



TOM BROWN, INC.

April 23, 2002

TO WHOM IT MAY CONCERN

Re: **Agent Authorization**

Gentlemen:

This letter is to inform you that Permitco 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 any of Tom Brown, Inc. permits in Colorado and Utah.

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 regulations.

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

This authorization is in effect until cancelled by Tom Brown, Inc.

Sincerely,

TOM BROWN, INC.

David S. Petrie
Regulatory, Environmental &
Govt. Relations Manager



14421 County Road 10 • Fort Lupton, Colorado 80621 • (303) 857-9999 • FAX (303) 857-0577 • E-MAIL LSPermitco@aol.com

May 8, 2003

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

Attn: John Baza

Re: Tom Brown, Inc.
Big Indian #34-11
992' FNL and 577' FWL
NW NW Sec. 34 T29S - R24E
San Juan County, Utah
Lease No. UTU-014905

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 note that this location falls at non-standard spacing, however it is within the Big Indian Unit.

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
Tom Brown, Inc. - Grand Junction, CO
Tom Brown, Inc. - Moab, UT

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MAY 12 2003

DIV. OF OIL, GAS & MINING

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

AMENDED REPORT
(highlight changes)

001

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO.: UTU-014905	6. SURFACE: Federal
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
2. NAME OF OPERATOR: Tom Brown Inc.		8. UNIT or CA AGREEMENT NAME: Big Indian	
3. ADDRESS OF OPERATOR: 555 - 17th Street, Suite 1850, Denver, CO 80202		9. WELL NAME and NUMBER: Big Indian #34-11	
PHONE NUMBER: 303/260-5000		10. FIELD AND POOL, OR WILDCAT: Big Indian	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 992' FNL and 577' FWL AT PROPOSED PRODUCING ZONE: NW NW		11. QTR/QTR, SECTION, TOWNSHIP, RANGE MERIDIAN: Sec. 34, T29S-R24E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 33.6 miles Southeast of Moab, UT		12. COUNTY: San Juan	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 577'	16. NUMBER OF ACRES IN LEASE: 932.55	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: N/A	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): None	19. PROPOSED DEPTH: 10,400'	20. BOND DESCRIPTION: Nationwide Bond No. ESO-183	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6826' GL	22. APPROXIMATE DATE WORK WILL START: ASAP	23. ESTIMATED DURATION: 36 Days	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12.25"	9-5/8", 36#, J-55, STC	1,000'	204 sx 65/35/8, 12.7#, 1.85 yld - 180 sx Type III, 14.5#, 1.41 yld
8.75"	5.5", 17#, L80, LTC	10,400'	100sx 75/25/8 Poz, 13.8#, 1.32 yld - 1820sx 50/50/2 Poz, 13.8#, 1.32 yld

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ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- COMPLETE DRILLING PLAN
- FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

Water Permit #05-570

AGENT: Permitco Inc, 14421 County Road 10, Fort Lupton, CO 80621

AGENT'S PHONE NO.: 303-857-9999

NAME (PLEASE PRINT) Lisa L. Smith

TITLE Agent for Tom Brown Inc.

SIGNATURE *Lisa L. Smith*

DATE May 8, 2003

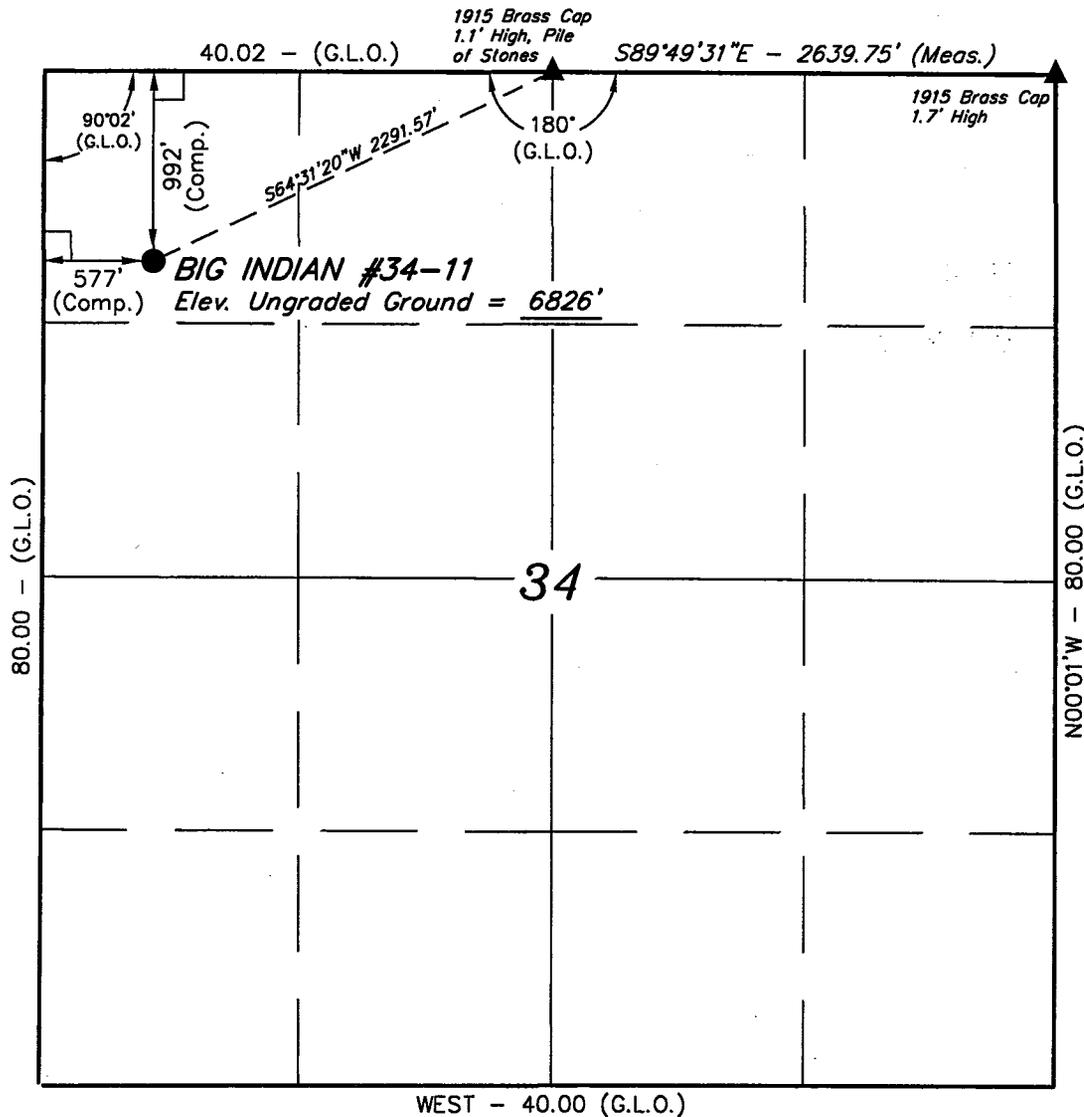
(This space for State use only)

API NUMBER ASSIGNED: 43-037-31818

Federal Approval of this
Action is Necessary

Approved by the
Utah Division of
Oil, Gas and Mining
Date: 07-08-03
By: *[Signature]*

T29S, R24E, S.L.B.&M.



LEGEND:

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

(AUTONOMOUS NAD 83)
 LATITUDE = 38°14'31.63" (38.242119)
 LONGITUDE = 109°16'16.13" (109.271147)

TOM BROWN INC.

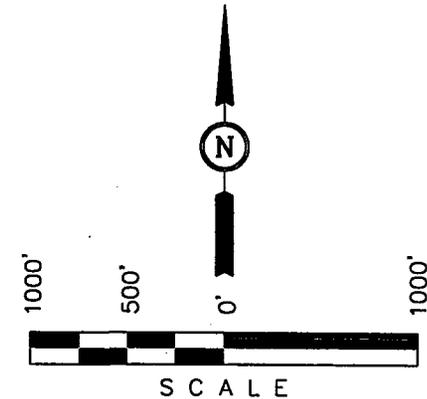
Well location, BIG INDIAN #34-11, located as shown in the NW 1/4 NW 1/4 of Section 34, T29S, R24E, S.L.B.&M. San Juan County, Utah.

BASIS OF ELEVATION

BENCH MARK (LA SAL 7207) LOCATED NEAR 1/4 CORNER ON THE WEST LINE OF SECTION 34, T29S, 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 7207 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



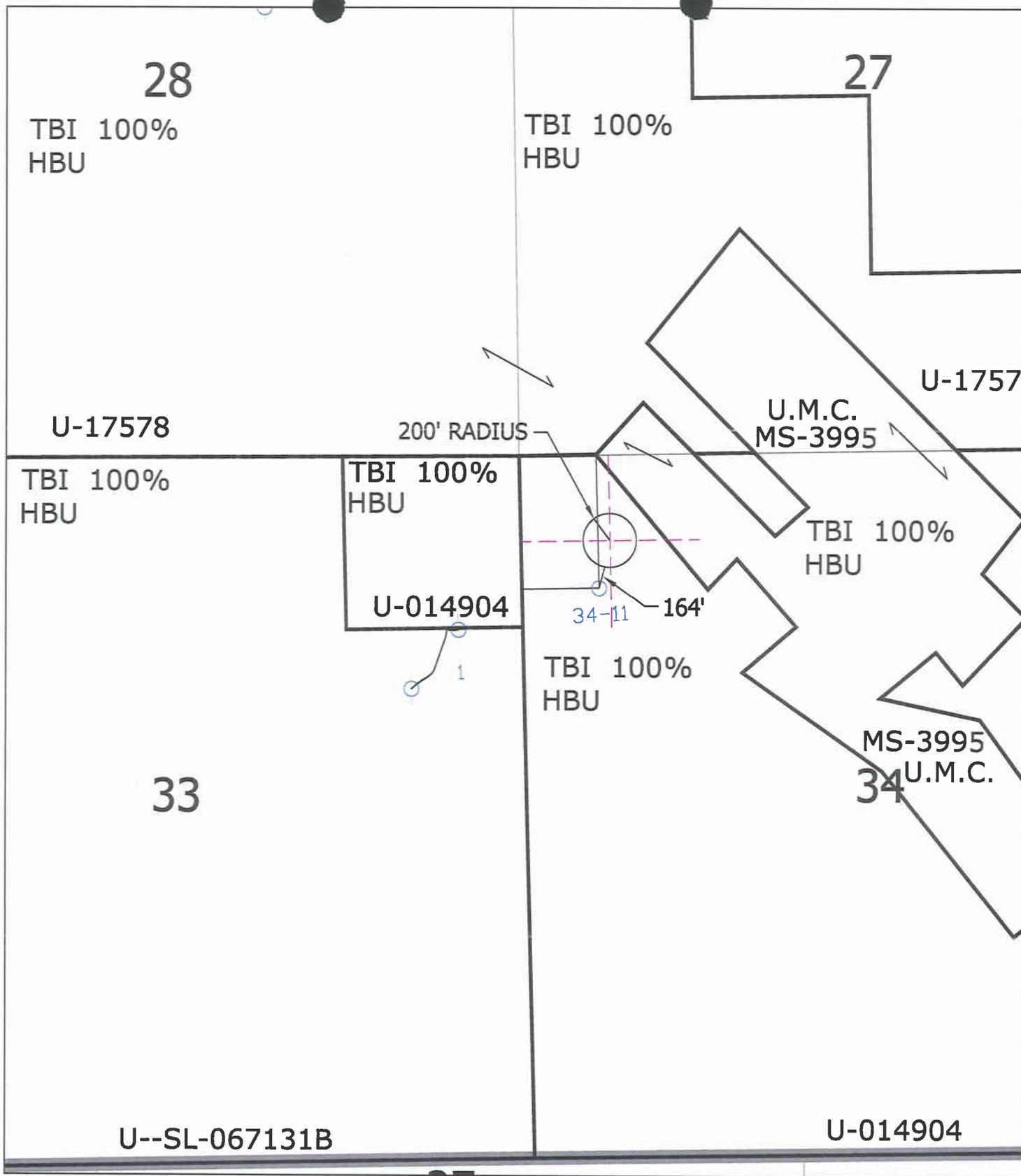
CERTIFICATE

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 H. Kay
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

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

SCALE 1" = 1000'	DATE SURVEYED: 04-09-03	DATE DRAWN: 04-11-03
PARTY J.F. A.F. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE TOM BROWN INC.	



TOM BROWN, INC.		
EXCEPTION LOCATION BIG INDIAN 34-II 992' FNL, 577' FWL SECTION 34, T29S R24E SAN JUAN COUNTY, UTAH		
7/2/03	SCALE 1:12000	UTM-27 12P
LAYOUT:34-II	WISNIEWSKI	BIG IND 34-II.DWG

CONFIDENTIAL - TIGHT HOLE

ONSHORE OIL & GAS ORDER NO. 1

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

Big Indian #34-11

992' FNL and 577' FWL
NW NW Sec. 34, T29S - R24E
San Juan County, Utah

Prepared For:

TOM BROWN, INC.

By:

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

CONFIDENTIAL-TIGHT HOLE

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MAY 12 2003

DIV. OF OIL, GAS & MINING

Copies Sent To:

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



APPLICATION FOR PERMIT TO DRILL OR REENTER

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
Attached.
2. A Drilling Plan
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the Appropriate Forest Service Office.
See Surface Use Plan Attached.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20).
Bond coverage for this well is provided by Tom Brown Inc. under their BLM Bond No. Nationwide Bond No. ESO-183.
5. Operator certification.
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.
6. Such other site specific information and/or plans as may be required by the authorized officer.

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Tom Brown, Inc.

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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>
Cutler	0'	+6,830'
Honaker Trail	940'	+5,890'
Ismay	3,615'	+3,215'
Paradox Salt	3,240'	+3,590'
Pinkerton Trail	9,230'	-2,400'
Leadville	9,240'	-2,410'
McCracken	9,720'	-2,890'
TD	10,400'	

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:



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<i>Substance</i>	<i>Formation</i>	<i>Depth</i>
Water	Honaker Trail	940'
Oil/Gas	Ismay	3,615'
Gas	Leadville	9,240'
Gas	McCracken	9,720'

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: 11" Hydraulic double, 3000 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.



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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.

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 11", 3000 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.



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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, 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.



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- 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.
- 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' - 1,000'	12 - 1/4"	9 - 5/8"	36#	J-55	ST&C	New
Production	0' - 10,400'	8 - 3/4"	5 - 1/2"	17#	L-80	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 - 1,000'	Lead: 204 sx 65/35/8, 12.7#, 1.85 yield Tail: 180 sx Type III, 14.5#, 1.41 yield
<i>Production</i>	<i>Type and Amount</i>
3,100' - 10,400'	Lead: 100 sx 75/25/8 Poz, 11.0#, 2.72 yield Tail: 1820 sx 50/50/2 Poz, 13.8#, 1.32 yield



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- 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' - 1000'	Water	+/-8.4	+/-27	N/C



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<i>Interval</i>	<i>Mud Type</i>	<i>Mud Wt.</i>	<i>Visc.</i>	<i>F/L</i>
1000' - 3200'	Water	+/-8.4	+/-27	N/C
3200' - 10,400'	Salt Mud	+/-10.2	+/-40	+/-10

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. No drill stem tests are anticipated. However, 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.



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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 PEX HRLA, GR-Cal, BHC, DN-N-PEX from surface casing to TD.
- c. No cores are anticipated.
- 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 H₂S**

- a. The expected maximum bottom hole pressure is 4160 psi. No abnormal pressures are anticipated.
- b. Hydrogen sulfide gas is anticipated in the Leadville formation. H₂S equipment will be rigged up 500' above the Leadville formation. An H₂S Contingency Plan will be submitted under separate cover by a third party contractor.
- c. As per Onshore Order No. 6, III,A,2.b., if hydrogen sulfide is present the "operator shall initially test the H₂S concentration of the gas stream for each well or production facility..." Submit the results of this test within 30 days of filing Form 3160-4, "Well Completion or Recompletion Report and Log".



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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.



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San Juan County, Utah

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- 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 36 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.



ONSHORE ORDER NO. 1

Tom Brown, Inc.

Big Indian #34-11

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-014905

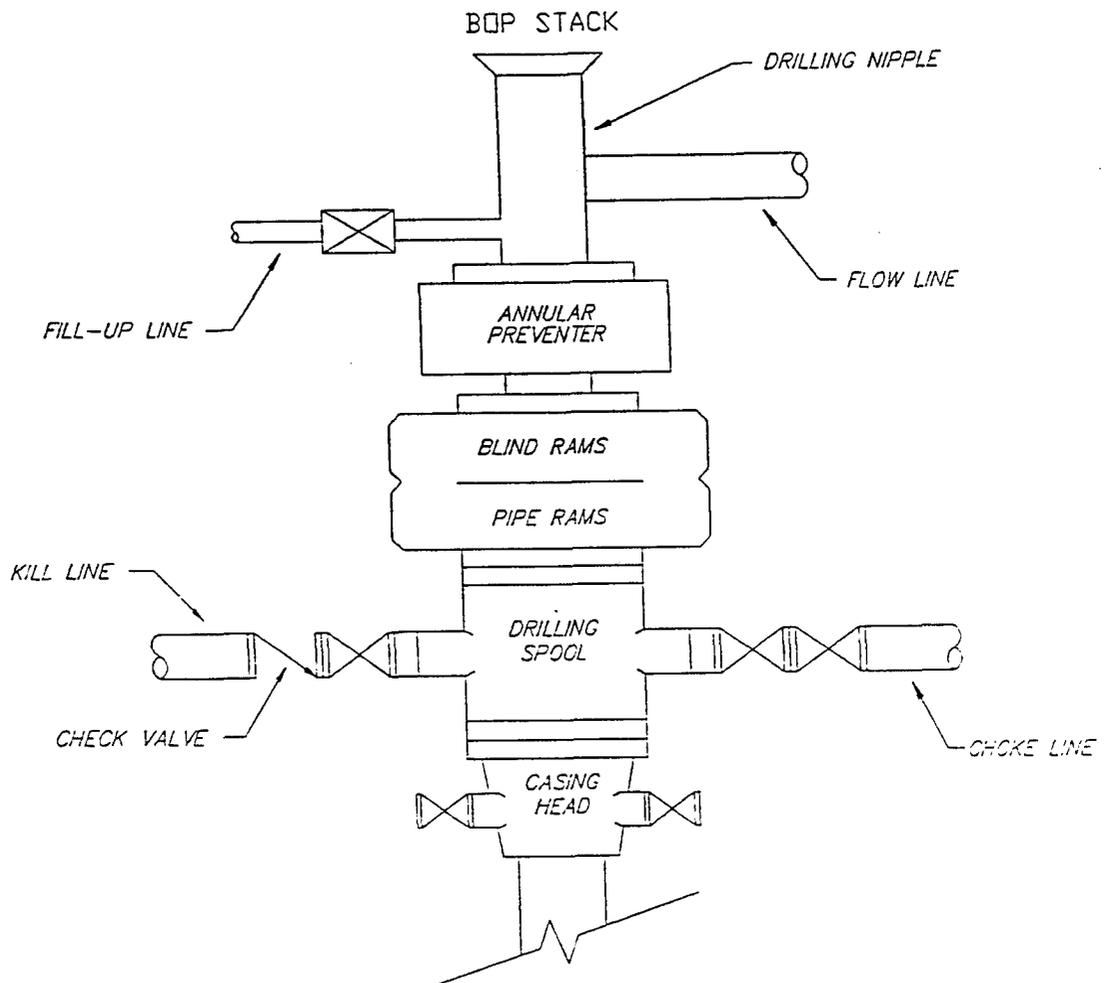
DRILLING PROGRAM

Page 11

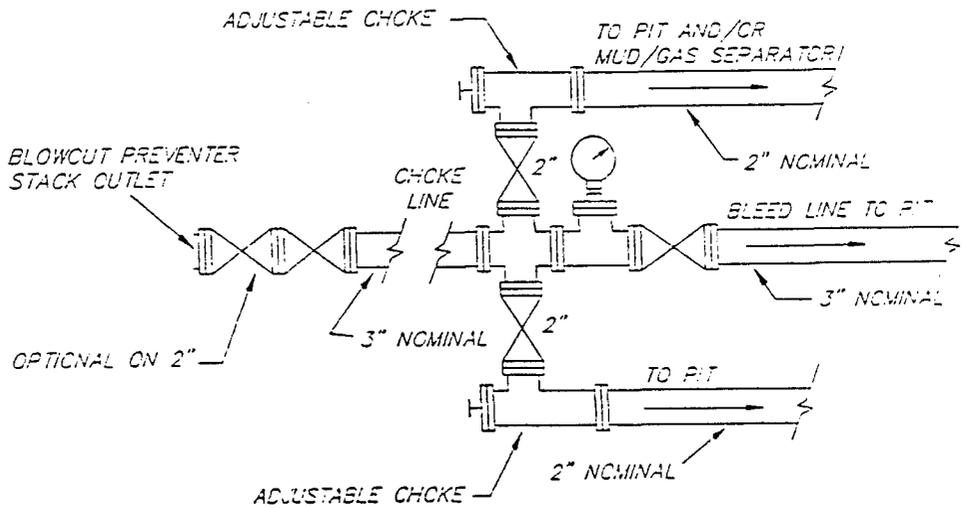
- n. No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the SO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 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.



TYPICAL 3,000 p.s.i.
BLOWOUT PREVENTER SCHEMATIC



TYPICAL 3,000 p.s.i.
CHOKER MANIFOLD SCHEMATIC



ONSHORE ORDER NO. 1

Tom Brown, Inc.

Big Indian #34-11

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-014905

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 Wednesday, April 30, 2003 at approximately 1:30 p.m. Weather conditions were warm and windy. In attendance at the onsite inspection were the following individuals:

Rich McClure	Bureau of Land Management
Robert Kay	Uintah Engineering and Land Surveying
Lisa Smith	Permitco Inc.
Jerry Holder	Tom Brown, Inc.
Mike Shumway	K-Sue Corporation
Jim Keel	K-Sue Corporation
Bill Harrison	Adjacent Land Owner

1. EXISTING ROADS

- a. The proposed well site is located approximately 33.6 miles southeast of Moab, Utah.
- b. Directions to the location from Moab, Utah are as follows:

From, Moab, Utah proceed south on Highway 191 for 21.7 miles to mile to LaSal Junction. Turn left and proceed Easterly for 6.7 miles to the Lisbon Valley Road. Turn right and proceed south and southeast for 5.1 miles. Turn right on an existing improved road and proceed 0.1 miles. Turn left and proceed southeast for approximately 25 feet to the edge of the well pad.
- 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.



Tom Brown, Inc.

