

001

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

FORM 3

AMENDED REPORT
(highlight changes)

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: ML-21613	6. SURFACE: State
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:	
2. NAME OF OPERATOR: National Fuel Corporation		8. UNIT or CA AGREEMENT NAME:	
3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. #815 CITY Denver STATE Co ZIP 80237		PHONE NUMBER: (303) 220-7772	9. WELL NAME and NUMBER: NFC Westwater State #22-32
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2534' FNL, 2583' FWL		10. FIELD AND POOL, OR WILDCAT: Westwater	
AT PROPOSED PRODUCING ZONE: 1200' FNL, 1200' FWL		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SEW 32 16S 24E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 46.3 miles Northwest of Fruita, Colorado		12. COUNTY: Grand	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) surface 2534', subsurface 1200'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: no spacing	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1875' Westwater #M-6	19. PROPOSED DEPTH: MD 7,546 TVD 7,142	20. BOND DESCRIPTION: Statewide Drig. Bond #04127314	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): ungraded 7326', graded 7325'	22. APPROXIMATE DATE WORK WILL START: 8/1/2005	23. ESTIMATED DURATION: 25 Days	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
17 1/2"	13 3/8 H-40 48#	150	Class G 181 sx 1.15 cu. ft/sk 15.8 ppg
12 1/4"	9 5/8 J-55 36#	1,000	Class G 389 sx 1.61 cu. ft/sk 14.2 ppg
8 3/4"	4 1/2 N-80 11.6#	7546 7,142	50/50 poz 1496 sx 1.26 cu. ft/sk 14.2 ppg

25. ATTACHMENTS

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

- WELL FLAT 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

NAME (PLEASE PRINT) Andrew Busch TITLE V.P. of Operations

SIGNATURE *Andrew Busch* DATE 6/30/2005

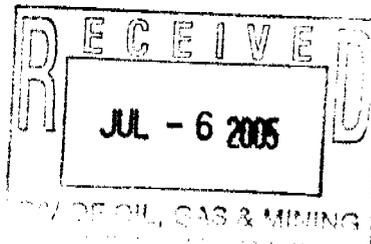
CONFIDENTIAL

(This space for State use only)

API NUMBER ASSIGNED: 43-019-31454

APPROVAL:
Approved by the
Utah Division of
Oil, Gas and Mining

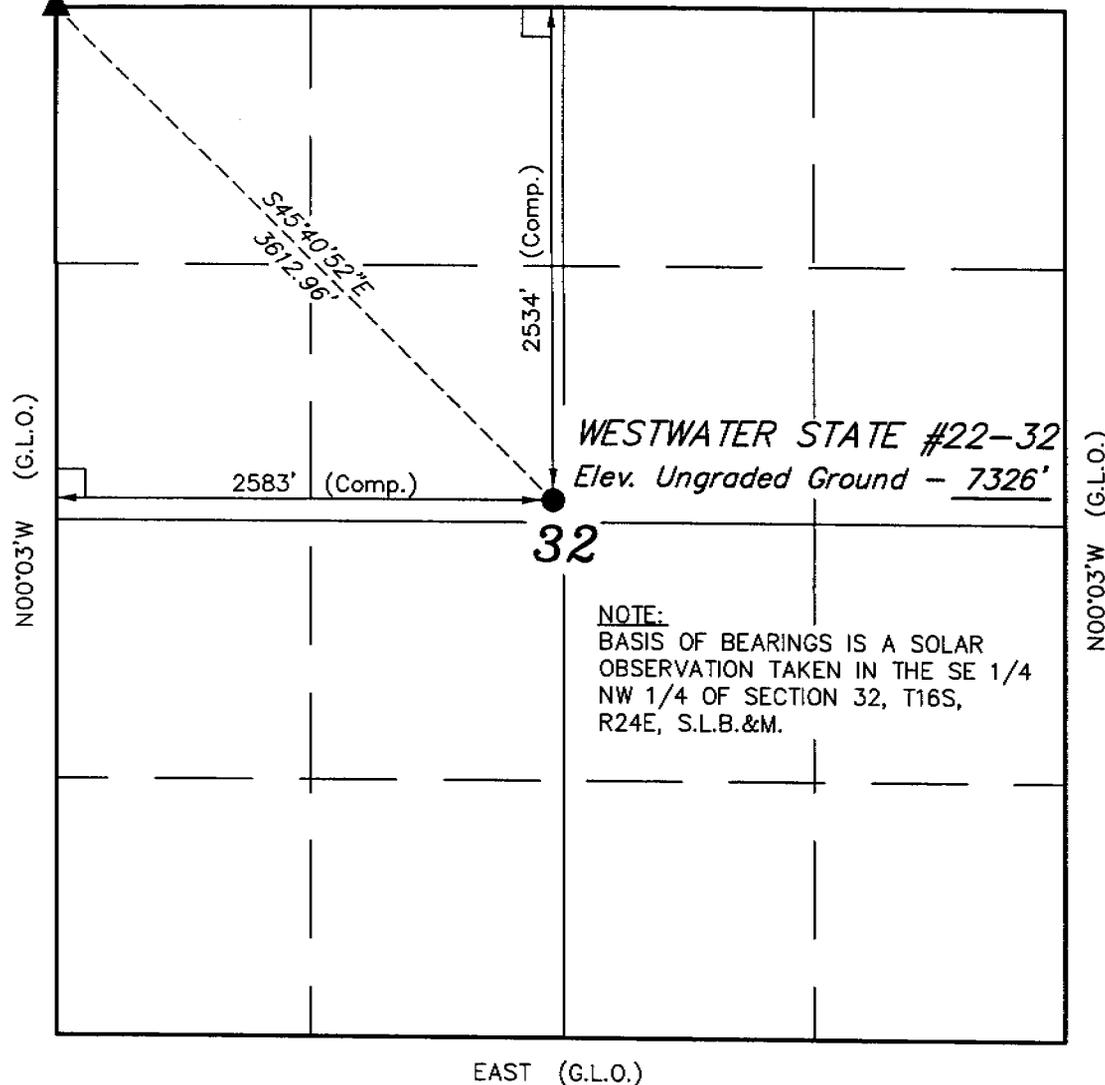
Date: 06-25-05
By: *[Signature]*



T16S, R24E, S.L.B.&M.

1922 Brass Cap
1.0' High, Bearing
Trees

S89°47'W - 79.92 (G.L.O.)



WESTWATER STATE #22-32
Elev. Ungraded Ground - 7326'

32

NOTE:
BASIS OF BEARINGS IS A SOLAR
OBSERVATION TAKEN IN THE SE 1/4
NW 1/4 OF SECTION 32, T16S,
R24E, S.L.B.&M.

LEGEND:

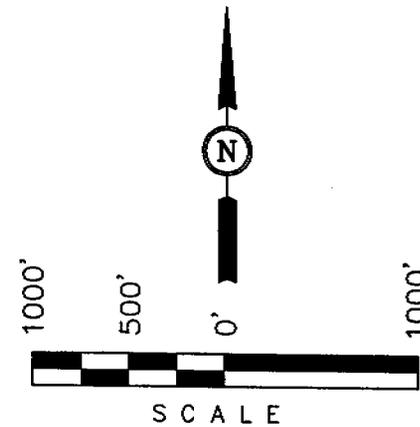
- └ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NATIONAL FUEL CORPORATION

Well Location, WESTWATER STATE #22-32,
located as shown in the SE 1/4 NW 1/4 of
Section 32, T16S, R24E, S.L.B.&M. Grand
County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION IN THE SW 1/4 OF SECTION 29, T16S,
R24E, S.L.B.&M. TAKEN FROM THE P.R. SPRING
QUADRANGLE, UTAH, 7.5 MINUTE SERIES (TOPOGRAPHICAL
MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF
THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION
IS MARKED AS BEING 7340 FEET.



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.

CERTIFICATE
REGISTERED LAND SURVEYOR
FOR THE STATE OF UTAH
No. 151319
DATE: 4-12-99
BY: *[Signature]*
REGISTERED LAND SURVEYOR
REGISTRATION NO. 151319
STATE OF UTAH

REV: 5-11-05 L.K.

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

SCALE 1" = 1000'	DATE SURVEYED: 4-12-99	DATE DRAWN: 4-14-99
PARTY D.A. B.B. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE NATIONAL FUEL CORPORATION	

DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: _____

LEASE NUMBER: ML - 21613

and hereby designates

NAME: NATIONAL FUEL CORPORATION

ADDRESS: 7979 EAST TUFTS AVENUE PARKWAY - SUITE 815

city DENVER state CO zip 80237

as his (check one) agent / operator , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)

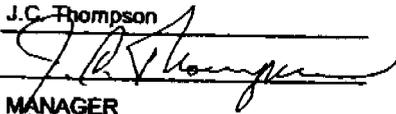
SE4NW4 SECTION 32, T16S, R24E, S.L.B. & M.
GRAND COUNTY, UTAH

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 07/15/2005

BY: (Name) J.C. Thompson
(Signature) 
(Title) MANAGER
(Phone) (303) 220-7772

OF: (Company) J.C. THOMPSON OPERATOR, LLC
(Address) 7979 E. TUFTS AVE.-STE. 815
city DENVER
state CO zip 80237

(5/2000)

AREA CODE 303
PHONE 220-7772

National Fuel Corporation

7979 EAST TUFTS AVENUE PARKWAY, SUITE 815
DENVER, COLORADO 80237-2843



FAX
220-7773

002

July 3rd, 2005

To: Utah Division of Oil Gas & Mining
P.O. Box 145801
Salt Lake City 84114-5801

Re: **REQUEST FOR EXCEPTION TO RULE R643-11**
National Fuel Corp. APD – Westwater State #22-32
Sec. 32-T16S-R24E , ML-21613(Westwater Area)
Uintah County, Utah

Dear Ms. Whitney:

This letter is sent to request an exception to Rule R649-3-11 for the subject well. National Fuel Corporation (NFC) chose the subsurface target from area well control data and believes that this location offers the best opportunity for a successful well. The severe topography in this area makes it uneconomic to build a location for a vertical well. In addition the proposed surface location will greatly minimize surface disturbance compared to building a location over the target.

National Fuel Corporation is not the only owner within a 460' radius of the planned wellbore. Approximately 100 feet to the east is the Horse Point Unit Participating Area "B". Attached is a map showing the unit boundary within the lease in addition to the surface and subsurface locations. NFC is the majority owner in this unit and has received consent from the other owners in this unit.

We believe the proposed location complies with other well location requirements and we respectfully request that our proposed exception to R649-3-11 be granted. Please feel free to call me at (970) 260-8128 if you have additional concerns or questions.

Yours truly,

Andrew Busch
Vice President
NATIONAL FUEL CORPORATION
Office(970)858-7490
Cell (970)260-8128
Email – abusch@national-fuel.com

National Fuel Corporation
Westwater State #22-32
A.P.D.
(confidential)

State of Utah, Division of Oil, Gas, and Mining
Application for Permit to Drill

Company: National Fuel Corporation Well No. Westwater State #22-32

Location: Sec. 32, T. 16S, R. 24E, Lease No. ML-21613

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM

<u>Surface Formation and Estimated Formation Tops:</u>	
Mesaverde	Surface
Castlegate	2591'
Mancos	2616'
Mancos "B"	3409'
Dakota Silt	6183'
Dakota	6338'
Cedar Mtn.	6403'
Morrison	6436'
Entrada	7009'
TD	7142'

1. Estimated Depth at Which Oil, Gas, Water or Other Mineral Bearing Zones are Expected to be Encountered

Formation

Expected Oil Zones: None

Expected Gas Zones: Dakota Silt, Dakota, Cedar Mtn, Morrison, Entrada

Expected Water Zones: None

Expected Mineral Zones: None

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 Utah DOGM. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment – See attached schematic

3. Casing Program and Auxiliary Equipment – include casing size, weight, grade, thread and coupling, setting depth and condition (new or acceptably reconditioned):

Conductor csg.-	New	17 1/2" 48# , H-40, ST&C,	150' to Surface
Surface csg.-	New	9 5/8" 36# , J-55, ST&C,	1000' to Surface
Production csg.-	New	4 1/2" , 11.6#, N-80,ST&C	7142' to Surface

4. Cement – include the cement type, density, yield, additives and amount used in setting each casing string. Also include the anticipated cement fill-up.:

13 3/8" csg. -	181sx Regular Class G cement,	1.15 cu ft/sk, 15.8 ppg,	150' to surface
9 5/8" csg. -	389 sx Regular Class G cement,	1.61 cu ft/sk, 14.2 ppg,	1300' to surface
4 1/2" csg. -	1496 sx in 2 stages, 50/50 poz w/0.25 PPS flocele,	1.26 cu ft/sk, 14.2 ppg	
	1 st stage 7142' to 4500', 2 nd stage 4500' to 1000'		

Conductor and surface casing will be cemented back to surface. Centralizers shall be run, at a minimum, on the bottom three joints of each casing string and across any potential gas producing zones. Stage tool depth at 4500'.

5. Mud Program and Circulating Medium – Production hole will be drilled with a DAP mud system. Sufficient mud materials will be stored on location to maintain well control and combat lost circulation problems that might reasonably be expected. Monitoring equipment will be installed on mud tanks to record tank levels, circulating rates and returns. Mud logging will begin at 3000'.
6. Coring, Logging and Testing Program: No DST or core anticipated. Logging program: GR-CNL-FDC & SP-GR-DIL open hole logs will be run from 1000' to 7142'. All good gas and/or oil shows will be tested when perforated through production csg.
Initial opening of drill stem test tools will be restricted to daylight hours.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards – include anticipated bottomhole pressure and/or pressure gradient. Also list anticipated lost circulation zones, abnormal temperature zones and possible hydrogen sulfide bearing zones: No abnormal conditions, pressures, temperatures or hazards are anticipated and are not common in this area. No H2S anticipated and does not exist in other wells in the area. Based on information from other wells in the area, max BHP not expected to exceed 2500#.

8. Any Other Aspects of this Proposal that should be Addressed:
- | | |
|--|-----------------|
| Anticipated time frames for: Construction and Drilling | - 20 to 25 days |
| Completion and Testing | - 10 to 15 days |

B. SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction. Surface disturbance and vehicular travel will be limited to the approved location and access road.

1. Existing Roads:

- a. See attached maps and plats from ULES.
- b. Location of proposed well in relation to town or other reference point: See attached maps and plats from ULES.
- c. Contact the County Road Department for use of county roads.
- d. Plans for improvement and/or maintenance of existing roads: Existing access road is in good condition.
- e. Other: _____

2. Planned Access Roads:

- a. Location (centerline): See map attached to survey plat.
- b. Length of new access to be constructed: 0.10 miles
- c. Length of existing roads to be upgraded: Existing road is in good condition and adequate for rig traffic.
- d. Maximum total disturbed width: 50 ft
- e. Maximum travel surface width: 18 ft
- f. Maximum grades: Not to exceed 10%.
- g. Turnouts: As needed.
- h. Surface materials: No off-site materials anticipated.
- i. Drainage (crowning, ditching, culverts, etc.): No drainage crossings will be needed for access route. Access road will be crowned and drainage ditches cut as necessary to provide adequate drainage.
- j. Cattleguards: None
- k. Length of new and/or existing roads which lie outside the lease or unit boundary for which a State right-of-way is required: None

Surface disturbance and vehicular travel will be limited to the approved location and access road. Any additional area needed must be approved by the Area Manager in advance.

3. Location of Production Facilities:

- a. On-site facilities: Wellhead, meter facilities, separator, dehydrator, production tank and fenced emergency water disposal pit. Details of needed facilities will be submitted if well is completed for production.
-
- b. Off-site facilities: None
- c. Pipelines: If gas production is established, a new gathering line will be laid along existing road to existing gathering system to the south east of proposed location. See attached pipeline map.

All permanent (in place for six months or longer) structures 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 on installation.

All site security guidelines identified in 43 CFR § 3162.7-5 and Onshore Oil and Gas Order No. 3 shall be followed.

If a gas meter run is constructed, it will be located on lease 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 provisions of 43 CFR § 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.

If a tank battery is constructed on this lease, it will be surrounded by a berm of sufficient capacity to contain 1 ½ 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.

Production facilities on location may include a lined or unlined produced water pit.

4. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from (describe location and/or show on a map): Water for drilling and completion operations will be purchased from rancher Lee Elmgreen and taken from a stream on his property located in Middle Canyon. See attached map showing water source location.

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

5. Source of Construction Material:

Pad construction material will be obtained from (if the source is Federally owned, show location on a map): Native materials. All on site.

The reserve pit shall be located in cut material with at least 50% of the pit volume being below original ground level. Pit will be lined to prevent leaching of drilling fluids. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. As soon as the reserve pit has dried, all areas not needed for production will be rehabilitated.

Trash must be contained in a trash cage and hauled away to an approved disposal site as necessary, but no later than at the completion of drilling operations.

Sewage will be contained in approved containers and disposed of at an approved disposal site.

6. Ancillary Facilities: None required. Anticipate up to 4 living trailers for rig personnel during drilling and completion.

7. Well Site Layout – depict the pit, rig, cut and fill, topsoil, etc., on a plat with a scale of at least 1" = 50'. See ULES plat.

The blooie line will be located at least 100 feet from the well head.

To minimize the amount of fugitive dust and spray escaping from the blooie pit, the following blooie line deflection method will be employed: Blooie line will be directed into the base of the dirt embankment surrounding the blooie pit.

8. Plans for Restoration of the Surface:

The top 5 inches of topsoil material will be removed from the location and stockpiled separately on: The north end of location. See survey plat.

Immediately upon completion of drilling, all equipment that is not necessary for production shall be removed.

The reserve pit and that portion of the location not needed for production will be reclaimed.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry.

All road surfacing will be removed prior to the rehabilitation of roads.

Reclaimed roads will have the berms and cuts reduced and will be closed to vehicle use.

All disturbed areas will be recontoured to replicate the natural slope.

The stockpiled topsoil will be evenly distributed over the disturbed area.

Prior to reseeded, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

Seed will be broadcast or drilled between Sept 1st and Dec 31st, or at a time specified by the State of Utah. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used: As specified by State.

The abandonment marker will be one of the following, as specified by the State:

- 1) at restored ground level, or
- 2) below ground level.

In any case, the marker shall be inscribed with the following: operator name, lease number, well name and surveyed description (township, range, section and either quarter-quarter or footages).

9. Surface and Mineral Ownership: State surface and mineral ownership.

10. Other Information:

a. Archeological Concerns: A cultural and archeological survey has been performed on the new well site and access road to location. Results are attached for review.

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) 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 an expedited review under 36 CFR § 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the AO are correct and that mitigation is appropriate.

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

- b. Threatened and Endangered Species Concerns: None

- c. Wildlife Seasonal Restrictions (yes/no): As specified by State of Utah.

- d. Off Location Geophysical Testing: None

- e. Drainage crossings that require additional State or Federal approval: None

11. Lessee's or Operator's Representative and Certification

Representative:

Name: Andrew W. Busch, Fruita Office (970)858-7490, Cell (970) 260-8128

Title: V.P. of Operations

Address: 7979 East Tufts Avenue Parkway #815
Denver, Co. 80237

Phone Number: Denver office (303)220-7772

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by National Fuel Corporation and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Utah Statewide Blanket Drilling Bond no. 04127314.

Andrew Busch

Signature

Vice President of Operations

Title

June 30th, 2005

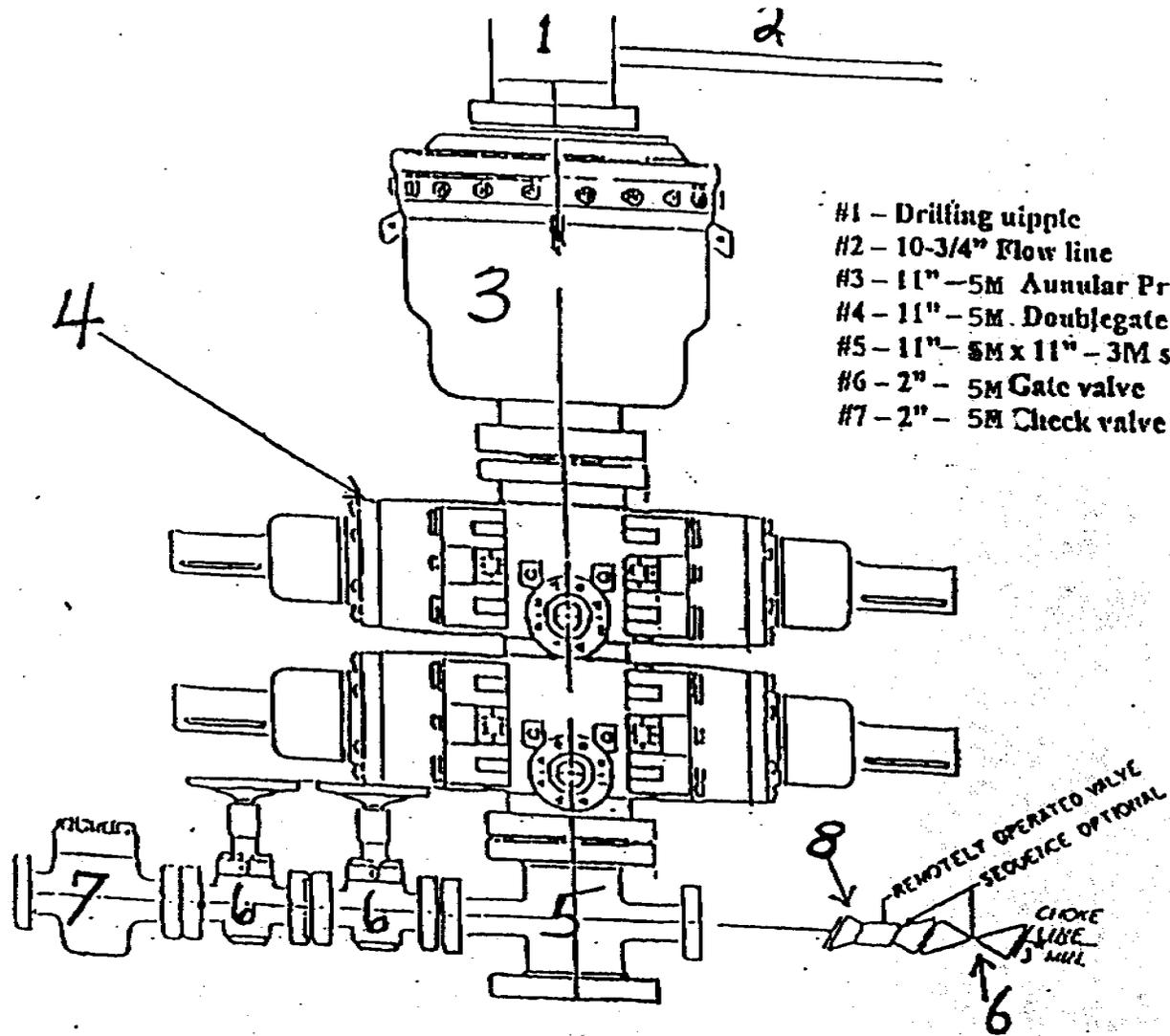
Date

The Operator's Minimum Specifications for Pressure Control

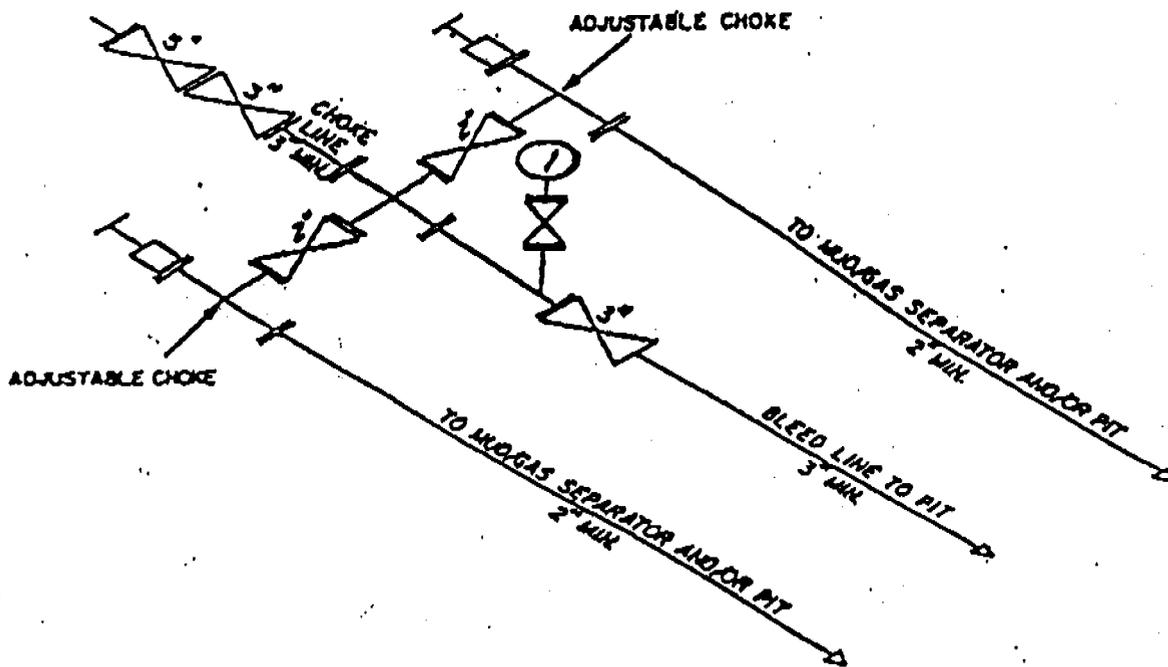
EXHIBIT are schematic diagrams of the blowout preventer equipment. A 5000# blowout preventer will be installed, used, maintained and tested in accordance with all requirements specified in Section III.A-1 of Onshore Order 2, except where variations are presented in this application.

