO OPERATOR  
Date: 8-9-00  
Initials: CHD

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 8/7/00  
By: 

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OIL, GAS AND MINING

13. Name (Printed/Typed) Brant Gimmeson	Title Environmental and Safety Manager
Signature 	Date July 27, 2000

(This space for State use only)

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

ENTITY ACTION FORM

Operator: Tom Brown, Inc.  
Address: 555 17th Street, Suite 1850  
city Denver  
state CO zip 80202

Operator Account Number: N 9885  
Phone Number: (303) 260-5011

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303731805	Lisbon C-910 I	swse	10	30S	24E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
A	99999	12892	6/11/2000		6/11/2000	
Comments: 9-26-00 <b>CONFIDENTIAL</b>						

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
Comments:						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date	
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)

Sandy Ocker

Name (Please Print)

Signature

Engineering Tech

Title

9/21/2000

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**COPY**

FORM APPROVED  
OMB NO. 1004-0137  
Expires: November 30, 2000

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG \***

5. Lease Serial No. U014903

6. If Indian, Allottee or Tribe Name N/A

7. Unit or CA Agreement Name and No. N/A

8. Lease Name and Well No. Lisbon C-910 I

9. API Well No. 43-037-31805

10. Field and Pool, or Exploratory Wildcat

11. Sec., T., R., M., on Block and Survey or Area Sec 10, T30S-R24E

12. County/Parish San Juan

13. State Utah

14. Date Spudded 6/11/2000

15. Date T.D. Reached 6/26/00

16. Date Completed. (prod) 6-27-00  
 D&A  Ready to Prod.

17. Elevations (DF, RKB, RT, GL) \* 6223' ungraded

**CONFIDENTIAL PERIOD EXPIRED ON 7-27-01**

18. Total Depth: MC MD 4139' TVD

19. Plug Back T.D.: MD N/A TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit Copy of each)  
Schlumberger Platform Express Log

22. Was Well Cored?  Yes (Submit analysis)  
 Was DST run?  Yes (Submit report)  
 Directional Survey?  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Skis & Type of Cement	Slurry vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	9 5/8" J-55	36#	surface	615'					
7 7/8"	N/A								

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
N/A								

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) None						
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material

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28. Production - Interval A

Date First Prod	Test Date	Hours Tested	Test Production	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil Gravity Corr. API	Gas Gravity	Production Method
N/A	N/A								

28a. Production - Interval B

Date First Prod	Test Date	Hours Tested	Test Production	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil Gravity Corr. API	Gas Gravity	Production Method

28b. Production - Interval C

Date First Prod	Test Date	Hours Tested	Test Production	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg Press. Flwg./SI	Csg Press.	24 Hr. Rate	Oil (BBL)	Gas (MCF)	Water (BBL)	Gas:Oil Ratio	Well Status	

28c. Productin - Interval D

Date First Prod	Test Date	Hours Tested	Test Production	Oil (BBL)	Gas (MCF)	Water (BBL)	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg Press. Flwg./SI	Csg Press.	24 Hr. Rate	Oil (BBL)	Gas (MCF)	Water (BBL)	Gas:Oil Ratio	Well Status	

29. Disposition of Gas ( Sold, used for fuel, vented, etc.)

none

30. Summary of Porous Zones (Include Aquifers):

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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				Wingate Ss.	Surface
				Paradox Shale	3676'
				U. Ismay Anydrite	3772'
				U. Ismay Carbonate	3794'
				Hovenweep Shale	3838'
				L. Ismay Anydrite	3894'
				L. Ismay Carbonate	3929'
				Gothic Shale	3959'

32. Additional remarks (Include plugging procedure):

RU Halliburton cements on 6/26/00

Pump 1st P/A plug from 3700' - 4140' w/126 sxs - Witnessed by BLM Jeff Brown

Pump 2nd P/A plug from 2025' - 2186' w/60 sxs cmt - Witnessed by BLM

Pump 3rd P/A plug from 502' - 665' w/60 sxs cmt

Pump 4th P/A plug from surface - 55' w/34 sxs cmt

6/27/00 cutoff wellhead

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd.)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print)