Lease No. UTU-014905

Big Indian #34-11

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

San Juan County, Utah

Page 2

- 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 be approximately 25 feet of new access road.
- b. The existing access is currently maintained by the San Juan County Road Department.
- c. The maximum grade of the existing access is approximately 4%.
- d. No turnouts will be necessary.
- e. No culverts or low water crossings will be necessary.
- f. The new access road was centerline flagged at the time of staking.
- g. The need for surfacing material during drilling will not be required.
- h. No cattle guards will be necessary.
- i. 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 Field Manager in advance.
- j. 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.

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



Tom Brown, Inc.

Big Indian #34-11

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992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

San Juan County, Utah

Page 3

- c. Producing wells - none
- d. Drilling wells - none
- e. Shut In wells - one
- f. Abandoned wells - one

4. LOCATION OF TANK BATTERIES AND PRODUCTION FACILITIES.

- a. Production facilities will be located on the well pad. A production facility layout will be submitted via Sundry Notice.
- 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 with a color to be specified by the Bureau of Land Management.
- 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.



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SURFACE USE PLAN

San Juan County, Utah

Page 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 a pond at the Rattlesnake Ranch near Coyote Wash.
- 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.
- d. This water source is permitted under Permit No. 05-570.

6. SOURCE OF CONSTRUCTION MATERIAL

- a. Pad construction material will be native (that found in the well pad).
- b. Native material found in the pad may also be used for road upgrading.
- 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.



Tom Brown, Inc.

Big Indian #34-11

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NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

San Juan County, Utah

Page 5

7. METHODS OF HANDLING WASTE DISPOSAL

- a. All fluids contained within the reserve pit will be allowed to evaporate and the pit will be backfilled. The reserve pit will not be lined.
- b. 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.
- c. 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.
- d. Sewage will be placed in a portable chemical toilet or holding tank and disposed of in accordance with state and county regulations.
- e. 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.



Tom Brown, Inc.

Lease No. UTU-014905

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NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

San Juan County, Utah

Page 6

- d. A flare pit will be located a minimum of 30' from the edge of the reserve pit. See location layout attached.
- e. Any pits containing fluid will be fenced to prevent wildlife entry.

10. PLANS FOR RESTORATION OF SURFACE

- a. Six inches of topsoil (or the maximum available) will be salvaged during construction and reserved for use in reclamation.
- 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. Seeding will be done in the fall as required by the BLM. The suggested seed mixture is as follows:

<i>Species</i>	<i>#'s PLS/Acre</i>
Crested wheatgrass	10
Four-wing saltbush	4
TOTAL	14

- f. 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).
- g. At such time as the well is plugged and abandoned, the operator shall submit a subsequent report of abandonment.



Tom Brown, Inc.

Lease No. UTU-014905

Big Indian #34-11

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

San Juan County, Utah

Page 7

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 will be conducted by Four Corners Archeological. A copy of this report will be submitted to the appropriate agencies by Four Corners Archeological.

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. UTU-014905

Big Indian #34-11

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

SURFACE USE PLAN

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 work over 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 435/259-6111 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
Dave Petrie - Regulatory
303/260-5000 (Office)
303/260-5007 (Fax)
303/ 205-9896 (Home) Greg Olson
303/324-9391 (Cell)

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



ONSHORE ORDER NO. 1

Tom Brown, Inc.

Big Indian #34-11

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San Juan County, Utah

CONFIDENTIAL - TIGHT HOLE

Lease No. UTU-014905

SURFACE USE PLAN

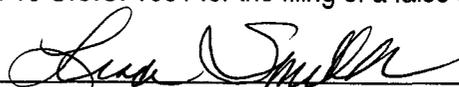
Page 9

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.

May 8, 2003

Date:



Lisa L. Smith - PERMITCO INC.

Authorized Agent for:

Tom Brown, Inc.



TOM BROWN, INC.
BIG INDIAN #34-11
 LOCATED IN SAN JUAN COUNTY, UTAH
 SECTION 34, T29S, R24E, S.L.B.&M.

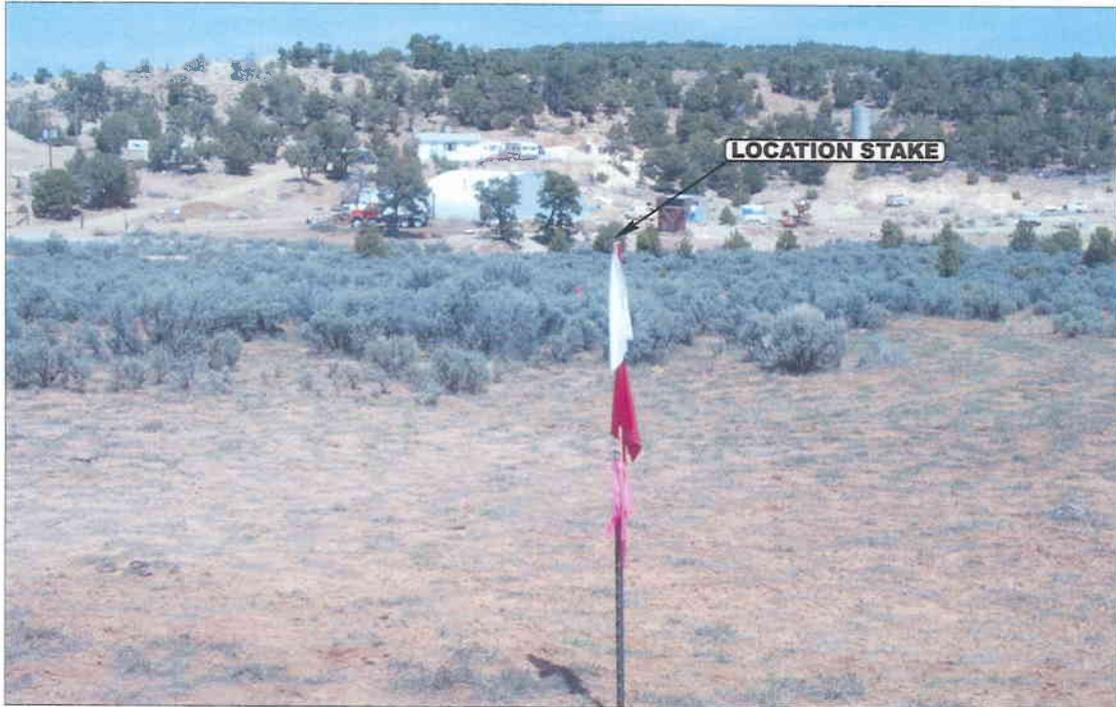


PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

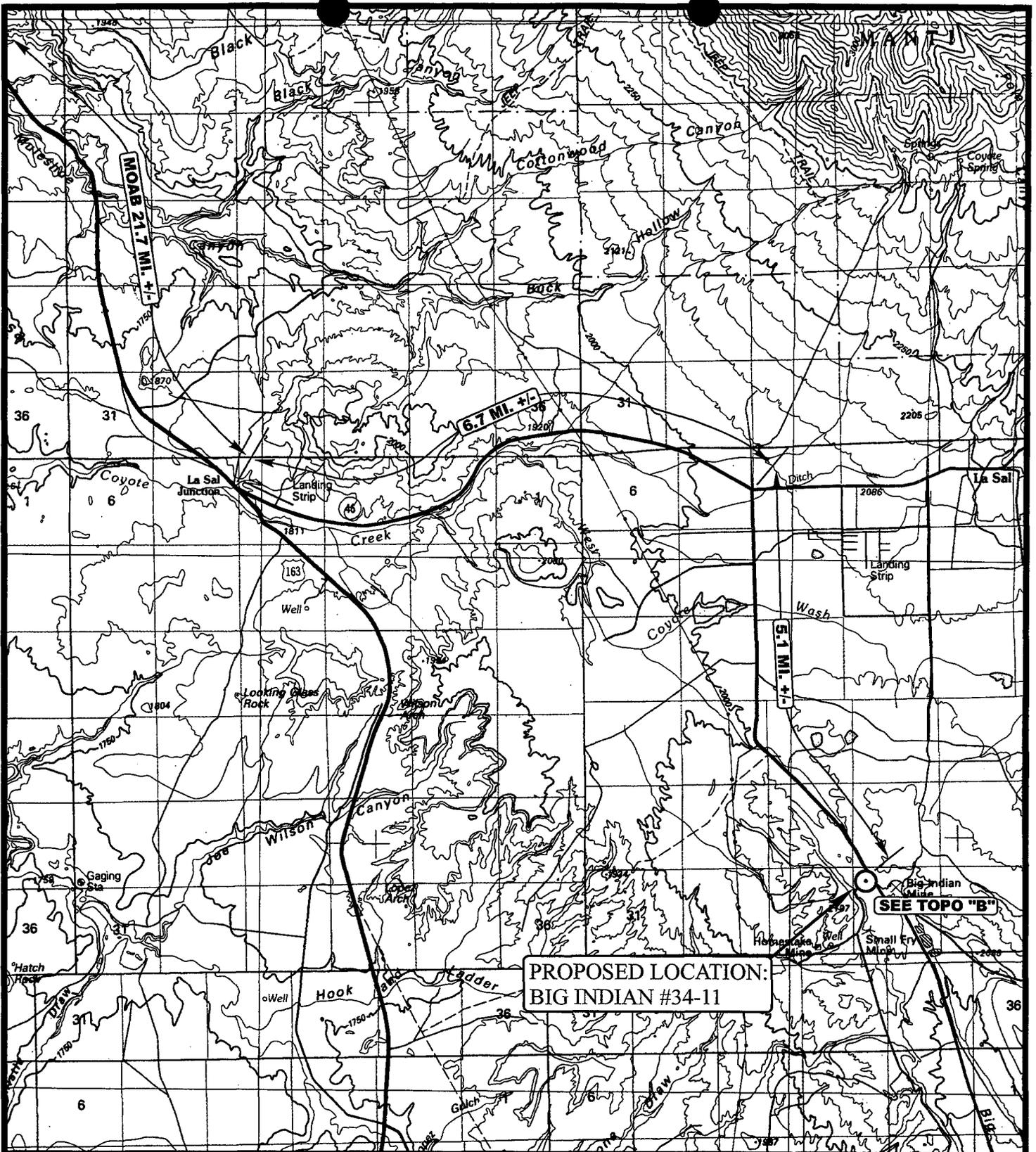
CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS			4	21	03	PHOTO
			MONTH	DAY	YEAR	
TAKEN BY: J.F.	DRAWN BY: J.L.G.	REVISED: 00-00-00				



**PROPOSED LOCATION:
BIG INDIAN #34-11**

SEE TOPO "B"

LEGEND:

○ PROPOSED LOCATION



TOM BROWN INC.

**BIG INDIAN #34-11
SECTION 34, T29S, R24E, S.L.B.&M.
992' FNL 577' FWL**



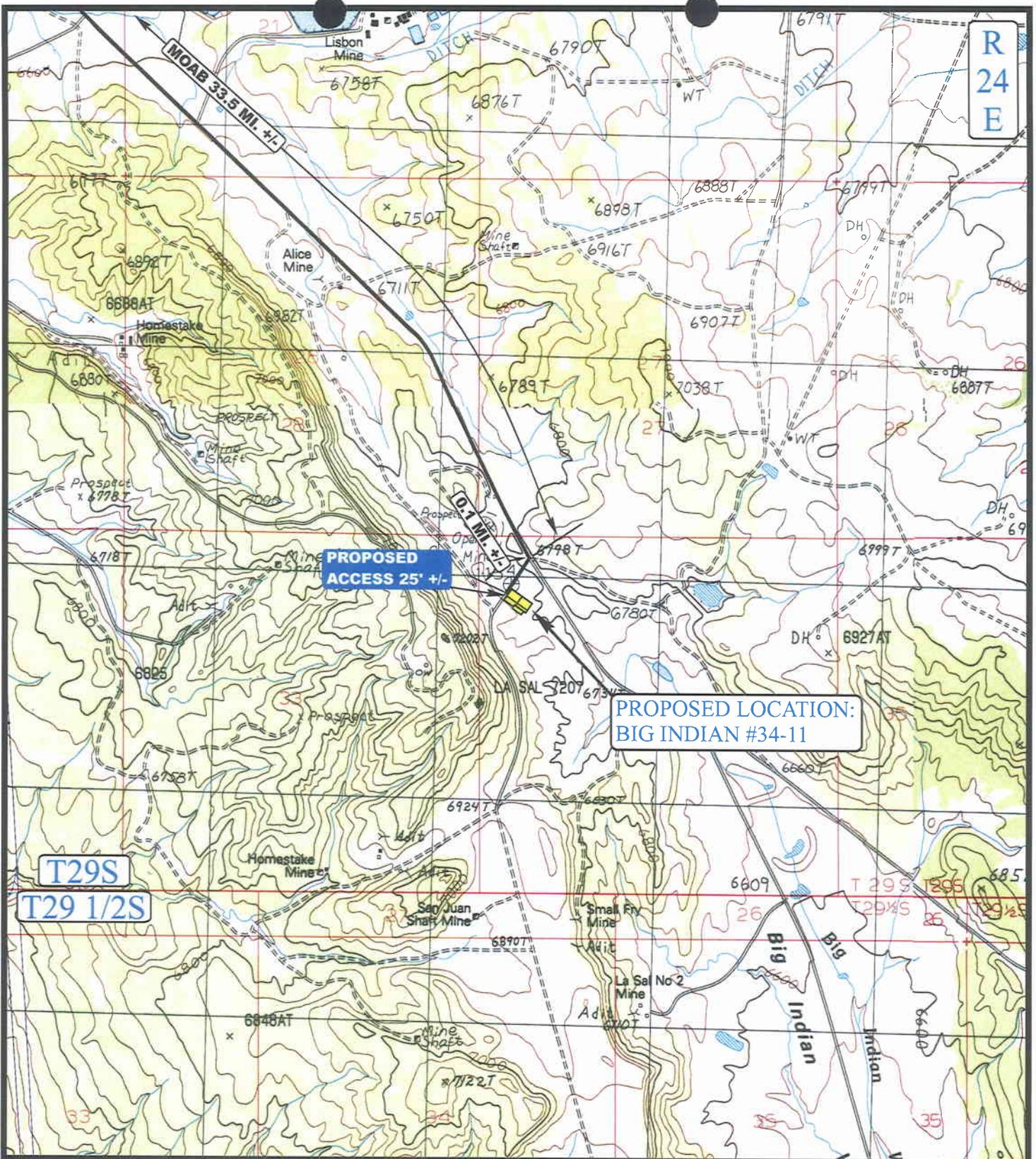
Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

4	18	03
MONTH	DAY	YEAR



SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00



LEGEND:

- - - - - PROPOSED ACCESS ROAD
- EXISTING ROAD



TOM BROWN INC.

BIG INDIAN #34-11
 SECTION 34, T29S, R24E, S.L.B.&M.
 992' FNL 577' FWL



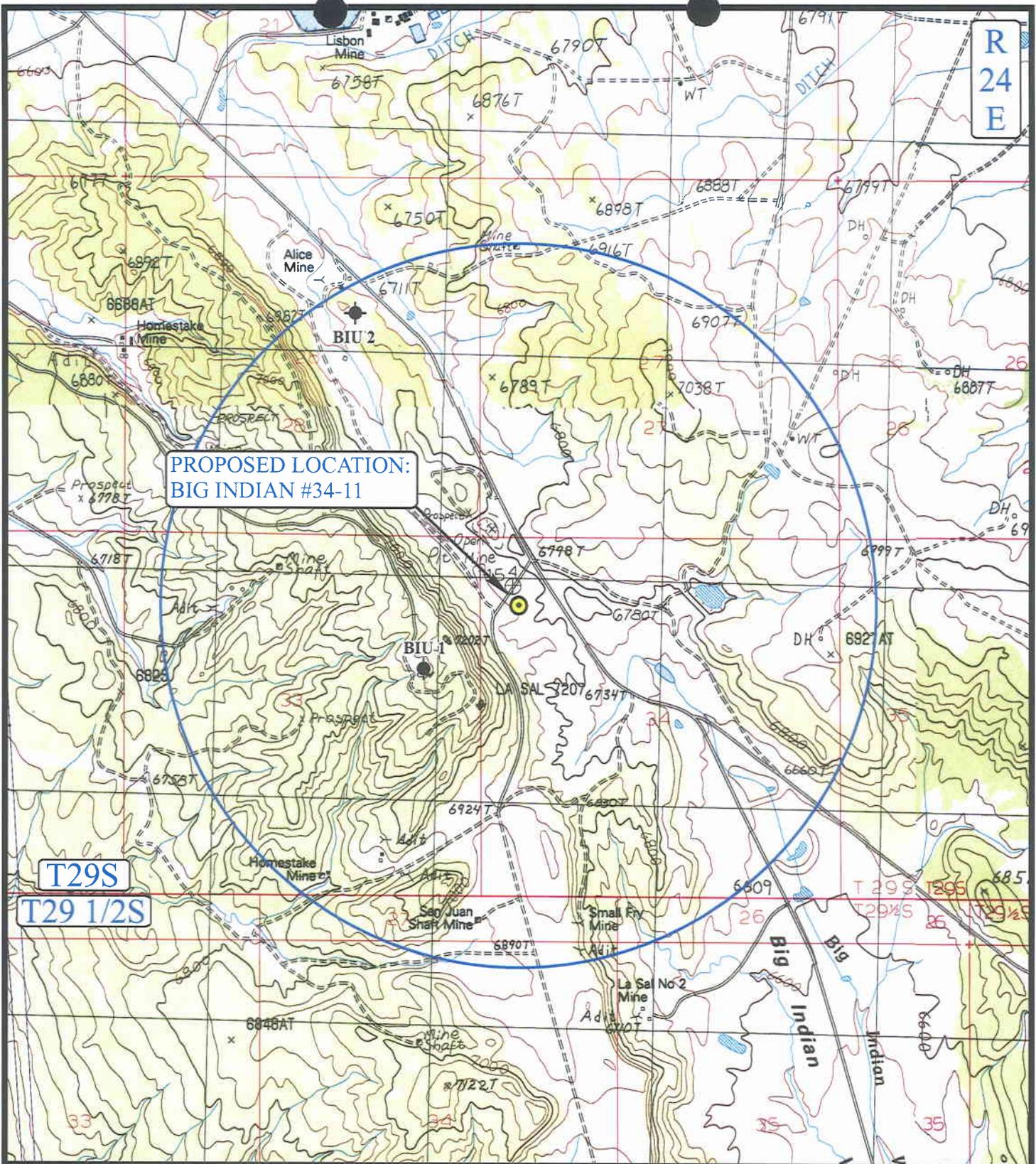
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
 MAP

4 18 03
 MONTH DAY YEAR



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



**PROPOSED LOCATION:
BIG INDIAN #34-11**

T29S

T29 1/2S

LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⬮ SHUT IN WELLS
- ⊗ WATER WELLS
- ⬮ ABANDONED WELLS
- ⬮ TEMPORARILY ABANDONED



TOM BROWN INC.

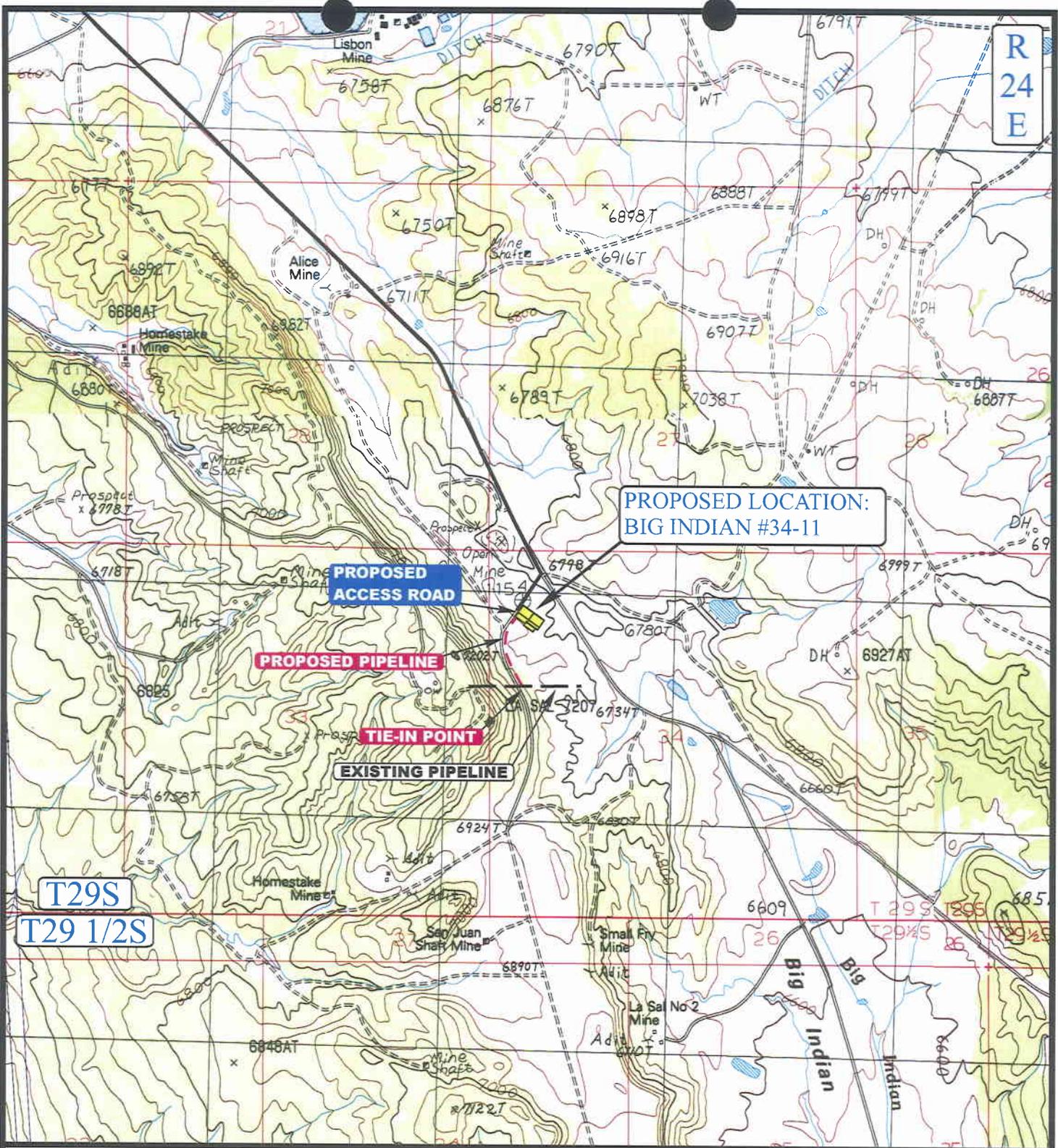
**BIG INDIAN #34-11
SECTION 34, T29S, R24E, S.L.B.&M.
992' FNL 577' FWL**



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

TOPOGRAPHIC MAP **4 18 03**
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 5-5-03





**PROPOSED LOCATION:
BIG INDIAN #34-11**

**PROPOSED
ACCESS ROAD**

PROPOSED PIPELINE

TIE-IN POINT

EXISTING PIPELINE

T29S

T29 1/2S

APPROXIMATE TOTAL PIPELINE DISTANCE = 1200' +/-

LEGEND:

- **EXISTING PIPELINE**
- **PROPOSED PIPELINE**
- **PROPOSED ACCESS**



TOM BROWN INC.