Minimum standards outlined in Onshore Order 2 will be met for BOP, choke, manifold, accumulator, and locking devices. Hydraulic controls will be located on the rig floor. Manual controls will be handwheels. Remote control for the accumulator will be 100'-200' from the drill hole. The kill line will not be used as a fill-up line.

Ram type preventers and associated equipment (choke manifold, kelly cocks, etc.) shall be pressure tested to 100% of their rated working pressure for a period of 10 minutes. Annular preventers shall be tested to 50% of their rated working pressure for a period of 10 minutes. Tests will be run after initial installation, prior to drilling out of each casing shoe and after use under pressure, or a minimum of once every 30 days. Pipe rams will be operationally checked each 24 hour period, as will blind rams and annular preventer each time pipe is pulled out of the hole. Annular preventers will be functionally operated at least weekly. Such checks of BOPE will be noted on daily drilling reports.



11" - 5M Doublegate with Annular Preventer



② 5M CHOKE MANIFOLD EQUIPMENT -- CONFIGURATION OF CHOSES MAY VARY

J.C. THOMPSON OPERATOR, LLC
7979 EAST TUFTS AVENUE PARKWAY, #815
DENVER, COLORADO 80237-2843

June 6, 2005

RE: REQUEST FOR CONSENT TO DRILL EXCEPTION LOCATION
T16S, R24E, SLB & M
SE¼ NW¼ SECTION 32
GRAND COUNTY, UTAH

Dear Working Interest Owner:

This letter is written to seek your consent to obtain an Authorization for Permit to Drill (APD) for a new well in the above-referenced location. Due to difficult terrain, it is not possible to drill a vertical wellbore; therefore, we seek your consent to drill directionally to a sub-surface target at an estimated depth of 6,400 feet located 1,200' from the north line (FNL) and 1,200' from the west line (FWL) of Section 32. The surface location is 2,534' FNL and 2,583' FWL.

Because the spud location and part of the wellbore trajectory fall within a 460' radius of the Horse Point Unit Participating Area B line in the E½ of Section 32 *and* you are an owner in the lease in general, Utah Division of Oil, Gas & Mining administrative rules require the written consent of a majority of the owners to directionally drill.

Please indicate your consent by signing in the space provided on the next page. A pre-paid return envelope is enclosed for your convenience. If the APD is approved, you will be offered the opportunity to participate or to farmout your interest. An Authorization for Expenditure (AFE) will follow as soon as it is finalized. Thank you in advance for your prompt consideration of this matter.

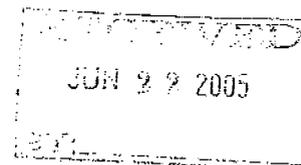
Very truly yours,
J. C. THOMPSON OPERATOR, LLC

J. C. Thompson (by DR)

Enclosure

	Working Interest <u>Decimal</u>	<u>Consent</u>	<u>Non-Consent</u>
<u><i>Teresa T. Bou-Matar</i></u> Teresa T. Bou-Matar	0.082394100	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>George E. Cranmer Trust A</u>	0.008356500	<input type="checkbox"/>	<input type="checkbox"/>
<u>S. McLaughlin, Trust B</u>	0.008356500	<input type="checkbox"/>	<input type="checkbox"/>
<u>McLaughlin-F. Cranmer Trust C</u>	0.008356400	<input type="checkbox"/>	<input type="checkbox"/>
<u>Mulliner Prince & Mangum</u>	0.010037700	<input type="checkbox"/>	<input type="checkbox"/>
<u>Jacqueline B. W. Riddell (suspense)</u>	0.001195900	<input type="checkbox"/>	<input type="checkbox"/>
<u>Diane Thompson</u>	0.082394100	<input type="checkbox"/>	<input type="checkbox"/>
<u>National Fuel Corporation</u>	0.554909800	<input type="checkbox"/>	<input type="checkbox"/>
<u>The Student Conservation Assn.</u>	0.020075400	<input type="checkbox"/>	<input type="checkbox"/>
<u>Andrew W. Busch</u>	0.008871800	<input type="checkbox"/>	<input type="checkbox"/>
<u>Mark F. Thompson</u>	0.082394200	<input type="checkbox"/>	<input type="checkbox"/>
<u>Thomas Cranmer, Trustee</u>	0.010037700	<input type="checkbox"/>	<input type="checkbox"/>
<u>Joan Bozman Tidwell (suspense)</u>	0.008755966	<input type="checkbox"/>	<input type="checkbox"/>
<u>Barbara Bozman-Moss</u>	0.008755967	<input type="checkbox"/>	<input type="checkbox"/>
<u>Mary Katherine Bozman</u>	0.008755967	<input type="checkbox"/>	<input type="checkbox"/>
<u>Judith E. Anderson</u>	<u>0.096352000</u>	<input type="checkbox"/>	<input type="checkbox"/>
	1.000000000		

REQUEST FOR CONSENT TO DRILL EXCEPTION LOCATION
6/6/2005



	<u>Working Interest Decimal</u>	<u>Consent</u>	<u>Non-Consent</u>
Teresa T. Bou-Matar	0.082394100	_____	_____
George E. Cranmer Trust A	0.008356500	<i>George E. Cranmer Trustee</i>	_____
S. McLaughlin, Trust B	0.008356500	_____	_____
McLaughlin-F. Cranmer Trust C	0.008356400	_____	_____
Mulliner Prince & Mangum	0.010037700	_____	_____
Jacqueline B. W. Riddell (suspense)	0.001195900	_____	_____
Diane Thompson	0.082394100	_____	_____
National Fuel Corporation	0.554909800	_____	_____
The Student Conservation Assn.	0.020075400	_____	_____
Andrew W. Busch	0.008871800	_____	_____
Mark F. Thompson	0.082394200	_____	_____
Thomas Cranmer, Trustee	0.010037700	_____	_____
Joan Bozman Tidwell (suspense)	0.008755966	_____	_____
Barbara Bozman-Moss	0.008755967	_____	_____
Mary Katherine Bozman	0.008755967	_____	_____
Judith E. Anderson	<u>0.096352000</u>	_____	_____
	1.000000000		

REQUEST FOR CONSENT TO DRILL EXCEPTION LOCATION
6/6/2005

	<u>Working Interest Decimal</u>	<u>Consent</u>	<u>Non-Consent</u>
Teresa T. Bou-Matar	0.082394100	_____	_____
George E. Cranmer Trust A	0.008356500	_____	_____
McLaughlin - Trust B S. McLaughlin, Trust B	0.008356500	_____✓	_____
McLaughlin - F. Cranmer Trust C McLaughlin-F. Cranmer Trust C	0.008356400	_____✓	_____
Mulliner Prince & Mangum	0.010037700	_____	_____
Jacqueline B. W. Riddell (suspense)	0.001195900	_____	_____
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Thomas Cranmer, Trustee	0.010037700	_____	_____
Joan Bozman Tidwell (suspense)	0.008755966	_____	_____
Barbara Bozman-Moss	0.008755967	_____	_____
Mary Katherine Bozman	0.008755967	_____	_____
Judith E. Anderson	0.096352000	_____	_____
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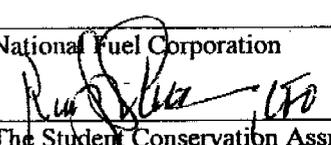
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McLaughlin-F. Cranmer Trust C	0.008356400	_____	_____
<i>Teresa Bou-Matar</i> Mulliner Prince & Mangum	0.010037700	<u>X</u>	_____
Jacqueline B. W. Riddell (suspense)	0.001195900	_____	_____
Diane Thompson	0.082394100	_____	_____
National Fuel Corporation	0.554909800	_____	_____
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<u>Mulliner Prince & Mangum</u>	0.010037700	_____	_____
<u>Jacqueline B. W. Riddell (suspense)</u>	0.001195900	_____	_____
<u><i>Diane Thompson</i></u> Diane Thompson	0.082394100	_____✓	_____
<u>National Fuel Corporation</u>	0.554909800	_____	_____
<u>The Student Conservation Assn.</u>	0.020075400	_____	_____
<u>Andrew W. Busch</u>	0.008871800	_____	_____
<u>Mark F. Thompson</u>	0.082394200	_____	_____
<u>Thomas Cranmer, Trustee</u>	0.010037700	_____	_____
<u>Joan Bozman Tidwell (suspense)</u>	0.008755966	_____	_____
<u>Barbara Bozman-Moss</u>	0.008755967	_____	_____
<u>Mary Katherine Bozman</u>	0.008755967	_____	_____
<u>Judith E. Anderson</u>	<u>0.096352000</u>	_____	_____
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Mulliner Prince & Mangum	0.010037700	_____	_____
Jacqueline B. W. Riddell (suspense)	0.001195900	_____	_____
Diane Thompson	0.082394100	_____	_____
<i>Diane Thompson, President</i> National Fuel Corporation	0.554909800	<input checked="" type="checkbox"/>	_____
The Student Conservation Assn.	0.020075400	_____	_____
Andrew W. Busch	0.008871800	_____	_____
Mark F. Thompson	0.082394200	_____	_____
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Mary Katherine Bozman	0.008755967	_____	_____
Judith E. Anderson	<u>0.096352000</u>	_____	_____
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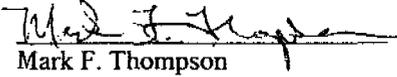
REQUEST FOR CONSENT TO DRILL EXCEPTION LOCATION
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Judith E. Anderson	<u>0.096352000</u>	_____	_____
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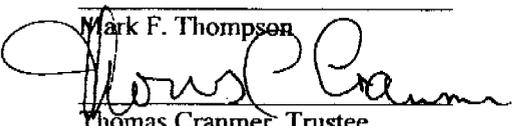
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<u>The Student Conservation Assn.</u>	0.020075400	_____	_____
<u><i>Andrew W. Busch</i></u> Andrew W. Busch	0.008871800	_____✓	_____
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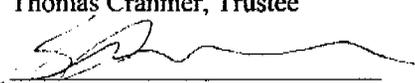
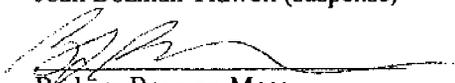
REQUEST FOR CONSENT TO DRILL EXCEPTION LOCATION
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<i>Mary Katherine Bozman</i> Mary Katherine Bozman	0.008755967	<u>X</u>	_____
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Mary Katherine Bozman	0.008755967	_____	_____
<i>Judith E. Anderson</i> Judith E. Anderson	0.096352000	_____✓	_____
	1.000000000		

UTAH STATE COVER PAGE

Must Accompany All Project Reports
Submitted to Utah SHPO

Project Name: Class III cultural resources inventory for the proposed State Duncan #14-28, Horse Point State #11-6, and the Westwater State #22-32 well locations, and related new and to-be-upgraded access routes in Uintah and Grand Counties, Utah, for National Fuel Corporation

State Proj. No. **U05-GB-0469s**

Report Date: **30 May 2005**

County(ies): **Uintah and Grand**

Principal Investigator: **Carl E. Conner**

Field Supervisor(s): **Carl E. Conner**

Records search completed at: **UDSH**

Record search date(s): **05/24/2005**

Acres Surveyed ~ Intensive: **37 acres**

Recon/Intuitive: **0 acres**

7.5' Series USGS Map Reference(s): **Dry Canyon and PR Spring 1970**

Sites Reported	Count	Smithsonian Site Numbers
Archaeological Sites Revisits (no inventory form update)	0	
Revisits (updated IMACS site inventory form attached)	0	
New recordings (IMACS site inventory form attached)	0	
Total Count of Archaeological Sites	0	
Historic Structures (USHS 106 site info form attached)	0	
Total National Register Eligible Sites	0	

Checklist of Required Items

- Copy of the Final Report
- Copy of 7.5' Series USGS Map with Surveyed/Excavated Area Clearly Identified.
- Completed IMACS Site Inventory Forms, Including
 Parts A and B or C, The IMACS Encoding Form,
 Site Sketch Map, Photographs
 Copy of the appropriate 7.5' Series USGS Map w/ the Site Location Clearly Marked and Labeled with the Smithsonian Site Number
- Completed "Cover Sheet" Accompanying Final Report and Survey Materials (Please make certain all of your checked items are attached.)

**Class III Cultural Resource Inventory Report
on the
Proposed State Duncan #14-28, Horse Point State #11-6, and the
Westwater State #22-32 Well Locations,
and Related New and To-Be-Upgraded Access Routes on
State Lands in Uintah and Grand Counties, Utah
for
National Fuel Corporation**

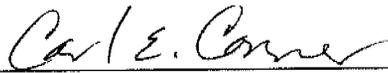
Declaration of Negative Findings

GRI Project No. 2527

30 May 2005

Prepared by

Grand River Institute
P.O. Box 3543
Grand Junction, Colorado 81502
UDSH Project Authorization No. U05-GB-0469s



Carl E. Conner, Principal Investigator

Submitted to

Preservation Office
Utah Division of State History
300 Rio Grande
Salt Lake City, Utah 84101

School and Institutional
Trust Lands Administration
675 East 500 South, Suite 500
Salt Lake City, Utah 84102-2818

Abstract

Grand River Institute conducted a Class III cultural resources inventory for the proposed State Duncan #14-28, Horse Point State #11-6, and the Westwater State #22-32 well locations, and related new and to-be-upgraded access routes in Uintah and Grand Counties, Utah, for National Fuel Corporation under Utah Division of State History (UDSH) Project Authorization No. U05-GB-0469s. This work was done to meet requirements of State law that protect cultural resources. A files search conducted through the Preservation Office UDSH on 24 May 2005 indicated no sites were previously recorded in the study area. Field work was performed on 26 May 2005. A total of about 37 acres of Utah State Lands was inspected. No cultural or paleontological resources were encountered and clearance is recommended.

Table of Contents

Introduction	1
Location of Project Area	1
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Table 1. List of previous cultural resource surveys	5

Introduction

At the request of National Fuel Corporation, a Class III cultural resources inventory for the proposed State Duncan #14-28, Horse Point State #11-6, and the Westwater State #22-32 well locations, and related new and to-be-upgraded access routes in Uintah and Grand Counties, Utah, for National Fuel Corporation under Utah Division of State History (UDSH) Project Authorization No. U05-GB-0469s. A files search conducted through the Preservation Office UDSH on 24 May 2005 indicated no sites were previously recorded in the study area. Field work was performed on 26 May 2005. A total of about 37 acres of Utah State Lands was inspected. Carl E. Conner was Principal Investigator and Field Supervisor. He was assisted by Nicole Darnell and Jim Conner.

The survey was done to meet requirements of State law concerned with the identification, evaluation, and protection of fragile, non-renewable evidences of human activity, occupation and endeavor reflected in districts, sites, structures, artifacts, objects, ruins, works of art, architecture, and natural features that were of importance in human events. Such resources tend to be localized and highly sensitive to disturbance.

Location of Project Area

The study area lies in the Roan Plateau in Uintah and Grand Counties, Utah. The study areas are located in T. 15 S., R. 23 E., Section 28; T. 16 S., R. 24 E., Sections 6 and 32; SLBM (Figure1).

Environment

The project area is within the major geologic subdivision of the Colorado Plateau known as the Uinta Basin Section. In Utah, this section extends from the Uinta Mountains on the north to the Book Cliffs on the south. It is a broad downwarp into which Quaternary- and Tertiary-age deposits were made from the surrounding mountains which include Holocene and Pleistocene pediment deposits, and Eocene-age fluvial and lacustrine sedimentary rocks (Rigby 1976:xi). Physiographically, the basin includes the Uinta basin in the northern portion and the Book Cliffs/Roan Plateau in the south portion. The study area occurs in the latter and the Wasatch Formation forms the bedrock. Rocky, sandy loams formed in residuum cover the bedrock on the ridgetop.

Elevation in the project area averages 7280 to 8100 feet. The terrain is characterized as narrow ridgetops and slopes covered in Transitional Zone oakbrush, sagebrush, serviceberry and grasses, and in areas pinyon/juniper forest. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptors.

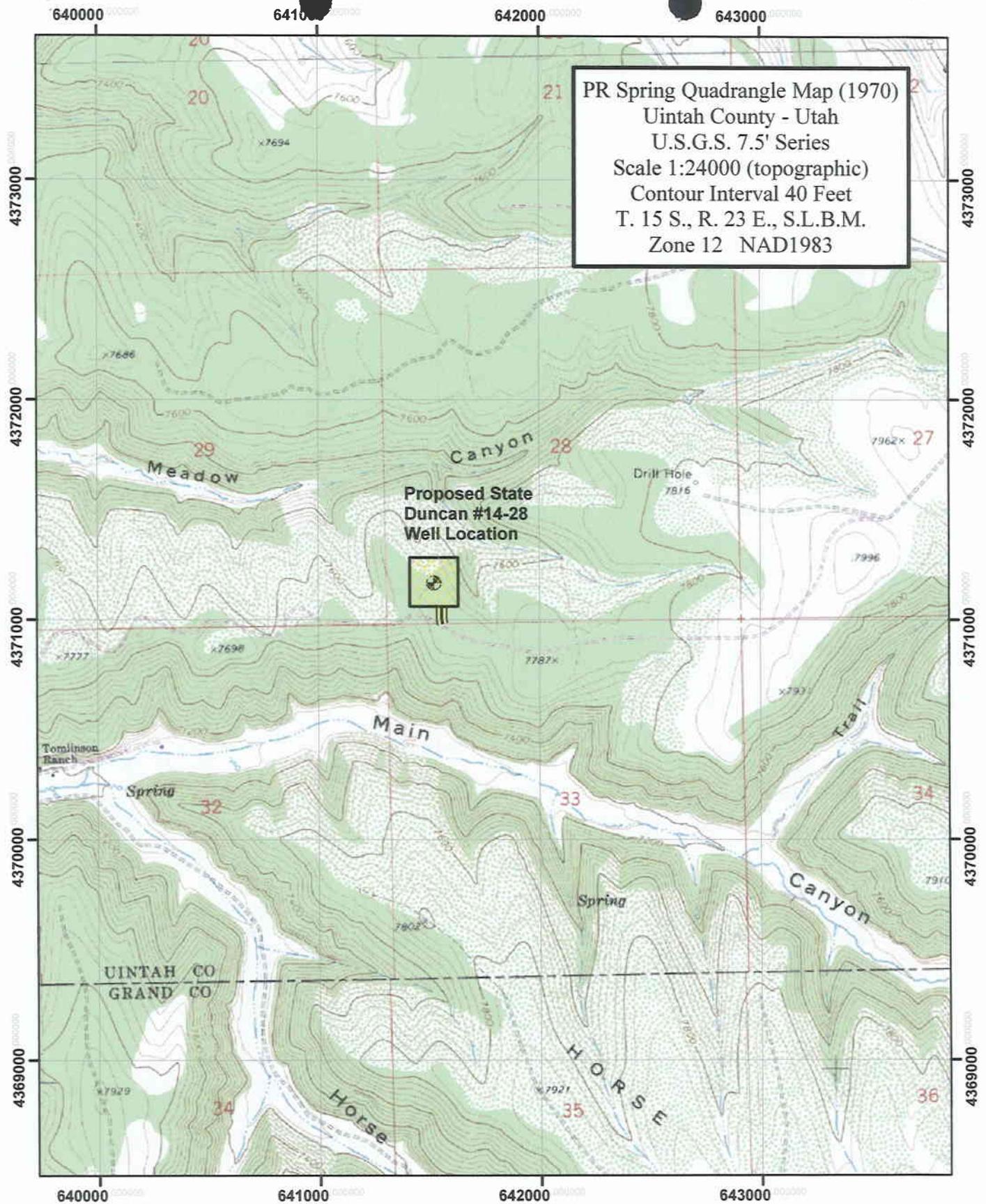


Figure 1. Project location map (1 of 3) for the Class III cultural resources inventory report for three proposed State well locations and related short accesses in Grand and Uintah Counties, Utah for National Fuels Corporation. Area surveyed is highlighted. [GRI Project No. 2527, 5/30/05]