*Sandy Ocker*

Title

Engineering Tech

Signature

Date

10/16/00

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

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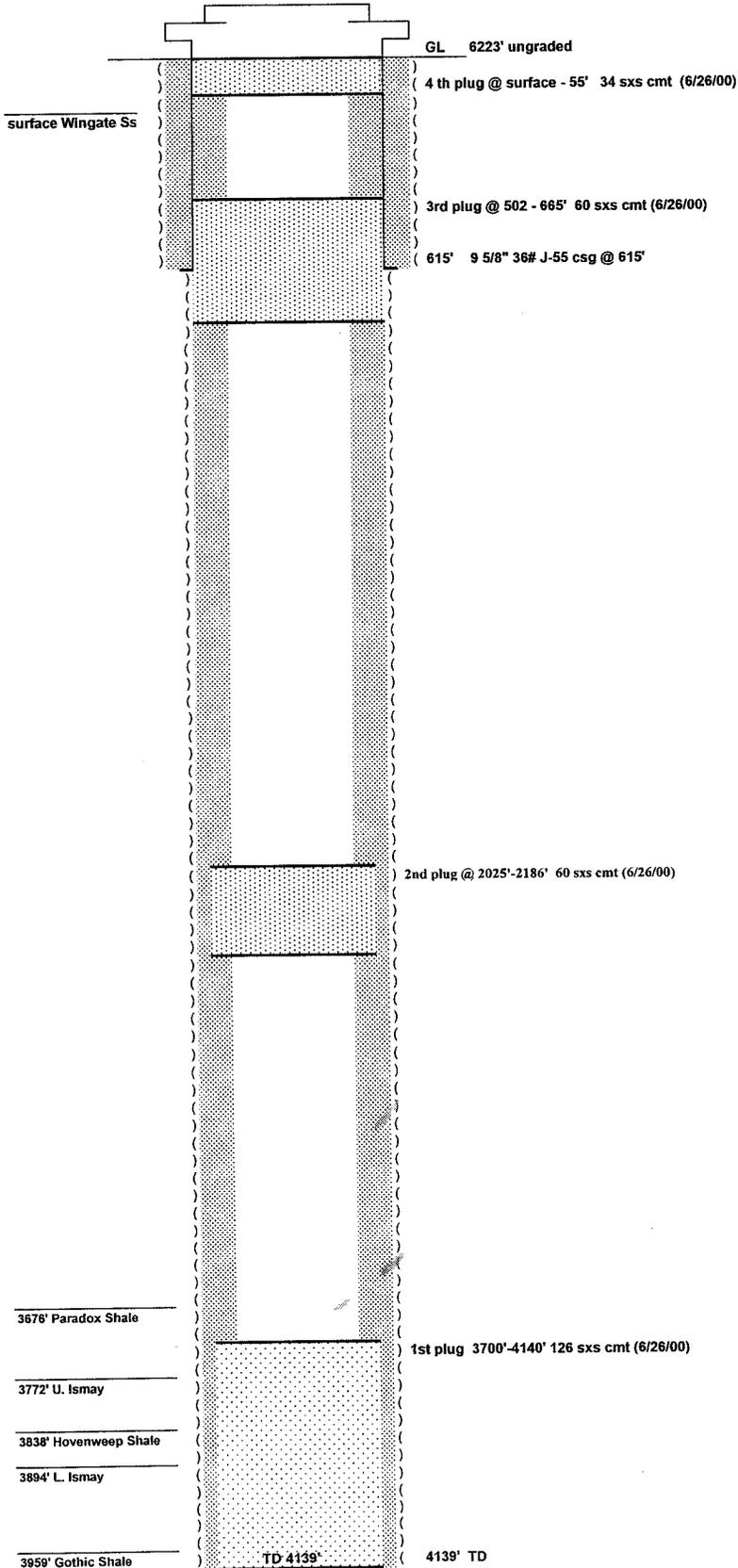
WELLBORE DIAGRAM

Drill & P&A

Company: TOM BROWN INC.  
Lease Name: LISBON C-910 I  
Location: SWSE SEC 10, T30S- R24E  
County: SAN JUAN COUNTY, UTAH  
Date: 9/27/00

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Spud date 06/11/00



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Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

**Drilling Chronological Report**

**Well User ID :** 273254 **Well Name:** LISBON C 910 I

**AFE # :** D00U019

**Operator :** TOM BROWN, INC.

**WI :** 1

**NRI :** 0.825

**Loc :** SW SE

**STR :** 10 -30S - 24E

**AFEDHC :** \$399,188

**County :** SAN JUAN, UT

**API Code :** 43-037-31805

**AFECWC :** \$668,640

**Field :** LISBON

**AFE Type :** Exploration Drlg/Comp

**Contractor :** Sauer 31

**Proposed Depth:** 4200

**Spud Date :** 6/11/00

**Rig Rel Date :** 6/26/00

**Target Formation:** ISMAY

**Daily Drilling Details Report**

**Activity Date :** 6/11/00

**Formation :** Wingate SS

**Current Depth :** 30 ft.

**Days From Spud :** 1

**24 Hr. Footage Made :** 30 ft.

**Activity :** Other

**Weather:** warm, windy

**Operations :**

06:00 to 08:00 - Other - SDFN

08:00 to 13:30 - Rig Up & Tear Down - RURT

13:30 to 20:00 - Drilling - PU Kelly and drill pilot hole 0-30'

20:00 to 06:00 - Other - SDFN, no crew. Todd Wiesman cramped up taken to hospital Monticello, UT, dehydrated, over heated,

OK, SPUD

6/11/00 @ 13:30 hrs

**Activity Date :** 6/12/00

**Formation :** Surface

**Current Depth :** 140 ft.

**Days From Spud :** 2

**24 Hr. Footage Made :** 110 ft.

**Activity :** Drilling

**Weather:**

**Operations :**

06:00 to 08:00 - Other - SDFN, no crew

08:00 to 12:00 - Drilling - drlg pilot hole 30-50'

12:00 to 20:00 - Other - drlg rat and mouse hole

20:00 to 21:30 - Drilling - drlg pilot hole 50-75'

21:30 to 22:00 - Deviation Survey - @ 50 1 1/2 deg

22:00 to 00:00 - Drilling - open hole f/7 7/8 - 12 1/4 - 75'

00:00 to 06:00 - Drilling - drlg 7 7/8" hole

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Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

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**Operator :** TOM BROWN, INC.  
**Loc :** SW SE      **STR :** 10 -30S - 24E  
**County :** SAN JUAN, UT      **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00      **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1      **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drig/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/13/00      **Formation :** Surface  
**Days From Spud :** 3  
**Activity :** Drilling