**BIG INDIAN #34-11
SECTION 34, T29S, R24E, S.L.B.&M.
992' FNL 577' FWL**



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

TOPOGRAPHIC MAP
4 18 03
MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 5-5-03

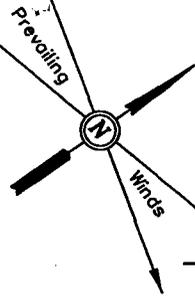


TOM BROWN, INC.

LOCATION LAYOUT FOR

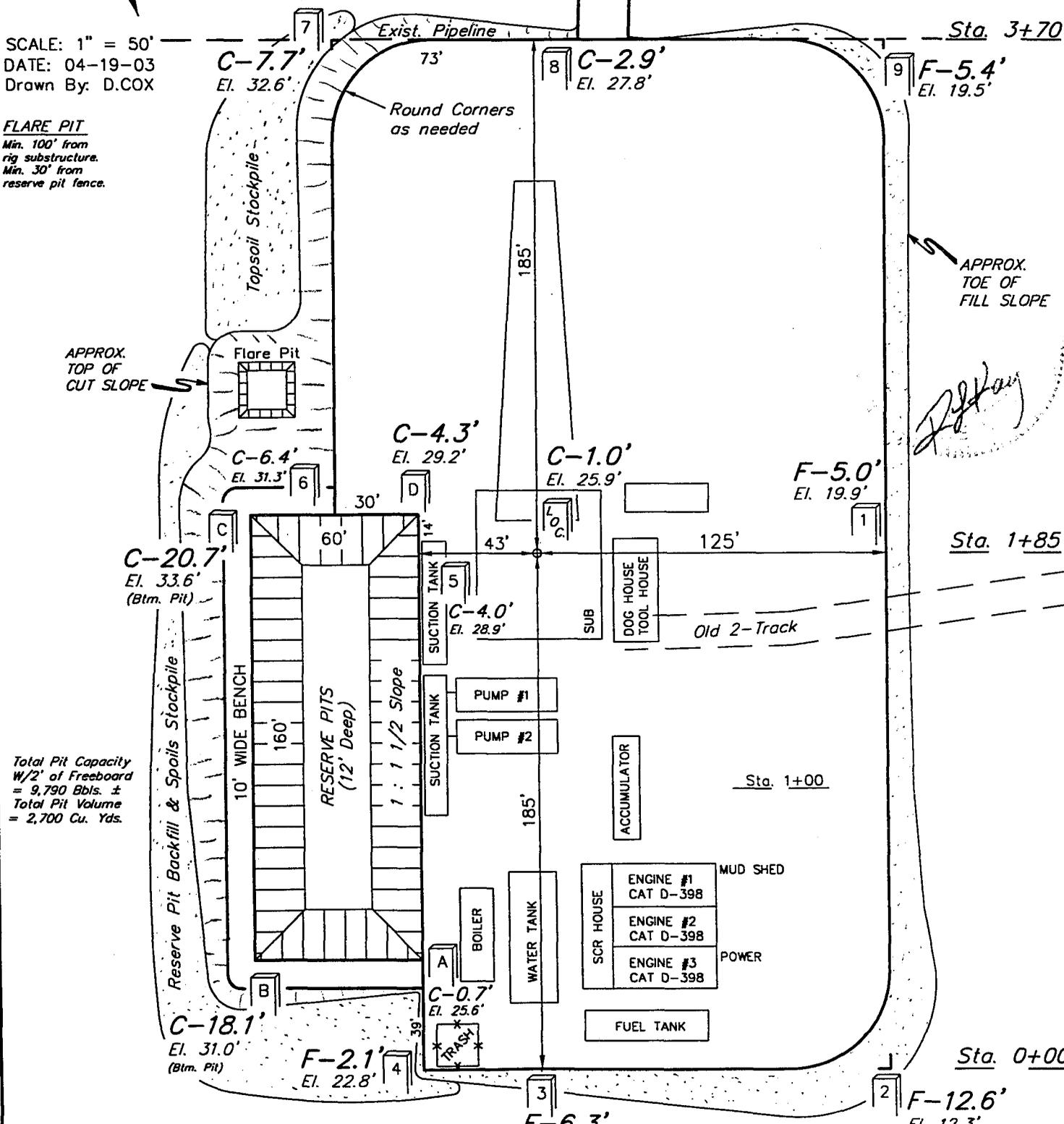
BIG INDIAN #34-11
SECTION 34, T29S, R24E, S.L.B.&M.
992' FNL 577' FWL

Existing San Juan County Rd. 114



SCALE: 1" = 50'
 DATE: 04-19-03
 Drawn By: D.COX

FLARE PIT
 Min. 100' from
 rig substructure.
 Min. 30' from
 reserve pit fence.



Total Pit Capacity
 W/2' of Freeboard
 = 9,790 Bbls. ±
 Total Pit Volume
 = 2,700 Cu. Yds.

Elev. Ungraded Ground at Location Stake = 6825.9'
 Elev. Graded Ground at Location Stake = 6824.9'

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

TOM BROWN, INC.

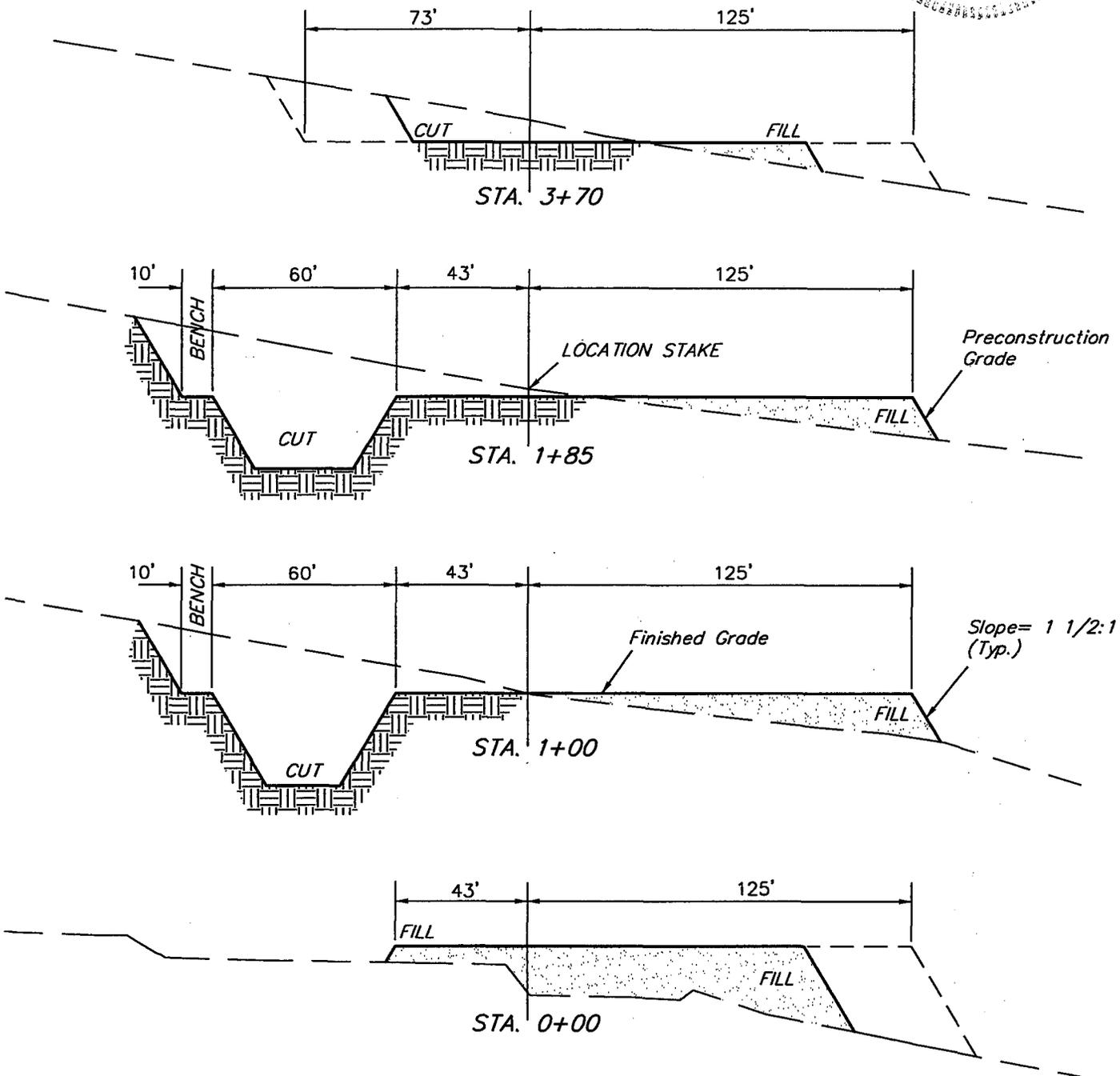
TYPICAL CROSS SECTION FOR

**BIG INDIAN #34-11
SECTION 34, T29S, R24E, S.L.B.&M.
992' FNL 577' FWL**



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

DATE: 04-19-03
Drawn By: D.COX



APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,470 Cu. Yds.
Remaining Location	= 8,050 Cu. Yds.
TOTAL CUT	= 9,520 CU.YDS.
FILL	= 6,370 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 2,820 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 2,820 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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

There are no federal stipulations at this time.



ARCHEOLOGY

A Class III Archeological Survey will be conducted by Four Corners Archeological. A copy of the report will be submitted directly to the appropriate agencies by Four Corners Archeological.



SAN JUAN COUNTY ROAD DEPARTMENT
835 EAST HIGHWAY 666
POST OFFICE BOX 188
MONTICELLO, UTAH 84535
PHONE: 435-587-3230
FAX: 435-587-2771

Application for Right-of-Way Encroachment Permit

Date: 5-8-03

To: San Juan County Surveyor / Engineer
Post Office Box 188
Monticello, Utah 84535

Application is hereby made by: (1) Tom Brown, Inc. Attn: Georganne Mitchell

Address: (2) 555-17th Street, Suite 1850 Denver, CO 80202

Telephone Number: 303/260-5000 for permission to do the

following: (3) utilize the Lisbon Valley Road & County Road #114 to
obtain access to a proposed drillsite. It will be necessary to construct
an approach off of County Road 114 - See plat & maps attached.

Location: (4) Big Indian #34-11 Drillsite

992' FNL and 577' FWL

NW NW Sec. 34, T29S - R24E

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 Aug-Sept 20 03 and will be
completed on or before Dec 20 03.

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

A. Type of pavement: N/A

B. The opening to be made will be N/A feet long by _____
feet wide and _____ feet deep.

C. A bond in the amount of \$ N/A has been posted with _____

_____ Telephone No _____ 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, restrictions
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 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.

By: Lisa Smith

Title: Agent for Tom Brown, Inc.

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

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

005

APD RECEIVED: 04/12/2003

API NO. ASSIGNED: 43-037-31818

WELL NAME: BIG INDIAN 34-11

OPERATOR: TOM BROWN INC (N9885)

CONTACT: LISA SMITH

PHONE NUMBER: 303-260-5000

PROPOSED LOCATION:

NWNW 34 290S 240E

SURFACE: 0992 FNL 0577 FWL

BOTTOM: 0992 FNL 0577 FWL

SAN JUAN

BIG INDIAN (MADISON) (291)

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-014905

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: MCRKN

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LATITUDE: 38.24205

LONGITUDE: 109.27055

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESO-183)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 05-570)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

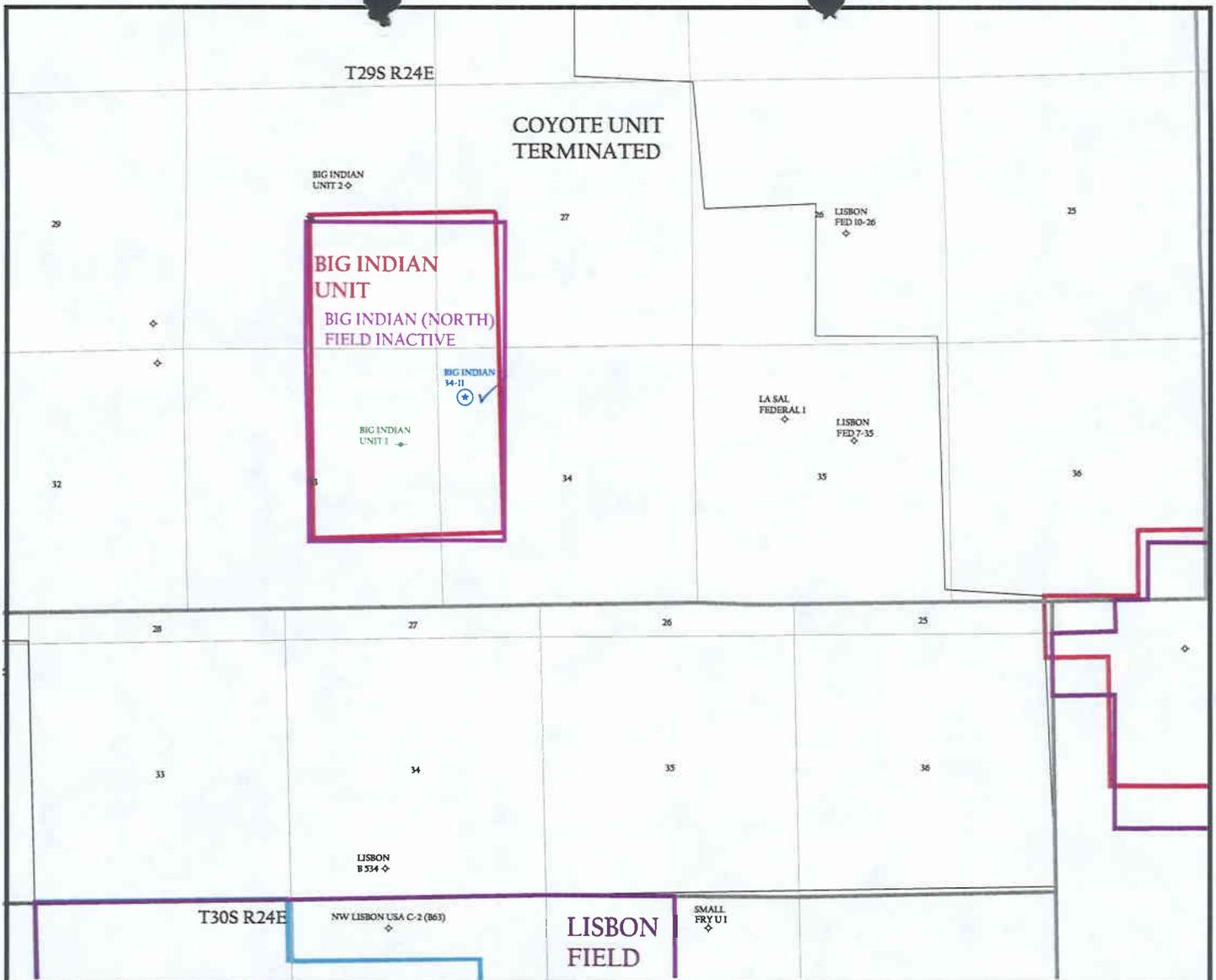
LOCATION AND SITING:

- R649-2-3.
- Unit BIG INDIAN
- R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
- R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS:

- 1- Federal approval
- 2- Spacing Strip
- 3- Potash



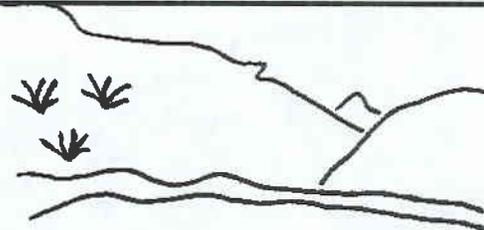
OPERATOR: TOM BROWN INC. (N9885)

SEC. 34 T29S, R24E

FIELD: BIG INDIAN (291)

COUNTY: SAN JUAN

SPACING: R649-3-3 / EXCEPTION LOCATION



Utah Oil Gas and Mining

WELLS

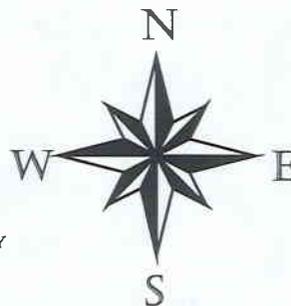
- ◊ GAS INJECTION
- ◊ GAS STORAGE
- × LOCATION ABANDONED
- ⊙ NEW LOCATION
- ◊ PLUGGED & ABANDONED
- × PRODUCING GAS
- PRODUCING OIL
- ◊ SHUT-IN GAS
- SHUT-IN OIL
- × TEMP. ABANDONED
- ◊ TEST WELL
- △ WATER INJECTION
- ◆ WATER SUPPLY
- ⚡ WATER DISPOSAL

UNIT STATUS

- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

FIELD STATUS

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- COUNTY BOUNDARY
- SECTION LINES
- TOWNSHIP LINES



PREPARED BY: DIANA MASON
DATE: 13-MAY-2003

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 13, 2003

Memorandum

To: Assistant District Manager Minerals, Moab District
From: Michael Coulthard, Petroleum Engineer
Subject: 2003 Plan of Development Big Indian Unit San
Juan County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following well is planned for calendar year 2003 within the Big Indian Unit, San Juan County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ McCracken)		
43-037-31818	Big Indian	34-11 Sec. 34 T29S R24E 0992 FNL 0577 FWL

There currently is no Participating Area covering the McCracken formation within the Big Indian Unit.

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Big Indian Unit
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:5-13-3



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)

July 9, 2003

Tom Brown, Inc.
555-17th Street, Suite 1850
Denver, CO 80202

Re: Big Indian #34-11 Well, 992' FNL, 577' FWL, NW NW, Sec. 34, T. 29 South, R. 24 East, 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.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby 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 43-037-31818.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

John R. Baza
Associate Director

pab
Enclosures

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

Operator: Tom Brown, Inc.
Well Name & Number Big Indian #34-11
API Number: 43-037-31818
Lease: UTU-014905

Location: NW NW Sec. 34 T. 29 South R. 24 East

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

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.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

6. Operator must satisfy all requirements of **Rule R649-3-28**, Designed Potash Areas. (See attached.)

July 3, 2003

TOM BROWN, INC.

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

Attn: Mr. John Baza

Re: Exception Location
Big Indian #34-11 Well
992' FNL and 577' FWL
NWNW Sec 34, T29S, R24E
San Juan County, Utah
Lease UTU-14905

Dear Mr. Baza;

Pursuant to Rule R649-3-3 of the Oil & Gas Rules and Regulations of the State of Utah, Tom Brown, Inc. hereby requests an exception location for the drilling of the captioned well. Rule R649-3-2 requires a well to be located in the center of a forty (40) acre quarter-quarter section, or a substantially equivalent lot or tract, with a tolerance of two hundred (200) feet in any direction from the center.

The above referenced surface location is an exception location under Rule R649-3-2, being Three Hundred Sixty-four feet (364') southwest from the center of the NWNW of Section 34, T29S, R24E. This is One Hundred Sixty-four feet (164') further than the Two Hundred feet (200') tolerance allowed under the rule. The attached plat depicts the location for which TBI wishes permission to drill as well as the deviation from the location which would be in accordance with Rule R649-3-2.

The requested location has been chosen for geologic reasons. It is on Federal Lease UTU-14905 and is within the established Big Indian Unit Area #14-08-0001-8194. The drillsite lease and all surrounding acreage within a Four Hundred Sixty foot (460') radius of the proposed location is owned One Hundred percent (100%) by Tom Brown, Inc. at 555 17th Street, Suite 1850, Denver, CO 80220. The map indicates TBI's ownership.

If you have any questions or need additional information, please call me at 303-260-5213, or Georganne Mitchell at 303-260-5078. Thank you.

Sincerely,



Kelly L. Donohoue, CPL
Senior Operations Land Coordinator

RECEIVED
JUL 09 2003
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

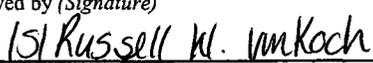
1. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-014905
2. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Tom Brown Inc.		7. If Unit or CA Agreement, Name and No. Big Indian
3. Name of Agent Permitco Inc. - Agent		8. Lease Name and Well No. Big Indian #34-11
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 992' FNL and 577' FWL At proposed prod. zone NW NW		9. API Well No. 43-037-31818
14. Distance in miles and direction from nearest town or post office* 33.6 miles Southeast of Moab, UT		10. Field and Pool, or Exploratory Big Indian
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 577'	16. No. of Acres in lease 932.55	11. Sec., T., R., M., or Blk, and Survey or Area Sec. 34, T29S-R24E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. None	19. Proposed Depth 10,400'	12. County or Parish San Juan
20. BLM/BIA Bond No. on file Nationwide Bond No. ESO-183	13. State UT	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6826' GL	22. Approximate date work will start* ASAP	23. Estimated duration 36 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

CONFIDENTIAL-TIGHT HOLE

25. Signature 	Name (Printed/Typed) Lisa L. Smith	Date 5/8/2003
Title Authorized Agent for Tom Brown Inc.		
Approved by (Signature) 	Name (Printed/Typed) Russell W. Imkoch	Date SEP 11 2003
Title Acting Assistant Field Manager, Division of Resources		

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, are attached.