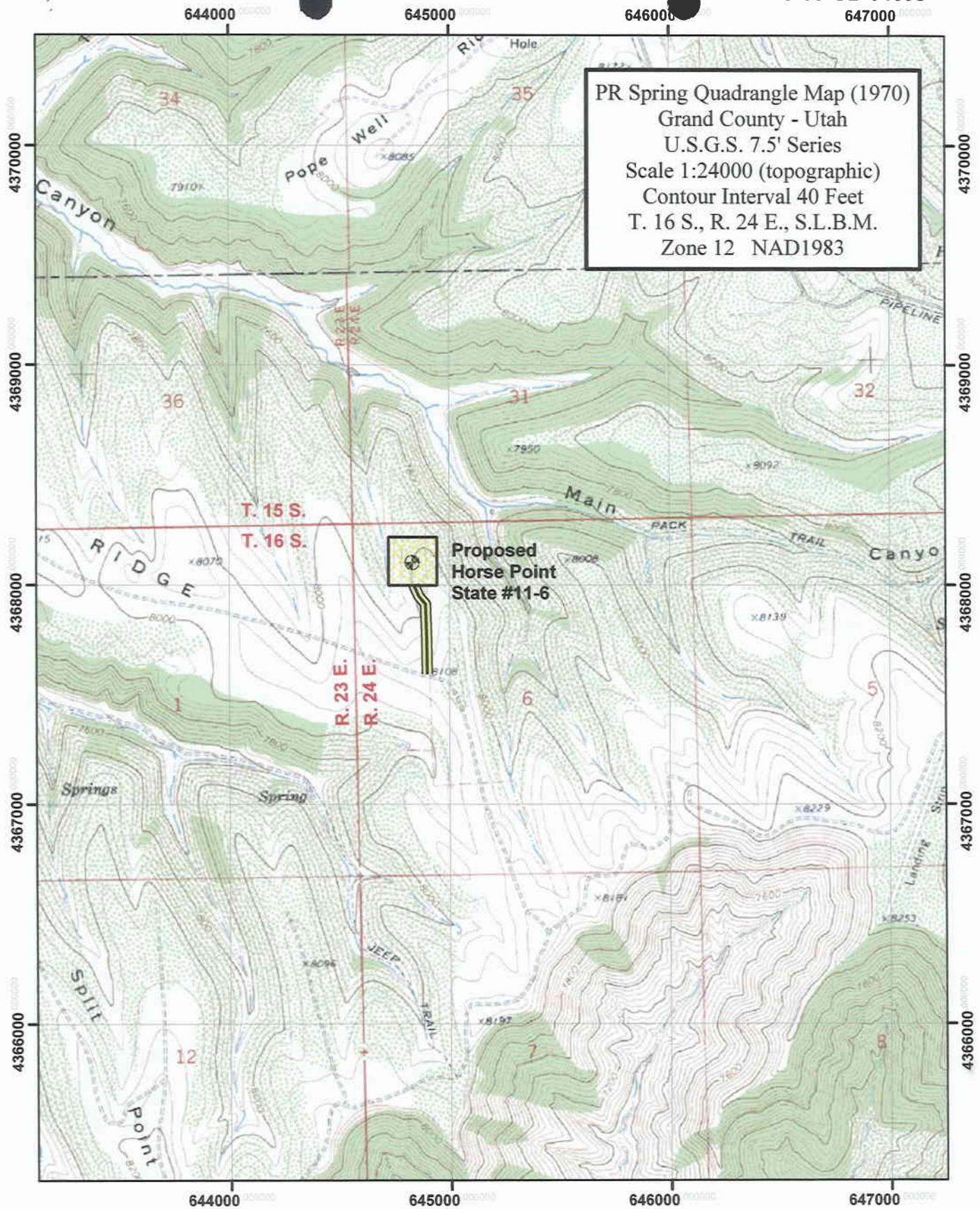


Figure 2. Project location map (2 of 3) for the Class III cultural resources inventory report for three proposed State well locations and related short accesses in Grand and Uintah Counties, Utah for National Fuels Corporation. Area surveyed is highlighted. [GRI Project No. 2527, 5/30/05]

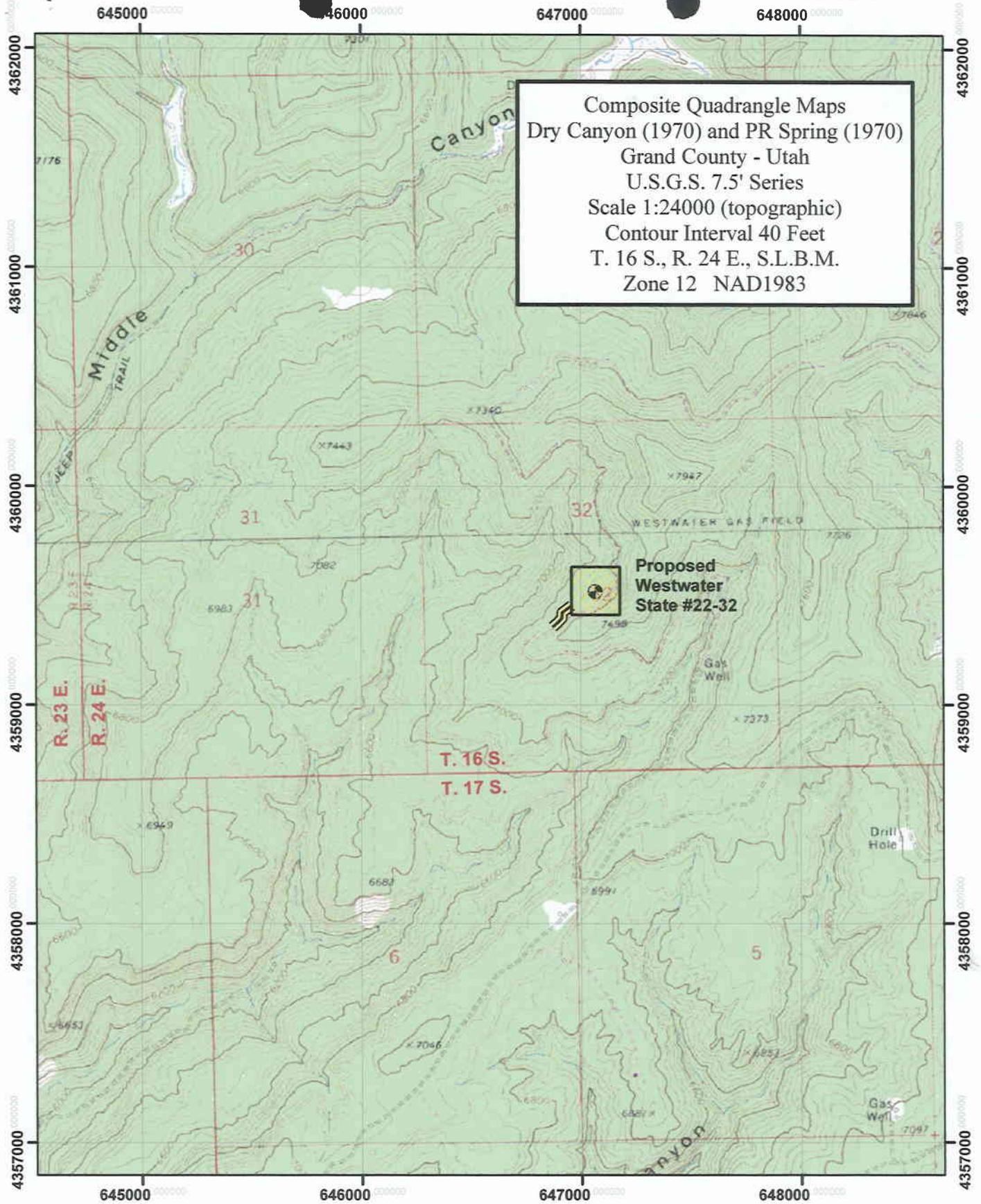


Figure 3. Project location map (3 of 3) for the Class III cultural resources inventory report for three proposed State well locations and related short accesses in Grand and Uintah Counties, Utah for National Fuels Corporation. Area surveyed is highlighted. [GRI Project No. 2527, 5/30/05]

A cool, mid-latitude steppe climate prevails. Annual precipitation of this elevation range is between 14 and 18 inches. Temperatures can reach 95°F in mid-summer and -20°F in January. Paleoenvironmental data are scant, but it is generally agreed that gross climatic conditions have remained fairly constant over the last 12,000 years. However, changes in effective moisture, and cooling-warming trends probably affected the prehistoric occupation of the region.

Files Search

Regional archaeological studies suggest nearly continuous human occupation of northeastern Utah for the past 12,000 years. Evidence of the Paleoindian Tradition, the Archaic Tradition, Fremont Culture, and Protohistoric/Historic Utes has been found. Historic records suggest occupation or use by EuroAmerican trappers, settlers, miners, and ranchers as well. Overviews of the prehistory and history of the region are provided in the Utah BLM Cultural Resource Series No. 5, Sample Inventories of Oil and Gas Fields in Eastern Utah (Nickens and Larralde 1980) and in Cultural Resources Existing Data Inventory Vernal District, Utah (Jones and Mackay 1980).

A files search conducted through the Preservation Office UDSH on 24 May 2005 indicated no sites were previously recorded in the study areas. Twelve energy related projects have been conducted within a mile of the present study areas (Table 1). The only significant cultural resource recorded within a mile of the discrete project areas is a prehistoric rock art site (42UN3145 recorded as part of project U-02-NU-0340b,s) in the bottom Main Canyon, which is well outside of the present project area.

Table 1. List of previous cultural resource surveys within one mile of the study area.

Report Number	Project
U04-GB-0472s,p	Class III cultural resources inventory for the proposed Horse Point State #43-32 well location, a short new pipeline route, and new and to-be-upgraded access routes in Uintah and Grand Counties, Utah (Conner 6/9/04)
U-03-AY-0911s	EOG Resources Inc.; Trail Canyon #2-34: A Cultural Resource Inventory for a well pad, and its access and pipeline, Grand County, Utah (Truesdale, 12/1/2003)
U-03-MQ-0753b	CRI of Trigon-Sheehan's Winter Ridge/Wolf Point Six Mile Pipeline in Grand County, Utah (Nicholson and Montgomery 2003)

U-02-NU-0340b,s	Class III Cultural Resource Inventory on the Western Geco Horse Point 3D Seismic Grid, Uintah and Grand Counties, Utah (Frizzell et al., 9/18/2002)
U-01-MQ-0289b,p,s	Cultural Resource Inventory of Well Locations Fence Canyon Delambert #30-2, Fence Canyon #31-2 and Fence Canyon #32-2, Uintah County, Utah (Montgomery, 6/02/2001)
U-01-MQ-0531s	Cultural Resource Inventories of Well Locations Fence Canyon #21-2, #29-2, #32-2 and #33-4, Grand and Uintah Counties, Utah (Montgomery, 8/17/2001)
U-01-MQ-0721b,s	Cultural Resource Inventory of Louis Dreyfus Natural Gas Corporation's Fence Canyon #32-2 Pipeline, Uintah County, Utah (Montgomery, 10/29/2001)
U-85-MM-0431s	PR Springs Tar Sands Exploration Project (24 drill holes) for Mobile Alternative Energy, Inc. in Grand and Uintah Counties, Utah (Metcalf, 6/25/1985)
81-NH-0642b	Three Drill Pads on Seep Ridge for Texas Oil and Gas Corp., in Uintah County, Utah (Nickens, 7/23/1981)
83-NJ-0231	An Archaeological Survey of Three Seismic Lines in the Book Cliffs Section of Utah (Lee 8/8/1983)
81-GA-0419	Archaeological Survey of Northwest Pipeline Corporation's Lateral A-45, R/W #'s 79458, 81775, 81797 in Grand County, Utah (Babcock and Kimsey 1981)
81-GC-0313	Coseka Well #2-31-16-24 and Access (Kranzush 1981)

Study Objectives

The purpose of the study was to identify and record all cultural resources within the area of potential impact and to assess their significance and eligibility to the National Register of Historic Places (NRHP). Paleontological resources were also considered in the inspection. However, a final evaluation of those resources must be provided by a paleontologist permitted by the State of Utah.

Field Methods

Class III. 100% pedestrian, cultural resources surveys of the proposed well locations were made by a two-person crew walking a series of concentric circles around the flagged centers to diameters of 750 feet. The related new and to-be-upgraded access routes (2080 feet) were inspected by walking a series of parallel transects along both sides of the flagged centerline spaced at 10-meter intervals to cover a 150 foot-wide swath. A total of about 37 acres (30 block/7 linear) was intensively surveyed.

Cultural resources were sought as surface exposures and were characterized as sites or isolated finds. Sites were defined by the presence of six or more artifacts and/or significant features indicative of patterned human activity. Isolated finds were defined by the presence of a single artifact or several artifacts, which apparently represent a single event (e.g., a single core reduction, or small historic can cluster), and is surficial in nature. Artifacts were to be pin-flagged to establish site boundaries, sketch maps were to be drawn (using a Garmin GPS V unit), and photographs were to be taken. Cultural resources encountered were to be recorded to standards set by the Preservation Office of the Utah Division of State History. None were found.

Study Findings and Management Recommendations

As expected, no cultural or paleontological resources were encountered during the survey. Accordingly, cultural resource clearance is recommended.

References

Jones, Kevin T. and K.L. Mackay

1980 Cultural Resources Existing Data Inventory Vernal District, Utah. Report of Investigations 80-18, University of Utah, Salt Lake City.

Nickens, Paul R. and Signa L. Larralde

1980 Sample Inventories of Oil and Gas Fields in Eastern Utah. Utah BLM Cultural Resource Series No. 5. Bureau of Land Management, Salt Lake City.

Rigby, J. Keith

1976 Northern Colorado Plateau. Kendall/Hunt Publishing Company. Dubuque.



PROPOSAL

FOR



WESTWATER STATE #22-32

FROM SURFACE LOCATION:

GRAND COUNTY, UTAH

WELL FILE: DRAFT

June 30, 2005

PRECISION ENERGY SERVICES USA, INC.
DRILLING & EVALUATION
7090 Barton Drive
Casper, Wyoming 82604
Phone: (307) 577-8875 Fax: (307) 577-9182

PRECISION ENERGY SERVICES

Client : NATIONAL FUEL CORPORATION
 Well Name : WESTWATER STATE #22-32
 Location : GRAND COUNTY, UTAH

Page : 1 of 3
 Date : 6/30/2005
 File : DRAFT

Gr Elevation : 7326.00
Vertical Section Calculated Along Azimuth 313.83°
All Bearings Are Along True North

MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
9 5/8" CASING POINT									
1000.00	0.00	313.83	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP BUILD 2.50°/100'									
1100.00	0.00	313.83	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	2.50	313.83	1199.97	1.51	-1.57	2.18	2.50	2.50	0.00
1300.00	5.00	313.83	1299.75	6.04	-6.29	8.72	2.50	2.50	0.00
1400.00	7.50	313.83	1399.14	13.58	-14.14	19.61	2.50	2.50	0.00
1500.00	10.00	313.83	1497.97	24.11	-25.12	34.82	2.50	2.50	0.00
1600.00	12.50	313.83	1596.04	37.62	-39.19	54.33	2.50	2.50	0.00
1700.00	15.00	313.83	1693.17	54.08	-56.34	78.09	2.50	2.50	0.00
1800.00	17.50	313.83	1789.17	73.46	-76.52	106.07	2.50	2.50	0.00
1900.00	20.00	313.83	1883.85	95.72	-99.71	138.21	2.50	2.50	0.00
2000.00	22.50	313.83	1977.05	120.81	-125.85	174.46	2.50	2.50	0.00
2100.00	25.00	313.83	2068.57	148.70	-154.90	214.73	2.50	2.50	0.00
HOLD 26.33° INC									
2153.30	26.33	313.83	2116.61	164.69	-171.56	237.81	2.50	2.50	0.00
2200.00	26.33	313.83	2158.46	179.04	-186.50	258.53	0.00	0.00	0.00
2300.00	26.33	313.83	2248.09	209.76	-218.50	302.89	0.00	0.00	0.00
2400.00	26.33	313.83	2337.71	240.48	-250.50	347.24	0.00	0.00	0.00
2500.00	26.33	313.83	2427.33	271.19	-282.50	391.60	0.00	0.00	0.00
2600.00	26.33	313.83	2516.96	301.91	-314.50	435.96	0.00	0.00	0.00
CASTLEGATE									
2682.61	26.33	313.83	2591.00	327.29	-340.93	472.61	0.00	0.00	0.00
2700.00	26.33	313.83	2606.58	332.63	-346.50	480.32	0.00	0.00	0.00
MANCOS									
2710.51	26.33	313.83	2616.00	335.86	-349.86	484.98	0.00	0.00	0.00
2800.00	26.33	313.83	2696.20	363.35	-378.50	524.67	0.00	0.00	0.00
2900.00	26.33	313.83	2785.83	394.07	-410.50	569.03	0.00	0.00	0.00
3000.00	26.33	313.83	2875.45	424.79	-442.50	613.39	0.00	0.00	0.00
3100.00	26.33	313.83	2965.08	455.51	-474.49	657.75	0.00	0.00	0.00
3200.00	26.33	313.83	3054.70	486.23	-506.49	702.11	0.00	0.00	0.00
3300.00	26.33	313.83	3144.32	516.95	-538.49	746.46	0.00	0.00	0.00
3400.00	26.33	313.83	3233.95	547.67	-570.49	790.82	0.00	0.00	0.00
3500.00	26.33	313.83	3323.57	578.38	-602.49	835.18	0.00	0.00	0.00
MANCOS "B"									
3595.32	26.33	313.83	3409.00	607.67	-633.00	877.46	0.00	0.00	0.00
3600.00	26.33	313.83	3413.19	609.10	-634.49	879.54	0.00	0.00	0.00
3700.00	26.33	313.83	3502.82	639.82	-666.49	923.90	0.00	0.00	0.00
3800.00	26.33	313.83	3592.44	670.54	-698.49	968.25	0.00	0.00	0.00
3900.00	26.33	313.83	3682.06	701.26	-730.49	1012.61	0.00	0.00	0.00

PRECISION ENERGY SERVICES

Client : NATIONAL FUEL CORPORATION
 Well Name : WESTWATER STATE #22-32
 Location : GRAND COUNTY, UTAH

Page : 2 of 3
 Date : 6/30/2005
 File : DRAFT

Gr Elevation : 7326.00
Vertical Section Calculated Along Azimuth 313.83°
All Bearings Are Along True North

MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
4000.00	26.33	313.83	3771.69	731.98	-762.49	1056.97	0.00	0.00	0.00
4100.00	26.33	313.83	3861.31	762.70	-794.49	1101.33	0.00	0.00	0.00
4200.00	26.33	313.83	3950.93	793.42	-826.49	1145.69	0.00	0.00	0.00
4300.00	26.33	313.83	4040.56	824.14	-858.49	1190.04	0.00	0.00	0.00
4400.00	26.33	313.83	4130.18	854.86	-890.49	1234.40	0.00	0.00	0.00
4500.00	26.33	313.83	4219.80	885.58	-922.49	1278.76	0.00	0.00	0.00
4600.00	26.33	313.83	4309.43	916.29	-954.49	1323.12	0.00	0.00	0.00
4700.00	26.33	313.83	4399.05	947.01	-986.49	1367.48	0.00	0.00	0.00
4800.00	26.33	313.83	4488.67	977.73	-1018.49	1411.83	0.00	0.00	0.00
4900.00	26.33	313.83	4578.30	1008.45	-1050.49	1456.19	0.00	0.00	0.00
5000.00	26.33	313.83	4667.92	1039.17	-1082.49	1500.55	0.00	0.00	0.00
5100.00	26.33	313.83	4757.55	1069.89	-1114.48	1544.91	0.00	0.00	0.00
5200.00	26.33	313.83	4847.17	1100.61	-1146.48	1589.27	0.00	0.00	0.00
DROP AT 2.00°/100'									
5272.61	26.33	313.83	4912.24	1122.91	-1169.72	1621.47	0.00	0.00	0.00
5300.00	25.78	313.83	4936.85	1131.25	-1178.40	1633.51	2.00	-2.00	0.00
5400.00	23.78	313.83	5027.63	1160.28	-1208.64	1675.43	2.00	-2.00	0.00
5500.00	21.78	313.83	5119.83	1187.09	-1236.57	1714.15	2.00	-2.00	0.00
5600.00	19.78	313.83	5213.31	1211.67	-1262.17	1749.63	2.00	-2.00	0.00
5700.00	17.78	313.83	5307.98	1233.97	-1285.40	1781.83	2.00	-2.00	0.00
5800.00	15.78	313.83	5403.72	1253.96	-1306.23	1810.71	2.00	-2.00	0.00
5900.00	13.78	313.83	5500.40	1271.64	-1324.64	1836.23	2.00	-2.00	0.00
6000.00	11.78	313.83	5597.92	1286.96	-1340.60	1858.35	2.00	-2.00	0.00
6100.00	9.78	313.83	5696.15	1299.92	-1354.10	1877.07	2.00	-2.00	0.00
6200.00	7.78	313.83	5794.97	1310.49	-1365.12	1892.34	2.00	-2.00	0.00
6300.00	5.78	313.83	5894.26	1318.67	-1373.64	1904.15	2.00	-2.00	0.00
6400.00	3.78	313.83	5993.91	1324.45	-1379.66	1912.49	2.00	-2.00	0.00
6500.00	1.78	313.83	6093.79	1327.81	-1383.16	1917.35	2.00	-2.00	0.00
DAKOTA SILT - VERTICAL									
6589.23	0.00	313.83	6183.00	1328.78	-1384.16	1918.74	2.00	-2.00	0.00
6600.00	0.00	313.83	6193.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
6700.00	0.00	313.83	6293.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
DAKOTA									
6744.23	0.00	313.83	6338.00	1328.78	-1384.16	1918.74	0.00	0.00	0.00
6800.00	0.00	313.83	6393.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
CEDAR MTN.									
6809.23	0.00	313.83	6403.00	1328.78	-1384.16	1918.74	0.00	0.00	0.00
MORRISON									
6842.23	0.00	313.83	6436.00	1328.78	-1384.16	1918.74	0.00	0.00	0.00
6900.00	0.00	313.83	6493.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
7000.00	0.00	313.83	6593.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00

PRECISION ENERGY SERVICES

Client : NATIONAL FUEL CORPORATION
 Well Name : WESTWATER STATE #22-32
 Location : GRAND COUNTY, UTAH

Page : 3 of 3
 Date : 6/30/2005
 File : DRAFT

Gr Elevation : 7326.00

Vertical Section Calculated Along Azimuth 313.83°

All Bearings Are Along True North

MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
7100.00	0.00	313.83	6693.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
7200.00	0.00	313.83	6793.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
7300.00	0.00	313.83	6893.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
7400.00	0.00	313.83	6993.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
ENTRADA									
7415.23	0.00	313.83	7009.00	1328.78	-1384.16	1918.74	0.00	0.00	0.00
7500.00	0.00	313.83	7093.77	1328.78	-1384.16	1918.74	0.00	0.00	0.00
TOTAL DEPTH									
7548.23	0.00	313.83	7142.00	1328.78	-1384.16	1918.74	0.00	0.00	0.00

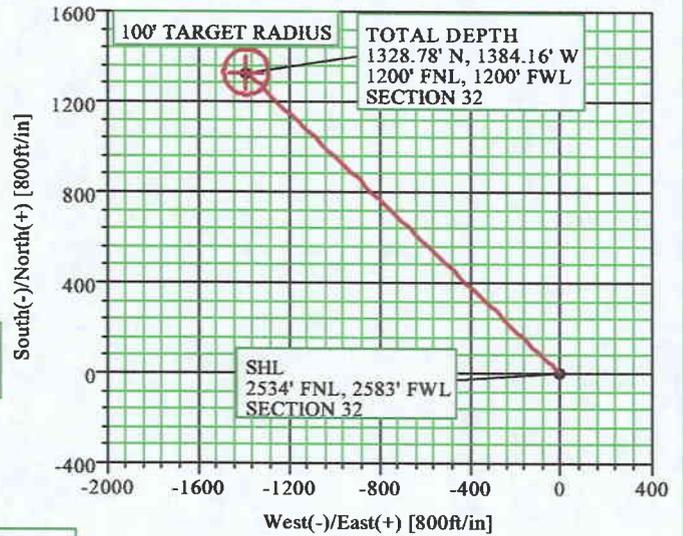
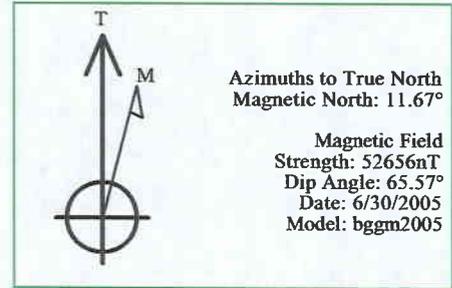
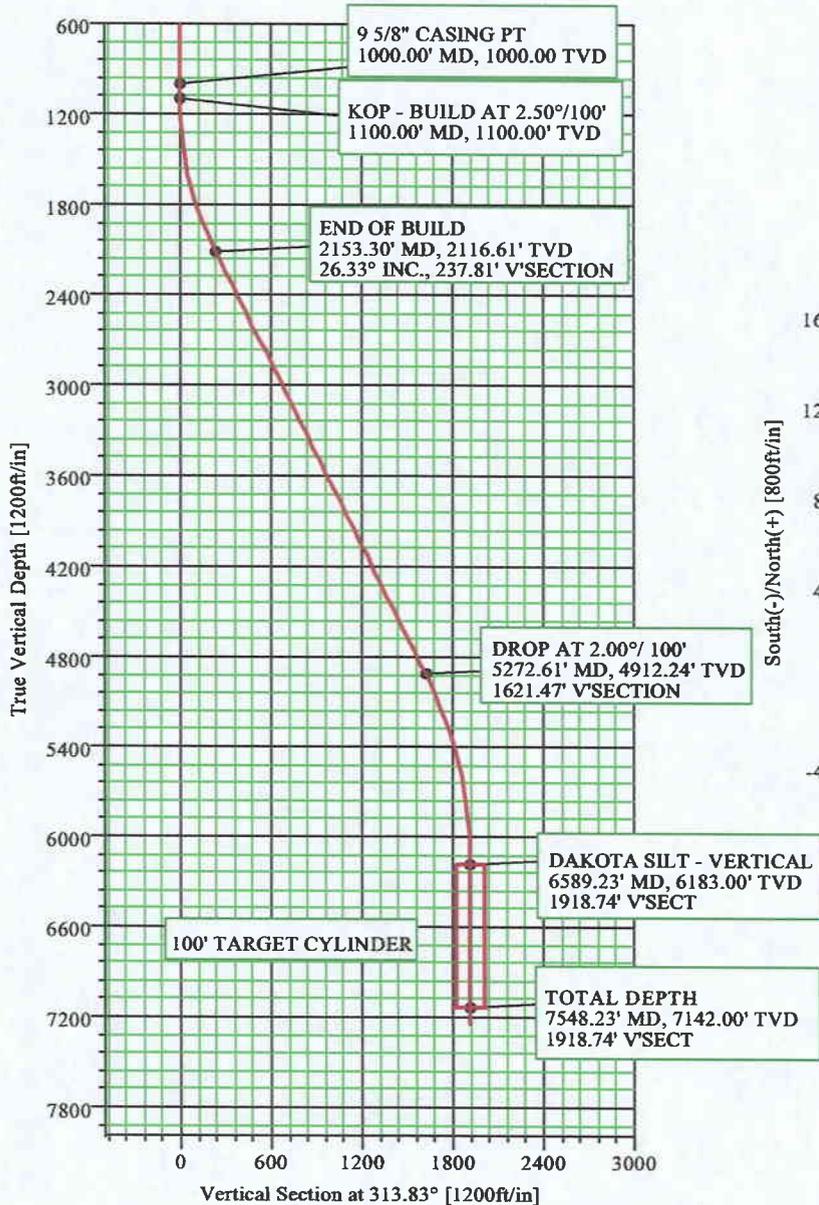
Bottom Hole Closure 1918.74ft Along Azimuth 313.83°