**Current Depth :** 520 ft.  
**24 Hr. Footage Made :** 380 ft.  
**Weather:** nice

**Operations :**  
06:00 to 06:30 - Deviation Survey - @ 115 1 deg  
06:30 to 08:30 - Drilling - f/140-203  
08:30 to 09:00 - Deviation Survey - @ 203 1 deg  
09:00 to 11:30 - Drilling - to 291  
11:30 to 13:00 - Repair Rig - conn and tight Kelly, @ 291 1 1/2 deg  
13:00 to 14:30 - Drilling - to 352  
14:30 to 15:30 - Deviation Survey - @ 352 1 3/4 deg tighten Kelly  
15:30 to 16:00 - Drilling - to 383  
16:00 to 16:30 - Deviation Survey - @ 383 1 3/4 deg  
16:30 to 18:00 - Trips - LD BHA  
18:00 to 02:00 - Reaming - opening hole f/ 7 7/8 - 12 1/4", svy every 90'  
02:00 to 03:00 - Trips - TF 7 7/8 bit  
03:00 to 04:00 - Drilling - to 447  
04:00 to 04:30 - Deviation Survey - @ 422 1 3/4 deg  
04:30 to 06:00 - Drilling - to 520, short handed, driller, one hand on morn tour pusher about played out

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# Drilling Chronological Report

**Well User ID :** 273254 **Well Name:** LISBON C 910 I

**AFE # :** D00U019

**Operator :** TOM BROWN, INC.

**WI :** 1

**NRI :** 0.825

**Loc :** SW SE

**STR :** 10 -30S - 24E

**AFEDHC :** \$399,188

**County :** SAN JUAN, UT

**API Code :** 43-037-31805

**AFECWC :** \$668,640

**Field :** LISBON

**AFE Type :** Exploration Drlg/Comp

**Contractor :** Sauer 31

**Proposed Depth:** 4200

**Spud Date :** 6/11/00

**Rig Rel Date :** 6/26/00

**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/14/00

**Formation :** Surface

**Current Depth :** 615 ft.

615 ft.

**Days From Spud :** 4

**24 Hr. Footage Made :** 95 ft.

95 ft.

**Activity :** Nipple up B.O.P.

**Weather:** MID 80'S-BREEZY

### Operations :

06:00 to 07:00 - Drilling - Drilling to 571'  
07:00 to 07:30 - Deviation Survey - Survey @ 542'- 1 1/2 dgrs  
07:30 to 08:30 - Drilling - Drilling 571'-615'  
08:30 to 10:30 - Trips - TOH LD 9 HWDP. CHANGE OUT BITS. TIH  
10:30 to 18:00 - Drilling - DRILL-OPENHOLE WITH 12 1/4" BIT FROM 375-615'. SURVEY @ TD 1 1/2 DGRS.  
18:00 to 20:00 - Trips - TOH TO RUN CSG. BROKE TONG JAW ON BREAK OUT SIDE.  
20:00 to 20:30 - Run Casing & Cement - RU CASERS  
20:30 to 21:30 - Run Casing & Cement - RUN 9 5/8" 36# J-55 CSG TO 615'  
21:30 to 22:00 - Run Casing & Cement - RD CASERS  
22:00 to 22:30 - Condition Mud & Circulate - CIRC FOR CEMENT  
22:30 to 23:30 - Run Casing & Cement - CEMENT SURFACE CASING  
23:30 to 03:00 - Wait on Cement - WAIT ON CEMENT  
03:00 to 06:00 - Nipple up B.O.P. - CUT OFF CSG. WELD ON WELLHEAD

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DIVISION OF  
OIL, GAS AND MINING

# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone: (303) 260-5058 Fax: (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254 **Well Name:** LISBON C 910 I

**AFE # :** D00U019

**Operator :** TOM BROWN, INC.

**WI :** 1

**NRI :** 0.825

**Loc :** SW SE

**STR :** 10 -30S - 24E

**AFEDHC :** \$399,188

**County :** SAN JUAN, UT

**API Code :** 43-037-31805

**AFECWC :** \$668,640

**Field :** LISBON

**AFE Type :** Exploration Drlg/Comp

**Contractor :** Sauer 31

**Proposed Depth:** 4200

**Spud Date :** 6/11/00

**Rig Rel Date :** 6/26/00

**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/15/00

**Formation :**

**Current Depth :** 1011 ft.

**Days From Spud :** 5

**24 Hr. Footage Made :** 396 ft.

**Activity :** Repair Rig

**Weather:** HOT,BREEZY, DUSTY

**Operations :**

06:00 to 08:00 - Other - WELD ON WELLHEAD

08:00 to 10:00 - Nipple up B.O.P. - NU BOP

10:00 to 14:00 - Test B.O.P. - TEST BOP. 2000 PSI. WITNESSED BY JEFF BROWN-BLM

14:00 to 15:00 - Trips - TIH

15:00 to 17:00 - Other - WELD ON KELLY TO FIX LEAK. P-TEST KELLY VALVE-O.K. CHANGE OUT SWIVEL PACKING.

SERVICE

RIG

17:00 to 18:30 - Other - DRILL CEMENT AND SHOE

18:30 to 21:30 - Drilling - DRILL 615-726'

21:30 to 22:00 - Deviation Survey - SURVEY @ 726- 1 1/2 DGR

22:00 to 02:30 - Drilling - DRILLING 726-944

02:30 to 03:00 - Deviation Survey - SURVEY @ 944 1 1/2 DGR

03:00 to 04:30 - Drilling - DRILLING 944-1011'

04:30 to 06:00 - Repair Rig - WORK ON GEAR END OF PUMP. TOH TO INSIDE OF CSG.