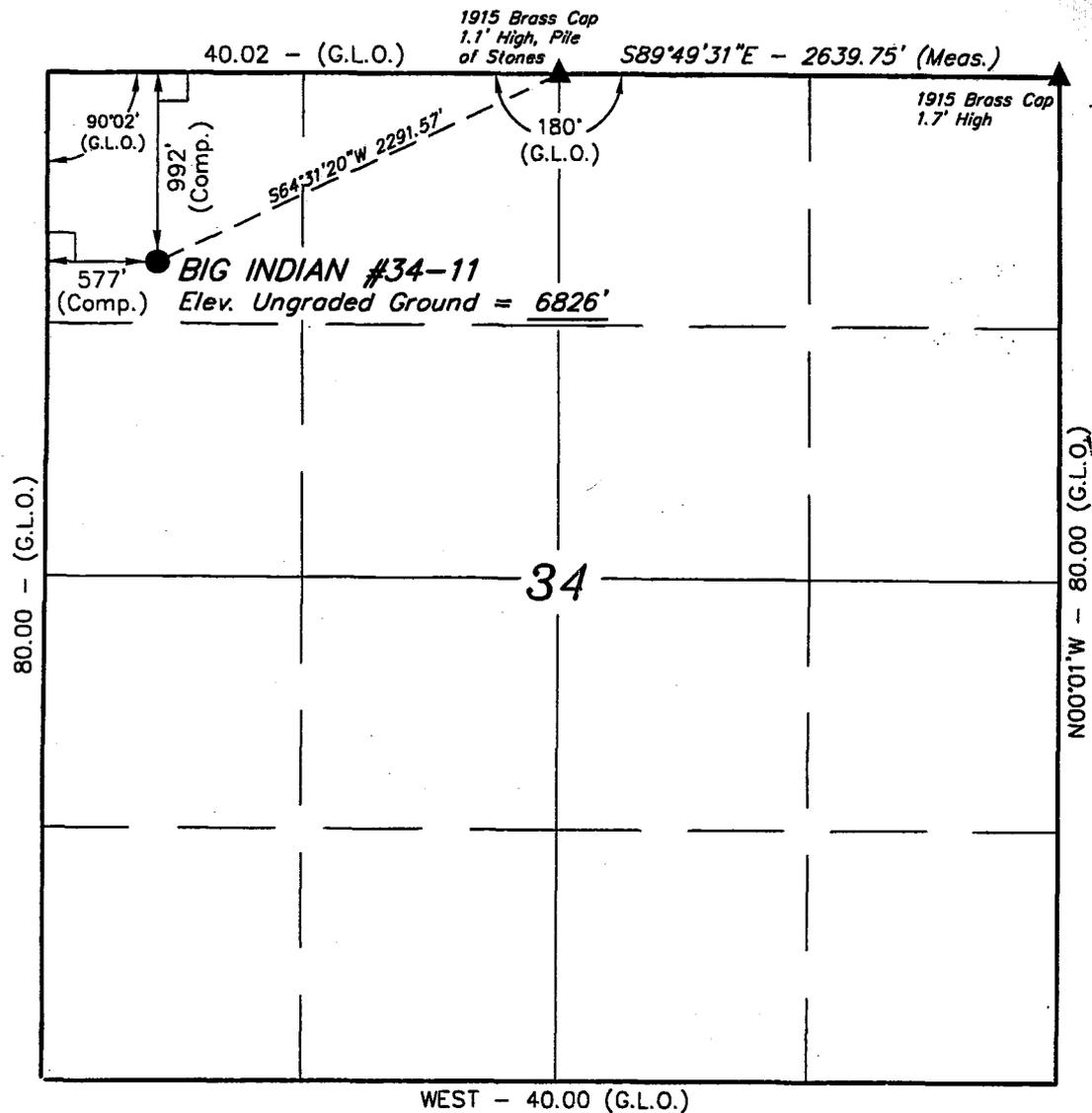
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any Department or Agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)

DIV. OF OIL, GAS & MINING

RECEIVED
SEP 17 2003
CONDITIONS OF APPROVAL ATTACHED

T29S, R24E, S.L.B.&M.

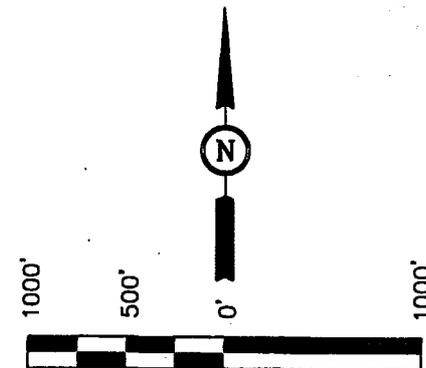


Wall
SHOWN
T29S, R24E, S

BENCH MARK (LA SAIL)
THE WEST LINE OF SECTION 34
FROM THE SANDSTONE DRAW QUADRANGLE
COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC)
BY THE UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS
7207 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION



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 H. Kay
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

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

(AUTONOMOUS NAD 83)

LATITUDE = 38°14'31.63" (38.242119)

LONGITUDE = 109°16'16.13" (109.271147)

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 04-09-03	DATE DRAWN: 04-11-03
PARTY J.F. A.F. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE TOM BROWN INC.	

Tom Brown, Inc.
Big Indian No. 34-11
Lease U-014905
Big Indian Unit
NW/NW Section 34, T29S, R24E
San Juan County, Utah

A COMPLETE COPY OF THIS PERMIT SHALL BE KEPT ON LOCATION from the beginning of site construction through well completion, and shall be available to contractors to ensure compliance.

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 ES0183 (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. DRILLING PROGRAM

1. The proposed 3M BOPE is adequate for anticipated conditions. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas Order No. 2.
2. Concurrent approval from the State of Utah, Division of Oil, Gas & Mining (DOGM) is required before conducting any surface disturbing activities.
3. The H2S Contingency (Drilling Operations) Plan shall be posted in the doghouse with the APD for immediate reference.
4. The telephone number of local resident, Bill Harrison (435-686-2307) shall be added to the H2S Contingency Plan, Emergency Phone Number List for immediate contact in case of emergency.
5. The flare pit shall be located a minimum of 150 feet from the wellhead. This requirement corrects a statement made in the H2S Contingency Plan (part IV.F.). The revised location layout depicts the flare pit at an acceptable location, 150 feet from the wellhead.
6. A cement bond log (CBL), or other appropriate tool for determining top-of-cement, shall be run on the production casing string and shall be submitted to BLM.

B. SURFACE

No additional stipulations.

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 Price 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. The Moab Field Office 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 (BLM) 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 No.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 Price Field Office or the appropriate surface managing agency.

TABLE 1

NOTIFICATIONS

Notify Rich McClure (435-259-2127) BLM Moab Field Office, or Jeff Brown (435-587-1525) BLM Monticello Field Office for the following:

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

1 day prior to spudding (Brown);

50 feet prior to reaching the surface casing setting depth (Brown);

3 hours prior to testing BOPE (Brown).

If the person at the above number 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

DIVISION OF OIL, GAS AND MINING**SPUDDING INFORMATION**Name of Company: TOM BROWN INCWell Name: BIG INDIAN 34-11Api No: 43-037-31818 Lease Type: FEDERALSection 34 Township 29S Range 24E County SAN JUANDrilling Contractor SAUERS RIG # 33**SPUDDED:**Date 12/21/03Time 9:00 AMHow ROTARY**Drilling will commence:** _____Reported by MIKE SITTONTelephone # 1-303-819-7359Date 12/22/2003 Signed CHD

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

009

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. Type of Well
 Oil Well Gas Well Other

CONFIDENTIAL

2. Name of Operator:
Tom Brown, Inc.

Contact: Jane Washburn
Phone: 303/260-5031

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

4. Location of Well
 Footages: 992' FNL and 577' FWL
 QQ, Sec T,R,M: NW NW Sec 34-T29S-R24E

5. Lease Designation and Serial No.
UTU-014905

6. If Indian, Allotte or Tribe Name
NA

7. Unit Agreement Name
Big Indian

8. Well Name and Number
Big Indian 34-11

9. API Well Number
43-037-31818

10. Field and Pool, or Exploratory Area
Big Indian

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

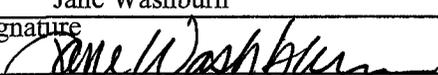
Other Notice of Spud
 Date of work completion _____

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.)

Tom Brown, Inc. spudded the Big Indian 34-11 on 12/21/03 @ 0900 hrs.. The well is currently drilling at 4696'. Attached for your information are Daily Drilling Reports from 12/22/03 through 12/30/03.

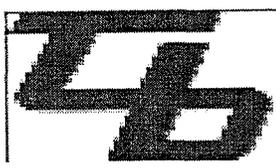
13. Name (Printed/Typed)
Jane Washburn
Signature


Title
Engineering Technician
Date
12/30/2003

(This space for State use only)

RECEIVED

JAN 05 2004



Tom Brown, Inc.
 555 Seventeenth Street, Suite 1850
 Denver, CO 80202-3918
 (303) 260-5000

**Drilling Chronological
 Regulatory**

Well Name: Big Indian 34-11																
Field Name:		Big Indian			S/T/R:		34/29S/24E			County, State:		San Juan, Ut				
Operator:		Tom Brown, Inc.			Location Desc:		NWNW Sec 34-T29S-R24E			District:		Utah				
Project AFE:		40266			AFEs Associated:		/ / /									
Daily Summary																
Activity Date :		12/22/2003		Days From Spud :		1		Current Depth :		758 Ft		24 Hr. Footage Made :		718 Ft		
Rig Company :		Sauer 33					Rig Name:		Sauer 33							
Formation :		Cutler					Weather:									
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	3.00	01	Attempt to Circ, Fix Leaks, Air lines to Pumps										0	0	1	
9:00	0.50	02	Drlg 40'- 67' Spud 09:00 Hrs 12-21-03										40	67	1	
9:30	0.50	07	Rig Service, Ran Pits Dry										67	67	1	
10:00	1.00	05	Circ, Find XO Subs to make Connection										67	67	1	
11:00	5.50	02	Drlg										67	340	1	
16:30	1.00	10	Survey 300' 1°										340	340	1	
17:30	4.00	06	PU NRS										340	340	1	
21:30	3.50	02	Drlg										340	513	1	
1:00	0.50	10	Survey 446' ¾°										513	513	1	
1:30	4.50	02	Drlg										513	758	1	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
758		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	0	Water												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/23/2003	Days From Spud :	2	Current Depth :	1049 Ft	24 Hr. Footage Made :	291 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Honaker Trail			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	02	Drig	758	1004	1
10:00	0.50	10	Survey @ 974' 1°	1004	1004	1
10:30	0.50	02	Drig	1004	1035	1
11:00	6.00	06	Trip out SLM, no Correction, LD 8", Trip in	1035	1035	1
17:00	0.50	02	Drig	1035	1049	1
17:30	2.00	06	Trip out, LD Motor	1049	1049	1
19:30	4.00	12	Run Csg, 23 jts, 9.675", 36#, K-55, LTC, USS Casing, 1055' w/HES GS, Float Collor, 5 Cent. Set @ 1049'	1049	1049	1
23:30	0.50	05	Circ	1049	1049	1
0:00	1.50	12	Cmt, ahead 10 bbl Water, Lead 190 sks, 77 bbls, HLC Type 3 Cmt, 12.96#, 2.27 yld, Tail 175 sks, 44 bbls, Type 3 Cmt, 14.6#, 1.41 yld, Displ. w/78 bbl Water, bump Plug, Float Held, 32 bbls Cmt to Surface	1049	1049	1
1:30	1.00	13	WOC, Fill w/ 5½ bbl 14.6# Cmt (J. Brown BLM witness Cmt)	1049	1049	1
2:30	3.50	14	Cut off, Weld on Head	1049	1049	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
758		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	Water											

Daily Summary

Activity Date :	12/24/2003	Days From Spud :	3	Current Depth :	1049 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Honaker Trail			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.50	14	Weld On Head	1049	1049	1
10:30	14.00	14	Nipple Up BOP	1049	1049	1
0:30	5.50	15	Test BOP	1049	1049	1
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1049		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	37000	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	Water											

Well Name: Big Indian 34-11																
Field Name:		Big Indian			S/T/R:		34/29S/24E			County, State:		San Juan, Ut				
Operator:		Tom Brown, Inc.			Location Desc:		NWNW Sec 34-T29S-R24E			District:		Utah				
Daily Summary																
Activity Date :		12/25/2003		Days From Spud :		4		Current Depth :		1390 Ft		24 Hr. Footage Made :		341 Ft		
Rig Company :		Sauer 33					Rig Name:		Sauer 33							
Formation :		Weather:														
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	0.50	15	Test Bop, Manifold, all Valves										1049	1049	2	
6:30	2.00	09	Slip and Cut										1049	1049	2	
8:30	0.50	14	Install wear Bushing										1049	1049	2	
9:00	2.00	06	PU and Break NRS										1049	1049	2	
11:00	1.00	05	Clean Pits, Salted off, Mixers and Hopper not started										1049	1049	2	
12:00	1.50	08	Install Generator, Light Plant										1049	1049	2	
13:30	3.00	06	Trip in, PU Motor find XO Subs										1049	1049	2	
16:30	1.00	05	Clean Pits, Filled with salt										1049	1049	2	
17:30	1.50	32	Drig Cmt, Float Equipment										1049	1049	2	
19:00	4.00	06	Trip out, Glove on top of float, DC Plugged										1049	1049	2	
23:00	0.50	07	Rig Service										1049	1049	2	
23:30	0.50	06	Trip in										1049	1049	2	
0:00	0.50	32	Drig Cmt, Shoe										1049	1049	2	
0:30	5.50	02	Drig, Mud Up										1049	1390	2	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
1049		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	0.00	0.00	0.00	0.00	37000	0	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	0	Mud Up												
Daily Summary																
Activity Date :		12/26/2003		Days From Spud :		5		Current Depth :		2523 Ft		24 Hr. Footage Made :		1133 Ft		
Rig Company :		Sauer 33					Rig Name:		Sauer 33							
Formation :		Honaker Trail					Weather:									
Operations																
Start	Hrs	Code	Remarks										Start Depth	End Depth	Run	
6:00	4.00	02	Drig										1390	1549	2	
10:00	0.50	10	Survey @ 1509' 1°										1549	1549	2	
10:30	8.50	02	Drig										1549	2052	2	
19:00	0.50	10	Survey @ 2021' 1°										2052	2052	2	
19:30	10.50	02	Drig										2052	2523	2	
Total:		24.00														
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
1447	7:30	9.80	98.80	32	3	1	0/0/1	0.0	0.0	0	0.00	1.2%	99.0%	0.0%	1.5%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	11.00	1.30	0.85	2.50	144000	460	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	44	Mud Up												

Well Name: Big Indian 34-11					
Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary							
Activity Date :	12/27/2003	Days From Spud :	6	Current Depth :	3153 Ft	24 Hr. Footage Made :	630 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Honaker Trail			Weather:			

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	10	Survey - MisRun	2523	2523	2
6:30	1.50	02	Drig	2523	2555	2
8:00	0.50	10	Survey 3° @ 2515'	2555	2555	2
8:30	16.00	02	Drig	2555	3058	2
0:30	0.50	10	Survey - MisRun	3058	3058	2
1:00	1.00	02	Drig	3058	3090	2
2:00	0.50	10	Survey 8° @ 3090	3090	3090	2
2:30	3.50	02	Drig	3090	3153	2
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
2713	12:00	9.90	9.90	33	4	1	0/0/2	18.8	0.0	0	0.00	2.0%	99.0%	0.0%	100.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	11.00	1.00	0.45	2.10	143000	420	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	53	Mud Up												

Daily Summary							
Activity Date :	12/28/2003	Days From Spud :	7	Current Depth :	3373 Ft	24 Hr. Footage Made :	220 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Ismay			Weather:			

Operations						
Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	10	Survey @ 3153' 9°	3153	3153	2
6:30	13.00	02	Drig	3153	3373	2
19:30	4.00	06	Trip out, PU Directional Tools	3373	3373	2
23:30	5.50	08	Drwk's Motors, Both starters Bad	3373	3373	2
5:00	1.00	06	Trip in	3373	3373	3
Total:	24.00					

Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
3169	8:30	10.20	10.20	33	3	5	0/0/2	17.2	0.0	0	0.00	2.5%	98.0%	0.0%	0.1%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	10.00	0.45	0.30	1.20	171000	560	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	60													

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/29/2003	Days From Spud :	8	Current Depth :	3846 Ft	24 Hr. Footage Made :	473 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt						
Weather:							

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	06	Trip in	3373	3373	3
9:30	17.00	02	Drig	3373	3700	3
2:30	0.50	07	Rig Service	3700	3700	3
3:00	3.00	02	Drig	3700	3846	3
Total:				24.00		

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3373	9:00	10.10	10.10	37	5	5	1/4/7	14.6	0.0	0	0.00	2.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
3.5	9.00	0.25	0.10	0.40	168000	660	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	56												

Daily Summary

Activity Date :	12/30/2003	Days From Spud :	9	Current Depth :	4696 Ft	24 Hr. Footage Made :	850 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt						
Weather:							

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.00	02	Drig	3846	3908	3
9:00	0.50	07	Service Rig	3908	3908	3
9:30	10.00	02	Drig	3908	4340	3
19:30	1.00	08	Repair Pump	4340	4340	3
20:30	9.50	02	Drig	4340	4696	3
Total:				24.00		

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4191	16:10	10.30	10.30	48	10	23	22/40/49	16.8	0.0	2	0.00	2.5%	97.5%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
4.0	8.50	0.50	0.05	0.20	210000	2280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	84												

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

Date In	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	Hole Diam	TD
12/23/2003	1049	23	3. Surface	9.625	36	K-55	0	12.25	1049

Stage: 1, Lead, 0, 190, HLC Type 3, 2% Gel, (8% Gel Total), 3% Salt (BWOW), .125# Poly-e-Flake, Pozmix, 2.27, 12.9
 Stage: 1, Tail, 0, 175, Type 3, 3% salt, .125# Poly-e-Flake, Class G, 1.41, 14.6
 Stage: 1, Displacement, 78, 0, Water, , 0, 0

010 Fax to: 801/359-3940

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

FORM 6

ENTITY ACTION FORM

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

Operator Account Number: N 9885

Phone Number: 303/260-5031

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
43-037-31818	Big Indian 34-11	NWNW	34	295	24E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	14004	12/21/03	1/8/04		
Comments: <u>MCRKN</u>						

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:

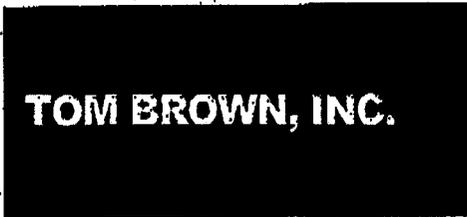
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Jane Washburn
Name (Please Print)
Jane Washburn
Signature
Engr. Tech 1-6-04
Title RECEIVED Date

JAN 06 2004

DIV. OF OIL, GAS & MINING

555 - 17th Street, Suite 1850
Denver, CO 80202-3918
Phone: (303) 260-5000
Fax: (303) 260-5005



Fax

CONFIDENTIAL

To: Dustin Doucette - Utah From: Jane Washburn
 Fax: 801-359-3940 Pages: 2
 Phone: 801-538-5281 Date: 1-13-04
 Re: Big Indian 34-11 CC:

Urgent For Review Please Comment Please Reply Please Recycle

• Comments:

I am faxing the P&A procedure for the Big Indian 34-11 for your approval. Original will follow in regular mail. Please call me at 303/260-5031 if you require additional information.

Jane Washburn

RECEIVED
 JAN 13 2004
 DIV. OF OIL, GAS & MINING

011

FORM 9

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No.
UTU-014905

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
NA

7. Unit Agreement Name
Big Indian

8. Well Name and Number
Big Indian 34-11

1. Type of Well
 Oil Well Gas Well Other

CONFIDENTIAL

2. Name of Operator: Tom Brown, Inc. Contact: Jane Washburn Phone: 303/260-5031

9. API Well Number
43-037-31818

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

10. Field and Pool, or Exploratory Area
Big Indian

4. Location of Well
Footages: 992' FNL and 577' FWL County: San Juan
QQ, Sec T,R,M: NW NW Sec 34-T29S-R24E State: Utah

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

NOTICE OF INTENT
(Submit in Duplicate)

SUBSEQUENT REPORT
(Submit Original Form Only)

- 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

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

Approximate date work will start: 1/14/2004

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/BLA. 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.)

Tom Brown, Inc. requests permission to plug the Big Indian 34-11 as follows:

Plug #1 9715'- 9250' (TAG) 465' 210 cu/ft hole is in Gauge 10% excess

Plug #2 6200'- 6000' 200' 100 cu/ft no big wash outs 10% excess

Plug #3 3685'- 3485' (TAG) 130 cu/ft, washed out, 13"+ wash out @ bttm of plug 20% excess

Plug #4 1050'- 940' in surface pipe 43 cu/ft no excess

Plug #5 50'- 0' in surface pipe 21 cu/ft no excess

504 cu ft w/o excess

RECEIVED

JAN 13 2004

DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR

Date: 1-14-04
Initials: JWP

13. Name (Printed/Typed) Jane Washburn	Title Engineering Technician
Signature <i>Jane Washburn</i>	Date 1/13/2004

(This space for State use only)

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 1/13/04
By: *[Signature]*

Federal Approval Of This
Action Is Necessary

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No.
UTU-014905

SUNDRY NOTICES AND REPORTS ON WELLS

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7. Unit Agreement Name
Big Indian

8. Well Name and Number
Big Indian 34-11

1. Type of Well
 Oil Well Gas Well Other

CONFIDENTIAL

2. Name of Operator: Tom Brown, Inc. Contact: Jane Washburn
Phone: 303/260-5031

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43-037-31818

3. Address and Telephone No.
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Big Indian

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QQ, Sec T,R,M: NW NW Sec 34-T29S-R24E

County: San Juan
State: Utah

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(Submit in Duplicate)

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(Submit Original Form Only)

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- 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

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

Approximate date work will start: 1/14/2004

Date of work completion

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

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Plug #2 6200'- 6000' 200' 100 cu/ft no big wash outs 10% excess

Plug #3 3685'- 3485' (TAG) 130 cu/ft, washed out, 13"+ wash out @ bttm of plug 20% excess

Plug #4 1050'- 940' in surface pipe 43 cu/ft no excess

Plug #5 50'- 0' in surface pipe 21 cu/ft no excess

504 cu ft w/o excess

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13. Name (Printed/Typed)
Jane Washburn

Title
Engineering Technician

Signature
Jane Washburn

Date
1/13/2004

(This space for State use only)

Faxed 1/13/04
Fax Copy Approved DWB

013

FORM 3160-4
(August, 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

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

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. Type of Well: Oil Well Gas Well Dry Other: _____

1b. Type of Completion: New Well Workover Deepen Plug Back Diff. Resrv. Other: P&A

2. Name of Operator: Jane Washburn
Tom Brown, Inc. 303-260-5031

5. Lease Serial No. UTU-014905

6. If Indian, Allottee or Tribe Name NA

7. Unit or CA Agreement Name and No. Big Indian

8. Lease Name and Well No. Big Indian 34-11

3. Address 555 Seventeenth Street, Suite 1850, Denver, Colorado 80202-3918

9. API Well No. 43-037-31818

4. Location of Well (Report location clearly and in accordance with Federal requirements)

10. Field and Pool, or Exploratory Big Indian

At Surface 992' FNL, 577' FWL
NWNW Sec 34-T29S-R24E

11. Sec., T., R., M., on Block and Survey or Area NWNW Sec 34-T29S-R24E

At top prod. interval reported below

12. County/Parish San Juan 13. State Utah

At total depth 1032 FNL 0643 FWL

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14. Date Spudded 12/21/2003 15. Date T.D. Reached 1/10/2004 16. Date Completed. (prod) D&A Ready to Prod. 1/16/2004 - P&A

17. Elevations (DF, RKB, RT, GL) * 6826' GL

18. Total Depth: ME MD 9682 TVD 9715 19. Plug Back T.D.: MD TVD 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit Copy of each) Platform Express, NGR/Dipole Sonic 22. Was Well Cored? No Was DST run? No Directional Survey? No Yes (Submit analysis) Yes (Submit report) Yes (Submit copy)