WESTWATER STATE #22-32
 SEC 32 T16S R24E
 2534' FNL, 2583' FWL
 GRAND COUNTY, UTAH

SECTION DE

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	313.83	0.00	0.00	0.00	0.00	0.00	0.00	
2	1100.00	0.00	313.83	1100.00	0.00	0.00	0.00	0.00	0.00	KOP
3	2153.30	26.33	313.83	2116.61	164.69	-171.56	2.50	313.83	237.81	EOB
4	5272.60	26.33	313.83	4912.24	1122.92	-1169.72	0.00	0.00	1621.47	DROP
5	6589.23	0.00	313.83	6183.00	1328.78	-1384.16	2.00	180.00	1918.74	EOD
6	7548.23	0.00	313.83	7142.00	1328.78	-1384.16	0.00	313.83	1918.74	TD



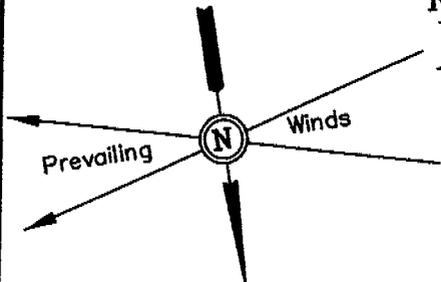
COMPANY: NATIONAL FUEL CORPORATION

WELL NAME: WESTWATER STATE #22-32
 LOCATION: GRAND COUNTY, UTAH
 FILE: DRAFT
 PROPOSAL/COMPLETION: PROPOSAL
 DATE: JUNE 30/05
 PREPARED BY: RLW

NATIONAL FUEL CORPORATION

LOCATION LAYOUT FOR

WESTWATER STATE #22-32
SECTION 32, T16S, R24E, S.L.B.&M.
2534' FNL 2583' FWL



Proposed Access Road

C-12.4'
El. 37.7'

C-5.0'
El. 30.3'

F-7.8'
El. 17.5'

Sta. 2+30

SCALE: 1" = 50'
DATE: 4-14-99
REV: 5-11-05 L.K.
Drawn By: C.B.T.

Approx. Top of Cut Slope

Round Corners as Needed

NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

El. 43.5'
C-24.2'
(btm. pit)

C-5.7'
El. 31.0'

C-1.0'
El. 26.3'

Sta. 1+00

F-11.3'
El. 14.0'

Approx. Toe of Fill Slope

Sta. 0+75

Sta. 0+00

El. 42.6'
C-23.3'
(btm. pit)

El. 31.2'
C-5.9'

F-1.1'
El. 24.2'

F-14.1'
El. 11.2'

Reserve Pit Backfill & Spoils Stockpile

RESERVE PITS (6' Deep)

Pit Capacity W/2' of Freeboard is ±5,410 Bbls.

1 1/2:1 SLOPES

TRASH

Topsoil Stockpile

STORAGE TANK

TOILET

TRAILER

FUEL

DOG HOUSE

PIPE RACKS

CATWALK 150'

MUD TANKS

RIG

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

WATER

35'

150'

125'

60'

270'

100'

150'

125'

100'

150'

125'

100'

150'

125'

100'

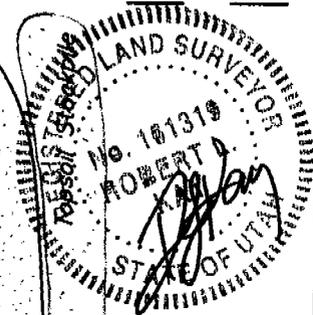
150'

125'

100'

Elev. Ungraded Ground at Location Stake = 7326.3
Elev. Graded Ground at Location Stake = 7325.3'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017



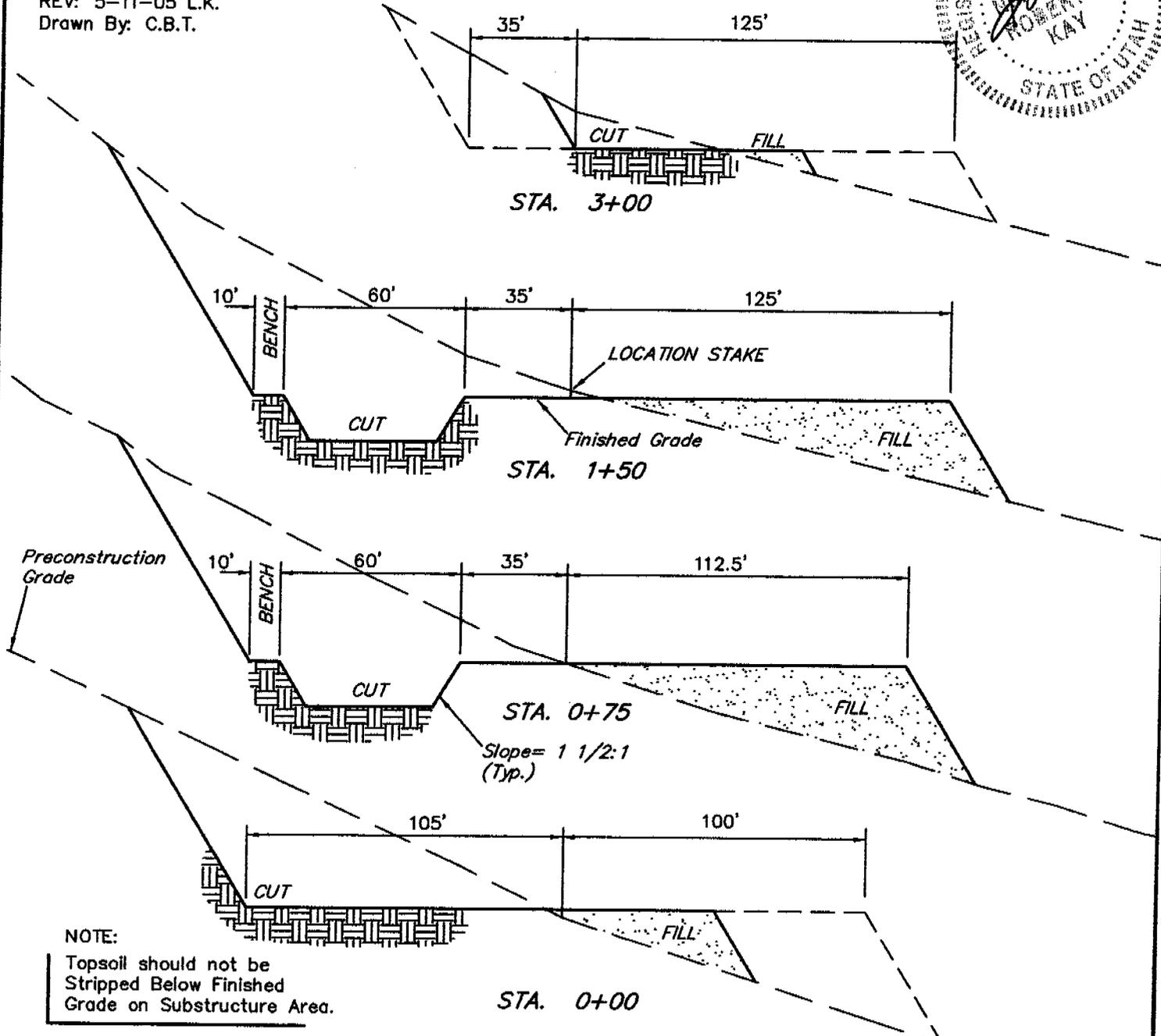
NATIONAL FUEL CORPORATION

TYPICAL CROSS SECTIONS FOR

WESTWATER STATE #22-32
SECTION 32, T16S, R24E, S.L.B.&M.
2534' FNL 2583' FWL

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

DATE: 4-14-99
REV: 5-11-05 L.K.
Drawn By: C.B.T.



NOTE:
Topsail should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 1,040 Cu. Yds.
Remaining Location	= 12,350 Cu. Yds.
TOTAL CUT	= 13,390 CU.YDS.
FILL	= 8,720 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	= 4,210 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 1,960 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 2,250 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (801) 789-1017

SEE
TOPO "B"

**PROPOSED LOCATION:
WESTWATER STATE #22-32**

T16S

T17S

**R
24
E**

**R
25
E**

T17S

T18S

14.7 MI. +/-

5.4 MI. +/-

INTERSTATE 70 2.4 MI. +/-
FRUITA 26.2 MI. +/-

T18S

LEGEND:

⊙ PROPOSED LOCATION

N

NATIONAL FUEL CORPORATION

WESTWATER STATE #22-32
SECTION 32, T16S, R24E, S.L.B.&M.
2534' FNL 2583' FWL



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

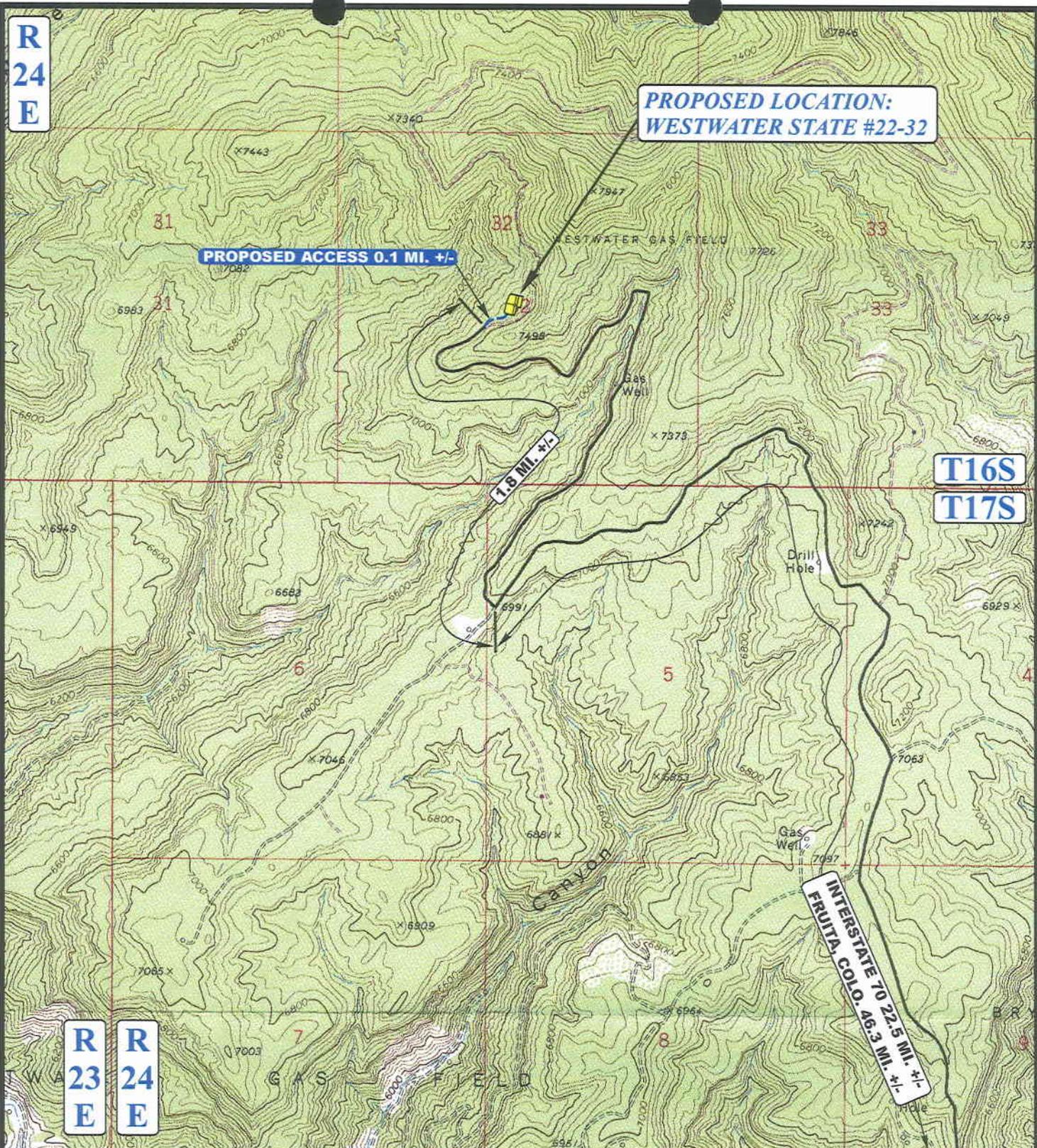


TOPOGRAPHIC
MAP

4 16 99
MONTH DAY YEAR

SCALE: 1 : 100,000 | DRAWN BY: D.COX | REV: 05-11-05 L.K.





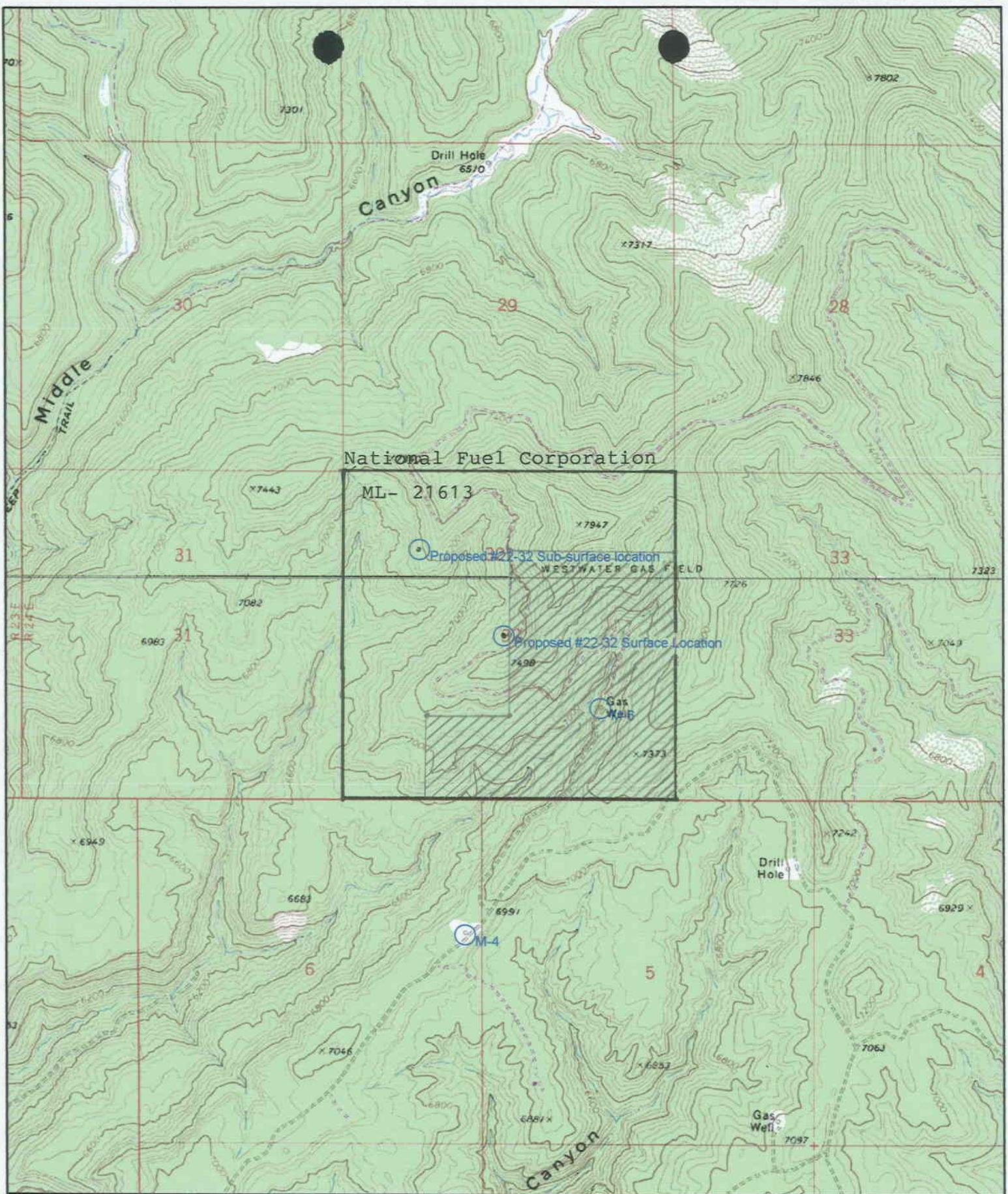
LEGEND:
 - - - - - PROPOSED ACCESS ROAD
 ————— EXISTING ROAD

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



NATIONAL FUEL CORPORATION
 WESTWATER STATE #22-32
 SECTION 32, T16S, R24E, S.L.B.&M.
 2534' FNL 2583' FWL

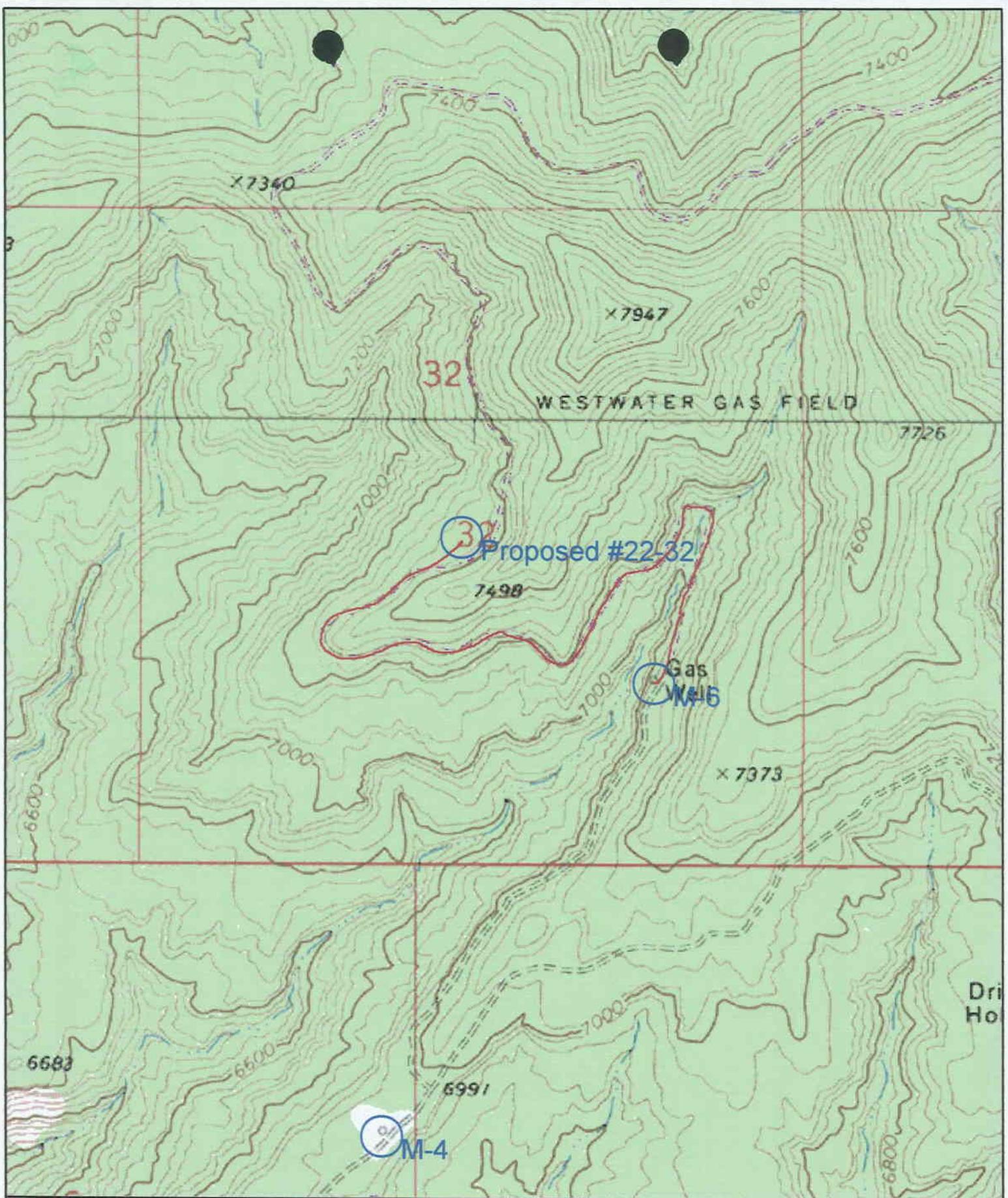
TOPOGRAPHIC MAP 4 16 99
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: D.COX REV: 05-11-05 L.K. **B TOPO**