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## Daily Drilling Details Report

**Activity Date :** 6/16/00

**Formation :**

**Current Depth :** 1575 ft.

**Days From Spud :** 6

**24 Hr. Footage Made :** 564 ft.

**Activity :** Drilling

**Weather:** Fair-Low 90's

**Operations :**

06:00 to 12:30 - Drilling - Drilling to 1183'

12:30 to 13:00 - Deviation Survey - Survey @ 1183'- 2 dgrs

13:00 to 20:30 - Drilling - Drilling 1183'-1379'

20:30 to 21:00 - Deviation Survey - Survey @ 1379'- 2 1/2 dgrs

21:00 to 05:00 - Drilling - Drilling 1379'-1566'

05:00 to 05:30 - Deviation Survey - Survey @ 1566'- 3 1/2 dgrs

05:30 to 06:00 - Drilling - Drilling 1566'-1575'

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# Tom Brown, Inc.

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254      **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE      **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT      **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00      **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1      **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drlg/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/17/00      **Formation :** Cutler  
**Days From Spud :** 7  
**Activity :** Dir. Work

**Current Depth :** 2002 ft.  
**24 Hr. Footage Made :** 427 ft.  
**Weather:** Cooler-Fair

**Operations :** 06:00 to 18:30 - Drilling - Drilling to 1877'  
18:30 to 19:00 - Lubricate Rig - Rig Service.  
19:00 to 20:30 - Drilling - Drill 1877'-1908'  
20:30 to 21:00 - Deviation Survey - Survey @ 1908'-3 3/4 dgrs  
21:00 to 02:00 - Drilling - Drill 1908'-2002'  
02:00 to 05:30 - Trips - TOH and LD Wenzel Mud Motor/Packed BHA  
05:30 to 06:00 - Dir. Work - PU Inteq Motor, NMDC, and MWD

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## Daily Drilling Details Report

**Activity Date :** 6/18/00      **Formation :** Honaker Trail  
**Days From Spud :** 8  
**Activity :** Drilling

**Current Depth :** 2377 ft.  
**24 Hr. Footage Made :** 375 ft.  
**Weather:** PARTLY CLOUDY-LOW 80'S

**Operations :** 06:00 to 08:00 - Dir. Work - PU MTR, NMDC, AND X-O'S. ORIENT MWD.  
08:00 to 10:30 - Repair Rig - CHANGE PACKING IN SWIVEL AND WASH PIPE.  
10:30 to 13:00 - Trips - TIH. KELLY UP AND SURVEY GIH EVERY 3 STDS. (NEED FOR DIRECTIONAL WORK).  
13:00 to 13:30 - Other - WASH 90' TO BOTTOM.  
13:30 to 06:00 - Drilling - DIRECTIONAL DRILL TO 2377'  
06:00 to - - HONAKER TRAIL @ 2125'.

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**Drilling Chronological Report**

**Well User ID :** 273254    **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE    **STR :** 10 -30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1    **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drlg/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

**Daily Drilling Details Report**

**Activity Date :** 6/19/00    **Formation :** Honaker Trail  
**Days From Spud :** 9  
**Activity :** Drilling

**Current Depth :** 2760 ft.  
**24 Hr. Footage Made :** 383 ft.  
**Weather:** Scattered light rain-Cool

**Operations :** 06:00 to 11:00 - Drilling - Drilling to 2471'  
11:00 to 12:00 - Repair Rig - Work on rig pump  
12:00 to 12:30 - Drilling - Drilling 2471'-2480'  
12:30 to 18:30 - Repair Rig - Work on pump. Change out liner gasket, stuffing box packing, and swab head.  
18:30 to 19:30 - Drilling - Drilling 2480-2533'  
19:30 to 20:00 - Lubricate Rig - Rig Service  
20:00 to 06:00 - Drilling - Drilling 2533-2760'

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**Daily Drilling Details Report**

**Activity Date :** 6/20/00    **Formation :** Honaker Trail  
**Days From Spud :** 10  
**Activity :** Drilling

**Current Depth :** 3237 ft.  
**24 Hr. Footage Made :** 477 ft.  
**Weather:** Fair

**Operations :** 06:00 to 13:30 - Drilling - Drilling to 2939'  
13:30 to 14:00 - Lubricate Rig - Lubricate Rig.  
14:00 to 14:30 - Drilling - Drill 2939'-2945'  
14:30 to 17:30 - Other - Drill intermittently. Clean sand trap with Super Sucker. Clean mud tank. 65% filled with solids.  
17:30 to 06:00 - Drilling - Drill to 3237'.

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# Drilling Chronological Report

**Well User ID :** 273254    **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE    **STR :** 10 -30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1    **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drlg/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/21/00    **Formation :** La Sal  
**Days From Spud :** 11  
**Activity :** Drilling

**Current Depth :** 3732 ft.  
**24 Hr. Footage Made :** 495 ft.  
**Weather:** Fair-80's. Clear

**Operations :** 06:00 to 10:00 - Drilling - Drilling to 3327'  
10:00 to 13:00 - Trips - TOH for new bit. Strap on TOH.  
13:00 to 13:30 - Other - Change out bits.  
13:30 to 16:30 - Trips - TIH with new bit. Strap on TIH. Corrected depth 18.44' down (deeper).  
16:30 to 19:30 - Drilling - Drilling 3327-3422'  
19:30 to 20:00 - Lubricate Rig - Rig service  
20:00 to 06:00 - Drilling - Drill to 3732'.

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## Daily Drilling Details Report

**Activity Date :** 6/22/00    **Formation :** Upper Ismay  
**Days From Spud :** 12  
**Activity :** Coring

**Current Depth :** 3943 ft.  
**24 Hr. Footage Made :** 211 ft.  
**Weather:** Fair 80's.

**Operations :** 06:00 to 12:30 - Drilling - Drilling to core point @ 3912'-UPPER ISMAY  
12:30 to 13:30 - Condition Mud & Circulate - Circulate  
13:30 to 16:30 - Trips - TOH for core barrel  
16:30 to 17:30 - Other - LD MWD, Motor, and Directional BHA  
17:30 to 19:00 - Other - PU Core barrel and BHA  
19:00 to 19:30 - Lubricate Rig - Rig Service  
19:30 to 20:00 - Trips - TIH with Coring BHA and DC's  
20:00 to 21:30 - Cut Off Drilling Line - Cut and slip 300' drill line  
21:30 to 23:30 - Trips - Finish TIH  
23:30 to 01:30 - Coring - Core Upper Ismay 3912-3943'  
01:30 to 04:30 - Trips - TOH  
04:30 to 06:00 - Coring - Retrieve core,LD, and box core.