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

Hole Size	Size/Grade	Wl. (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks & Type of Cement	Slurry vol. (BBL)	Cement Top*	Amount Pulled
12-1/4	9-5/8	36#	surface	1049'		Lead 190 sx HLC-Type III, Tail 175 sx Type III		surface	None

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
NA								

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) NA - P&A			NA			
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material

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ON 2-16-25

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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
NA	NA								
Choke Size	Tbg Press. Flwg./SI	Csg Press.	24 Hr. Rate	Oil (BBL)	Gas (MCF)	Water (BBL)	Gas:Oil Ratio	Well Status	

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
Choke Size	Tbg Press. Flwg./SI	Csg Press.	24 Hr. Rate	Oil (BBL)	Gas (MCF)	Water (BBL)	Gas:Oil Ratio	Well Status	

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(See instructions and spaces for additional data on reverse side)

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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. Production - 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 - Well is P&A

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
				Honaker Trail	940'
				Ismay	3,268'
				Paradox Salt	3,686'
				Pinkerton Trail	9,421'
				Leadville	9,452'

32. Additional remarks (include plugging procedure):

Plug #1 @ 9715', 200 wx 15.8# 1.15 yld,
 Plug #2 6232', 300 sx 13.8# 1.32 yld
 Plug #3 3497', 64 sx 15.8# cmt
 Calc top of plug 1000', shoe @ 1047'. TIH to 280', pump 13.8" cmt to surface

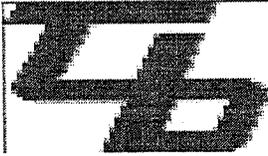
33. Circle enclosed attachments:

- 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: Daily Drilling History

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) Jane Washburn Title Engineering Tech
 Signature *Jane Washburn* Date 2/16/04

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 Seventeenth Street, Suite 1850
 Denver, CO 80202-3918
 (303) 260-5000

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**Drilling Chronological
 Regulatory**

Well Name: Big Indian 34-11																
Field Name:	Big Indian			S/T/R:	34/29S/24E			County, State:	San Juan, Ut							
Operator:	Tom Brown, Inc.			Location Desc:	NWNW Sec 34-T29S-R24E			District:	Utah							
Project AFE:	40266			AFEs Associated:	///											
Daily Summary																
Activity Date :	12/22/2003	Days From Spud :	1	Current Depth :	758 Ft	24 Hr. Footage Made :	718 Ft									
Rig Company :	Sauer 33			Rig Name:	Sauer 33											
Formation :	Cutler			Weather:												
Operations																
Start	Hrs	Code	Remarks											Start Depth	End Depth	Run
6:00	3.00	01	Attempt to Circ, Fix Leaks, Air lines to Pumps											0	0	1
9:00	0.50	02	Drig 40'- 67' Spud 09:00 Hrs 12-21-03											40	67	1
9:30	0.50	07	Rig Service, Ran Pits Dry											67	67	1
10:00	1.00	05	Circ, Find XO Subs to make Connection											67	67	1
11:00	5.50	02	Drig											67	340	1
16:30	1.00	10	Survey 300' 1°											340	340	1
17:30	4.00	06	PU NRS											340	340	1
21:30	3.50	02	Drig											340	513	1
1:00	0.50	10	Survey 446' ¾°											513	513	1
1:30	4.50	02	Drig											513	758	1
Total:	24.00															
Mud Properties																
Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand	
758		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%	
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss		
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0		
Water Loss	LCM	ECD	FL Temp	Remarks												
0	0.0	0.0	0	Water												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/23/2003	Days From Spud :	2	Current Depth :	1049 Ft	24 Hr. Footage Made :	291 Ft
Rig Company :	Sauer 33		Rig Name:	Sauer 33			
Formation :	Honaker Trail		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	02	Drlg	758	1004	1
10:00	0.50	10	Survey @ 974' 1°	1004	1004	1
10:30	0.50	02	Drlg	1004	1035	1
11:00	6.00	06	Trip out SLM, no Correction, LD 8", Trip in	1035	1035	1
17:00	0.50	02	Drlg	1035	1049	1
17:30	2.00	06	Trip out, LD Motor	1049	1049	1
19:30	4.00	12	Run Csg, 23 jts, 9.675", 36#, K-55, LTC, USS Casing, 1055' w/HES GS, Float Collor, 5 Cent. Set @ 1049'	1049	1049	1
23:30	0.50	05	Circ	1049	1049	1
0:00	1.50	12	Cmt, ahead 10 bbl Water, Lead 190 sks, 77 bbls, HLC Type 3 Cmt, 12.96#, 2.27 yld, Tail 175 sks, 44 bbls, Type 3 Cmt, 14.6#, 1.41 yld, Displ. w/78 bbl Water, bump Plug, Float Held, 32 bbls Cmt to Surface	1049	1049	1
1:30	1.00	13	WOC, Fill w/ 5½ bbl 14.6# Cmt (J. Brown BLM witness Cmt)	1049	1049	1
2:30	3.50	14	Cut off, Weld on Head	1049	1049	1
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
758		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	0	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	Water											

Daily Summary

Activity Date :	12/24/2003	Days From Spud :	3	Current Depth :	1049 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33		Rig Name:	Sauer 33			
Formation :	Honaker Trail		Weather:				

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.50	14	Weld On Head	1049	1049	NIH
10:30	14.00	14	Nipple Up BOP	1049	1049	NIH
0:30	5.50	15	Test BOP	1049	1049	NIH
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1049		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	37000	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	Water											

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/25/2003	Days From Spud :	4	Current Depth :	1390 Ft	24 Hr. Footage Made :	341 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Weather:						

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run	
6:00	0.50	15	Test Bop, Manifold, all Valves	1049	1049	2	
6:30	2.00	09	Slip and Cut	1049	1049	2	
8:30	0.50	14	Install wear Bushing	1049	1049	2	
9:00	2.00	06	PU and Break NRS	1049	1049	2	
11:00	1.00	05	Clean Pits, Salted off, Mixers and Hopper not started	1049	1049	2	
12:00	1.50	08	Install Generator, Light Plant	1049	1049	2	
13:30	3.00	06	Trip in, PU Motor find XO Subs	1049	1049	2	
16:30	1.00	05	Clean Pits, Filled with salt	1049	1049	2	
17:30	1.50	32	Drig Cmt, Float Equipment	1049	1049	2	
19:00	4.00	06	Trip out, Glove on top of float, DC Plugged	1049	1049	2	
23:00	0.50	07	Rig Service	1049	1049	2	
23:30	0.50	06	Trip in	1049	1049	2	
0:00	0.50	32	Drig Cmt, Shoe	1049	1049	2	
0:30	5.50	02	Drig, Mud Up	1049	1390	2	
Total:	24.00						

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1049		8.40	0.00	29	0	0	0/0/0	0.0	0.0	0	0.00	0.0%	0.0%	0.0%	0.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	0.00	0.00	0.00	0.00	37000	0	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	0	Mud Up											

Daily Summary

Activity Date :	12/26/2003	Days From Spud :	5	Current Depth :	2523 Ft	24 Hr. Footage Made :	1133 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Honaker Trail			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run	
6:00	4.00	02	Drig	1390	1549	2	
10:00	0.50	10	Survey @ 1509' 1°	1549	1549	2	
10:30	8.50	02	Drig	1549	2052	2	
19:00	0.50	10	Survey @ 2021' 1°	2052	2052	2	
19:30	10.50	02	Drig	2052	2523	2	
Total:	24.00						

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
1447	7:30	9.80	98.80	32	3	1	0/0/1	0.0	0.0	0	0.00	1.2%	99.0%	0.0%	1.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	11.00	1.30	0.85	2.50	144000	460	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	44	Mud Up											

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/27/2003	Days From Spud :	6	Current Depth :	3153 Ft	24 Hr. Footage Made :	630 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Honaker Trail			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	10	Survey - MisRun	2523	2523	2
6:30	1.50	02	Drlg	2523	2555	2
8:00	0.50	10	Survey 3° @ 2515'	2555	2555	2
8:30	16.00	02	Drlg	2555	3058	2
0:30	0.50	10	Survey - MisRun	3058	3058	2
1:00	1.00	02	Drlg	3058	3090	2
2:00	0.50	10	Survey 8° @ 3090	3090	3090	2
2:30	3.50	02	Drlg	3090	3153	2

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Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
2713	12:00	9.90	9.90	33	4	1	0/0/2	18.8	0.0	0	0.00	2.0%	99.0%	0.0%	100.0%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	11.00	1.00	0.45	2.10	143000	420	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	53	Mud Up											

Daily Summary

Activity Date :	12/28/2003	Days From Spud :	7	Current Depth :	3373 Ft	24 Hr. Footage Made :	220 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Ismay			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	10	Survey @ 3153' 9°	3153	3153	2
6:30	13.00	02	Drlg	3153	3373	2
19:30	4.00	06	Trip out, PU Directional Tools	3373	3373	2
23:30	5.50	08	Drwk's Motors, Both starters Bad	3373	3373	2
5:00	1.00	06	Trip in	3373	3373	3

Total: 24.00

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3169	8:30	10.20	10.20	33	3	5	0/0/2	17.2	0.0	0	0.00	2.5%	98.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
0.0	10.00	0.45	0.30	1.20	171000	560	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	60												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/29/2003	Days From Spud :	8	Current Depth :	3846 Ft	24 Hr. Footage Made :	473 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	06	Trip in	3373	3373	3
9:30	17.00	02	Drig	3373	3700	3
2:30	0.50	07	Rig Service	3700	3700	3
3:00	3.00	02	Drig	3700	3846	3
Total: 24.00						

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
3373	9:00	10.10	10.10	37	5	5	1/4/7	14.6	0.0	0	0.00	2.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
3.5	9.00	0.25	0.10	0.40	168000	660	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	56												

Daily Summary

Activity Date :	12/30/2003	Days From Spud :	9	Current Depth :	4696 Ft	24 Hr. Footage Made :	850 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.00	02	Drig	3846	3908	3
9:00	0.50	07	Service Rig	3908	3908	3
9:30	10.00	02	Drig	3908	4340	3
19:30	1.00	08	Repair Pump	4340	4340	3
20:30	9.50	02	Drig	4340	4696	3
Total: 24.00						

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4191	16:10	10.30	10.30	48	10	23	22/40/49	16.8	0.0	2	0.00	2.5%	97.5%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
4.0	8.50	0.50	0.05	0.20	210000	2280	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	84												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	12/31/2003	Days From Spud :	10	Current Depth :	5546 Ft	24 Hr. Footage Made :	850 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	3.50	02	Drig	4696	4790	3
9:30	0.50	07	Rig Service	4790	4790	3
10:00	17.00	02	Drig	4790	5451	3
3:00	0.50	07	Rig Service	5451	5451	3
3:30	2.50	02	Drig	5451	5546	3
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
4790	9:20	10.30	10.30	38	7	23	24/37/48	14.4	0.0	2	0.00	4.0%	96.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
3.5	11.80	5.90	0.70	0.90	225000	3120	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	90												

Daily Summary

Activity Date :	1/1/2004	Days From Spud :	11	Current Depth :	6237 Ft	24 Hr. Footage Made :	691 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.50	02	Drig	5546	5791	3
12:30	0.50	07	Rig Service	5791	5791	3
13:00	8.50	02	Drig	5791	6216	3
21:30	0.50	05	Check Psi Loss	6216	6216	3
22:00	0.50	02	Drig	6216	6237	3
22:30	7.50	06	Trip out	6237	6237	3
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
5703	9:25	10.40	10.40	38	7	8	5/12/15	18.2	0.0	2	0.00	3.0%	97.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
3.8	9.80	1.60	0.10	0.30	223000	3240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	88												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/2/2004	Days From Spud :	12	Current Depth :	6237 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33			Rig Name :	Sauer 33		
Formation :	Salt			Weather :			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	06	Trip out, Trip in BHA	6237	6237	4
10:00	3.00	05	Sauers Mud Up, Mix salt, run pits out of Water, Plug BHA	6237	6237	4
13:00	6.00	06	Trip out, unplug MWD, Change out Motor	6237	6237	4
19:00	3.50	05	Trip in, Circ Mud Up	6237	6237	4
22:30	0.50	07	Repair Line Guide	6237	6237	4
23:00	5.00	06	Trip in, Pu 33 jts HD DP	6237	6237	4
4:00	2.00	03	Wash to Bttm	6237	6237	4
Total:				24.00		

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6237	17:10	10.30	10.30	48	10	8	6/11/17	18.2	0.0	2	0.00	100.0%	97.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
2.0	8.80	1.80	0.05	0.40	202000	4480	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	88												

Daily Summary

Activity Date :	1/3/2004	Days From Spud :	13	Current Depth :	7110 Ft	24 Hr. Footage Made :	873 Ft
Rig Company :	Sauer 33			Rig Name :	Sauer 33		
Formation :	Salt			Weather :	6" New Snow		

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	5.50	02	Drig	6237	6396	4
11:30	0.50	07	Rig Service	6396	6396	4
12:00	1.00	08	Pressure Loss, Check and Work on Pumps	6396	6396	4
13:00	15.50	02	Drig	6396	7055	4
4:30	0.50	07	Rig Service	7055	7055	4
5:00	1.00	02	Drig	7055	7110	4
Total:				24.00		

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
6338	9:50	10.30	10.30	45	10	11	9/18/20	5.6	0.0	2	0.00	5.0%	95.0%	0.0%	0.1%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
2.5	8.70	1.00	0.05	0.30	205000	4080	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	78												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/4/2004	Days From Spud :	14	Current Depth :	7811 Ft	24 Hr. Footage Made :	701 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:	6" New Snow		

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.50	02	Drig	7110	7338	4
12:30	0.50	07	Rig Service	7338	7338	4
13:00	16.00	02	Drig	7338	7777	4
5:00	0.50	07	Rig Service	7777	7777	4
5:30	0.50	02	Drig	7777	7811	4
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7251	10:10	10.30	10.30	48	10	10	12/15/17	9.6	0.0	2	0.00	4.8%	95.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
2.5	9.60	3.10	0.10	0.50	155000	4120	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	88												

Daily Summary

Activity Date :	1/5/2004	Days From Spud :	15	Current Depth :	8186 Ft	24 Hr. Footage Made :	375 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.50	02	Drig	7811	7840	4
6:30	0.50	07	Rig Service	7840	7840	4
7:00	3.00	02	Drig	7840	7903	4
10:00	2.50	06	LD 50 jts Slick Drill Pipe	7903	7903	4
12:30	1.50	08	Repair Swivel Hook	7903	7903	4
14:00	2.50	06	PU 50 jts HB Drill Pipe	7903	7903	4
16:30	8.50	02	Drig	7903	8138	4
1:00	0.50	07	Rig Service	8138	8138	4
1:30	4.50	02	Drig	8138	8186	4
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
7903	9:45	10.40	10.40	52	15	14	14/19/23	5.4	0.0	2	0.00	4.5%	95.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
2.5	9.40	2.60	0.10	0.40	195000	3920	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	89												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/6/2004	Days From Spud :	16	Current Depth :	8769 Ft	24 Hr. Footage Made :	583 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.50	02	Drig	8186	8348	4
13:30	0.50	07	Rig Service	8348	8348	4
14:00	13.50	02	Drig	8348	8769	4
3:30	0.50	07	Rig Service	8769	8769	4
4:00	2.00	06	Trip out	8769	8769	4
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
8261	9:35	10.40	10.40	50	12	10	10/14/16	4.8	0.0	2	0.00	4.4%	95.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
6.3	9.50	2.40	0.10	0.50	224000	4080	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	95												

Daily Summary

Activity Date :	1/7/2004	Days From Spud :	17	Current Depth :	8784 Ft	24 Hr. Footage Made :	15 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	7.50	06	Trip out, Change Bit, Trip in BHA	8769	8769	5
13:30	2.00	09	Slip and Cut 120'	8769	8769	5
15:30	4.50	08	Rig repair, Hook Lock, Hose, Mudline, Charger Pump	8769	8769	5
20:00	0.50	05	Test MWD, Not Working	8769	8769	5
20:30	8.00	06	Trip out, Replace Pulser, Trip in	8769	8769	5
4:30	0.50	03	Wash - Rmr 104' to bttm no fill	8769	8769	5
5:00	1.00	02	Drig	8769	8784	5
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
8769	9:20	10.40	10.40	46	12	12	11/15/18	6.2	0.0	2	0.00	4.0%	96.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
6.3	9.20	2.20	0.10	0.50	228000	4120	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	95												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/8/2004	Days From Spud :	18	Current Depth :	9316 Ft	24 Hr. Footage Made :	532 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Salt			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	2.50	02	Drig	8784	8815	5
8:30	0.50	07	Rig Service	8815	8815	5
9:00	8.50	02	Drig	8815	8982	5
17:30	0.50	06	Work tight Hole	8982	8982	5
18:00	9.00	02	Drig	8982	9222	5
3:00	0.50	07	Rig Service	9222	9222	5
3:30	2.50	02	Drig	9222	9316	5
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
8799	9:15	10.50	10.50	52	12	16	15/24/27	4.6	0.0	2	0.00	4.0%	96.0%	0.0%	0.2%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	9.10	1.80	0.05	0.30	231000	3440	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	88												

Daily Summary

Activity Date :	1/9/2004	Days From Spud :	19	Current Depth :	9593 Ft	24 Hr. Footage Made :	277 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	6.00	02	Drig	9316	9473	5
12:00	0.50	07	Rig Service	9473	9473	5
12:30	13.00	02	Drig	9473	9568	5
1:30	0.50	07	Rig Service	9568	9568	5
2:00	4.00	02	Drig	9568	9593	5
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9382	8:35	10.50	10.50	49	12	15	14/20/23	7.2	0.0	2	0.00	5.0%	96.0%	0.0%	0.3%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	9.10	2.80	0.05	0.40	245000	5600	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	98												

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/10/2004	Days From Spud :	20	Current Depth :	9642 Ft	24 Hr. Footage Made :	49 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	0.00			9642	9642	6
6:00	2.00	02	Drlg	9593	9605	5
8:00	0.50	08	Repair Mud Line	9605	9605	5
8:30	4.00	02	Drlg	9605	9632	5
12:30	0.50	07	Rig Service	9632	9632	5
13:00	1.50	02	Drlg	9632	9642	5
14:30	8.50	06	Trip for Bit	9642	9642	6
23:00	7.00	06	Trip In	9642	9642	6
Total:	24.00					

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9613	9:20	10.70	10.70	45	10	8	8/12/16	5.6	0.0	2	0.00	5.0%	96.0%	0.0%	0.4%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	9.80	1.80	0.10	0.60	240000	4080	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	94	Adding 40 sks Lime per tour to bring PH up.											

Daily Summary

Activity Date :	1/11/2004	Days From Spud :	21	Current Depth :	9715 Ft	24 Hr. Footage Made :	73 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.50	03	Wash and Rmr to Bttm, SLM 26' up hole Correction	9642	9642	6
7:30	9.50	02	Drlg, TD 17:00 hrs 1-10-04	9642	9715	6
17:00	13.00	06	Trip, DST #1	9715	9715	6
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9642	9:20	10.70	10.70	45	13	8	10/15/18	7.2	0.0	2	0.00	5.5%	96.0%	0.0%	0.6%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	10.20	5.20	0.30	0.40	238000	4120	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91	Adding 40 sks Lime per tour to bring PH up.											

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/12/2004	Days From Spud :	22	Current Depth :	9715 Ft	24 Hr. Footage Made.:	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	06	Trip in w/ DST #1	9715	9715	6
7:00	4.50	16	DST #1 10/30/60/120 No Gas to Surface	9715	9715	6
11:30	3.00	06	Trip out, 3576' Fluid Recovered	9715	9715	6
14:30	1.50	05	Reverse Out, Inhibater, H2S (1.8%) Cut Mud & Formation Water	9715	9715	6
16:00	6.00	06	Trip out, LD Tools	9715	9715	6
22:00	3.50	06	Trip in	9715	9715	6
1:30	0.50	09	Slip and Cut	9715	9715	6
2:00	4.00	06	Trip in	9715	9715	6
Total:			24.00			

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Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9715	9:20	10.70	10.70	50	15	7	4/6/8	5.4	0.0	2	0.00	5.7%	96.0%	0.0%	0.6%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	11.20	6.40	0.50	0.80	234000	4440	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91	Adding 40 sks Lime per tour to keep PH up.											

Daily Summary

Activity Date :	1/13/2004	Days From Spud :	23	Current Depth :	9715 Ft	24 Hr. Footage Made.:	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	1.00	06	Trip in	9715	9715	6
7:00	0.50	07	Rig Service	9715	9715	6
7:30	1.00	03	Wash-Rmr 9340'- 9715'	9715	9715	6
8:30	2.50	05	Circ	9715	9715	6
11:00	5.00	06	Trip out, Pull Wear Bushing	9715	9715	6
16:00	14.00	11	First Run P-express, Loggers TD 9703', 2nd Run NGR/Dipole Sonic	9715	9715	6
Total:			24.00			

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9715	9:20	10.70	10.70	51	14	6	6/11/14	5.6	0.0	2	0.00	5.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	10.60	4.20	0.30	0.50	241000	3240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91	Adding 40 sks Lime per tour to keep PH up.											