Name: DRY CANYON
 Date: 6/3/2005
 Scale: 1 inch equals 2000 feet

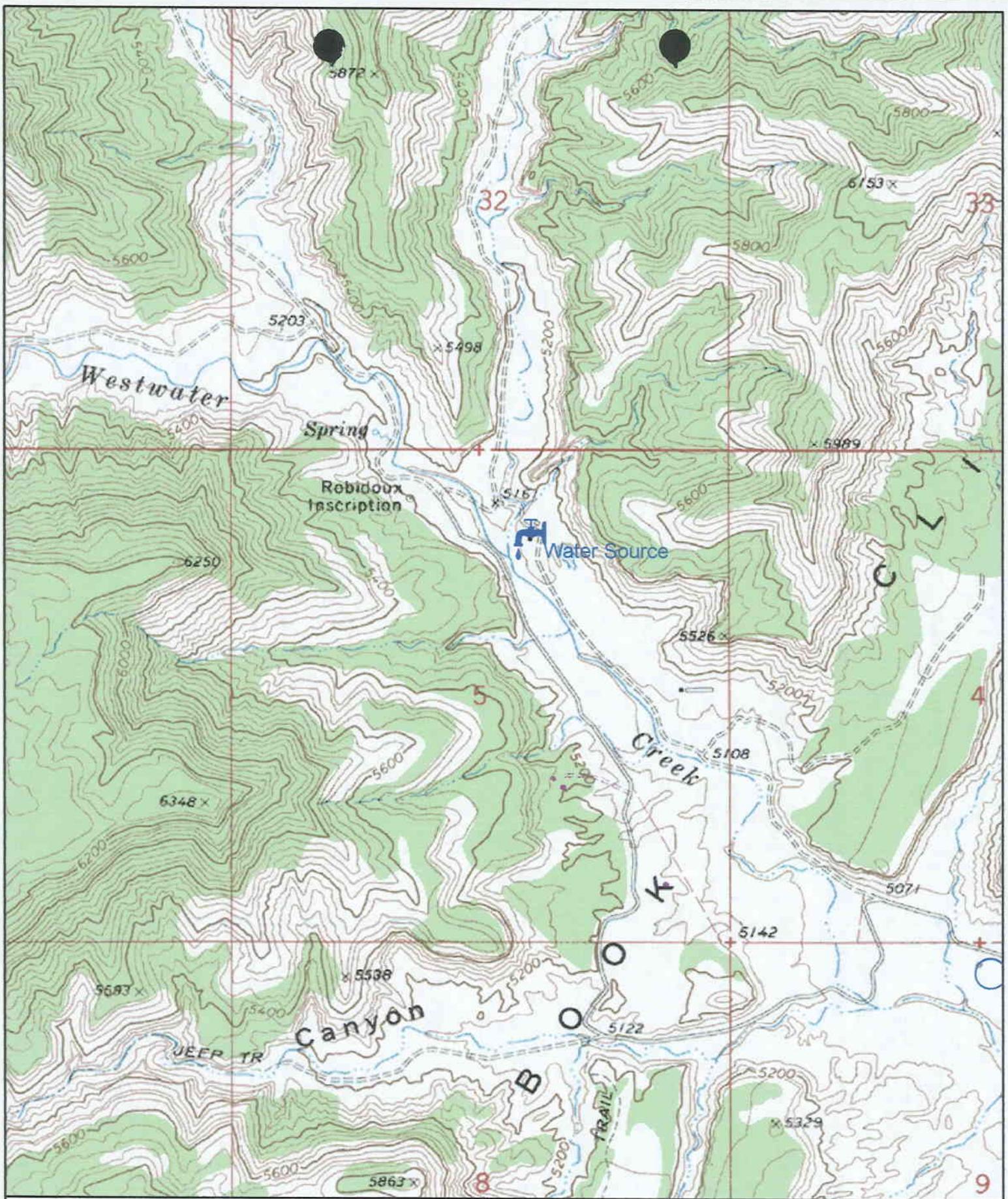
Location: 039° 22' 26.0" N 109° 17' 31.4" W
 Caption: Surface and Sub-surface location

Horse Point Unit Participating Area "B" 



Name: DRY CANYON
Date: 6/3/2005
Scale: 1 inch equals 1000 feet

Location: 039° 22' 15.3" N 109° 17' 27.1" W
Caption: Proposed Pipeline —



Name: DRY CANYON
 Date: 6/3/2005
 Scale: 1 inch equals 1333 feet

Location: 039° 16' 22.6" N 109° 16' 59.6" W
 Caption: Water Source

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 07/06/2005

API NO. ASSIGNED: 43-019-31454

WELL NAME: NFC WESTWATER ST 22-32
OPERATOR: NATIONAL FUEL (N8060)
CONTACT: ANDREW BUSCH

PHONE NUMBER: 303-220-7772

PROPOSED LOCATION:

SENW 32 160S 240E
SURFACE: 2534 FNL 2583 FWL
NWNW BOTTOM: 1200 FNL 1200 FWL
GRAND
UNDESIGNATED (2)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DAD	8/5/05
Geology		
Surface		

LEASE TYPE: 3 - State
LEASE NUMBER: ML-21613
SURFACE OWNER: 3 - State
PROPOSED FORMATION: ENRD
COALBED METHANE WELL? NO

LATITUDE: 39.37269
LONGITUDE: -109.2920

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. LPM8756586)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. Municipal)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3.
Unit _____
- 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: Needs Permit (07-21-05)

STIPULATIONS: 1- Spacing Gap
2- Cont step #3 - 4 1/2" pad string contd back to 1000' as indicated
3- STATEMENT OF BASIS

7320
S...

From: "Diane Thompson" <dthompson@national-fuel.com>
To: <BradHill@Utah.gov>
Date: 7/20/2005 8:53:40 AM
Subject: Emailing: NFC DES. OF AGENT-OPERATOR WWTR #22-32

Dear Brad - per our telephone conversation yesterday, please find the attached Designation of Agent or Operator (DAO) form that should be reviewed in conjunction with National Fuel Corporation's Application for Permit to Drill dated 6/30/2005 that has been submitted to DOGM.

J. C. Thompson Operator, LLC is the lessee of record for ML-21613 and is also the Operator of another well on that lease, the Horse Point #M-6. NFC is expected to serve as Operator for ONLY the new well proposed in the APD.

Please contact Andy Busch (tel. 970/260-8128) or me (tels. listed below) if you have any questions.

Thank you,

Diane Thompson
National Fuel Corporation
Tel.: 303/996-6775 (direct)
 " /220-7772 (PBX)
Fax: " /220-7773

The message is ready to be sent with the following file or link attachments:

NFC DES. OF AGENT-OPERATOR WWTR #22-32

CC: "J. C. Thompson " <jthompson@national-fuel.com>, "Andy Busch " <abusch@national-fuel.com>

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

OPERATOR: National Fuel Corporation
WELL NAME & NUMBER: NFC Westwater State #22-32
API NUMBER: 40-019-31454
LOCATION: 1/4,1/4 SENW Sec:32 TWP: 16S RNG: 24E 1200 FNL 2583 FWL

Geology/Ground Water:

Two springs are mapped to arise in the Upper Cretaceous Farrer Formation in Middle Canyon, about 1½ miles southwest of the location. These arise about 1,500' below the location, which will spud into the main body of the Wasatch Formation. No water rights have been filed within a mile of this location. There are no year-round streams flowing in nearby canyons immediately around the location. If other wells drilled in the area by this Operator are indicative of future procedures, he will most likely utilize an air/mist drilling system to drill the surface-cased portion of the hole and a DAP mud system below the proposed 1,000' surface casing setting depth. The Operator should modify his casing program to put the Farrer Formation behind the surface casing. This will most likely necessitate extending the surface casing string to at least 1,500' to adequately protect the Farrer Formation high quality water resource, which is important to local ranching and wildlife in this arid, elevated and incised terrain. Lost circulation may be encountered in the Mesa Verde Group in this area so the operator will likely prefer to drill with as light a mud system as possible. In this area, the base of moderately saline ground water is mapped to occur at ~4,500' above sea level and should therefore be encountered at ~2,800' TD. The proposed casing and cementing program and relatively benign mud system for drilling the surface hole should serve to adequately protect the ground water resource.

Reviewer: Christopher J. Kierst **Date:** July 28, 2005

Surface:

On-site conducted July 21, 2005. In attendance: Bart Kettle (DOGM), Andrew Busch (National Fuel Corporation), invited but choosing not to attend Nathan Sill (DWR), Ed Bonner (SITLA) and Mary Hofhine (Grand County)

Trees removed during the building of the location will be piled along the northern portions of the location for future restoration. Some construction of diversion ditches along the southern portions of the location may be required to prevent heavy accumulations of snow from flooding location as they melt. Site chosen to build location appears to be the most suitable for a well pad. Due to resource concerns created as a result of previous drilling activities conducted during spring thaw, discussed that drilling be avoided if at all possible during the months of February through April. BLM has seasonal restrictions on access road coming into location, operator will need to assure compliance with said restrictions.

Reviewer: Bart Kettle **Date:** July 27, 2005

Conditions of Approval/Application for Permit to Drill:

1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: National Fuel Corporation
WELL NAME & NUMBER: NFC Westwater State #22-32
API NUMBER: 43-019-31454
LEASE: State **FIELD/UNIT:** _____
LOCATION: 1/4,1/4 SENW Sec: 32 TWP: 16S RNG: 24E 2534 FNL 2583 FWL
LEGAL WELL SITING: 460 F SEC. LINE; 460 F 1/4,1/4 LINE; 920 F ANOTHER WELL.
GPS COORD (UTM): X =4359319 E; Y =647128 N **SURFACE OWNER:** SITLA

PARTICIPANTS

Bart Kettle(DOGM), Andrew Busch (National Fuel Corporation), invited but choosing not to attend Nathan Sill (DWR), Ed Bonner (SITLA) and Mary Hofine (Grand County).

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is 46 miles northwest of Fruita Colorado in Grand County Utah. The proposed location is located in extremely rough topography in the transition zone between the Bookcliffs divide and the floor of the Grand Valley. The precept is a 14-16" zone, vegetation is mainly P/J woodlands with small pockets of Douglas Fir and Mountain Browse communities. Topography to the south drops off into extensive salt scrub clay flats in the valley floor. To the north topography climbs quickly through P/J woodlands into mountain browse communities along the divide. Drainages flow to the south entering the Colorado River ~25 miles away. The proposed location is located on a small bench in a series of rough sandstone ledges, sights suitable to build a location are difficult to find in this area. There was no perennial water observed in close proximity to the location, however past experience has shown that a majority of the drainages in the vicinity have intermittent springs in them. Drainages are ephemeral in nature, being dry throughout the warmer months of the year, however the proposed well is located within a recharge area. Access to the well site can be gained via the East Canyon road from the Grand Valley.

SURFACE USE PLAN

CURRENT SURFACE USE: Late fall/winter cattle grazing, summer and fall big game habitat, seasonal recreation, oil and gas development.

PROPOSED SURFACE DISTURBANCE: 220' x 300' 0.10 mile of road construction.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: Horse Point U M-6 and Horse Point U M-4.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Wellhead, meter facilities, separator, dehydrator, production tank and fenced emergency water disposal pit will be located on location if well is capable of commercial production. Pipeline will be laid along existing roads to

the Horse Point U n-6.

SOURCE OF CONSTRUCTION MATERIAL: On-site

ANCILLARY FACILITIES: None required

WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN): Drilling at this location is not expected to generate significant public concern. With the exception of the fall hunting seasons there is limited public visitation into this portion of the Bookcliffs. The closest residence are located ~8 miles away at the Three Forks Ranch. Recent drilling on Federal lands within close vicinity of the proposed well has generated some scrutiny from the environmental community.

WASTE MANAGEMENT PLAN:

Garbage and other trash will be contained in an acceptable trash container. Refuse will be transported to an approved disposal site as necessary, but no later than at the completion of drilling operations. Sewage will be handled in self-contained portable toilets and contents hauled off location to an authorized facility in accordance with State and local regulations.

Reserve pit will be fenced and lined with a 12-mil liner prior to use. Drill cuttings will be constrained in the reserve pit.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: No floodplains or wetlands will be affected by the drilling of this well. Proposed location is located above an ephemeral wash, pad construction is not expected to alter drainage function or sediment load.

FLORA/FAUNA: Elk, Mule Deer, Black Bear, Cougar, Bobcat, rabbits, songbirds, raptors, and lizards.

Grasses: Bottlebrush squirreltail, elk sedge, Letterman's Needlegrass, Sandbergs bluegrass, needle and thread grass, Indian rice grass, thickspike wheatgrass and Nevada bluegrass. Forbs: Palmers penstemon, lambsquarter, yellow eye cryptantha, and tapertip hawksbeard. Shrubs: Alderleaf mountain mahogany, common snowberry, Wyoming sage, Gamble oak, and Utah service berry. Trees: Rocky mountain juniper, Utah Juniper, two needle pinyon, and Douglas fir.

SOIL TYPE AND CHARACTERISTICS: Dark brown sandy loam, sandstone fragments, high content of duff under evergreen trees.

SURFACE FORMATION & CHARACTERISTICS: Flagstaff Formation, alternating sandstone and clay/shale layers cut by deep canyons. Soils are erosive in nature due to lack of litter/vegetation and steep slopes.

EROSION/SEDIMENTATION/STABILITY: Fine soils prone to wind and water erosion when disturbed. Excessive sedimentation and erosion above current rates is not expected at this site.

PALEONTOLOGICAL POTENTIAL: None noted

RESERVE PIT

CHARACTERISTICS: 60'x170'x6'

LINER REQUIREMENTS (Site Ranking Form attached): Liner Required

SURFACE RESTORATION/RECLAMATION PLAN

The top 5" of topsoil material will be removed from the location and stockpiles separately on the east side of the location. The reserve pit will be backfilled when the contents have been sufficiently dewatered. If the well is productive areas not required for operations will be rehabilitated. Noxious weeds will be controlled on the location in accordance with State guidelines. In the event of a dry hole the location will re re-contoured, the topsoil distributed evenly over the location and then re-seeded.

SURFACE AGREEMENT: As per SITLA mineral lease.

CULTURAL RESOURCES/ARCHAEOLOGY: Class III Cultural Resource Inventory has been conducted.

OTHER OBSERVATIONS/COMMENTS

Few suitable sites to build a well pad are available in the area, despite steep slopes in the access road this site appears to be the best available. Trees and brush will be piled at the base of the well pad for future restoration. Due to resource damages caused by late a winter drilling program the previous winter discussed avoiding drilling during spring break-up. It is anticipated that if drilling hasn't started by the first of October it will be delayed until the following summer.

ATTACHMENTS

Photos of this location were taken and placed on file.

Bart Kettle
DOGM REPRESENTATIVE

July 27, 2005 11:00 A.M.
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>5</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

Final Score 20 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required, consider criteria for excluding pit use.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.



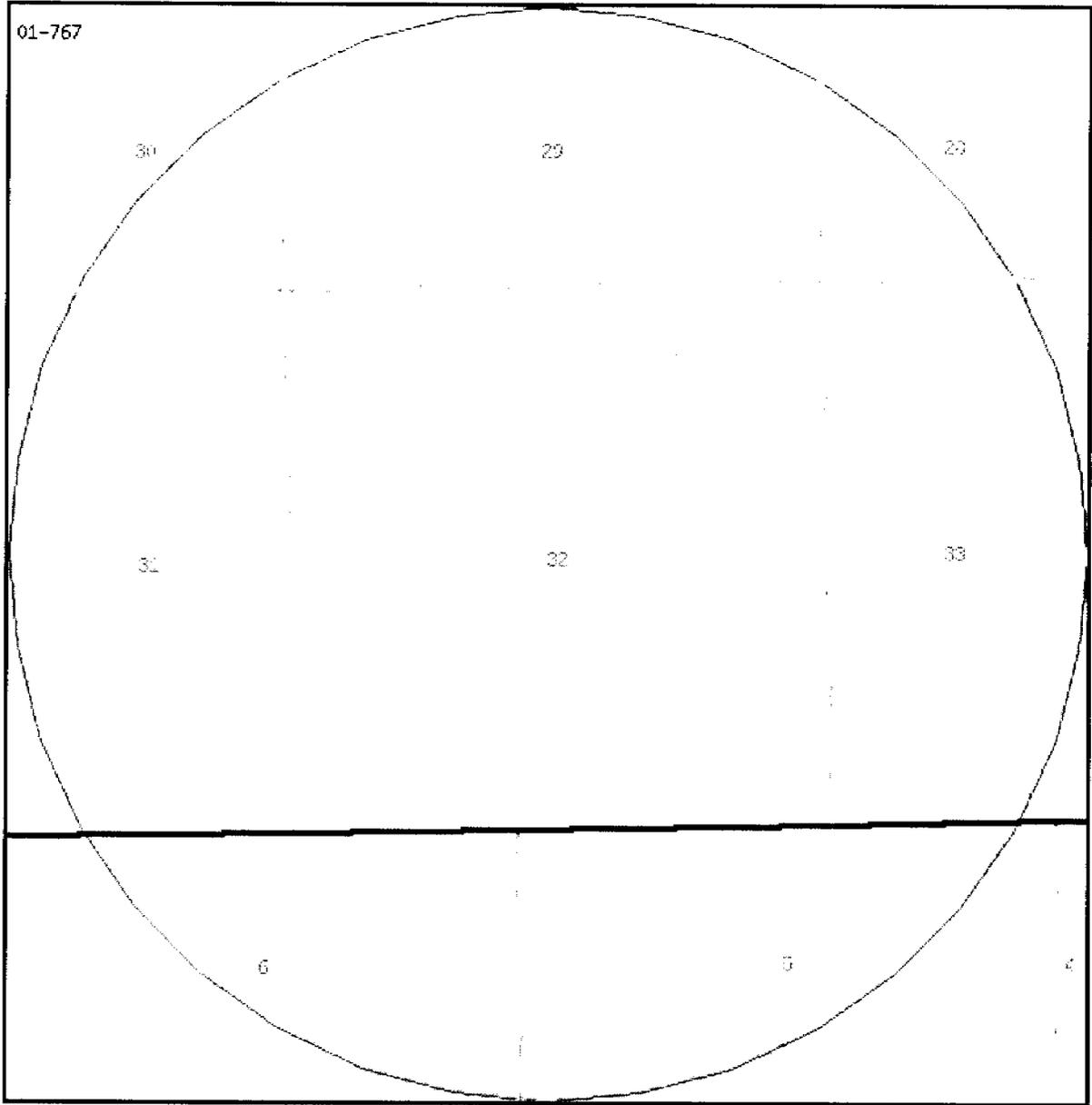


UTAH DIVISION OF WATER RIGHTS

WRPLAT Program Output Listing

Version: 2004.12.30.00 Rundate: 07/28/2005 03:46 PM

Radius search of 5280 feet from a point S2534 E2583 from the NW corner, section 32, Township 16S, Range 24E, SL
b&m Criteria:wrtypes=W,C,E podtypes=all status=U,A,P usetypes=all



0 700 1400 2100 2800 ft

Water Rights

WR Number	Diversion Type/Location	Well Log	Status	Priority	Uses	CFS	ACFT	Owner Name
01-767	Point to Point 0 0 30 16S 24E SL		P	18790000	OS	0.015	0.000	MOAB DISTRICT USA BUREAU OF LAND MANAGEMENT P.O. BOX 970

[Natural Resources](#) | [Contact](#) | [Disclaimer](#) | [Privacy Policy](#) | [Accessibility Policy](#)

07 National Fuel Corp. West 22-32
Casing Schematic

Surface

Propose TOC - Surface

✓ w/18% Washout

9-5/8"
MW 8.4
Frac 19.3

TOC @
13.
Surface
1000. MD
1000. TVD

BHP
 $(0.052)(8.6)(\frac{7142}{1.98}) = 3193$
 Anticipate 2500# max

2591 Castlegate
 2616 Mancos
 2800 BMSW

Gas
 $(0.12)(7142) = 857$
 MHSP = 2336

TOC @
3282.

BUPE - 5,000 ✓

Propose TOC 1000 ft
 ✓ STIP - TOC ~~Surface~~ Inside Surface Shoe

Surf csg - 3520
 706 = 2464

w/15% washout
 TOC 1411 w/ 0% washout

Max pressure @ shoe = 1842
 Propose TST TO 2464 ✓

6338 Dakota

✓ Adequate DWD 8/5/05

4-1/2"
MW 8.6

Production
7548. MD
7142. TVD

Well name:	07-05 National Fuel Corp. Westwater St 22-32	
Operator:	National Fuel Corporation	
String type:	Surface	Project ID: 43-019-31454
Location:	Grand County	

Design parameters:

Collapse
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 89 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 350 ft

Cement top: 13 ft

Burst

Max anticipated surface pressure: 880 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,000 psi

No backup mud specified.

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 876 ft

Completion type is subs
Non-directional string.

Re subsequent strings:

Next setting depth: 6,736 ft
Next mud weight: 8.600 ppg
Next setting BHP: 3,009 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,000 ft
Injection pressure 1,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1000	9.625	36.00	J-55	ST&C	1000	1000	8.796	71.2

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	436	2020	4.630	1000	3520	3.52	32	394	12.50 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Phone: 801-538-5280
FAX: 801-359-3940

Date: August 1, 2005
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	07-05 National Fuel Corp. Westwater St 22-32	
Operator:	National Fuel Corporation	
String type:	Production	Project ID: 43-019-31454
Location:	Grand County	

Design parameters:

Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,334 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 3,191 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 6,630 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 175 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 3,282 ft

Completion type is subs

Directional well information:

Kick-off point 0 ft
Departure at shoe: 1919 ft
Maximum dogleg: 2.5 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	7548	4.5	11.60	N-80	LT&C	7142	7548	3.875	175
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3191	6350	1.990	3191	7780	2.44	72	223	3.09 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Phone: 801-538-5280
FAX: 801-359-3940

Date: August 1, 2005
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 7142 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

From: Ed Bonner
To: Whitney, Diana
Date: 8/25/2005 10:37:49 AM
Subject: Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

Enduring Resources, LLC

Archy Bench 12-23-11-16
Archy Bench 12-23-12-16
Archy Bench 12-23-13-16
Archy Bench 12-23-21-16
Archy Bench 12-23-22-16
Archy Bench 12-23-31-16
Archy Bench 12-23-42-16

Medallion Exploration

Atchee State 20-12-25
Atchee State 1-29-12-25
Atchee State 2-29-12-25
Atchee Ridge 32-12-25
Seep Canyon State 30-12-25

National Fuel Corporation

NFC State Duncan #14-28
NFC Horse Point State #11-6
NFC Westwater State #22-32 ✓

Westport Oil & Gas Company

State 920-36J
State 920-36K
State 920-36L
State 920-36M
State 920-36N

If you have any questions regarding this matter please give me a call.

CC: Garrison, LaVonne; Hill, Brad; Hunt, Gil



State of Utah

Department of
Natural Resources

MICHAEL R. STYLER
Executive Director

Division of
Oil, Gas & Mining

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

August 25, 2005

National Fuel Corporation
7979 E Tufts Ave., #815
Denver, CO 80237

Re: NFC Westwater State 22-32 Well, 2534' FNL, 2583' FWL, SE NW, Sec. 32, T. 16 South, R. 24 East, Bottom Location 1200' FNL, 1200' FWL, NW NW, Sec. 32, T. 16 South, R. 24 East, Grand County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31454.

Sincerely,

For Gil Hunt
Associate Director

pab
Enclosures

cc: Grand County Assessor
SITLA

Operator: National Fuel Corporation
Well Name & Number NFC Westwater State 22-32
API Number: 43-019-31454
Lease: ML-21613

Location: SE NW **Sec.** 32 **T.** 16 South **R.** 24 East
Bottom Location: NW NW **Sec.** 32 **T.** 16 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

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

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. In accordance with Utah Admin. R. 649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In 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.

8. Cement volume for the 4 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000' as indicated in the submitted drilling plan.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: NATIONAL FUEL CORPORATION

Well Name: NFC WESTWATER ST 22-32

Api No: 43-019-31454 Lease Type: STATE

Section 32 Township 16S Range 24E County GRAND

Drilling Contractor ROCKY MOUNTAIN DRLG RIG # 1

SPUDDED:

Date 04/19/06

Time _____

How DRY

Drilling will Commence: _____

Reported by ANDY BUSH

Telephone # (970) 260-8128

Date 04/21/2006 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: National Fuel Corporation
Address: 7979 East Tufts Avenue Parkway, #815
city Denver
state Co zip 80237

Operator Account Number: N 8060
Phone Number: (303) 220-7772

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301931454	Westwater State #22-32		SENW	32	16S	24E	Grand
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	15343	4/19/2006		4/27/06		
Comments: <u>ENRD</u>							CONFIDENTIAL <u>K</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)

Andrew Busch

Name (Please Print)

Andrew Busch

Signature

V.P. of Operations

4/27/2006

Title

Date

RECEIVED

APR 24 2006

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-21613

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
NFC Westwater State #22-32

2. NAME OF OPERATOR:
National Fuel Corporation

9. API NUMBER:
4301931454

3. ADDRESS OF OPERATOR:
7979 E Tufts Ave #815 CITY **Denver** STATE **Co** ZIP **80237**

PHONE NUMBER:
(303) 220-7772

10. FIELD AND POOL, OR WILDCAT:
Westwater

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **2534' FNL, 2583' FWL**

COUNTY: **Grand**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW 32 16S 24E**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/29/2006</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Begin Completion Operations</u>
<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for notification that completion operations will start on 7/5/06 for the Westwater State #22-32. Please review the following procedure. (1)Move in completion rig. (2)Trip in hole with bit and scraper to TD. (3)Circulate hole with 3% KCl water. (4)Pressure test casing. (5)Run CCL, CBL and GR logs. (6) Perforate Dakota formation at 6892 to 6900. (7)Swab down fluid and flow test for production. (8)Analyze flow information to decide if further stimulation is required.