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Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254 **Well Name:** LISBON C 910 I

**AFE # :** D00U019

**Operator :** TOM BROWN, INC.

**WI :** 1 **NRI :** 0.825

**Loc :** SW SE

**STR :** 10 -30S - 24E

**AFEDHC :** \$399,188

**County :** SAN JUAN, UT

**API Code :** 43-037-31805

**AFECWC :** \$668,640

**Field :** LISBON

**AFE Type :** Exploration Drlg/Comp

**Contractor :** Sauer 31

**Proposed Depth:** 4200

**Spud Date :** 6/11/00

**Rig Rel Date :** 6/26/00

**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/23/00

**Formation :**

**Current Depth :** 4110 ft.

**Days From Spud :** 13

**24 Hr. Footage Made :** 167 ft.

**Activity :** Wire Line Logs

**Weather:** Fair-Low 80's

**Operations :**  
06:00 to 06:30 - Coring - Finish retrieving core from barrel  
06:30 to 08:00 - Other - PU BHA. (Square motor).  
08:00 to 09:30 - Trips - TIH. Tight Hole @ 2000'. Wash and ream  
09:30 to 11:30 - Reaming - Wash and Ream 150'  
11:30 to 13:30 - Trips - TOH and LD square mud motor. PU Inteq Motor  
13:30 to 14:00 - Lubricate Rig - Rig Service  
14:00 to 16:30 - Trips - TIH  
16:30 to 17:30 - Reaming - Ream out core hole 3912'-3942'  
17:30 to 23:30 - Drilling - Drill to TD @ 4110'.  
23:30 to 00:30 - Condition Mud & Circulate - Circ  
00:30 to 01:00 - Deviation Survey - Run deviation survey @ TD- 1/4 dgr.  
01:00 to 04:00 - Trips - TOH for logs. LD mud motor.  
04:00 to 06:00 - Wire Line Logs - RU Schlumberger. Run Platform Express from TD to BSC.

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## Daily Drilling Details Report

**Activity Date :** 6/24/00

**Formation :** Ismay

**Current Depth :** 4110 ft.

**Days From Spud :** 14

**24 Hr. Footage Made :** 0 ft.

**Activity :** Other

**Weather:**

**Operations :**  
06:00 to 08:00 - Wire Line Logs - Finish running Schlumberger Platform Express logs  
08:00 to 08:30 - Lubricate Rig - Rig Service  
08:30 to 10:00 - Trips - TIH with bit (LD mud motor)  
10:00 to 17:00 - Other - Wait on orders from Denver Office. Spoke to BLM for P/A requirements  
17:00 to 17:30 - Trips - Short Trip 10 std. Pump sweep to clean hole.  
17:30 to 06:00 - Other - Circ. Wait on DST tools.

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DIVISION OF  
OIL, GAS AND MINING

**Tom Brown, Inc.**

555 17th Street, Suite 1850  
Denver CO 80202-3918  
Phone : (303) 260-5058 Fax : (303) 260-5007

**Drilling Chronological Report**

**Well User ID :** 273254    **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE    **STR :** 10 -30S - 24E  
**County :** SAN JUAN, UT    **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00    **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1    **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drlg/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

**Daily Drilling Details Report**

**Activity Date :** 6/25/00  
**Days From Spud :** 15  
**Activity :** Trips

**Formation :**

**Current Depth :** 4140 ft.  
**24 Hr. Footage Made :** 30 ft.

**Weather:**

**Operations :** 06:00 to 08:00 - Other - Wait on DST tools  
08:00 to 10:00 - Trips - TOH for DST. Strap on TOH. TD Correction to 4139.36'  
10:00 to 12:00 - Drill Stem Test - PU DST tools.  
12:00 to 12:30 - Lubricate Rig - Rig Service  
12:30 to 14:30 - Trips - TIH  
14:30 to 19:00 - Drill Stem Test - DST Lower Ismay. See DST report in PA.  
19:00 to 21:00 - Trips - TOH  
21:00 to 23:30 - Other - LD DST tools and load.  
23:30 to 00:30 - Trips - TIH DC's and SWDP  
00:30 to 03:00 - Trips - TOH and LD HWDP and DC's. Strap 18 jts of DP.  
03:00 to 06:00 - Trips - TIH DP and PU 18 jts of DP.