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/14/2004	Days From Spud :	24	Current Depth :	9715 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	13.00	11	Finish Dipole Sonic Log, 3rd Run Side Wall Cores 19 samples cut and Recovered	9715	9715	6
19:00	10.50	06	Trip in, LD DC, 21 jts HWDP, PU 28 jts DP	9715	9715	6
5:30	0.50	05	Circ Bttm Up	9715	9715	6
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9715	9:20	10.70	10.70	51	14	6	6/11/14	5.6	0.0	2	0.00	5.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	10.60	4.20	0.30	0.50	241000	3240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91												

Daily Summary

Activity Date :	1/15/2004	Days From Spud :	25	Current Depth :	9715 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :	Leadville			Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	4.00	05	Circ. WO HES, Rig Up	9715	9715	6
10:00	20.00	17	P&A Pump 1st Plug 9715' 200 sks, 15.8#, 1.15yld, Trip out, WOC 4 hrs, Trip in Tag Plug @ 9118, Trip out, Pump 2nd Plug 6232', 300 sks, 13.8#, 1.32yld cmt, Trip out LDDP, Pump 3rd Plug @ 3686' 136 sks, 15.8#, 1.15 yld, Trip out, WOC 4 hrs	9715	9715	6
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9715	9:20	10.70	10.70	51	14	6	6/11/14	5.6	0.0	2	0.00	5.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	10.60	4.20	0.30	0.50	241000	3240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91												

CONFIDENTIAL

Well Name: Big Indian 34-11

Field Name:	Big Indian	S/T/R:	34/29S/24E	County, State:	San Juan, Ut
Operator:	Tom Brown, Inc.	Location Desc:	NWNW Sec 34-T29S-R24E	District:	Utah

Daily Summary

Activity Date :	1/16/2004	Days From Spud :	26	Current Depth :	9715 Ft	24 Hr. Footage Made :	0 Ft
Rig Company :	Sauer 33			Rig Name:	Sauer 33		
Formation :				Weather:			

Operations

Start	Hrs	Code	Remarks	Start Depth	End Depth	Run
6:00	10.00	17	Trip in Tag Plug #3 @ 3497', Trip out, LDDP, Rig Down Ld machine, Trip in to 1127', Pump 64 sks 15.8# cmt, calculated top of plug 1000', shoe @ 1047', Trip out, Trip in to 280', pump 13.8# cmt to surface. Jeff Brown (BLM) witnessed all plugs and test	9715	9715	6
16:00	8.00	14	Nipple Down BOP	9715	9715	6
0:00	5.00	01	Clean Tanks, Premix, includes extra hour to cut off head	9715	9715	6
5:00	1.00	26	Rig Released 05:00 hrs 1-16-04 MST	9715	9715	6
Total:	24.00					

Mud Properties

Depth	Time	Wt In	Wt Out	Vis	PV	YP	Gels	FL	HTFL	FC	HTFC	Solid	Water	Oil	Sand
9715	9:20	10.70	10.70	51	14	6	6/11/14	5.6	0.0	2	0.00	5.0%	96.0%	0.0%	0.5%
MBT	pH	Pm	Pf	Mf	Cl	Ca	ES	Pom	Lime	Total Sal.	CaCl2	EDTA	O/W Ratio	Mud Loss	
5.0	10.60	4.20	0.30	0.50	241000	3240	0	0.00	0.00	0	0	0.00		0	
Water Loss	LCM	ECD	FL Temp	Remarks											
0	0.0	0.0	91												

DST

DST	Date	Formation	Int Start	Int End	ISIP	FSIP	IFP	FFP	Time Int	MCFD	BOPD	BWPD	API Gravity	G/O
1	1/12/2004	Leadville	9500	9715	0	0	0	0	10/30/60/1 20	0	0	0	0	0

1st Open:	2nd Open:	Recovery:
Open Tool @ 7:29 Hrs w/ 1½" Blow, Bottom of Bucket in 5 min, 9oz in 10 min	Open Tool @ 8:09 hrs, w/ 7" Blow, bttm of Bucket in 4 min, 6oz in 5 min, 7½oz in 15 min, 8½oz 30 min, 11oz in 45 min, 9oz 60 min.	40 bbl H2S Cut Mud and Formation Water, Inhibater

Formation

Formation Name	Current Well Top	Subsea Datum	Ref Well Top	Elec Top	Comments

Casing

DateIn	Setting Depth	Jts Run	Type	Size	Weight	Grade	MINID	HoleDiam	TD
12/23/2003	1049	23	3. Surface	9.625	36	K-55	0	12.25	1049

Stage: 1, Lead, 0, 190, HLC Type 3, 2% Gel, (8% Gel Total), 3% Salt (BWOW), .125# Poly-e-Flake, Pozmix, 2.27, 12.9
 Stage: 1, Tail, 0, 175, Type 3, 3% salt, .125# Poly-e-Flake, Class G, 1.41, 14.6
 Stage: 1, Displacement, 78, 0, Water, , 0, 0

CONFIDENTIAL

January 21, 2004

TOM BROWN, INC.
555 17th Street, Suite 1850
Denver, CO 80202

Attn: Greg Olson

RE: TOM BROWN, INC.
BIG INDIAN #34-11
SAN JUAN COUNTY, UTAH
RIG: SAUER #33
FILENAME: J-WY-0312-0058

Dear Sir:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

SURVEY DATA

- 1 - Original survey report
- 2 - Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (337) 233-3982.

Sincerely,



Rock Brunet
Service Coordinator
PathFinder Energy Services

014



CONFIDENTIAL

DIRECTIONAL SURVEY REPORT

TOM BROWN, INC.

BIG INDIAN #34-11

SAN JUAN COUNTY, UTAH

PREPARED BY: ROCK BRUNET

RECEIVED

FEB 19 2004

DIV. OF OIL, GAS & MINING

PathFinder Energy Services, Inc.
3329 West Pinhook Road, Lafayette, LA 70508
(337) 233-3982

DIRECTIONAL SURVEY COMPANY REPORT:

1. NAME OF SURVEYING COMPANY: PATHFINDER ENERGY SERVICES
2. NAME OF PERSON(S) PERFORMING SURVEY: (A) AARON CARLSON
(B) BRIAN IRVIN
3. POSITION OF SAID PERSON(S): (A-B) SURVEYORS (FIELD ENGINEERS)
4. DATE(S) ON WHICH SURVEY WAS PERFORMED: 12/28/03 TO 01/09/04
5. STATE IN WHICH SURVEY WAS PERFORMED: ONSHORE, UTAH
6. LOCATION OF WELL: SAN JUAN COUNTY, UTAH
7. TYPE OF SURVEY(S) PERFORMED: MWD
8. COMPLETE IDENTIFICATION OF WELL:

TOM BROWN, INC.
BIG INDIAN #34-11
SAN JUAN COUNTY, UTAH
RIG: SAUER #33
9. SURVEY CERTIFIED FROM: 1,216 TO 9,557 FEET MEASURED DEPTH.

THIS IS TO VERIFY THAT ATTACHED DOCUMENTS SHOWING THE WELL TO BE DISPLACED AT 77.19 FEET ON A BEARING OF 121.51 DEGREES FROM THE CENTER OF THE ROTARY TABLE AT PROJECTED MEASURED DEPTH OF 9,642 FEET, ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

Rock Brunet

ROCK BRUNET
SERVICE COORDINATOR

BHL Report

*Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 0.00 deg.*

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

TOM BROWN INC.
BIG INDIAN #34-11
SAN JUAN Co., UT
RIG: SAUER #33

DECL= 11.86° TO TRUE
KBH: 16' TO GROUND

PES OFFICE SUPERVISOR:
RICH ARNOLD
PES FIELD ENGINEER:
AARON CARLSON
PES DIRECTIONAL DRILLER:
BRIAN IRVIN

Measured Depth	9642.00	(ft)
Inclination	3.87	(deg)
Azimuth	244.07	(deg)
True Vertical Depth	9609.73	(ft)
Vertical Section	-40.35	(ft)
Rectangular Offsets		
North/South	40.35	S (ft)
East/West	65.81	E (ft)
Closure Dist & Dir	77.19@121.51	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)

Survey Report

*Calculated using the Minimum Curvature Method
 Computed using PDS VER2.2.6
 Vertical Section Plane: 0.00 deg.*

Survey Reference: WELLHEAD
 Vertical Section Reference: WELLHEAD
 Closure Reference: WELLHEAD
 TVD Reference: WELLHEAD

TOM BROWN INC.
 BIG INDIAN #34-11
 SAN JUAN Co., UT
 RIG: SAUER #33

DECL= 11.86° TO TRUE
 KBH: 16' TO GROUND

PES OFFICE SUPERVISOR:
 RICH ARNOLD
 PES FIELD ENGINEER:
 AARON CARLSON
 PES DIRECTIONAL DRILLER:
 BRIAN IRVIN

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)	Dist. (ft)	Dir. (deg.)	
TIE-IN TO SURFACE										
0.00	0.00	0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS										
1216.00	1.67	105.82	1215.83	1216.00	-4.83	4.83 S	17.05 E	17.72@	105.82	0.14
1564.00	3.52	88.06	1563.46	348.00	-5.85	5.85 S	32.61 E	33.13@	100.17	0.57
2036.00	6.16	86.74	2033.74	472.00	-3.92	3.92 S	72.38 E	72.48@	93.10	0.56
2507.00	9.15	85.07	2500.49	471.00	0.74	0.74 N	134.93 E	134.93@	89.69	0.64
2981.00	10.20	83.05	2967.74	474.00	9.05	9.05 N	214.14 E	214.33@	87.58	0.23
3331.00	10.11	86.57	3312.26	350.00	14.64	14.64 N	275.57 E	275.96@	86.96	0.18
3425.00	8.88	85.69	3404.97	94.00	15.68	15.68 N	291.04 E	291.46@	86.92	1.32
3520.00	7.46	81.41	3499.00	95.00	17.15	17.15 N	304.45 E	304.93@	86.78	1.63
3614.00	5.19	77.78	3592.43	94.00	18.96	18.96 N	314.64 E	315.21@	86.55	2.45
3709.00	4.31	71.10	3687.10	95.00	21.03	21.03 N	322.22 E	322.90@	86.27	1.09
3803.00	3.08	39.11	3780.91	94.00	24.13	24.13 N	327.15 E	328.04@	85.78	2.50
3897.00	2.73	46.66	3874.79	94.00	27.63	27.63 N	330.38 E	331.53@	85.22	0.55
3991.00	1.41	44.91	3968.73	94.00	29.99	29.99 N	332.82 E	334.17@	84.85	1.41
4085.00	0.53	353.05	4062.72	94.00	31.24	31.24 N	333.58 E	335.04@	84.65	1.23
4179.00	0.97	316.05	4156.71	94.00	32.24	32.24 N	332.98 E	334.54@	84.47	0.67
4273.00	2.02	318.86	4250.67	94.00	34.06	34.06 N	331.34 E	333.08@	84.13	1.12
4369.00	3.08	335.03	4346.58	96.00	37.67	37.67 N	329.14 E	331.28@	83.47	1.32
4463.00	3.78	343.65	4440.41	94.00	42.94	42.94 N	327.20 E	330.00@	82.52	0.92
4558.00	3.87	341.89	4535.20	95.00	48.99	48.99 N	325.32 E	328.99@	81.44	0.16
4653.00	3.52	328.97	4630.00	95.00	54.53	54.53 N	322.82 E	327.39@	80.41	0.95
4747.00	3.78	319.74	4723.81	94.00	59.37	59.37 N	319.33 E	324.80@	79.47	0.68
4842.00	3.87	300.67	4818.61	95.00	63.40	63.40 N	314.55 E	320.87@	78.60	1.34
4936.00	3.96	306.56	4912.39	94.00	66.95	66.95 N	309.21 E	316.38@	77.78	0.44

Survey Report

Wellpath ID: Big Indian #34-11

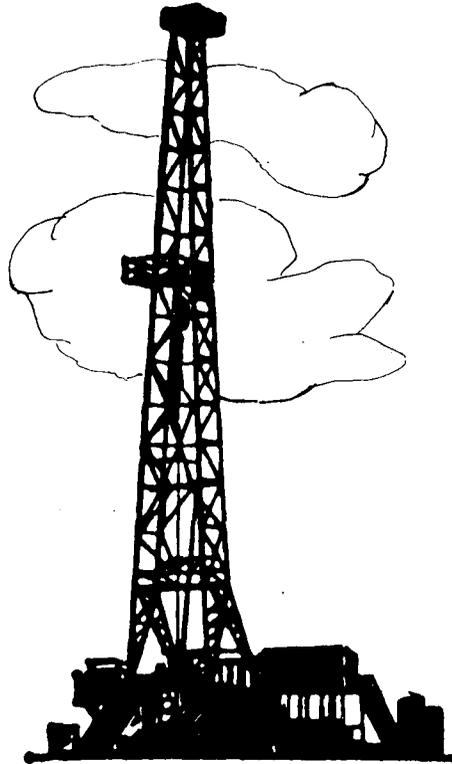
Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular Offsets (ft)		Dist. (ft)	Dir. (deg.)	
5031.00	2.73	291.79	5007.23	95.00	69.74	69.74 N	304.48 E	312.36@	77.10	1.57
5125.00	2.11	261.73	5101.14	94.00	70.32	70.32 N	300.68 E	308.80@	76.84	1.48
5220.00	1.85	227.81	5196.09	95.00	69.04	69.04 N	297.82 E	305.72@	76.95	1.24
5315.00	2.46	227.28	5291.02	95.00	66.63	66.63 N	295.18 E	302.61@	77.28	0.64
5409.00	2.02	232.38	5384.95	94.00	64.25	64.25 N	292.39 E	299.37@	77.61	0.51
5503.00	1.85	226.23	5478.90	94.00	62.19	62.19 N	289.98 E	296.57@	77.90	0.29
5597.00	1.67	238.27	5572.85	94.00	60.42	60.42 N	287.72 E	294.00@	78.14	0.44
5691.00	1.23	285.38	5666.83	94.00	59.97	59.97 N	285.58 E	291.81@	78.14	1.31
5786.00	2.46	270.17	5761.78	95.00	60.24	60.24 N	282.56 E	288.91@	77.96	1.38
5880.00	2.55	266.48	5855.69	94.00	60.12	60.12 N	278.46 E	284.87@	77.82	0.20
5975.00	2.99	267.89	5950.57	95.00	59.90	59.90 N	273.87 E	280.34@	77.66	0.47
6069.00	2.73	274.57	6044.46	94.00	59.99	59.99 N	269.19 E	275.79@	77.44	0.45
6163.00	2.64	254.53	6138.36	94.00	59.59	59.59 N	264.87 E	271.49@	77.32	1.00
6259.00	2.46	247.14	6234.26	96.00	58.20	58.20 N	260.84 E	267.26@	77.42	0.39
6353.00	2.11	255.49	6328.19	94.00	56.98	56.98 N	257.31 E	263.54@	77.51	0.51
6447.00	2.81	249.52	6422.10	94.00	55.74	55.74 N	253.47 E	259.53@	77.60	0.79
6541.00	3.34	248.02	6515.96	94.00	53.91	53.91 N	248.78 E	254.55@	77.77	0.57
6636.00	3.34	251.27	6610.80	95.00	51.99	51.99 N	243.59 E	249.08@	77.95	0.20
6730.00	3.17	249.17	6704.65	94.00	50.18	50.18 N	238.57 E	243.79@	78.12	0.22
6824.00	3.25	253.03	6798.50	94.00	48.48	48.48 N	233.59 E	238.57@	78.28	0.25
6918.00	3.43	257.07	6892.34	94.00	47.07	47.07 N	228.30 E	233.10@	78.35	0.32
7012.00	3.43	261.29	6986.18	94.00	46.02	46.02 N	222.78 E	227.48@	78.33	0.27
7106.00	3.25	246.79	7080.02	94.00	44.54	44.54 N	217.55 E	222.06@	78.43	0.92
7201.00	4.13	243.45	7174.82	95.00	41.95	41.95 N	212.02 E	216.13@	78.81	0.95
7295.00	4.31	238.44	7268.57	94.00	38.59	38.59 N	205.98 E	209.56@	79.39	0.44
7389.00	4.84	238.71	7362.27	94.00	34.68	34.68 N	199.58 E	202.57@	80.14	0.56
7481.00	4.75	237.39	7453.94	92.00	30.61	30.61 N	193.05 E	195.47@	80.99	0.15
7576.00	4.92	244.07	7548.61	95.00	26.71	26.71 N	186.08 E	187.98@	81.83	0.62
7672.00	4.22	239.67	7644.30	96.00	23.13	23.13 N	179.33 E	180.81@	82.65	0.81
7766.00	3.78	241.26	7738.07	94.00	19.89	19.89 N	173.62 E	174.76@	83.46	0.48
7860.00	4.31	239.23	7831.84	94.00	16.59	16.59 N	167.87 E	168.69@	84.35	0.58
7954.00	4.75	242.22	7925.54	94.00	12.97	12.97 N	161.39 E	161.91@	85.40	0.53
8049.00	3.25	245.56	8020.31	95.00	10.03	10.03 N	155.46 E	155.79@	86.31	1.60
8143.00	3.17	250.04	8114.16	94.00	8.04	8.04 N	150.59 E	150.81@	86.95	0.28
8236.00	3.34	246.00	8207.01	93.00	6.06	6.06 N	145.70 E	145.83@	87.62	0.31
8331.00	2.20	272.81	8301.90	95.00	5.02	5.02 N	141.35 E	141.44@	87.97	1.79
8424.00	1.79	265.95	8394.85	93.00	5.01	5.01 N	138.12 E	138.21@	87.92	0.51
8518.00	2.99	241.43	8488.77	94.00	3.73	3.73 N	134.50 E	134.55@	88.41	1.65
8613.00	3.61	227.46	8583.61	95.00	0.52	0.52 N	130.12 E	130.12@	89.77	1.06
8708.00	4.04	221.30	8678.40	95.00	-4.01	4.01 S	125.71 E	125.77@	91.83	0.63
8803.00	4.84	231.67	8773.11	95.00	-9.01	9.01 S	120.36 E	120.69@	94.28	1.19
8896.00	4.40	243.89	8865.81	93.00	-13.02	13.02 S	114.08 E	114.82@	96.51	1.16
8991.00	4.84	238.71	8960.50	95.00	-16.70	16.70 S	107.38 E	108.67@	98.84	0.64
9085.00	4.40	247.76	9054.20	94.00	-20.13	20.13 S	100.65 E	102.65@	101.31	0.90
9179.00	4.31	240.73	9147.93	94.00	-23.22	23.22 S	94.23 E	97.05@	103.84	0.58

Survey Report

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL		Closure		DLS (dg/100ft)
						Rectangular (ft)	Offsets (ft)	Dist. (ft)	Dir. (deg.)	
9272.00	4.31	232.11	9240.67	93.00	-27.07	27.07 S	88.43 E	92.48@	107.02	0.70
9367.00	4.31	233.52	9335.40	95.00	-31.39	31.39 S	82.74 E	88.49@	110.77	0.11
9462.00	4.04	244.07	9430.15	95.00	-34.97	34.97 S	76.86 E	84.44@	114.47	0.86
9557.00	3.87	244.07	9524.92	95.00	-37.84	37.84 S	70.97 E	80.42@	118.07	0.18
STRAIGHT LINE PROJECTION TO TD.										
9642.00	3.87	244.07	9609.73	85.00	-40.35	40.35 S	65.81 E	77.19@	121.51	0.00

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CONFIDENTIAL



REBEL TESTING, INC.

RECEIVED

FEB 19 2004

DIV. OF OIL, GAS & MINING

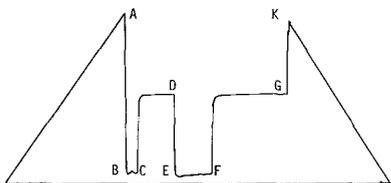
Drill Stem Test Report

Box 296
Gillette, WY 82716

Phone
(307) 682-9626

GUIDE TO INTERPRETATION AND IDENTIFICATION OF DST CHARTS

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



- A - Initial Hydrostatic
- B - First Initial Flow
- C - First Final Flow
- D - Initial Shut-in
- E - Second Initial Flow
- F - Second Final Flow
- G - Second Shut-in
- H - Third Initial Flow
- I - Third Final Flow
- J - Third Shut-in
- K - Final Hydrostatic

NOMENCLATURE

Symbol	Definition	DST Unit
k	permeability	millidarcys (md)
h	pay thickness	feet (ft.)
u	viscosity	centipoise
T	reservoir temperature	°Rankin (°R)
Z	gas compressibility factor at average condition	
q _{sc}	gas production rate	MCF/d
M	Horner slope for liquid analysis	PSI/Cycle
Mg	Horner slope for (P ²) gas analysis	PSI ² /Cycle
P _i	initial static reservoir pressure	PSI
P _{wf}	flowing bottom hole pressure	PSI
φ	porosity	(fraction)
r _w	well bore radius	ft.
S	skin factor	
AOF	absolute open flow	MCF/d
D. R.	damage ratio	
r _e	external drainage radius	ft.
ISIP	initial shut-in pressure	PSI
FSIP	final shut-in pressure	PSI
b	approx. radius of investigation	ft.
t	flowing time	hrs.
B	formation volume factor	
q	liquid production rate	bbbls/day
c	gas compressibility	1/PSI
c	liquid compressibility	1/PSI

Build-Up Analysis Equations

Pressure Analysis

$$kh = \frac{162.6 Q \mu \beta}{M}$$

$$S = 1.151 \left[\frac{P_{1hr} - P_{ref}}{M} - \log \left(\frac{k}{\phi \mu c_t r_w^2} \right) + 3.23 \right]$$

$$\frac{\Delta P}{S_{skin}} = \frac{141.2 Q \mu \beta}{kh} S$$

$$L = \sqrt{\frac{0.000148 k \Delta t_x}{\phi \mu c_t}}$$

$$\text{Efficiency} = \frac{P - P_{wf} - \Delta P_{skin}}{P - P_{wf}}$$

Type Curve P Method

$$kh = 141.2 Q \mu \beta \frac{P_{wo}}{\Delta P}$$

$$S = \frac{1}{2} \ln \left[\frac{C_D e^{2s}}{\frac{2.637 \times 10^4 k \Delta t}{\phi \mu c_t r_w^2 t_D / C_D}} \right]$$

$$\frac{\Delta P}{S_{skin}} = \frac{141.2 Q \mu \beta}{kh} S$$

$$\text{Efficiency} = \frac{P - P_{wf} - \Delta P_{skin}}{P - P_{wf}}$$

Pseudo-Pressure Analysis

$$kh = \frac{1.632 \times 10^7 Q_g T}{M}$$

$$S = 1.151 \left[\frac{\Psi_{1hr} - \Psi_{ref}}{M} - \log \left(\frac{k}{\phi \mu c_t r_w^2} \right) + 3.23 \right]$$

$$\frac{\Delta \Psi}{S_{skin}} = \frac{1422 Q_g T S}{kh}$$

$$L = \sqrt{\frac{0.000148 k \Delta t_x}{\phi \mu c_t}}$$

$$\text{Efficiency} = \frac{P - P_{wf} - \Delta P_{skin}}{P - P_{wf}}$$

Type Curve P² Method

$$kh = 141.2 Q \mu \beta \frac{P_{wo}}{\Delta t \Delta P}$$

$$S = \frac{1}{2} \ln \left[\frac{C_D e^{2s}}{\frac{2.637 \times 10^4 k \Delta t}{\phi \mu c_t r_w^2 t_D / C_D}} \right]$$

$$\frac{\Delta P}{S_{skin}} = \frac{141.2 Q \mu \beta}{kh} S$$

$$\text{Efficiency} = \frac{P - P_{wf} - \Delta P_{skin}}{P - P_{wf}}$$

Fall-Off Analysis Equations

Semi-Log Analysis

$$\text{Eq. (3.9)} \quad kh = \frac{162.6 Q \mu \beta}{M}$$

$$\text{Eq. (3.10)} \quad S = 1.151 \left[\frac{P_{1hr} - P_{1hr}}{M} - \log \left(\frac{k}{\phi \mu c_t r_w^2} \right) + 3.23 \right]$$

Log-Log Analysis

$$\text{Eq. (4.4)} \quad kh = 141.2 Q \mu \beta \frac{P_{wo}}{\Delta P}$$

$$S = \frac{1}{2} \ln \left[\frac{C_D e^{2s}}{\frac{2.637 \times 10^4 k \Delta t}{\phi \mu c_t r_w^2 t_D / C_D}} \right]$$

Pressure drop due to skin

$$\text{Eq. (2.9)} \quad \frac{\Delta P}{S_{skin}} = \frac{141.2 Q \mu \beta}{kh} S$$

$$\text{Eq. (2.12)} \quad \text{Flow Efficiency} \quad FE = \frac{P - P_{wf} - \Delta P_{skin}}{P - P_{wf}}$$

$$\text{Eq. (2.41)} \quad \text{Investigation radius} = 0.029 \sqrt{\frac{k \Delta t}{\phi \mu c_t}}$$

Skin due to Partial Perforations

$$\text{Eq. (2.20)} \quad S_p = \left(\frac{h_t}{h_p} - 1 \right) \left[\ln \left(\frac{h_t}{h_p} \sqrt{\frac{k_w}{k_y}} \right) - 2 \right]$$

Advances in Well Test Analysis
Robert C. Earlougher Jr.
Monograph Volume 5 of
the Henry L. Doherty Series

Well Testing
John Lee
SPE Textbook Series Vol 1

Drill-Stem-Test Reporting By:

Michael Hudson
DATA REPORTING SERVICES

P.O. Box 722 Ph. (520) 505-8389
LAKE HAVASU CITY, AZ 86405

Gillette WY
Ph (307) 682-9626



REBEL TESTING, INC.