WELL OPERATOR
7-26-06
CHD

NAME (PLEASE PRINT) Andrew Busch

TITLE V.P. of Operations

SIGNATURE Andrew Busch

DATE 6/29/2006

(This space for State use only)

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 7/19/06
David W. Smith
(See Instructions on Reverse Side)

RECEIVED
JUL 10 2006
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
2. NAME OF OPERATOR: National Fuel Corporation		8. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 7979 E Tufts Ave #815 <small>CITY</small> Denver STATE Co ZIP 80237		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2534' FNL, 2583' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 16S 24E		8. WELL NAME and NUMBER: NFC Westwater State #22-32
PHONE NUMBER: (303) 220-7772		9. API NUMBER: 4301931454
COUNTY: Grand		10. FIELD AND POOL, OR WILDCAT: Westwater
STATE: UTAH		

CONFIDENTIAL

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit In Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 6/2/2006	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input checked="" type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for notification that drilling operations for the Westwater State #22-32 were completed as of 6/2/06. Inclosed with this notice are daily drilling reports, logs and the final directional survey.

NAME (PLEASE PRINT) <u>Andrew Busch</u>	TITLE <u>V.P. of Operations</u>
SIGNATURE <u><i>Andrew Busch</i></u>	DATE <u>6/29/2006</u>

(This space for State use only)

RECEIVED
JUL 03 2006
DIV. OF OIL, GAS & MINING



Client : National Fuels Corporation
 Well : WestWater State # 22-32
 Location :
 License :

Page: 1
 Date : 5/29/2006
 File : 4008256

UWI #:

CONFIDENTIAL

Vertical Section Calculated Along Azimuth 313.83°
KB Elevation = 0.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1039.00	0.44	155.81	1038.99	-3.64	1.63	-3.70	0.04	0.04	15.00
2	1132.00	2.19	284.34	1131.97	-3.52	0.06	-2.48	2.68	1.88	138.20
3	1226.00	5.00	300.56	1225.78	-1.00	-5.21	3.07	3.15	2.99	17.26
4	1318.00	8.19	309.43	1317.16	5.21	-13.73	13.51	3.63	3.47	9.64
5	1414.00	10.81	312.56	1411.83	15.64	-25.64	29.33	2.78	2.73	3.26
6	1507.00	14.44	313.68	1502.57	29.55	-40.46	49.65	3.91	3.90	1.20
7	1601.00	16.13	311.81	1593.24	46.35	-58.67	74.42	1.87	1.80	-1.99
8	1695.00	18.38	314.18	1683.01	65.39	-79.03	102.29	2.51	2.39	2.52
9	1789.00	19.44	317.31	1771.94	87.21	-100.26	132.73	1.56	1.13	3.33
10	1882.00	20.56	314.93	1859.33	110.12	-122.32	164.50	1.49	1.20	-2.56
11	1976.00	20.56	315.56	1947.34	133.57	-145.56	197.51	0.24	0.00	0.67
12	2070.00	20.06	313.56	2035.50	156.46	-168.80	230.13	0.91	-0.53	-2.13
13	2163.00	20.85	313.81	2122.63	178.91	-192.30	262.63	0.85	0.85	0.27
14	2257.00	22.50	314.93	2209.98	203.19	-217.11	297.34	1.81	1.76	1.19
15	2349.00	24.13	313.31	2294.47	228.53	-243.26	333.75	1.90	1.77	-1.76
16	2442.00	25.19	314.93	2378.99	255.55	-271.10	372.55	1.35	1.14	1.74
17	2532.00	25.07	313.86	2460.47	282.29	-298.41	410.76	0.52	-0.13	-1.19
18	2629.00	25.44	314.68	2548.20	311.17	-328.04	452.15	0.52	0.38	0.85
19	2722.00	25.31	313.06	2632.23	338.79	-356.77	492.00	0.76	-0.14	-1.74
20	2816.00	26.25	313.68	2716.87	366.87	-386.49	532.88	1.04	1.00	0.66
21	2910.00	26.88	314.18	2800.94	396.03	-416.76	574.91	0.71	0.67	0.53
22	3005.00	27.06	313.56	2885.61	425.89	-447.82	618.00	0.35	0.19	-0.65
23	3098.00	26.31	315.81	2968.71	455.25	-477.52	659.75	1.35	-0.81	2.42
24	3192.00	25.88	315.93	3053.13	484.93	-506.31	701.07	0.46	-0.46	0.13
25	3286.00	25.56	315.00	3137.81	514.01	-534.92	741.85	0.55	-0.34	-0.99
26	3380.00	25.75	313.68	3222.55	542.45	-564.02	782.54	0.64	0.20	-1.40
27	3472.00	26.69	314.31	3305.08	570.68	-593.26	823.19	1.07	1.02	0.68
28	3566.00	26.44	314.06	3389.16	599.98	-623.41	865.22	0.29	-0.27	-0.27
29	3660.00	27.63	314.93	3472.88	629.93	-653.88	907.95	1.33	1.27	0.93
30	3754.00	29.00	315.93	3555.64	661.70	-685.16	952.51	1.54	1.46	1.06
31	3847.00	28.44	316.31	3637.19	693.91	-716.14	997.16	0.63	-0.60	0.41
32	3939.00	26.75	314.43	3718.73	724.24	-746.06	1039.76	2.07	-1.84	-2.04
33	4033.00	25.69	315.68	3803.06	753.63	-775.40	1081.28	1.27	-1.13	1.33
34	4127.00	26.69	313.81	3887.41	782.82	-804.87	1122.75	1.38	1.06	-1.99
35	4221.00	26.31	313.43	3971.53	811.76	-835.23	1164.70	0.44	-0.40	-0.40



Client : National Fuels Corporation
 Well : WestWater State # 22-32
 Location :
 License :

Page: 2
 Date : 5/29/2006
 File : 4008256

UWI #:

Vertical Section Calculated Along Azimuth 313.83°**KB Elevation = 0.00ft**

	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
36	4314.00	25.75	314.06	4055.10	839.98	-864.72	1205.51	0.67	-0.60	0.68
37	4408.00	25.25	313.31	4139.94	867.93	-893.98	1245.97	0.63	-0.53	-0.80
38	4502.00	24.44	313.31	4225.24	895.02	-922.72	1285.47	0.86	-0.86	0.00
39	4595.00	24.94	312.93	4309.74	921.57	-951.07	1324.31	0.56	0.54	-0.41
40	4688.00	25.00	312.81	4394.04	948.28	-979.85	1363.56	0.08	0.06	-0.13
41	4782.00	24.69	312.68	4479.34	975.09	-1008.85	1403.05	0.33	-0.33	-0.14
42	4876.00	24.44	311.31	4564.84	1001.24	-1037.89	1442.11	0.66	-0.27	-1.46
43	4970.00	24.63	311.56	4650.35	1027.07	-1067.15	1481.11	0.23	0.20	0.27
44	5064.00	23.75	310.81	4736.09	1052.43	-1096.14	1519.58	0.99	-0.94	-0.80
45	5151.00	23.44	313.68	4815.82	1075.83	-1121.91	1554.38	1.37	-0.36	3.30
46	5244.00	22.94	312.56	4901.31	1100.87	-1148.64	1591.00	0.72	-0.54	-1.20
47	5338.00	22.81	313.81	4987.92	1125.87	-1175.28	1627.54	0.54	-0.14	1.33
48	5431.00	22.38	313.56	5073.78	1150.55	-1201.12	1663.27	0.47	-0.46	-0.27
49	5524.00	21.56	313.43	5160.02	1174.50	-1226.36	1698.06	0.88	-0.88	-0.14
50	5617.00	21.25	312.81	5246.61	1197.70	-1251.14	1732.00	0.41	-0.33	-0.67
51	5712.00	17.88	312.06	5336.11	1219.18	-1274.60	1763.80	3.56	-3.55	-0.79
52	5806.00	17.56	312.18	5425.65	1238.36	-1295.82	1792.40	0.34	-0.34	0.13
53	5900.00	15.50	313.93	5515.76	1256.60	-1315.38	1819.13	2.25	-2.19	1.86
54	5994.00	13.25	313.43	5606.81	1272.72	-1332.25	1842.47	2.40	-2.39	-0.53
55	6087.00	11.44	313.81	5697.66	1286.44	-1346.64	1862.35	1.95	-1.95	0.41
56	6180.00	11.00	314.06	5788.88	1298.99	-1359.68	1880.45	0.48	-0.47	0.27
57	6274.00	10.38	312.31	5881.25	1310.93	-1372.38	1897.88	0.74	-0.66	-1.86
58	6368.00	7.50	312.56	5974.10	1320.78	-1383.17	1912.48	3.06	-3.06	0.27
59	6463.00	5.69	320.06	6068.47	1328.58	-1390.76	1923.36	2.11	-1.91	7.89
60	6557.00	4.25	323.31	6162.11	1334.95	-1395.83	1931.43	1.56	-1.53	3.46
61	6650.00	4.19	320.43	6254.86	1340.33	-1400.05	1938.20	0.24	-0.06	-3.10
62	6744.00	4.06	320.31	6348.62	1345.54	-1404.37	1944.92	0.14	-0.14	-0.13
63	6836.00	3.94	321.43	6440.39	1350.52	-1408.42	1951.29	0.16	-0.13	1.22
64	6929.00	3.88	322.31	6533.17	1355.51	-1412.33	1957.57	0.09	-0.06	0.95
65	7022.00	3.06	321.50	6626.00	1359.94	-1415.80	1963.14	0.88	-0.88	-0.87
66	7116.00	2.63	323.81	6719.89	1363.64	-1418.64	1967.75	0.47	-0.46	2.46
67	7239.00	2.38	332.93	6842.77	1368.19	-1421.47	1972.95	0.38	-0.20	7.41
68	7365.00	2.44	345.31	6968.66	1373.12	-1423.34	1977.71	0.42	0.05	9.83
69	7510.00	2.35	352.80	7113.53	1379.05	-1424.49	1982.65	0.22	-0.06	5.17
70	7555.00	2.35	352.80	7158.50	1380.88	-1424.72	1984.08	0.00	0.00	0.00

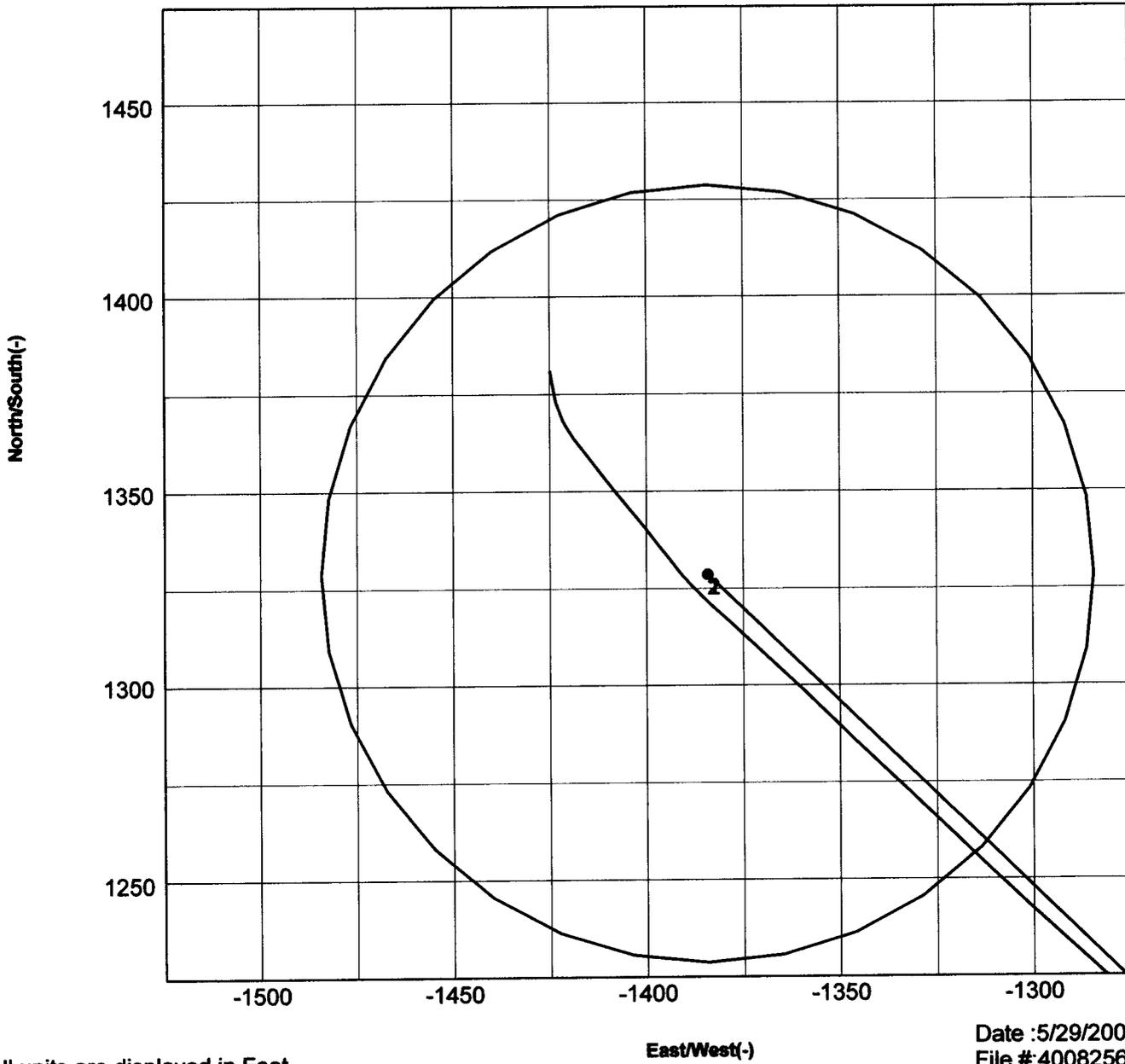
Bottom Hole Closure 1984.11ft Along Azimuth 314.10°



Plan View
WestWater State # 22-32

— Proposal

— Actual



All units are displayed in Feet.

Date :5/29/2006
File #:4008256

Rig Phone No.: 435-828-7987

MORNING REPORT

DATE: 6/2/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 19 OPER. @ RPT. TIME: MOVE RIG OFF
 DEPTH: 7555 FTG. LAST 24 Hr.s: 7444 FL. AVG. Ft/Hr. 0.0 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
2.0	CEMENTING W/ HALLIBURTON	1.) RU-TD	12.0	132.0
	LEAD CEMENT	2.) DRILLING		190.0
	835 SK OF G 25/754 POZ BULK LIME 8%GEL, 125 SK POLYFLAKE	3.) REAMING		5.5
	W/Rq 13.68 YIELD 2.4 LBS/ GAL 11.0	4.) CORING		0.0
	TAIL CEMENT	5.) CIRC.		17.5
	310 SK OF PREM.VALLEY TAIL 0.1% HR 5.0.125SK POLYFLAKE	6.) TRIP		70.5
	W/Rq 5.67 YIELD 1.26 LBS/GAL 13.6	7.) SERVICE		9.5
	START JOB @ 0453 SHUT DOWN @ 0659	8.) REPAIR		76.5
	AT 128 BBL OF LEAD CEMENT GONE, WE LOST RETURNS	9.) CUT DL		1.5
	12 BBLs LATER GAINED RETURNS BACK	10.) SURVEY		15.5
	GOOD PIPE MOVEMENT	11.) LOGGING		9.5
	FLOATS HELD BUT LEAKING BACK @ 2 GAL HRS	12.) CSG & CMT	2.0	14.0
	PLUG DID NOT BUMP FINEL P.S.I. WAS 1000	13.) WOC	2.5	2.5
		14.) NU & TEST	2.0	11.5
1.0	NIPPLE DOWN	15.) INSP. BHA		0.0
0.5	SET 4.5 CASING SLIPS @ 70000 LB	16.) DST		0.0
2.5	WAIT ON CEMENT FOR WELL TO STOP FLOWING BACK	17.) PLUGBACK		0.0
0.5	CUT OFF CASING	18.) LOST CIRC.		0.0
5.5	CLEAN PITS	19.) FISHING		23.5
12.0	RIG DOWN FOR RIG MOVE TO BMG #11 FOR LONE MOUNTAIN P.C.	20.) DIR. WORK		6.5
		CLEAN PITS	5.5	14.0
		Total Hours =	24.0	600.0
24.0	TOTAL HOURS			

MUD				PUMPS				
WT. IN	PH			NO. 1		NO. 2		
WT. OUT	PM			SIZE	6.0	9.0	6.0	9.0
VISC.	PF/MF			TYPE	F800	F800		
PV	CL			SPM				
YP	CA			BPS	.07476	.07476		
GELS	EX. LIME			PSI				
FL.	LCM			GPM	0.0	0.0		
CAKE 32nds	ECD			AVDC				
% SOLIDS	H2S PPM			AVDP				
% WATER	DAPP/LB/BB			STKS. SUR TO BIT				
% OIL				STKS. BIT TO SUR.				
% SAND				REDUCED PUMP RATE				

BIT RECORD									
	BIT NO. 2					BIT NO. 3			
SERIAL NO.	7108285					111301			
MFG / TYPE	HCC/HC506ZX					REEDDSX199GJVW			
SIZE	7 7/8					7 7/8			
JETS	6 16					3X12 3X14			
IN / OUT	5116/6172					6172			
WOB	8 / 10					15			
RPM	90/45					90/50			
FEET	1056					1382			
HOURS	57					54.5			
DULL	1	1	BU	ALL	1	2	WT	0	
GRADE	X	1	PN	PR	X	1	NO	TD	

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$73,170.00	\$7,095	\$80,265
MOBILIZATION	\$144,939.00	\$1,044	\$145,983
FOOTAGE / DAYWORK	\$381,198.00		\$381,198
MUD & CHEMICALS	\$62,912.11		\$62,912
CEM. SERV & FLT EQU.	\$27,566.00	\$45,928	\$73,496
BITS & BHA TOOLS	\$37,733.00		\$37,733
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$67,268.00	\$7,438	\$74,706
CASERS,WELD,LABOR	\$28,756.00	\$3,721	\$32,477
OVERHEAD	\$3,800.00	\$200	\$4,000
DIR. SERVICE / MOTOR	\$116,290.00		\$116,290
LOGGING	\$25,452.00		\$25,452
MISC. SERV & SUPP.	\$5,485.00	\$4,112	\$9,597
SUPERVISION	\$34,020.00	\$1,260	\$35,280
WATER	\$47,054.00		\$47,054
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$19,800.00		\$19,800
CASING / WELLHEAD	\$92,249.00	\$3,884	\$96,133
	\$18,228.00		\$18,228
PREV. CUM =	\$1,230,308		
TOTAL DAILY =		\$74,682	
TOTAL CUM =			\$1,304,991
DAILY MUD COSTS =		ACC. MUD COSTS =	\$63,915.86

DEVIATION RECORD							
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	EW	
7116	2.63	323.81	6719	1967	1363	1418	
7239	2.38	332.83	6842	1972	1368	1421	
7365	2.44	345.31	6968	1977	1373	1423	
7510	2.35	352.80	7113	1982	1379	1424	
7554	2.35	352.80	7157	1984	1380	1424	

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	4.5/XH	O.D. 4.5 HWDP	I.D. 2.75
NO.	CONN		O.D.	I.D.

DRILL PIPE				
NO.	CONN	4.5-XH	O.D. 4.5	I.D. 3.825
NO.	CONN		O.D.	I.D.