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Phone : (303) 260-5058 Fax : (303) 260-5007

# Drilling Chronological Report

**Well User ID :** 273254 **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE **STR :** 10 -30S - 24E  
**County :** SAN JUAN, UT **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00 **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1 **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drlg/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

## Daily Drilling Details Report

**Activity Date :** 6/26/00 **Formation :** Lower Ismay **Current Depth :** 4140 ft.  
**Days From Spud :** 16 **24 Hr. Footage Made :** 0 ft.  
**Activity :** Other **Weather:** Fair-80's  
**Operations :** 06:00 to 09:00 - Condition Mud & Circulate - Circulate. Wait for cementers. Notified State of Utah of P/A. Left voice mail.  
09:00 to 10:00 - Other - RU Halliburton cementers  
10:00 to 10:30 - Plug Back - Pump 1st P/A plug from 3700-4140'-126 sxs. Witnessed by BLM Jeff Brown.  
10:30 to 12:00 - Trips - TOH and LD 63 jts.  
12:00 to 12:30 - Condition Mud & Circulate - Circulate. Get ready for next plug.  
12:30 to 14:00 - Plug Back - Pump 2nd P/A plug from 2025-2186'-60 sxs. Witnessed by BLM.  
14:00 to 15:30 - Trips - TOH and LD DP.  
15:30 to 16:00 - Plug Back - Circ. Get ready to cement. Halliburton getting ready to pump cement. Pre-mixed some cement.  
Cemented up  
pump truck. Truck won't pump. Call for new truck.  
16:00 to 00:30 - Condition Mud & Circulate - New pump truck arrives in 7 hours. RU new pump truck.  
00:30 to 01:00 - Plug Back - Pump 3rd plug from 502-665 60 sxs.  
01:00 to 01:30 - Trips - LD 20 jts of DP.  
01:30 to 02:00 - Plug Back - Pump 4th plug from Surface-55' 34 sxs.  
02:00 to 06:00 - Other - Clean mud tanks. ND BOP stack.

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## Daily Drilling Details Report

**Activity Date :** 6/27/00 **Formation :** Lower Ismay **Current Depth :** 4140 ft.  
**Days From Spud :** 17 **24 Hr. Footage Made :** 0 ft.  
**Activity :** Rig Up & Tear Down **Weather:** Cloudy  
**Operations :** 06:00 to 09:00 - Rig Up & Tear Down - Finish cleaning mud tanks and ND BOP. Cutoff wellhead. Release rig @ 0900 @ 6-26-00. RD Rig.

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**Drilling Chronological Report**

**Well User ID :** 273254      **Well Name:** LISBON C 910 I  
**Operator :** TOM BROWN, INC.  
**Loc :** SW SE      **STR :** 10 - 30S - 24E  
**County :** SAN JUAN, UT      **API Code :** 43-037-31805  
**Field :** LISBON  
**Contractor :** Sauer 31  
**Spud Date :** 6/11/00      **Rig Rel Date :** 6/26/00

**AFE # :** D00U019  
**WI :** 1      **NRI :** 0.825  
**AFEDHC :** \$399,188  
**AFECWC :** \$668,640  
**AFE Type :** Exploration Drig/Comp  
**Proposed Depth:** 4200  
**Target Formation:** ISMAY

**DRILL STEM TEST RESULTS**

DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP Time Interval	
1	6/24/2000	Lower Ismay	4010	4140	1203	1072	1984	1956	15,60,60,120

**1st Open:** Surface bubbles. 1" in 5 min, 1/2" in 10 min, 1/2" in 15 min. SI tool w/ 1/2" blow. Died in 3 mins.  
**2nd Open:** Surface bubbles. 1/2" in for 50 mins. 1/4" in 55 mins. Weak surface bubbles in 60 mins. SI tool w/weak surface bubbles. Died in 1 1/2 mins.  
**Recovery:** Recovered 475' mud cut water. Top @ 2300 ppm NaCL. Middle sample @ 3200 ppm NaCL. Bottom Sample: 18000 ppm NaCL

**Formation Tops**

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Ref Subsea	+/- To Ref Well	Comments
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DIVISION OF  
 OIL, GAS AND MINING

State of Delaware  
Secretary of State  
Division of Corporations  
Delivered 06:15 PM 12/22/2004  
FILED 06:15 PM 12/22/2004  
SRV 040934710 - 2137895 FILE

**STATE OF DELAWARE  
CERTIFICATE OF MERGER OF  
DOMESTIC CORPORATIONS**

Pursuant to Title 8, Section 251(c) of the Delaware General Corporation Law, the undersigned corporation executed the following Certificate of Merger:

**FIRST:** The name of the surviving corporation is EnCana Oil & Gas (USA) Inc., and the names and jurisdictions of the corporations being merged into this surviving corporation are as follows:

<u>Name</u>	<u>Jurisdiction of Incorporation</u>
Tom Brown, Inc.	Delaware corporation
TBI Pipeline Company	Delaware corporation
TBI West Virginia, Inc.	Delaware corporation

**SECOND:** The Agreement and Plan of Merger has been approved, adopted, certified, executed and acknowledged by each of the constituent corporations.

**THIRD:** The name of the surviving corporation is EnCana Oil & Gas (USA) Inc., a Delaware corporation.

**FOURTH:** The Certificate of Incorporation of the surviving corporation shall be its Certificate of Incorporation.

**FIFTH:** The merger is to become effective on January 1, 2005.

**SIXTH:** The Agreement and Plan of Merger is on file at 950 17<sup>th</sup> Street, Suite 2600, Denver, Colorado 80202, the place of business of the surviving corporation.

**SEVENTH:** A copy of the Agreement and Plan of Merger will be furnished by the surviving corporation on request, without cost, to any stockholder of the constituent corporations.

**IN WITNESS WHEREOF,** said surviving corporation has caused this certificate to be signed by an authorized officer, the 17th day of December, A.D., 2004.

ENCANA OIL & GAS (USA) INC.

By: Mary A. Viviano  
Mary A. Viviano, Secretary

# Delaware

PAGE 1

*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF MERGER, WHICH MERGES:

"TBI PIPELINE COMPANY", A DELAWARE CORPORATION,

"TBI WEST VIRGINIA, INC.", A DELAWARE CORPORATION,

"TOM BROWN, INC.", A DELAWARE CORPORATION,

WITH AND INTO "ENCANA OIL & GAS (USA) INC." UNDER THE NAME OF "ENCANA OIL & GAS (USA) INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-SECOND DAY OF DECEMBER, A.D. 2004, AT 6:15 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF MERGER IS THE FIRST DAY OF JANUARY, A.D. 2005.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



2137895 8100M

040934710

*Harriet Smith Windsor*

Harriet Smith Windsor, Secretary of State

AUTHENTICATION: 3584585

DATE: 12-29-04

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No.