Technical Services
(928) 505-8389

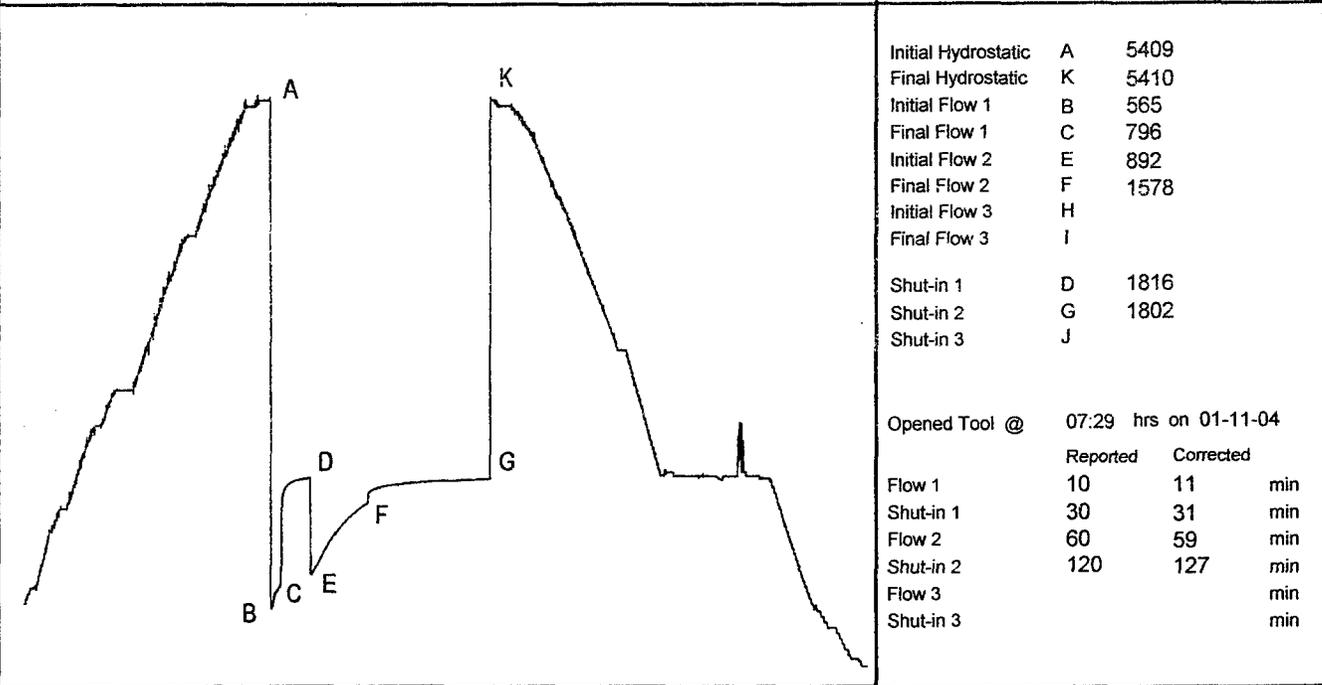
COMPANY TOM BROWN, INC.
LEASE NAME & NO BIG INDIAN #34-11
INTERVAL TESTED 9500'-9715'

COUNTY SAN JUAN
STATE UTAH
FORMATION LEADVILLE

DATE 01-11-2004
TICKET # 2214
TEST # 1

Contractor	Sauer Drilling	Surface Choke	3/4"	Mud Type	Saturated Salt
Rig No.	33	Bottom Choke	3/4"	Weight	10.7
Spot	NW/NW	Hole Size	8 3/4"	Viscosity	44
Sec	34	Core Hole Size		Water Loss	7.2
Twp	29 S	DP Size & Wt	4 1/2" 16.60	Filter Cake	
Rng	24 E	Wt Pipe	4 1/2" 41.00	RW	@ Deg F
Field	Big Indian	ID of DC	2 1/4"		Ppm
County	San Juan	Length of DC	31'	B.H.T.	144.7 Deg F
State	Utah	Total Depth	9715'		
Elevation	6830' KB	Type of Test	Open Hole Dst	Co. Rep.	Mike Sitton
Formation	Leadville	Interval	9500'-9715'	Tester	Dan Williams

Pipe recovery:	Pressure in Sampler	320	psig
Reverse circulated:	Volume of Sampler	2150	cc
3230' H2S cut, mud, formation water & inhibitor = 40.0 bbl.	Volume of Sample	2150	cc
Surface blow:	Oil:	0	cc
Pre-Flow: Began with a 1 1/2" blow, increased to bottom of bucket in 5 minutes and 9.0 oz in 10 minutes. After shut-in blow decreased to 1" in 10 minutes then increased to 4" in 15 minutes.	Water:	2150	cc
Final Flow: Began with a 7" blow, increased to bottom of bucket in 4 minutes, 6.0 oz in 5 minutes, 7.5 oz in 15 minutes, 8.5 oz in 20 minutes, 9.0 oz in 25 minutes; decreased to 8.5 oz in 30 minutes, 8.0 oz in 35 minutes; increased to 8.5 oz in 40 minutes, 11.5 oz in 45 minutes, 13.0 oz in 50 minutes; decreased to 10.0 oz in 55 minutes and 9.0 oz in 60 minutes. After shut-in blow decreased to 7.5 oz in 5 minutes, 5" in 15 minutes and 1" in 25 minutes.	Mud:	0	cc
	Gas:	1.88 (18,000 ppm H2S)	cu ft
	Other:	0	
	Rw:	.16 @ 50 deg f/.06 @ res temp/ 60,608 ppm NaCl., 36,844 ppm Cl.	
	Gas/Oil Ratio		
	Gravity	API @ 60 Deg F	
	Gauge Type	Sunada Electronic	
	No.	30087	Cap 10000 psi
	Depth	9480	ft.
	Inside	X	Outside



Tom Brown, Inc.
Big Indian #34-11, Dst #1

Comments relative to analysis of the drill stem test that was run in the Leadville formation by Rebel Testing, Inc.

This analysis is based upon the liquid recovery and equations applicable to liquid recovery tests; radial flow analysis and derivative analysis techniques. It has been assumed, for purposes of this analysis that the tested reservoir system consisted of a single porosity zone 20 feet in thickness with an average porosity of 20 percent. A flow regime equivalent to an approximate $\frac{1}{2}$ slope is noted on the various diagnostic plots. This type of flow regime is often times associated with linear flow probably due to either a channeled reservoir or the presence of fractures. A vertical water-well model with linear flow was used for type curve matching and non-linear regression analysis.

The semi-log plots indicate a maximum initial reservoir pressure of 1845 psi. The type curve match indicates a maximum final reservoir pressure of 1873 psi, which is equivalent to a subsurface pressure gradient of 0.199 psi/ft at gauge depth.

The Average Production Rate which was used in this analysis has been calculated from analysis of the flow pressure curves using a liquid gradient for the recovered fluid of 0.454 psi/ft.

The calculated Skin Factors indicate no well-bore damage was present at the time of this formation test.

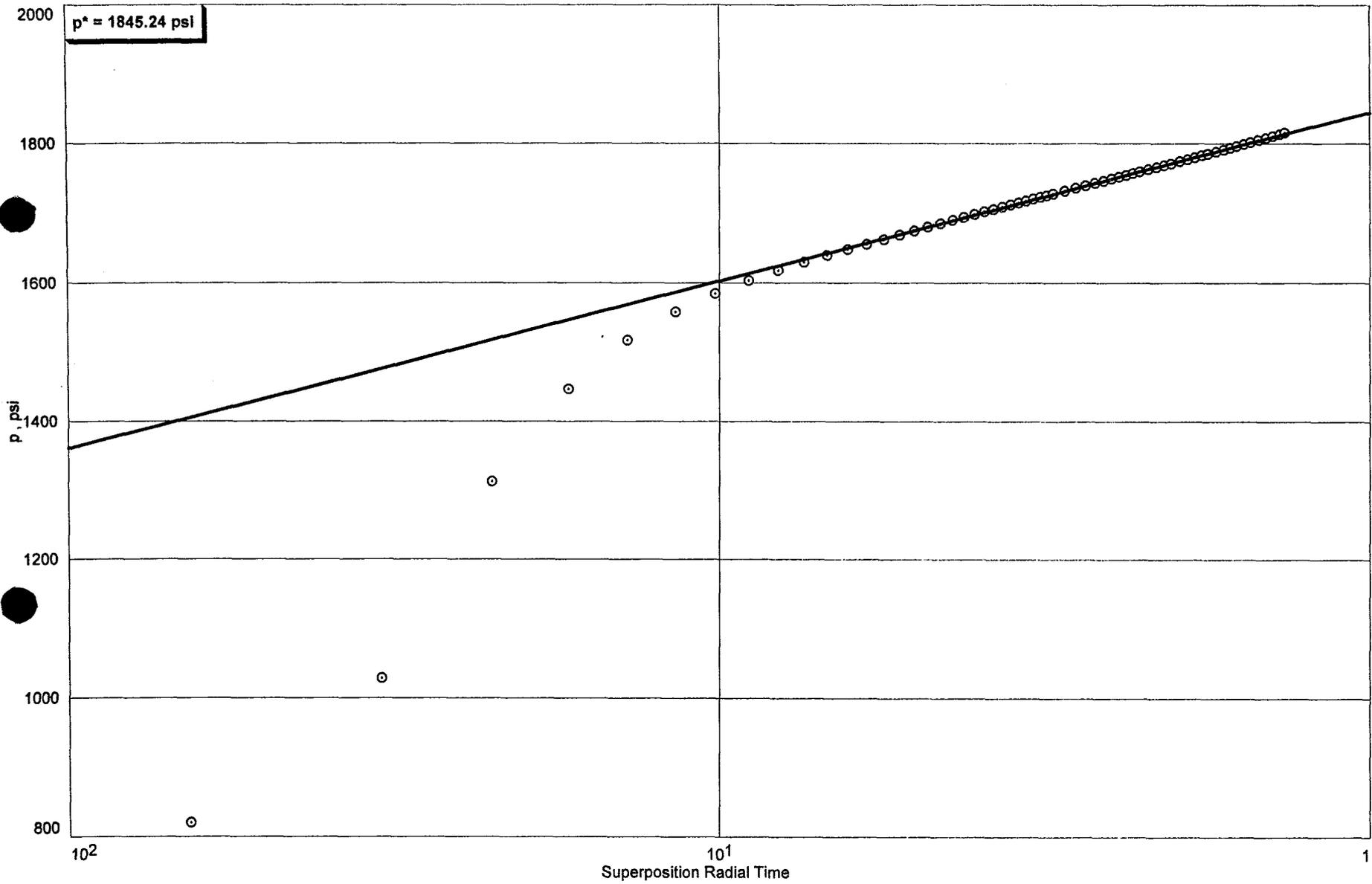
The evaluation criteria used in the drill stem test analysis system indicate this is a good mechanical test and the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

Michael Hudson
Analyst
(928) 505-8389



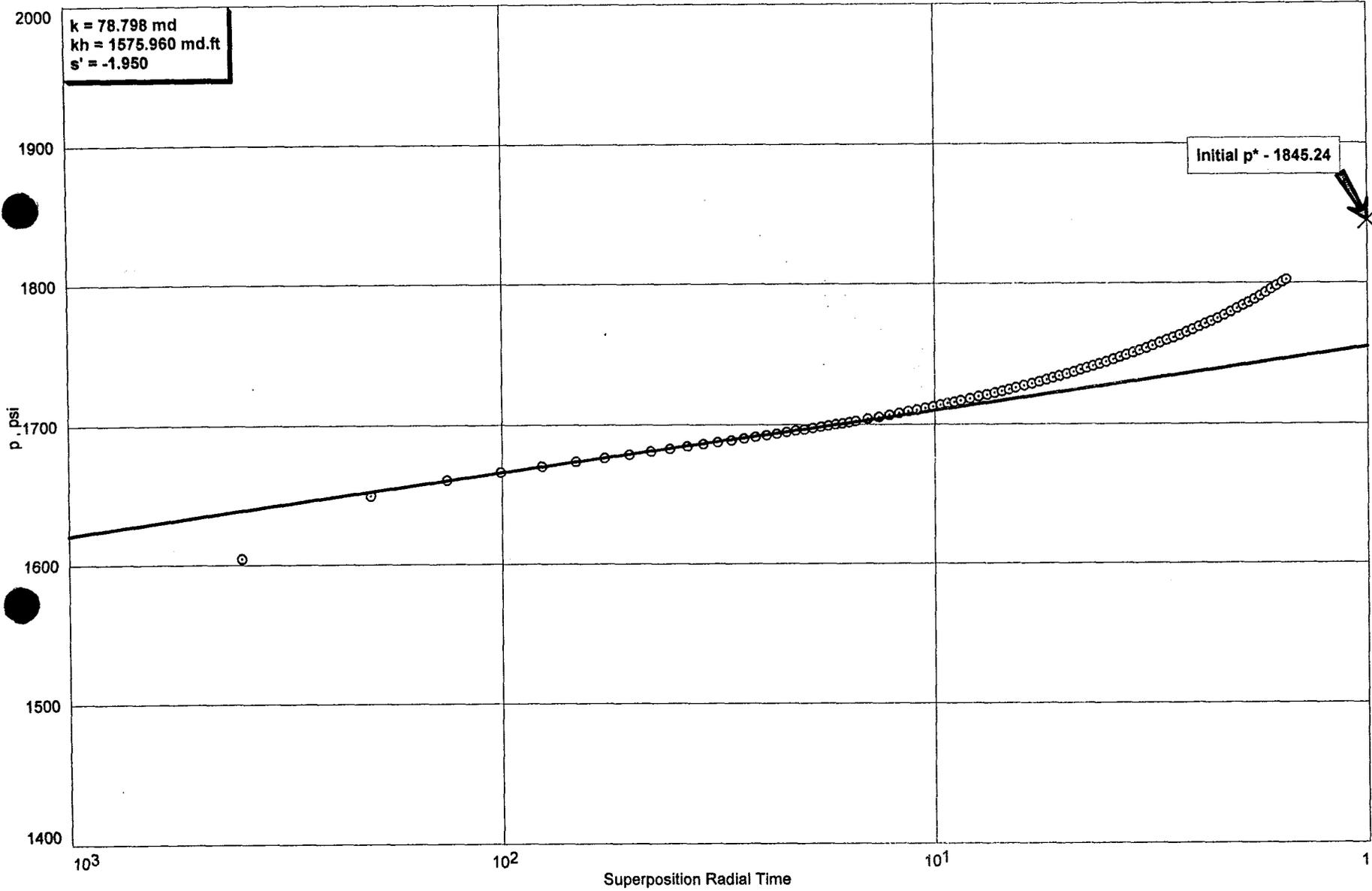
Tom Brown Inc
Big Indian 34-11, Dst 1
Gauge 30087

RADIAL PLOT - SHUT IN 1



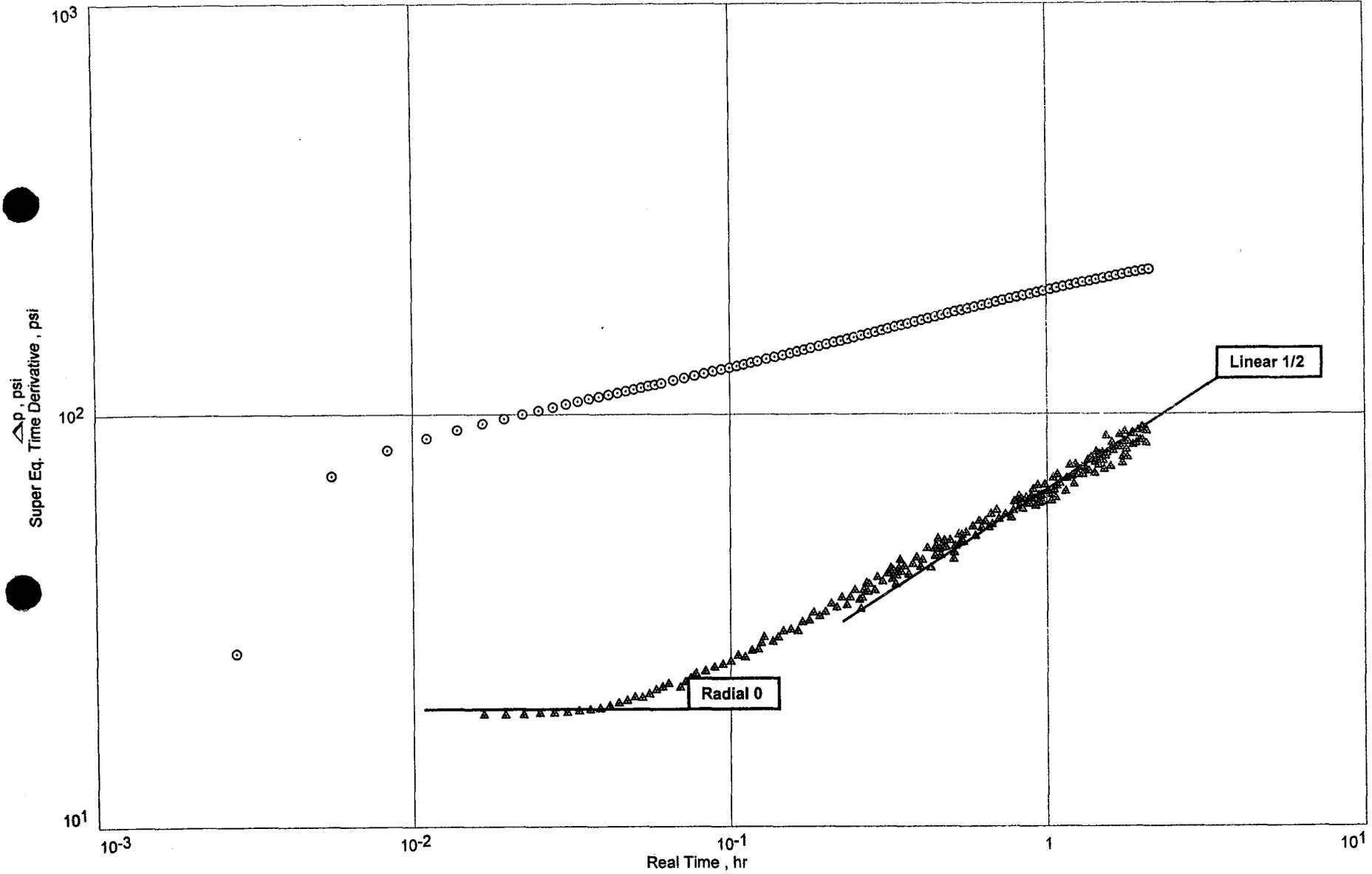
Tom Brown Inc
Big Indian 34-11, Dst 1
Gauge 30087

RADIAL PLOT - SHUT IN 2



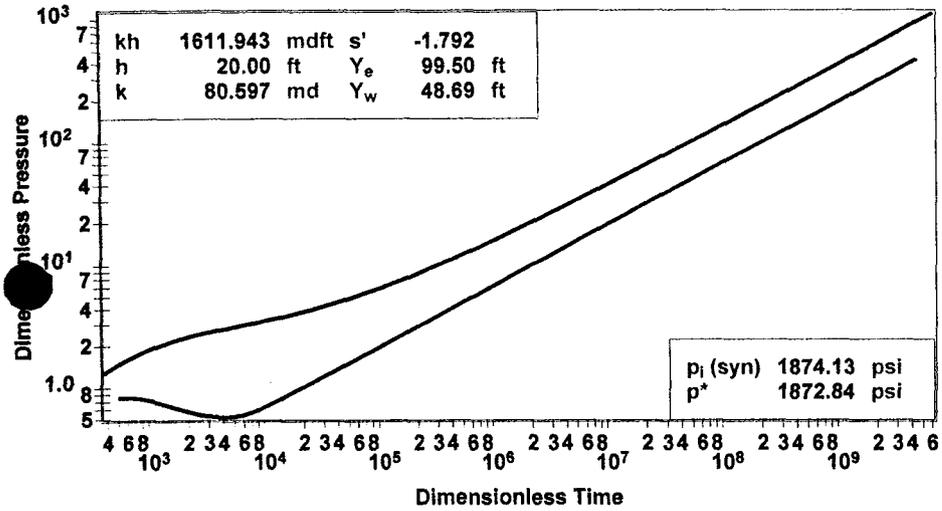
Tom Brown Inc
Big Indian 34-11, Dst 1
Gauge 30087