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 27 H.W.D.P. =851.41	

MUD		
GEL	poly	PAC-R
BAR:	LCM:	DAP
LIME:	DI-A-P	
CAUS:	Carb-A	

JUL 03 2006

Rig Phone No.: 435-828-7987

MORNING REPORT

DATE: 5/30/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 16 OPER. @ RPT. TIME: WIRE LINE LOG
 DEPTH: 7555 FTG. LAST 24 Hr.s: 1 FL. AVG. FTHr. 0.0 REPORT BY: MIKELINDSAY

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
1.0	CIRC & CONDITION	1.) RU-TD		120.0
3.0	SHORT TRIP	2.) DRILLING		190.0
0.5	REAM 30' TO BOTTOM	3.) REAMING	0.5	4.0
2.0	CIRC & CONDITION	4.) CORING		0.0
8.5	POOH FOR LOGGERS	5.) CIRC.	3.0	12.0
9.0	WIRE LINE LOGGING, LOGGERS DEPTH 7554'	6.) TRIP	11.5	57.0
		7.) SERVICE		8.5
		8.) REPAIR		63.0
		9.) CUT DL		1.5
		10.) SURVEY		15.5
		11.) LOGGING	9.0	9.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		6.5
				8.5
				528.0
24.0	TOTAL HOURS		Total Hours = 24.0	

MUD				PUMPS				BIT RECORD			
WT. IN	9.1	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO. 3	
WT. OUT		PM	0.01	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285	111301
VISC.	34	PF/MF	.01/4.50	TYPE	F800	F800			MFG / TYPE	HCC/HC506ZX	REEDDSX199J/VW
PV	7	CL	400	SPM					SIZE	7 7/8	7 7/8
YP	11	CA		BPS	.07476	.07476			JETS	6 16	3X12 3X14
GELS	3 / 5	EX. LIME		PSI					IN / OUT	5116/6172	6172
FL.	14	LCM		GPM	0.0	0.0			WOB	8 / 10	15
CAKE 32nds	2	ECD		AVDC					RPM	90/45	90/50
% SOLIDS	6	H2S PPM		AVDP					FEET	1056	1382
% WATER	94	DAPP/LB/BB	6.5	STKS. SUR TO BIT					HOURS	57	54.5
% OIL				STKS. BIT TO SUR.					DULL	1 1 BU ALL	
% SAND	TR			REDUCED PUMP RATE					GRADE	X 1 PN PR	

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$73,170.00		\$73,170
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$342,798.00	\$12,800	\$355,598
MUD & CHEMICALS	\$49,154.11	\$4,758	\$53,912
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$37,733.00		\$37,733
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$58,319.00	\$2,983	\$61,302
CASERS,WELD,LABOR	\$6,848.00		\$6,848
OVERHEAD	\$3,200.00	\$200	\$3,400
DIR. SERVICE / MOTOR	\$107,290.00	\$9,000	\$116,290
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$30,240.00	\$1,260	\$31,500
WATER	\$46,306.00		\$46,306
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$17,600.00	\$1,100	\$18,700
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$1,106,514		
TOTAL DAILY =	\$32,101		
TOTAL CUM =			\$1,138,615
DAILY MUD COSTS =	\$4,758.00	ACC. MUD COSTS =	\$49,158.00

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
7116	2.63	323.81	6719	1967	1363	1418
7239	2.38	332.93	6842	1972	1368	1421
7365	2.44	345.31	6968	1977	1373	1423
7510	2.35	352.80	7113	1982	1379	1424
7554	2.35	352.80	7157	1984	1380	1424

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
25	Conn	4.5XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE				
NO.	CONN	O.D.	I.D.	
143	CONN	4.5-XH	4.5	3.825
	CONN			

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 27 H.W.D.P. =851.41	

MUD			
GEL	69	poly	PAC-R
BAR:		LCM: 105 / 160	DAP
LIME:		DI-A-P	
CAUS:		MIQ 90	PIPER SEAL 97

RECEIVED

JUL 03 2006

DIV. OF OIL, GAS & MINING

Rig P. No.: 435-828-7967

MORNING REPORT

DATE: 5/28/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 15 OPER. @ RPT. TIME: CIRC & CONDITION
 DEPTH: 7554 FTG. LAST 24 Hr.s: 360 FL. AVG. FVHr: 24.0 REPORT BY: MIKELINDSAY

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
7.0	D/F 7192' TO 7378'	1.) RU- TD		120.0
1.0	RIG SERVICE & WORK ON PASON	2.) DRILLING	15.0	190.0
3.0	D/F 7378' TO 7460'	3.) REAMING		3.5
1.0	SURVEY	4.) CORING		0.0
5.0	D/F 7460' TO 7554', LOST CIRC @ 7553'	5.) CIRC.	7.0	9.0
7.0	PUMPED OUT 3JTS, AND BUILD VOLUME, BRING UP LCM TO 4% STAGE	6.) TRIP		45.5
	SLUGS BACK TO BOTTOM AND HOLDING WITH HALF RETURNS	7.) SERVICE	1.0	8.5
		8.) REPAIR		63.0
		9.) CUT DL		1.5
	TOP ENTRADA @ 7450', TVD 7053'	10.) SURVEY	1.0	15.5
		11.) LOGGING		0.0
	#17 7348' - 7376' 2.0-1.4-1.6 150-450-150 60% SS, 40% SH	12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NUJ & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		6.5
				8.5
		Total Hours =	24.0	504.0

MUD				PUMPS				BIT RECORD			
WT. IN	9.1	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO. 3	
WT. OUT		PM	0.01	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285	111301
VISC.	34	PF/MF	.01/4.50	TYPE	F800	F800			MFG / TYPE	HCC/HC506ZX	REEDDSX199GJVV
PV		CL	400	SPM		118			SIZE	7 7/8	7 7/8
YP	7	CA		BPS	.07476	.07476			JETS	6 16	3X12 3X14
GELS	3/5/	EX. LIME		PSI		1290			IN / OUT	5116/6172	6172
FL.	12.5	LCM		GPM	0.0	370.7			WOB	8 / 10	15
CAKE 32nds	2	ECD		AVDC					RPM	90/45	90/50
% SOLIDS	6	H2S PPM		AVDP					FEET	1056	1382
% WATER	94	DAPP/LB/BB	6.5	STKS. SUR TO BIT					HOURS	57	54.5
% OIL				STKS. BIT TO SUR.					DULL	1 1 BU ALL	
% SAND	TR			REDUCED PUMP RATE					GRADE	X 1 PN PR	

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$73,170.00		\$73,170
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$329,998.00	\$12,800	\$342,798
MUD & CHEMICALS	\$46,719.11	\$2,435	\$49,154
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$25,700.00	\$12,033	\$37,733
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$55,336.00	\$2,983	\$58,319
CASERS,WELD,LABOR	\$6,848.00		\$6,848
OVERHEAD	\$3,000.00	\$200	\$3,200
DIR. SERVICE / MOTOR	\$107,290.00		\$107,290
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$28,980.00	\$1,260	\$30,240
WATER	\$46,306.00		\$46,306
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$16,500.00	\$1,100	\$17,600
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$1,073,703		
TOTAL DAILY =	\$32,811		
TOTAL CUM =			\$1,106,514
DAILY MUD COSTS =	\$2,435.00	ACC. MUD COSTS =	\$49,156.00

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
7116	2.63	323.81	6719	1967	1363	1418
7230	2.38	332.93	6842	1972	1368	1421
7365	2.44	345.31	6968	1977	1373	1423
7510	2.35	352.80	7113	1982	1379	1424
7554	2.35	352.80	7157	1984	1380	1424

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
25	Conn	4.5/XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE				
NO.	CONN	O.D.	I.D.	
143	CONN	4.5-XH	4.5	3.825
	CONN			

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 27 H.W.D.P. =851.41	

MUD	
GEL	poly PAC-R 10
BAR	LIME DAP 10
LIME	DI-A-P WALL NUT PLUG 25
CAUS	Carb. WSP 5

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY :

WELL NAME :

LOCATION :

CITY / COUNTY :

STATE :

NATIONAL FUEL CORPORATION

WESTWATER STATE #22-32

SEC 32 T16S R24E

GRAND COUNTY

UTAH

NUMBER	15
DATE	5/28/08
TIME	5:00AM
DEPTH	7554'
PREV DEPT	7173

RIG ACTIVITY	DRILLING - LOST CIRCULATION	FEET/24HRS	381'
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DRILLING DATA	
DEPTH AT MIDNIGHT	7554
AVERAGE ROP FT/HR	21
AVERAGE WT ON BIT	13
ROTARY RPM'S	36
PUMP PRESSURE	1120
STROKES PER MINUTE	118

BIT DATA		SURVEY DATA	
MAKE	BIT #3	DEPTH	ANGLE
REED			
MODEL	DSX199		
DEPTH IN	6172'		
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	100
MAX BACKGROUND GAS	150
CONNECTION GAS	200
MAX CONNECTION GAS	300
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.1
VISCOSITY	34
PLASTIC VIS	7
YIELD POINT	11
PH	8.0
CHL	400

LITHOLOGY

60% SH LTRD-RED CRM PNK MOD SFT-FIRM SM SBWXY SLCALC PLTY SBBLKY TR LS GLD FLOR
40% SS CLR TAN CRM FIRM HD VFG FG SBRND SBANG SLCALC MTX MOD SRT NSFOC

TOP ENTRADA @7450' TVD 7053'

SHOWS	DRILL RATE	GAS	LITHOLOGY
#17 7348'-7376'	2.0-1.4-1.6	150-450-150	60% SS, 40% SH

REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/28/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 14 OPER. @ RPT. TIME: DRILLING
 DEPTH: 7194 FTG. LAST 24 Hrs: 582 FL. AVG. Ft/hr: 27.1 REPORT BY: MIKELINDSAY

ACTIVITY LAST 24 HOURS					DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION				ACTIVITY	HOURS	ACC. HR.S
9.0	D/F 6612' TO 6912'				1.) RU- TD		120.0
0.5	RIG SERVICE				2.) DRILLING	21.5	175.0
0.5	D/F 6912' TO 6942'				3.) REAMING		3.5
1.0	SURVEY				4.) CORING		0.0
12.0	D/F 6942' TO 7194'				5.) CIRC.		2.0
1.0	SURVEY				6.) TRIP		45.5
					7.) SERVICE	0.5	7.5
	TOP DAKOTA SILT @ 6630' TVD 6239', TOP DAKOTA @ 6749' TVD 6354'				8.) REPAIR		63.0
	TOP CEDER MTN 6867' TVD 6452', TOP MORRISON 6897' TVD 6502'				9.) CUT DL		1.5
	SHOWS DRILL RATE GAS LITHOLOGY				10.) SURVEY	2.0	14.5
	#13 6634' - 6694'	3.1-0.9-2.8	30-700-200	80% SS, 20%SH	11.) LOGGING		0.0
	#14 6710' - 6764'	0.8-0.6-1.5	200-700-300	80%SS, 20% SH	12.) CSG & CMT		0.0
	#15 6776' - 6834'	0.8-0.5-3.8	300-850-350	80% SS, 20% SH COAL	13.) WOC		0.0
	#16 6850' - 6916'	3.0-0.6-1.5	350-850-300	90% SS, 10%SH	14.) NU & TEST		9.0
					15.) INSP. BHA		0.0
					16.) DST		0.0
					17.) PLUGBACK		0.0
					18.) LOST CIRC.		0.0
					19.) FISHING		23.5
					20.) DIR. WORK		6.5
							8.5
					Total Hours =	24.0	480.0

MUD				PUMPS				BIT RECORD			
WT. IN	9.1	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO. 3	
WT. OUT		PM	0.01	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285	111301
VISC.	34	PF/MF	.01/ 4.80	TYPE	F800	F800			MFG / TYPE	HCC/HC506ZX	REEDDSX199GJWW
PV		CL	400	SPM					SIZE	7 7/8	7 7/8
YP	9	CA		BPS	.07476	.07476			JETS	6 16	3X12 3X14
GELS	3 / 5	EX. LIME		PSI					IN / OUT	5116/6172	6172
FL.	12	LCM		GPM	0.0	0.0			WOB	8 / 10	15
CAKE 32nds	2 /	ECD		AVDC					RPM	90/45	90/50
% SOLIDS	6	H2S PPM		AVDP					FEET	1056	1022
% WATER	94	DAPP/LB/BB	6.5	STKS. SUR TO BIT					HOURS	57	39.5
% OIL				STKS. BIT TO SUR.					DULL	1 1 BU ALL	
% SAND	TR			REDUCED PUMP RATE					GRADE	X 1 PN PR	

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$73,170.00		\$73,170
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$317,198.00	\$12,800	\$329,998
MUD & CHEMICALS	\$40,156.11	\$6,563	\$46,719
GEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$25,700.00		\$25,700
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$52,353.00	\$2,983	\$55,336
GASERS, WELD, LABOR	\$3,987.00	\$2,861	\$6,848
OVERHEAD	\$2,800.00	\$200	\$3,000
DIR. SERVICE / MOTOR	\$99,740.00	\$7,550	\$107,290
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$27,720.00	\$1,280	\$28,980
WATER	\$46,306.00		\$46,306
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$15,400.00	\$1,100	\$16,500
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$1,038,386		
TOTAL DAILY =		\$35,317	
TOTAL CUM =			\$1,073,703
DAILY MUD COSTS =	\$6,563.00	ACC. MUD COSTS =	31,086.11

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
6744	4.06	320.31	6348	1944	1345	1404
6836	3.94	321.43	6440	1951	1350	1408
6829	3.88	322.31	6533	1957	1355	1412
7022	3.06	321.50	6626	1963	1359	1415
7118	2.63	323.81	6719	1967	1363	1418

WEIGHT			
STRING WT.	P / U	S / O	TORQUE
140	184	126	

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
25	Conn	4.5XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE				
NO.	CONN	O.D.	I.D.	
143	CONN	4.5-XH	4.5	3.825
	CONN			

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 27 H.W.D.P. =851.41	

MUD			
GEL	poly	2	PAC-R 5
BAR:	LCM:	20	DAP 20
LIME:	DIAP WALL NUT PIG 35		
CAUS:	Carb. ASPHALT SUPRE 55 SKS		

JUL 03 2006

DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	14
DATE	5/28/06
TIME	5:00AM
DEPTH	7173'
PREV DEPT	6602

RIG ACTIVITY	DRILLING	FEET/24HRS	571'
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DRILLING DATA	
DEPTH AT MIDNIGHT	7076
AVERAGE ROP FT/HR	24
AVERAGE WT ON BIT	12
ROTARY RPM'S	40
PUMP PRESSURE	1300
STROKES PER MINUTE	117

BIT DATA		BIT #3	SURVEY DATA	
MAKE	REED		DEPTH	ANGLE
MODEL	DSX199		6557	4.25
DEPTH IN	6172'		6650	4.19
SIZE	8' 3/4"		6744	4.06
			6836	3.94
			6929	3.88
			7022	3.06
			7116	2.63

GAS DATA	
BACKGROUND GAS	130
MAX BACKGROUND GAS	150
CONNECTION GAS	200
MAX CONNECTION GAS	300
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.1
VISCOSITY	34
PLASTIC VIS	9
YIELD POINT	10
PH	8.0
CHL	400

LITHOLOGY

80% SH DKGY-BLK FIRM-HD GRTY-RTHY SLCALC SBBLKY SBPLTY CARBOUS IP SLI SLTST
20% SS CLR DKGY S&P IP FIRM-BRIT VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

TOP DAKOTA SILT @6630' TVD 6239', TOP DAKOTA @6749' TVD 6354', TOP CEDAR MTN 6847' TVD 6452'
TOP MORRISON 6897', TVD 6502'

SHOWS	DRILL RATE	GAS	LITHOLOGY
#13 6634'-6694'	3.1-0.9-2.8	30-700-200	80% SS, 20% SH
#14 6710'-6764'	0.8-0.6-1.5	200-700-300	80% SS, 20% SH
#15 6776'-6834'	0.8-0.5-3.8	300-850-350	80% SS, 20% SH COAL
#16 6850'-6916'	3.0-0.6-1.5	350-850-300	90% SS, 10% SH

REMARKS

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422
Dallas Miller
Kevin Peters
chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	13
DATE	5/27/06
TIME	6:00AM
DEPTH	6602'
PREV DEPTH	6172

RIG ACTIVITY	DRILLING	FEET/24HRS	430'
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DRILLING DATA	
DEPTH AT MIDNIGHT	6492'
AVERAGE ROP FT/HR	18'
AVERAGE WT ON BIT	10
ROTARY RPM'S	38
PUMP PRESSURE	1250
STROKES PER MINUTE	117

BIT DATA		BIT #3	RR BIT #2	SURVEY DATA	
MAKE	RTE			DEPTH	ANGLE
MODEL	DSX199			6274'	10.38
DEPTH IN	6172'			6368'	7.50
SIZE	8' 3/4"			6463'	5.69

GAS DATA	
BACKGROUND GAS	47
MAX BACKGROUND GAS	58
CONNECTION GAS	60
MAX CONNECTION GAS	109
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	33
PLASTIC VIS	10
YIELD POINT	9
PH	8.0
CHL	400

LITHOLOGY
80% SH DKGY-BLK FIRM-HD GRTY-RTHY SLCALC SBBLKY SBPLTY CARBOUS IP SLI SLTST
20% SS CLR DKGY S&P IP FIRM-BRIT VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 6/26/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 12 OPER. @ RPT. TIME: TRIPPING
 DEPTH: 6172 FTG. LAST 24 Hr.s: 227 FL. AVG. Ft/Hr. 15.7 REPORT BY: MIKELINDSAY

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
11.0	D/F 5945' TO 6120'	1.) RU-TD		120.0
1.0	RIG SERVICE	2.) DRILLING	14.5	135.5
3.5	D/F 6120' TO 6172'	3.) REAMING		3.0
0.5	PUMP OUT 2 JTS D/P	4.) CORING		0.0
5.0	POOH	5.) CIRC.		2.0
1.5	CHANGE OUT BATTERY IN MWD	6.) TRIP	6.0	43.0
1.5	TIH, PICK UP 2 JTS HWDP	7.) SERVICE	1.0	6.5
		8.) REPAIR		62.5
		9.) CUT DL		1.5
		10.) SURVEY		10.5
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
	BACKGROUND GAS 32	13.) WOC		0.0
		14.) NU & TEST		9.0
	CONNECTION GAS 58	15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
	BIT WAS BALLED UP	18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK	1.5	6.5
			1.0	8.5
			Total Hours =	24.0
				432.0

MUD				PUMPS				BIT RECORD			
WT. IN	9.0	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO. 3	
WT. OUT		PM	TR	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285	111301
VISC.	33	PF/MF	TR/5.5	TYPE	F800	F800			MFG / TYPE	HCC/HC506ZX	REEDDSX199GJWW
PV	9	CL	400	SPM		118			SIZE	7 7/8	7 7/8
YP	5	CA		BPS	.07476	.07476			JETS	6 16	3X12 3X14
GELS	1/2/	EX. LIME		PSI		1200			IN / OUT	5116/6172	
FL.	14.8	LCM		GPM	0.0	370.7			WOB	8 /10	
CAKE 32nds	2/-	ECD		AVDC					RPM	90/45	
% SOLIDS	6	H2S PPM		AVDP					FEET	1056	
% WATER		DAPP/LB/BB	6.125	STKS. SUR TO BIT					HOURS	57	
% OIL				STKS. BIT TO SUR.					DULL	1 1 BU ALL	
% SAND	1/8			REDUCED PUMP RATE					GRADE	X 1 PN PR	

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$291,588.00	\$12,800	\$304,398
MUD & CHEMICALS	\$33,055.11	\$2,128	\$35,183
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$46,387.00	\$2,983	\$49,370
CASERS, WELD, LABOR	\$3,987.00		\$3,987
OVERHEAD	\$2,400.00	\$200	\$2,600
DIR. SERVICE / MOTOR	\$86,140.00	\$6,800	\$92,940
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$25,200.00	\$1,260	\$26,460
WATER	\$44,575.00		\$44,575
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$13,200.00	\$1,100	\$14,300
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$964,058		
TOTAL DAILY =		\$27,271	
TOTAL CUM =			\$991,329
DAILY MUD COSTS =	\$2,128.00	ACC. MUD COSTS =	\$1,066.11

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
5712	17.88	312.06	5336	1783	1219	1274
5806	17.56	312.18	5425	1782	1238	1295
5900	15.50	313.95	5515	1819	1258	1315
5994	13.25	313.43	5606	1842	1272	1332
6087	11.44	313.81	5697	1862	1286	1346

WEIGHT			
STRING WT.	P / U	S / O	TORQUE
105	140	95	

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
25	Conn	4.5/XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE			
NO.	CONN	O.D.	I.D.
143	CONN	4.5-XH	4.5
	CONN		

BHA			
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -			
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =851.41			

MUD			
GEL	poly	20 GAL	PAC-R 5
BAR:	LCM:	W-NUT 60	DAP
LIME:	DI-A-P 12		
CAUS:	Carb-N		

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422
Dallas Miller
Kevin Peters
chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	12
DATE	5/28/06
TIME	6:00AM
DEPTH	6172'
PREV DEPT	5928

RIG ACTIVITY	DRILLING - TRIP FOR BIT @6172'	FEET/24HRS	244'
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DRILLING DATA	
DEPTH AT MIDNIGHT	6172
AVERAGE ROP FT/HR	15
AVERAGE WT ON BIT	12
ROTARY RPM'S	41+MM
PUMP PRESSURE	1150
STROKES PER MINUTE	118

BIT DATA		BIT #3	RR BIT #2	SURVEY DATA	
MAKE	RTE	HCC	DEPTH	ANGLE	
MODEL	DSX199	HC506ZX	5994	13.25	
DEPTH IN	6172'	5116'	6087	11.44	
SIZE	8' 3/4"	8' 3/4"			

GAS DATA	
BACKGROUND GAS	32
MAX BACKGROUND GAS	38
CONNECTION GAS	58
MAX CONNECTION GAS	63
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	33
PLASTIC VIS	9
YIELD POINT	5
PH	8.0
CHL	400

LITHOLOGY
70% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST
30% SS DKGY OFF WH S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS RECALBRATED GAS EQUIPMENT

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/25/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 11 OPER. @ RPT. TIME: DRILLING
 DEPTH: 5945 FTG. LAST 24 Hr.s: 344 FL. AVG. FvHr: 18.6 REPORT BY: MIKELINDSAY

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
2.5	TIH BIT #2	1.) RU- TD		120.0
0.5	REAM 42' TO BOTTOM , NO FILL	2.) DRILLING	18.5	121.0
6.0	D/F 5601 TO 5694'	3.) REAMING	0.5	3.0
0.5	RIG SERVICE	4.) CORING		0.0
1.5	D/F 5694' TO 5725'	5.) CIRC.		2.0
1.0	SURVEY	6.) TRIP	2.5	37.0
11.0	D/F 5725' TO 5945'	7.) SERVICE	0.5	5.5
1.0	SURVEY	8.) REPAIR		62.5
		9.) CUT DL		1.5
		10.) SURVEY	2.0	10.5
		11.) LOGGING		0.0
	BACKGROUND GAS 350	12.) CSG & CMT		0.0
		13.) WOC		0.0
	CONNECTION GAS 550	14.) NUJ & TEST		9.0
		15.) INSP. BHA		0.0
	TRIP GAS 828	16.) DST		0.0
		17.) PLUGBACK		0.0
	ADD WALL NUT AND MICA FOR BALLING	18.) LOST CIRC.		0.0
	CHANGED WT. ON BIT TO 10K	19.) FISHING		23.5
		20.) DIR. WORK		5.0
				7.5
				24.0
				408.0
24.0	TOTAL HOURS			

MUD			
WT. IN	9.1	PH	8
WT. OUT		PM	NIL/5.2
VISC.	34	PF/MF	NIL/5.2
PV	11	CL	400
YP	8	CA	
GELS	1/2	EX. LIME	
FL.	11.2	LCM	
CAKE 32nds	2	ECD	
% SOLIDS	6.5	H2S PPM	
% WATER	93.5	DAPP/LB/BB	6
% OIL			
% SAND	1/8		

PUMPS			
	NO. 1	NO. 2	
SIZE	6.0 9.0	6.0	9.0
TYPE	F800	F800	
SPM			
BPS	.07476	.07476	
PSI			
GPM	0.0	0.0	
AVDC			
AVDP			
STKS. SUR TO BIT			
STKS. BIT TO SUR.			
REDUCED PUMP RATE			

BIT RECORD			
	BIT NO.	2	BIT NO.
SERIAL NO.	7108285		
MFG / TYPE	HCC/HC506ZX		
SIZE	7 7/8		
JETS	6 16		
IN / OUT	5116/5600		
WOB	8 /10		
RPM	90/45		
FEET	829		
HOURS	42.5		
DULL			
GRADE			

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$68,560.00		\$68,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$278,798.00	\$12,800	\$291,598
MUD & CHEMICALS	\$31,086.11	\$1,959	\$33,055
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$43,404.00	\$2,983	\$46,387
CASERS, WELD, LABOR	\$3,987.00		\$3,987
OVERHEAD	\$2,200.00	\$200	\$2,400
DIR. SERVICE / MOTOR	\$79,340.00	\$6,800	\$86,140
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$23,940.00	\$1,260	\$25,200
WATER	\$44,575.00		\$44,575
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$12,100.00	\$1,100	\$13,200
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$838,956		
TOTAL DAILY =		\$27,182	
TOTAL CUM =			\$864,058
DAILY MUD COSTS =	\$1,959.00	ACC. MUD COSTS =	\$31,086.11

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
5524	21.56	313.43	5160	1696	1174	1226
5617	21.25	312.81	5246	1732	1197	1251
5712	17.88	312.06	5336	1763	1219	1274
5806	17.56	312.18	5425	1792	1238	1295
5900	15.50	313.95	5515	1819	1256	1315
WEIGHT						
STRING WT.	P / U	S / O	TORQUE			
DRILL COLLARS						
NO. 25	Conn	4.5/XH	O.D. 4.5	HWDP	I.D. 2.75	
NO.	CONN		O.D.		I.D.	
DRILL PIPE						
NO. 143	CONN	4.5-XH	O.D. 4.5		I.D. 3.825	
NO.	CONN		O.D.		I.D.	
BHA						
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -						
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =851.41						
MUD						
GEL	40	poly	5 GAL	PAC-R	2	
BAR:	40	LCM:		DAP		
LIME:		DI-A-P				
CAUS:		Carb-N				

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422
Dallas Miller
Kevin Peters
chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	11
DATE	5/25/06
TIME	6:00AM
DEPTH	5928'
PREV DEPTH	5601

RIG ACTIVITY	TRIP FOR BIT @5601' - DRILLING	FEET/24HRS	327'
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DRILLING DATA	
DEPTH AT MIDNIGHT	5823
AVERAGE ROP FT/HR	18
AVERAGE WT ON BIT	8
ROTARY RPM'S	41+MM
PUMP PRESSURE	1100
STROKES PER MINUTE	118

BIT DATA		RR BIT #2	SURVEY DATA	
MAKE	HCC		DEPTH	ANGLE
MODEL	HC506ZX		5617	21.25
DEPTH IN	5116'		5712	17.88
SIZE	8' 3/4"		5806	17.56
			5900	15.50