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

6. If Indian, Allotte or Tribe Name

7. Unit Agreement Name

1. Type of Well

- Oil Well     Gas Well     Other

8. Well Name and Number

2. Name of Operator: EnCana Oil & Gas (USA) Inc.  
(successor in interest of Tom Brown, Inc. effective 1/1/05)

Contact: Jane Washburn  
Phone: 720/876-5431

9. API Well Number

3. Address and Telephone No.

370 Seventeenth Street, Suite 1700, Denver, CO 80202

10. Field and Pool, or Exploratory Area

4. Location of Well

Footages: **SEE ATTACHED LIST OF WELLS**  
QQ, Sec T,R,M:

County:  
State:

**11. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon                   | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change Plans              | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Multiple Completion       | <input type="checkbox"/> Water Shut-Off       |
| <input type="checkbox"/> Other                     |   |

Approximate date work will start \_\_\_\_\_

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- |  |   |
|--|---|
| <input type="checkbox"/> Abandon*                  | <input type="checkbox"/> New Construction     |
| <input type="checkbox"/> Repair Casing             | <input type="checkbox"/> Pull or Alter Casing |
| <input type="checkbox"/> Change Plans              | <input type="checkbox"/> Recomplete           |
| <input type="checkbox"/> Convert to Injection      | <input type="checkbox"/> Reperforate          |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Vent or Flare        |
| <input type="checkbox"/> Fracture Treat or Acidize | <input type="checkbox"/> Water Shut-Off       |
| <input checked="" type="checkbox"/> Other          |   |

Change of Operator

Date of work completion \_\_\_\_\_

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. Describe Proposed or completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones.  
Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, A form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

N9885                      N2175

The merger of Tom Brown, Inc. with EnCana Oil & Gas (USA) Inc. was effective January 1, 2005. It is, therefore, requested that the Operator of all properties on the attached list be changed from Tom Brown, Inc. to EnCana Oil & Gas (USA) Inc.

RECEIVED

JAN 2 / 2005

DIV. OF OIL, GAS & MINING

13. Name (Printed/Typed) Jane Washburn	Title Operations Engineering Tech
Signature <i>Jane Washburn</i>	Date 01/24/2005

(This space for State use only)

APPROVED 2134105

ER

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

well name	sec	twsp	rng	api	entity	lease	well	stat	flag	unit name	lease num	qtr	qtr	td	md	d	apd	op no
BIG INDIAN 36-42	36	290S	240E	4303731827		State	GW	APD			ST-UT-37067	SESW					5750	N9885
FEDERAL 14-18	18	250S	060E	4301530060	436	Federal	NA	PA			UTU-69447	SWSW						N9885
NW USA D-1 (B-624)	24	300S	240E	4303716516	99990	Federal	WD	A			UTU-070034	NENW						N9885
FEDERAL 15-25	25	290S	230E	4303730317	4776	Federal	GW	S			UTU-986	SWSE						N9885
BIG INDIAN 35-24	35	290S	240E	4303731829	14409	Federal	GW	DRL	C		UTU-077077	SENE						N9885
BIG INDIAN 27-34	27	290S	240E	4303731828		Federal	GW	APD	C		N9885							
BIG INDIAN UNIT 1	33	290S	240E	4303716219	8122	Federal	OW	S		BIG INDIAN	UTSL-067131	SENE						N9885
BIG INDIAN 4	14	300S	250E	4303716221	8124	Federal	GW	TA		BIG INDIAN	UTSL-089097	SWSW						N9885
BIG INDIAN 34-11	34	290S	240E	4303731818	14004	Federal	D	PA	C	BIG INDIAN	UTU-014905	NWNW						N9885
BULL HORN U 10-43	10	300S	250E	4303731831	14393	Federal	GW	DRL	C	BULL HORN	UT-73190	SWSE						N9885
LISBON B-615	15	300S	240E	4303715123	8123	Federal	OW	P		LISBON	UTU-09179	NENW						N9885
LISBON FED 2-21F	21	300S	250E	4303715768	410	Federal	GW	S		LISBON	UTU-094674	SENE						N9885
LISBON B912	12	300S	240E	4303715769	8123	Federal	OW	S		LISBON	UTU-06922	SESW						N9885
LISBON A-713A	13	300S	240E	4303716236	8123	Federal	GW	PA		LISBON	UTSL-070034	SWNW						N9885
LISBON A-715	15	300S	240E	4303716237	8123	Federal	WD	A		LISBON	UTU-020691A	SWNW						N9885
LISBON B-613	13	300S	240E	4303716240	8123	Federal	OW	S		LISBON	UTSL-070034	NENW						N9885
LISBON C-69	09	300S	240E	4303716245	8123	Federal	OW	S		LISBON	UTU-09179	NWNE						N9885
LISBON C-94	04	300S	240E	4303716247	8123	Federal	OW	S		LISBON	UTU-66582	SWSE						N9885
LISBON UNIT D-84	04	300S	240E	4303716250	8123	Federal	OW	P		LISBON	UTU-015445	NESE						N9885
LISBON D-89	09	300S	240E	4303716251	8123	Federal	OW	P		LISBON	UTU-015445	NESE						N9885
NW LISBON USA B-1 (B-614)	14	300S	240E	4303716468	8123	Federal	OW	P		LISBON	UTSL-070008A	NENW						N9885
NW LISBON USA A-2 (D-810)	10	300S	240E	4303716471	8123	Federal	GW	P		LISBON	UTU-14903	NESE						N9885
LISBON B-84	04	300S	240E	4303730054	8123	Federal	OW	S		LISBON	UTU-09179	NESW						N9885
LISBON B-814	14	300S	240E	4303730082	8123	Federal	OW	S		LISBON	UTSL-070008A	NESW						N9885
LISBON C-99	09	300S	240E	4303730693	8123	Federal	OW	P		LISBON	UTU-09179	SWSE						N9885
LISBON B-94	04	300S	240E	4303730695	8123	Federal	OW	S		LISBON	UTU-015445	SESW						N9885
LISBON C-910 I	10	300S	240E	4303731805	12892	Federal	D	PA		LISBON	UTU-0141903	SWSE						N9885
LISBON D-616	16	300S	240E	4303715049	8123	State	OW	P		LISBON	ML-13692	NENE	9120	9120				N9885
LISBON B-616	16	300S	240E	4303716242	8123	State	OW	S		LISBON	ML-8366	NESW	8689	8689				N9885
BELCO ST 4 (LISBON B-816)	16	300S	240E	4303716244	8123	State	WD	A		LISBON	ML-8366	NESW	8730	9100				N9885
LISBON UNIT D-716	16	300S	240E	4303731034	8123	State	OW	P		LISBON	ML-13692	SENE	8794	8775				N9885
LISBON U B-610	10	300S	240E	4303716469	8123	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NENW						N9885
LISBON U B-610	10	300S	240E	4303716469	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NENW						N9885
LISBON U D-610	10	300S	240E	4303730694	9740	Federal	GW	P		LISBON (MCCRACKEN)	UTU-014903	NENE						N9885
LISBON UNIT A-911	11	300S	240E	4303731014	9740	Federal	GW	P		LISBON (MCCRACKEN)	UTSL-070008A	SWSW						N9885
LISBON C-910	10	300S	240E	4303731323	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	SWSE						N9885
LISBON B-614A	14	300S	240E	4303731351	9740	Federal	OW	TA		LISBON (MCCRACKEN)	UTSL-070008A	NENW						N9885
LISBON B-810	10	300S	240E	4303731433	9740	Federal	OW	P		LISBON (MCCRACKEN)	UTU-014903	NESW						N9885
LISBON (MCCRACKEN) D-615	15	300S	240E	4303731817		Federal	OW	LA		LISBON (MCCRACKEN)	N9885							
LISBON (MCCRACKEN) A-610	10	300S	240E	4303731821		Federal	OW	LA		LISBON (MCCRACKEN)	N9885							