DERIVATIVE PLOT - SHUT IN 2



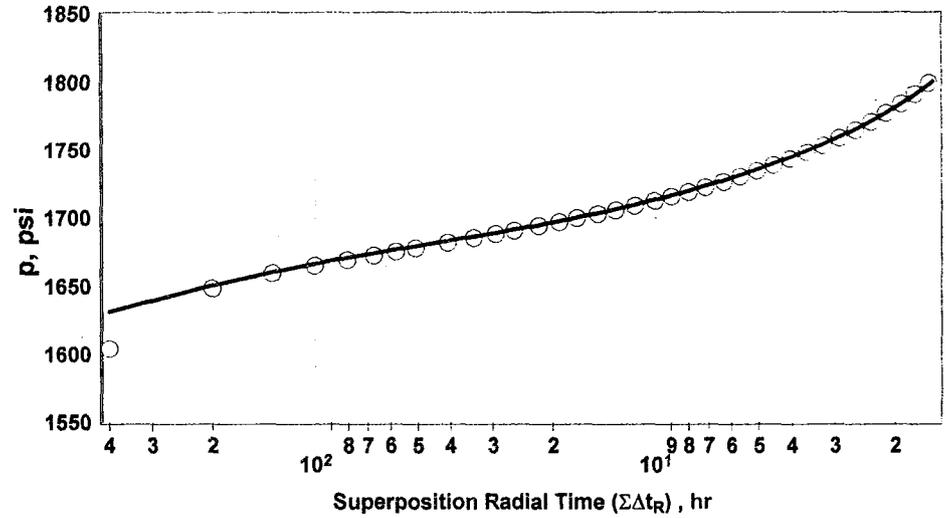
Vertical Water-Well Model

Dimensionless Typecurve



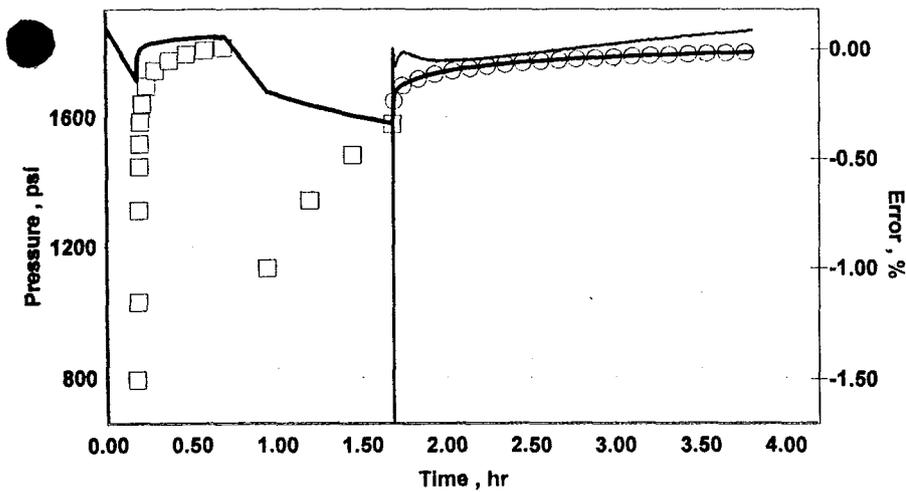
Vertical Water-Well Model

Radial



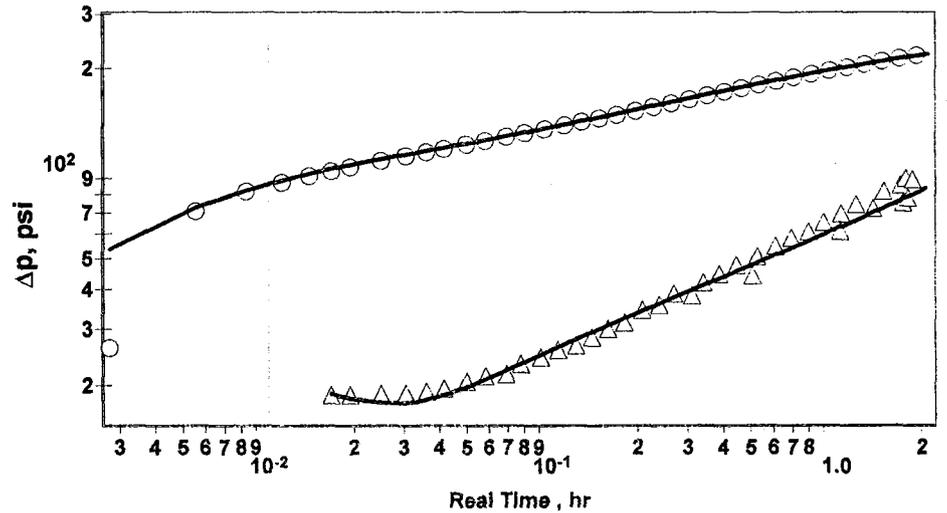
Vertical Water-Well Model

Total Test



Vertical Water-Well Model

Typecurve



Vertical Water Well Model

Tom Brown Inc
Big Indian 34-11, Dst 1
Gauge 30087

Model Parameters

Water Permeability (k_w)	80.597 md	Reservoir Width (Y_e)	99.499 ft
Skin (s)	-1.792	Active Well At (Y_w)	48.689 ft
Total Mobility (k/μ) _t	157.46 md/cp		
Total Transmissivity (kh/μ) _t	3149.18 md.ft/cp		
Wellbore Storage Constant Dim. (C_D)	167.00		

Formation Parameters

Net Pay (h)	20.000 ft
Total Porosity (ϕ_t)	20.00 %
Water Saturation (S_w)	75.00 %
Oil Saturation (S_o)	25.00 %
Gas Saturation (S_g)	0.00 %
Wellbore Radius (r_w)	0.36 ft
Formation Temperature (T)	144.7 °F
Formation Compressibility (c_f)	3.647e-6 psi ⁻¹
Total Compressibility (c_t)	8.645e-6 psi ⁻¹

Fluid Properties

Water Compressibility (c_w)	2.61337e-6 psi ⁻¹
Water Formation Volume Factor (B_w)	1.014
Water Viscosity (μ_w)	0.512 cp
Solution Gas Ratio (R_{sw})	0 scf/bbl
Specific Gravity (G)	1.000
PVT Reference Pressure (p_{pVT})	1842.80 psi

Production and Pressure

$Q_t B_t$	843.880 bbl/d
Final Water Rate	832.560 bbl/d
Final Flowing Pressure (p_{wfo})	1578.20 psi
Final Measured Pressure	1802.25 psi
Cumulative Water Production During Test	40.472 bbl

Synthesis Results

Average Error	-0.02 %
Synthetic Initial Pressure (p_i)	1874.13 psi
Extrapolated Pressure at Specified Time	1872.84 psi
Pressure Drop Due To Skin (Δp_s)	psi
Flow Efficiency (FE)	1.229
Damage Ratio (DR)	0.813

Forecasts

Forecast Flowing Pressure (P_{flow})	1578.20 psi
3 - Month Constant Rate Forecast @ Curr. Skin	24.994 bbl/d
6 - Month Constant Rate Forecast @ Curr. Skin	17.713 bbl/d
Forecast Flow Duration (t_{flow})	12.00 month
Constant Rate Forecast @ Curr. Skin	12.558 bbl/d
PI / II (Actual)	0.073 bbl/d/psi
Constant Rate Forecast @ Skin=0	12.514 bbl/d
PI / II (Ideal)	0.072 bbl/d/psi
Constant Rate Forecast @ Skin=-4	12.610 bbl/d

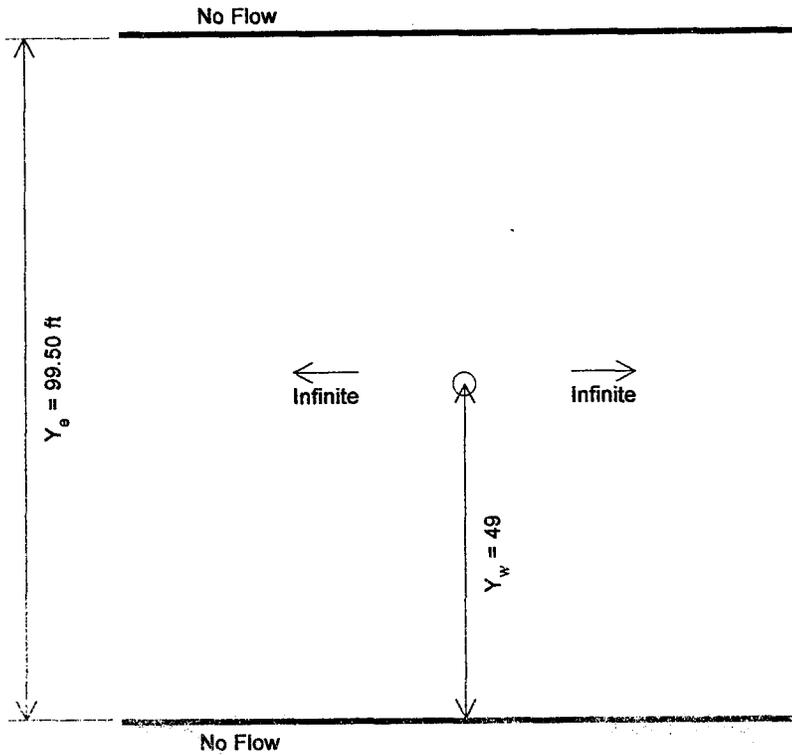
Vertical Water-Well Model

Tom Brown Inc
Big Indian 34-11, Dst 1
Gauge 30087

$k = 80.597 \text{ md}$
 $s = -1.792$

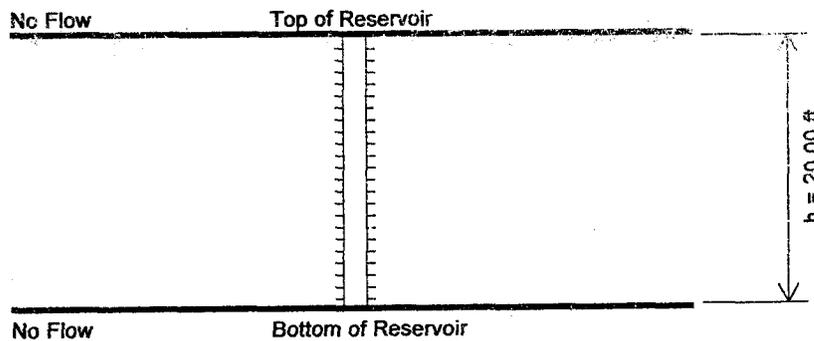
Plan View

(Not to scale)

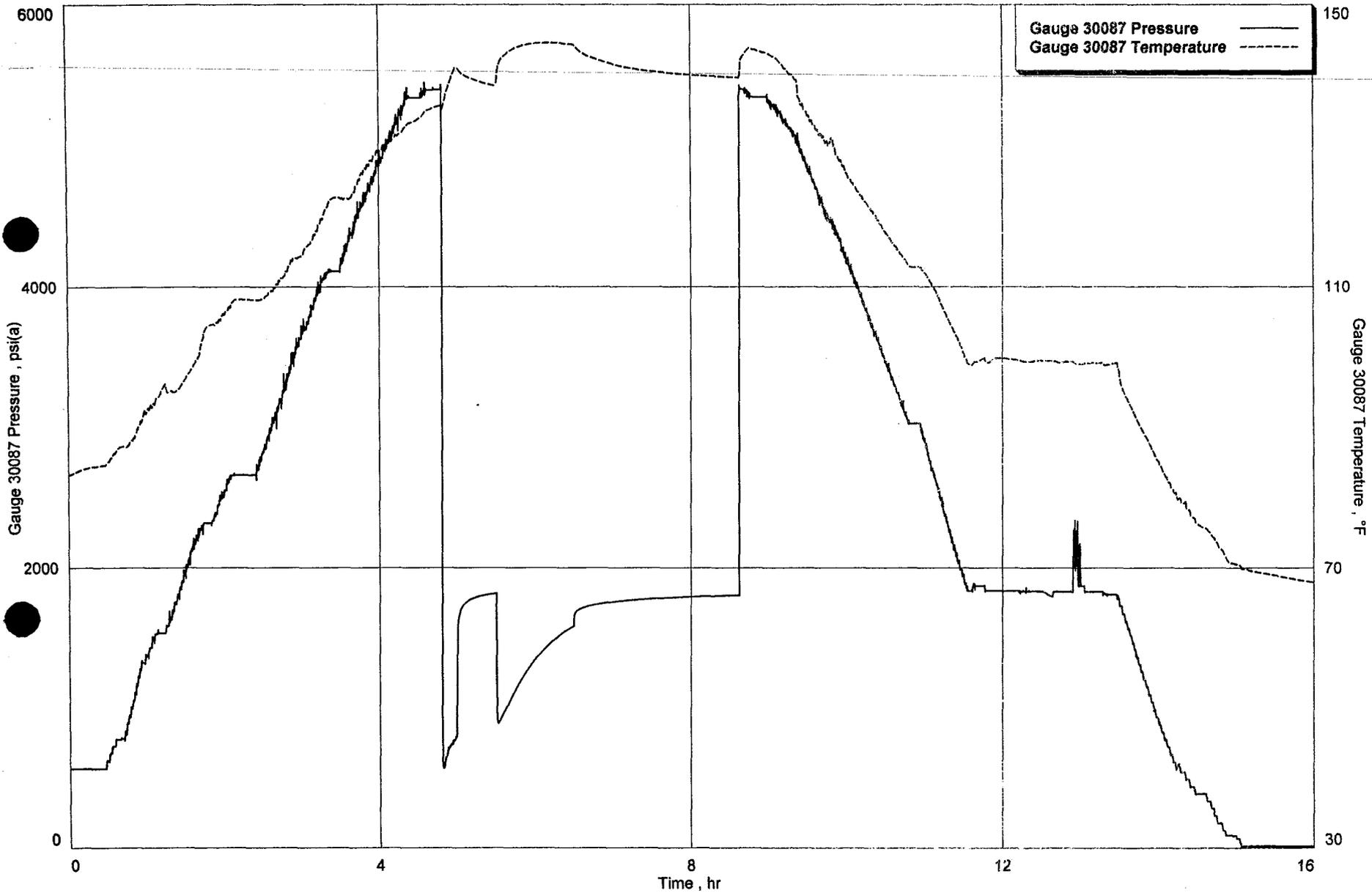


Side View

(Not to scale)



Tom Brown Inc
Big Indian 34-11, Dst 1

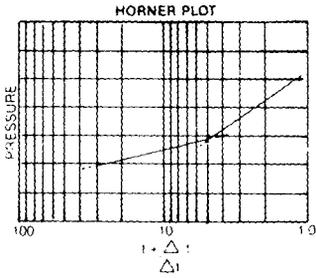


Tom Brown, Inc.
Big Indian #34-11

DISTRIBUTION OF FINAL REPORTS

Tom Brown, Inc. [5 + Disk]
555-17th St., Ste 1850
Denver CO 80202

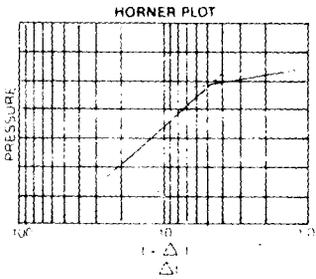
DETECTION OF GEOLOGICAL ANOMALIES



Horner Plot Slope Breaks Upward

Possible Causes

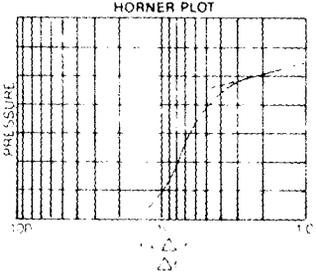
- (1) decrease in pay thickness away from the wellbore
- (2) decrease in permeability away from the wellbore
- (3) increase in viscosity of reservoir fluid (fluid contact)
- (4) barrier within the radius of investigation



Horner Plot Slope Breaks Downward

Possible Causes

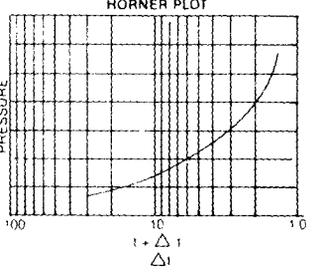
- (1) increase in pay thickness away from the wellbore
- (2) increase in permeability away from the wellbore
- (3) decrease in viscosity away from the wellbore



Early Time Deviation of Horner Plot

Possible Causes

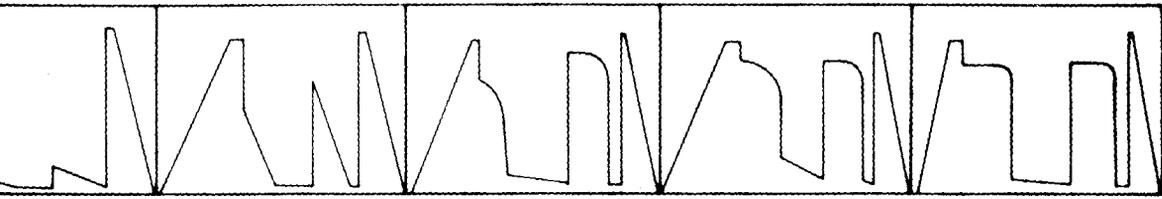
- (1) wellbore damage due to filtrate invasion, drilling solids, etc.
- (2) partial penetration of pay zone
- (3) plugging or choking of perforations (casing test only)
- (4) wellbore storage effects (low permeability gas wells)



Horner Plot Slope Continually Increasing

Possible Causes

- (1) well between two parallel boundaries (channel sand)
- (2) induced hydraulic fractures



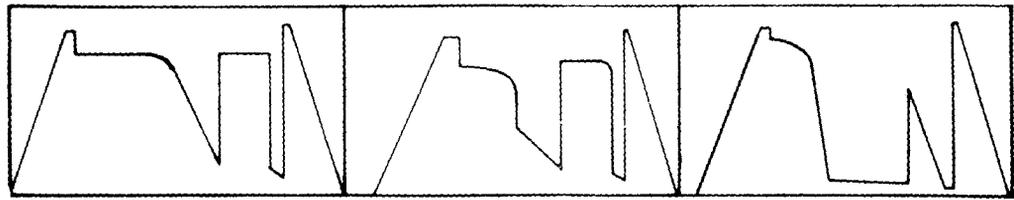
permeability. mud recovered. Initial tested. Vir-meability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 ft).

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.

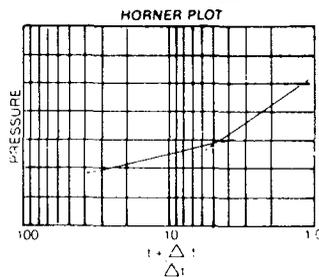
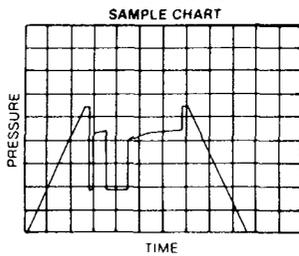


Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

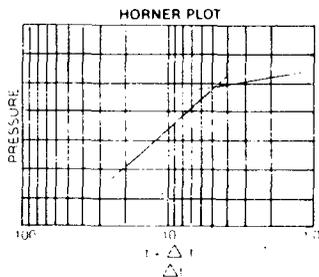
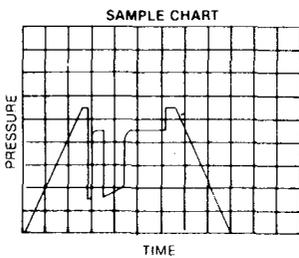
GUIDE TO DETECTION OF GEOLOGICAL ANOMALIES



Horner Plot Slope Breaks Upward

Possible Causes

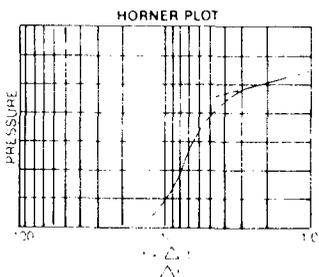
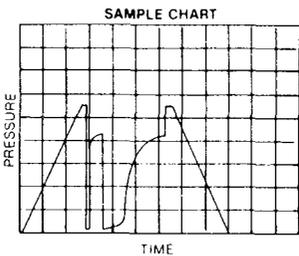
- (1) decrease in pay thickness away from the wellbore
- (2) decrease in permeability away from the wellbore
- (3) increase in viscosity of reservoir fluid (fluid contact)
- (4) barrier within the radius of investigation



Horner Plot Slope Breaks Downward

Possible Causes

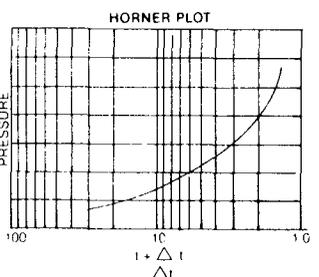
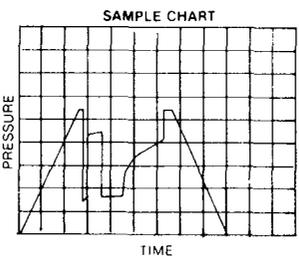
- (1) increase in pay thickness away from the wellbore
- (2) increase in permeability away from the wellbore
- (3) decrease in viscosity away from the wellbore



Early Time Deviation of Horner Plot

Possible Causes

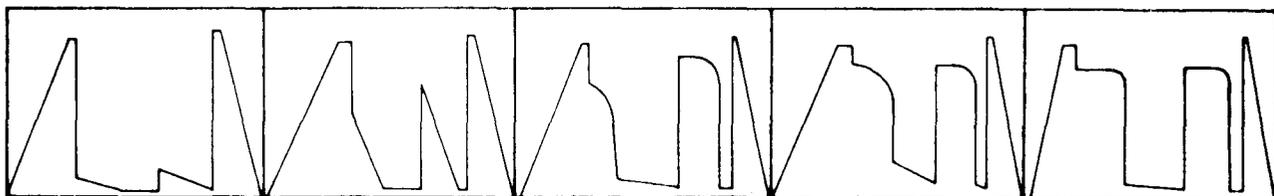
- (1) wellbore damage due to filtrate invasion, drilling solids, etc.
- (2) partial penetration of pay zone
- (3) plugging or choking of perforations (casing test only)
- (4) wellbore storage effects (low permeability gas wells)



Horner Plot Slope Continually Increasing

Possible Causes

- (1) well between two parallel boundaries (channel sand)
- (2) induced hydraulic fractures



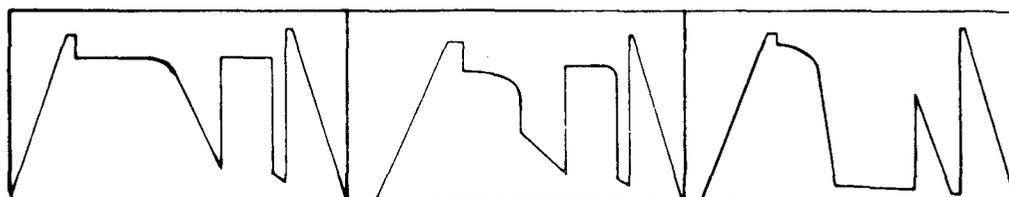
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 ft.

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability where final flow final shut-in pressure.

High permeability where ISIP and FSIP are within 10 psi.

Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

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, Allote or Tribe Name

7. Unit Agreement Name

8. Well Name and Number

9. API Well Number

10. Field and Pool, or Exploratory Area

1. Type of Well

- Oil Well Gas Well Other

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

3. Address and Telephone No.

370 Seventeenth Street, Suite 1700, Denver, CO 80202

4. Location of Well

Footages:

SEE ATTACHED LIST OF WELLS

County:

QQ, Sec T,R,M:

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"/> Water Shut-Off | <input type="checkbox"/> Water Shut-Off |

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 2/24/05

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				

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 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 17th 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

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:

1. Changes entered in the **Oil and Gas Database** on: 2/24/2005

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 2/24/2005

3. Bond information entered in RBDMS on: 2/24/2005

4. Fee/State wells attached to bond in RBDMS on: 2/24/2005

5. Injection Projects to new operator in RBDMS on: 2/24/2005

6. 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.