**OPERATOR CHANGE WORKSHEET**

<b>ROUTING</b>
1. GLH
2. CDW
3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X Change of Name**

**Merger**

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

**1/1/2005**

<b>FROM: (Old Operator):</b> N9885-Tom Brown, Inc. 555 17th St, Suite 1850 Denver, CO 80202 Phone: 1-(720) 876-5157	<b>TO: ( New Operator):</b> N2175-EnCana Oil & Gas (USA) Inc. 370 17th St, Suite 1700 Denver, CO 80202 Phone: 1-(720) 876-5068
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**CA No.**

**Unit:**

**LISBON**

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
LISBON C-94	04	300S	240E	4303716247	8123	Federal	OW	S
LISBON UNIT D-84	04	300S	240E	4303716250	8123	Federal	OW	P
LISBON B-84	04	300S	240E	4303730054	8123	Federal	OW	S
LISBON B-94	04	300S	240E	4303730695	8123	Federal	OW	S
LISBON C-69	09	300S	240E	4303716245	8123	Federal	OW	S
LISBON D-89	09	300S	240E	4303716251	8123	Federal	OW	P
LISBON C-99	09	300S	240E	4303730693	8123	Federal	OW	P
NW LISBON USA A-2 (D-810)	10	300S	240E	4303716471	8123	Federal	GW	P
LISBON C-910 I	10	300S	240E	4303731805	12892	Federal	D	PA
LISBON B912	12	300S	240E	4303715769	8123	Federal	OW	S
LISBON A-713A	13	300S	240E	4303716236	8123	Federal	GW	PA
LISBON B-613	13	300S	240E	4303716240	8123	Federal	OW	S
NW LISBON USA B-1 (B-614)	14	300S	240E	4303716468	8123	Federal	OW	P
LISBON B-814	14	300S	240E	4303730082	8123	Federal	OW	S
LISBON B-615	15	300S	240E	4303715123	8123	Federal	OW	P
LISBON A-715	15	300S	240E	4303716237	8123	Federal	WD	A
NW USA D-1 (B-624)	24	300S	240E	4303716516	99990	Federal	WD	A

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/27/2005
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/27/2005
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 2/23/2005
- Is the new operator registered in the State of Utah: YES Business Number: 5053175-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2) Waste Management Plan has been received on: In PLACE
- Inspections of LA PA state/fee well sites complete on: n/a

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA

8. **Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 2/24/2005
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/24/2005
- Bond information entered in RBDMS on: 2/24/2005
- Fee/State wells attached to bond in RBDMS on: 2/24/2005
- Injection Projects to new operator in RBDMS on: 2/24/2005
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UT1005

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number: n/a

**FEE & STATE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0007875

2. The **FORMER** operator has requested a release of liability from their bond on: n/a  
The Division sent response by letter on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

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

**COMMENTS:**

Merger and rider of bond from Tom Brown, Inc.