GAS DATA	
BACKGROUND GAS	350
MAX BACKGROUND GAS	400
CONNECTION GAS	550
MAX CONNECTION GAS	750
TRIP GAS	828
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.1
VISCOSITY	34
PLASTIC VIS	11
YIELD POINT	8
PH	8.0
CHL	400

LITHOLOGY
80% SH DKGY-GY FIRM HD GR TY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST
20% SS DKGY OFF WH S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/24/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 10 OPER. @ RPT. TIME: TRIP IN HOLE
 DEPTH: 5601 FTG. LAST 24 Hr.s: 249 FL. AVG. Ft/Hr. 16.1 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
6.5	DRILLING F/ 5952 TO 5476	1.) RU- TD		120.0
0.5	RIG SERVICE	2.) DRILLING	15.5	102.5
4.0	DRILLING F/ 5476 TO 5585	3.) REAMING		2.5
1.0	SURVEYS	4.) CORING		0.0
5.0	DRILLING 5585 TO 5601	5.) CIRC.		2.0
5.0	LAY DOWN 2 JT PUMP PILL T.O.H.	6.) TRIP	7.0	34.5
	BIT BALLED UP + 3 PLUGGED NOZZLE/ FLOW PASSAGE	7.) SERVICE	0.5	5.0
2.0	RR BIT #2 T.I.H.	8.) REPAIR		62.5
		9.) CUT DL		1.5
		10.) SURVEY	1.0	8.5
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		5.0
				7.5
				384.0
		Total Hours =	24.0	

MUD				PUMPS				BIT RECORD								
WT. IN	9	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO.						
WT. OUT		PM	NIL	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285						
VISC.	37	PF/MF	NIL/5.0	TYPE	F800		F800		MFG / TYPE	HCC/HC506ZX						
PV	10	CL	400	SPM					SIZE	7 7/8						
YP	10	CA		BPS	.07476		.07476		JETS	6 16						
GELS	1/2	EX. LIME		PSI					IN / OUT	5116/5600						
FL.	11.4	LCM		GPM	0.0		0.0		WOB	15/20						
CAKE 32nds	2	ECD		AVDC					RPM	90/45						
% SOLIDS	6	H2S PPM		AVDP					FEET	484						
% WATER	94	DAPP/LB/BB	6	STKS. SUR TO BIT					HOURS	24						
% OIL				STKS. BIT TO SUR.					DULL	0	0	BU	ALL			
% SAND	1/8			REDUCED PUMP RATE					GRADE	X	I	PN	PR			

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$265,966.00	\$12,800	\$278,798
MUD & CHEMICALS	\$29,380.35	\$1,716	\$31,096
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$40,421.00	\$2,983	\$43,404
CASERS, WELD, LABOR	\$2,587.00	\$1,400	\$3,987
OVERHEAD	\$2,000.00	\$200	\$2,200
DIR. SERVICE / MOTOR	\$72,540.00	\$6,800	\$79,340
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$22,680.00	\$1,260	\$23,940
WATER	\$44,575.00		\$44,575
DISPOSAL	\$0.00		\$0
FUEL	\$37,757.00		\$37,757
MUD LOGGER	\$11,000.00	\$1,100	\$12,100
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$906,697		
TOTAL DAILY =		\$28,259	
TOTAL CUM =			\$936,956
DAILY MUD COSTS =	\$1,715.56	ACC. MUD COSTS =	\$31,096.11

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
5244	2294	313	4901	1591	1100	1148
5336	22.81	313.81	4967	1627	1125	1175
5431	22.38	313.56	5073	1663	1150	1201
5524	21.56	313.43	5160	1698	1174	1226

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	O.D.	H.W.D.P.	I.D.
25	Conn	4.5/XH	4.5	2.75
	CONN			

DRILL PIPE			
NO.	CONN	O.D.	I.D.
143	CONN	4.5-XH	4.5
	CONN		

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =851.41	

MUD			
GEL	poly	4	PAC-R 4
BAR:	LCM:		DAP
LIME:			
CAUS:			

JUL 03 2006

DIV. OF OIL, GAS & MINING

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CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	10
DATE	5/24/06
TIME	5:00AM
DEPTH	5601'
PREV DEPT	5329

RIG ACTIVITY	DRILLING - TRIP FOR BIT @5601'	FEET/24HRS	272'
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DRILLING DATA	
DEPTH AT MIDNIGHT	5601
AVERAGE ROP FT/HR	34
AVERAGE WT ON BIT	16
ROTARY RPM'S	39+MM
PUMP PRESSURE	1220
STROKES PER MINUTE	108

BIT DATA	BIT #3	BIT #2	SURVEY DATA	
MAKE	HCC	HCC	DEPTH	ANGLE
MODEL	HC506ZX	HC506ZX	5338	22.81
DEPTH IN	5601'	5116'	5431	22.38
SIZE	8' 3/4"	8' 3/4"	5524	21.56

GAS DATA	
BACKGROUND GAS	620
MAX BACKGROUND GAS	670
CONNECTION GAS	720
MAX CONNECTION GAS	750
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	37
PLASTIC VIS	10
YIELD POINT	10
PH	8.0
CHL	400

LITHOLOGY
80% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST TR PYR
20% SS DKGY OFF WH S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/23/2006

OPERATOR: NATIONAL FUEL CORPORATION

LEASE & WELL: WESTWATER STATE # 22-32

PROSPECT: PARADISE HILL

COUNTY: GRAND COUNTY

STATE: UTAH

RIG: UNION RIG 7

SPUD DATE: 5/14/2006 DFS: 9

OPER. @ RPT. TIME: DRILLING

DEPTH: 5352

FTG. LAST 24 Hrs: 236 Fl. AVG. Ft/Hr. 27.8

REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS

DESCRIPTIVE HOURLY BREAKDOWN

HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
5.5	REPAIR RIG WAIT ON DRUM	1.) RU- TD		120.0
7.0	REPAIR RIG INSTALL DRUM	2.) DRILLING	8.5	87.0
1.5	TRIP IN HOLE	3.) REAMING	1.0	2.5
1.0	REAM 60' TO BOTTEM NO FILL	4.) CORING		0.0
8.5	DRILLING 5116 TO 5352'	5.) CIRC.		2.0
0.5	SYRVEYS	6.) TRIP	1.5	27.5
		7.) SERVICE		4.5
		8.) REPAIR	12.5	62.5
		9.) CUT DL		1.5
		10.) SURVEY	0.5	7.5
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		5.0
				7.5
				360.0
		Total Hours = 24.0		

24.0 TOTAL HOURS

MUD

PUMPS

BIT RECORD

WT. IN	9.0	PH	8				
WT. OUT		PM	NIL				
VISC.	34	PF/MF	NIL/MF				
PV	11	CL	400				
YP	7	CA	0				
GELS	0/1	EX. LIME					
FL.	11.8	LCM					
CAKE 32nds	2	ECD					
% SOLIDS	6	H2S PPM					
% WATER	94	DAPP/LB/BB	6.125				
% OIL							
% SAND	NIL						

	NO. 1		NO. 2	
SIZE	6.0	9.0	6.0	9.0
TYPE	F800		F800	
SPM	112			
BPS	.07476	.07476		
PSI	1155			
GPM	351.8	0.0		
AVDC				
AVDP				
STKS. SUR TO BIT				
STKS. BIT TO SUR.				
REDUCED PUMP RATE				

	BIT NO. 2	BIT NO.
SERIAL NO.	7108285	
MFG / TYPE	HCC/HC506ZX	
SIZE	7 7/8	
JETS	6 16	
IN / OUT	5116	
WOB	15/20	
RPM	90/45	
FEET	236	
HOURS	8.5	
DULL		
GRADE		

DAILY COSTS RECORD

DEVIATION RECORD

ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$259,598.00	\$6,400	\$265,998
MUD & CHEMICALS	\$27,358.72	\$2,024	\$29,380
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$37,438.00	\$2,983	\$40,421
CASERS, WELD, LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,800.00	\$200	\$2,000
DIR. SERVICE / MOTOR	\$85,740.00	\$6,800	\$72,540
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$21,420.00	\$1,260	\$22,680
WATER	\$43,826.00	\$749	\$44,575
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00	\$14,949	\$37,757
MUD LOGGER	\$9,900.00	\$1,100	\$11,000
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$872,233		
TOTAL DAILY =	\$36,465		
TOTAL CUM =			\$908,697
DAILY MUD COSTS =	\$2,023.63	ACC. MUD COSTS =	\$26,287.12

DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
4876	24.44	311	4564	1442	1001	1037
4970	24.63	311	4650	1481	1027	1067
5064	23.75	310	4736	1519	1052	1096
5151	2344	313	4815	1554	1075	1121
5244	2294	313	4901	1591	1100	1148

WEIGHT			
STRING WT.	P / U	S / O	TORQUE
114000	140000	100000	1RAP

DRILL COLLARS				
NO. 25	Conn	4.5/XH	O.D. 4.5 HWDP	I.D. 2.75
NO.	CONN		O.D.	I.D.

DRILL PIPE			
NO. 148	CONN	4.5-XH	O.D. 4.5 I.D. 3.825
NO.	CONN		O.D. I.D.

BHA			
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -			
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =851.41			

MUD			
GEL	24	poly	4 PAC-R 4
BAR:		LCM	DAP
LIME:		DI-APP 10	
CAUS:	Carb-		

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CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	9
DATE	5/23/06
TIME	5:00AM
DEPTH	5329'
PREV DEPT	5116'

RIG ACTIVITY	TRIP FOR BIT @5116', RIG SERVICE, DRILLING 8:00PM	FEET/24HRS	213'
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DRILLING DATA	
DEPTH AT MIDNIGHT	5212'
AVERAGE ROP FT/HR	23
AVERAGE WT ON BIT	16
ROTARY RPM'S	39
PUMP PRESSURE	1220
STROKES PER MINUTE	108

BIT DATA		SURVEY DATA	
MAKE	HCC	DEPTH	ANGLE
MODEL	HC506ZX	5161	23.44
DEPTH IN	5116'	5244	22.94
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	620
MAX BACKGROUND GAS	670
CONNECTION GAS	720
MAX CONNECTION GAS	800
TRIP GAS	800
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	34
PLASTIC VIS	11
YIELD POINT	7
PH	8.0
CHL	400

LITHOLOGY
80% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST
20% SS DKGY OFF WH S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
SHOWS#12	1.0-0.8-0.9	250-800-200	40% SS 60% SH

REMARKS

Rig Phone No.: 435-828-7987

MORNING REPORT

DATE: 5/22/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 8 OPER. @ RPT. TIME:
 DEPTH: FTG. LAST 24 Hr.s: -5116 FL. AVG. FTHr. 0.0 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
24.0	WATE ON DRUM REPAIED & RETURNED	1.) RU- TD		120.0
		2.) DRILLING		78.5
		3.) REAMING		1.5
		4.) CORING		0.0
		5.) CIRC.		2.0
		6.) TRIP		26.0
		7.) SERVICE		4.5
		8.) REPAIR	24.0	50.0
		9.) CUT DL		1.5
		10.) SURVEY		7.0
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		5.0
				7.5
			Total Hours =	24.0
				336.0

MUD				PUMPS				BIT RECORD					
WT. IN	8.9	PH	8	SIZE	NO. 1		NO. 2		SERIAL NO.	BIT NO. 2		BIT NO.	
WT. OUT		PM	NIL		6.0	9.0	6.0	9.0	7108285				
VISC.	33	PF/MF	NIL/4.4	TYPE	F800		F800		MFG / TYPE	HCC/HC506ZX			
PV	9	CL	400	SPM					SIZE	7 7/8			
YP	5	CA	0	BPS	.07476		.07476		JETS	6 16			
GELS	0/1/1	EX. LIME		PSI					IN / OUT	5116			
FL.	11	LCM		GPM	0.0		0.0		WOB				
CAKE 32nds	2	ECD		AVDC					RPM				
% SOLIDS	5	H2S PPM		AVDP					FEET				
% WATER	95	DAPP/LB/BB	6	STKS. SUR TO BIT					HOURS				
% OIL				STKS. BIT TO SUR.					DULL				
% SAND	NIL			REDUCED PUMP RATE					GRADE				

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$259,598.00		\$259,598
MUD & CHEMICALS	\$27,356.72		\$27,357
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$34,455.00	\$2,983	\$37,438
CASERS,WELD,LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,600.00	\$200	\$1,800
DIR. SERVICE / MOTOR	\$59,300.00	\$6,440	\$65,740
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$20,160.00	\$1,260	\$21,420
WATER	\$43,826.00		\$43,826
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$8,800.00	\$1,100	\$9,900
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$860,250		
TOTAL DAILY =		\$11,983	
		TOTAL CUM =	\$872,233
DAILY MUD COSTS =		ACC. MUD COSTS =	\$24,263.48

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
4688	25	312.81	1394.04	363.54	948.28	979.85
4782	24.69	312	4479	1403	975	1008
4876	24.44	311	4584	1442	1001	1037
4970	24.63	311	4650	1481	1027	1067
5064	23.75	310	4736	1519	1052	1096
WEIGHT						
STRING WT.	P / U	S / O	TORQUE			
DRILL COLLARS						
NO. 25	Conn	4.5/XH	O.D. 4.5	HWDP	I.D. 2.75	
NO.	CONN		O.D.		I.D.	
DRILL PIPE						
NO. 122	CONN	4.5-XH	O.D. 4.5		I.D. 3.825	
NO.	CONN		O.D.		I.D.	
BHA						
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -						
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41						
MUD						
GEL	poly		PAC-R			
BAR:	LCM:		DAP			
LIME:						
CAUS:						

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DIV. OF OIL, GAS & MINING

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CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	8
DATE	5/22/06
TIME	5:00AM
DEPTH	5116'
PREV DEPT:	5116'

RIG ACTIVITY	TRIP FOR BIT @5116' RIG SERVICE	FEET/24HRS	0'
---------------------	---------------------------------	-------------------	----

DRILLING DATA	
DEPTH AT MIDNIGHT	5116
AVERAGE ROP FT/HR	0
AVERAGE WT ON BIT	0
ROTARY RPM'S	0
PUMP PRESSURE	0
STROKES PER MINUTE	0

BIT DATA		SURVEY DATA	
MAKE	BIT #2	DEPTH	ANGLE
HCC			
MODEL	HC506ZX		
DEPTH IN	5116'		
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	600
MAX BACKGROUND GAS	650
CONNECTION GAS	700
MAX CONNECTION GAS	800
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	35
PLASTIC VIS	11
YIELD POINT	6
PH	8.0
CHL	400

LITHOLOGY

80% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST
20% SS DKGY OFF WH GY FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/21/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 7 OPER. @ RPT. TIME: REPAIR RIG
 DEPTH: 5116 FTG. LAST 24 Hr.s: 0 FL. AVG. FVHr. 0.0 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
2.0	REPAIR RIG -WORK ON BUSHING ROLLERS	1.) RU- TD		120.0
10.0	REPAIR RIG WORK ON DRAWS WORKS W.O. RIG MECHANIC	2.) DRILLING		78.5
1.5	PULL DRUM UUT OF DRAW WORKS	3.) REAMING		1.5
10.5	WAIT ON DRUM TO BE RAPAIED W/ NEW BEARINGS & RETURNED	4.) CORING		0.0
		5.) CIRC.		2.0
		6.) TRIP		26.0
		7.) SERVICE		4.5
		8.) REPAIR	24.0	26.0
		9.) CUT DL		1.5
		10.) SURVEY		7.0
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		5.0
				7.5
		Total Hours =		24.0
				312.0

MUD				PUMPS				BIT RECORD			
WT. IN	8.9	PH	8	NO. 1		NO. 2		BIT NO. 2		BIT NO.	
WT. OUT		PM	NIL	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	7108285	
VISC.	33	PF/MF	NIL/4.4	TYPE	F800		F800		MFG / TYPE	HCC/HC506ZX	
PV	9	CL	400	SPM					SIZE	7 7/8	
YP	5	CA	0	BPS	.07476		.07476		JETS	6 16	
GELS	0/1/1	EX. LIME		PSI					IN / OUT	5116	
FL.	11	LCM		GPM	0.0		0.0		WOB		
CAKE 32nds	2	ECD		AVDC					RPM		
% SOLIDS	5	H2S PPM		AVDP					FEET		
% WATER	95	DAPP/LB/BB	6	STKS. SUR TO BIT					HOURS		
% OIL				STKS. BIT TO SUR.					DULL		
% SAND	NIL			REDUCED PUMP RATE					GRADE		

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$246,798.00	\$12,800	\$259,598
MUD & CHEMICALS	\$24,263.49	\$3,093	\$27,357
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$17,100.00		\$17,100
TRUCKING & DISP.	\$8,630.00		\$6,630
RENTAL EQUIP.	\$31,472.00	\$2,983	\$34,455
CASERS,WELD,LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,600.00		\$1,600
DIR. SERVICE / MOTOR	\$51,500.00	\$7,800	\$59,300
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$18,900.00	\$1,260	\$20,160
WATER	\$43,078.00	\$748	\$43,826
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$7,700.00	\$1,100	\$8,800
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$830,465		
TOTAL DAILY =		\$29,784	
TOTAL CUM =			\$860,250
DAILY MUD COSTS =			ACC. MUD COSTS = \$24,263.49

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
4688	25	312.81	394.00	363.54	948.28	979.85
4782	24.69	312	4479	1403	975	1008
4876	24.44	311	4564	1442	1001	1037
4970	24.63	311	4650	1481	1027	1067
5064	23.75	310	4736	1519	1052	1096

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
25	Conn	4.5/XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE				
NO.	CONN	O.D.	I.D.	
122	CONN	4.5-XH	4.5	3.825
	CONN			

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41	

MUD		
GEL	poly	PAC-R
BAR:	LCM:	DAP
LIME:	DI-A-P	
CAUS:		

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	7
DATE	5/21/06
TIME	5:00AM
DEPTH	5116'
PREV DEPT	5116'

RIG ACTIVITY	TRIP FOR BIT @5116' RIG SERVICE	FEET/24HRS	0'
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DRILLING DATA	
DEPTH AT MIDNIGHT	5116
AVERAGE ROP FT/HR	0
AVERAGE WT ON BIT	0
ROTARY RPM'S	0
PUMP PRESSURE	0
STROKES PER MINUTE	0

BIT DATA		SURVEY DATA	
MAKE	BIT #2	DEPTH	ANGLE
HCC			
MODEL	HC506ZX		
DEPTH IN	5116'		
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	600
MAX BACKGROUND GAS	650
CONNECTION GAS	700
MAX CONNECTION GAS	800
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	35
PLASTIC VIS	11
YIELD POINT	6
PH	8.0
CHL	400

LITHOLOGY

80% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SLI SLTST
20% SS DKGY OFF WH GY FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

RIG SERVICE-BROKEN BEARING

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/20/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 6 OPER. @ RPT. TIME: WORK ON RIG
 DEPTH: 5116 FTG. LAST 24 Hr.s: 409 FL. AVG. FVHr. 35.6 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
7.0	DRILLING F/ 4707 TO 4957	1.) RU- TD		120.0
0.5	RIG SERVICE	2.) DRILLING	11.5	78.5
3.5	DRILLING F/ 4957 TO 5083	3.) REAMING		1.5
1.0	SURVEYS	4.) CORING		0.0
1.0	DRILLING F/ 5083 TO 5116	5.) CIRC.	0.5	2.0
0.5	RIG REPAIR	6.) TRIP	7.0	26.0
0.5	CIRC	7.) SERVICE	0.5	4.5
6.0	LAY DOWN 3 W/ KELLY T.O.H.	8.) REPAIR	0.5	2.0
1.5	B.H.A. WORK CHANGED OUT DIRECTIONAL TOOLS	9.) CUT DL	1.5	1.5
1.0	TRIP IN TO CASING SHOE	10.) SURVEY	1.0	7.0
1.5	CUT OFF 100' OF DRILLING LINE	11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK	1.5	5.0
		DRLG CEMENT		7.5
		Total Hours =	24.0	288.0
24.0	TOTAL HOURS			

MUD				PUMPS				BIT RECORD					
WT. IN	8.9	PH	8	NO. 1	NO. 2		BIT NO. 1		BIT NO. 2				
WT. OUT	9	PM	TR	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	107142	7108285		
VISC.	35	PF/MF	TR/4.8	TYPE	F800		F800		MFG / TYPE	HYC/199GW	HC/HC506Z		
PV	11	CL	400	SPM					SIZE	8.75	7.878		
YP	6	CA	0	BPS	.07476	.07476			JETS	6/18	6/16		
GELS	0/1/1	EX. LIME		PSI					IN / OUT	1036/5116	5116		
FL.	10.8	LCM		GPM	0.0	0.0			WOB	5/15			
CAKE 32nds	2	ECD		AVDC					RPM	90/45			
% SOLIDS	6	H2S PPM		AVDP					FEET	4080			
% WATER	94	DAPP/LB/BB	6	STKS. SUR TO BIT					HOURS	78.5			
% OIL				STKS. BIT TO SUR.					DULL	0	0	BU	A
% SAND	TR			REDUCED PUMP RATE					GRADE	X	I	PN	DMF

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$233,998.00	\$12,800	\$246,798
MUD & CHEMICALS	\$19,147.37	\$5,116	\$24,263
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00	\$8,500	\$17,100
TRUCKING & DISP.	\$6,630.00		\$6,630
RENTAL EQUIP.	\$28,489.00	\$2,983	\$31,472
CASERS, WELD, LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,400.00	\$200	\$1,600
DIR. SERVICE / MOTOR	\$43,950.00	\$7,550	\$51,500
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$17,640.00	\$1,260	\$18,900
WATER	\$43,078.00		\$43,078
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$6,600.00	\$1,100	\$7,700
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$790,956		
TOTAL DAILY =		\$39,509	
TOTAL CUM =			\$830,465
DAILY MUD COSTS =	\$5,116.12	ACC. MUD COSTS =	\$24,263.49

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
4595	24.94	312.93	4309	1324.3	921.75	951.07
4688	25	312.81	4394.0	1363.54	948.28	979.85
4782	24.69	312	4479	1403	975	1008
4876	24.44	311	4564	1442	1001	1037
4970	24.63	311	4650	1481	1027	1067
WEIGHT						
STRING WT.	P / U	S / O	TORQUE			
DRILL COLLARS						
NO. 25	Conn	4.5/XH	O.D. 4.5	HWDP	I.D. 2.75	
NO.	CONN		O.D.		I.D.	
DRILL PIPE						
NO. 122	CONN	4.5-XH	O.D. 4.5		I.D. 3.825	
NO.	CONN		O.D.		I.D.	
BHA						
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -						
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41						
MUD						
GEL	42	poly	9	PAC-R	5	
BAR:		LCM:	3	DAP		
LIME:		DI-A-P	40			
CAUS:		Carb-N				

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	6
DATE	5/20/06
TIME	5:00AM
DEPTH	5116'
PREV DEPT	4665

RIG ACTIVITY	DRILLING - TRIP FOR BIT @5116'	FEET/24HRS	451'
--------------	--------------------------------	------------	------

DRILLING DATA	
DEPTH AT MIDNIGHT	5116
AVERAGE ROP FT/HR	30
AVERAGE WT ON BIT	21
ROTARY RPM'S	48+MM
PUMP PRESSURE	950
STROKES PER MINUTE	111

BIT DATA		SURVEY DATA		
MAKE	BIT #2	BIT #1	DEPTH	ANGLE
MODEL	HC506ZX	DSX199GW	4408	25.25
DEPTH IN	5116'	1036	4502	24.44
SIZE	8' 3/4"	8' 3/4"	4595	24.94
			4688	25.00
			4782	24.69
			4876	24.44
			4970	24.63

GAS DATA	
BACKGROUND GAS	600
MAX BACKGROUND GAS	650
CONNECTION GAS	700
MAX CONNECTION GAS	800
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	9.0
VISCOSITY	35
PLASTIC VIS	11
YIELD POINT	6
PH	8.0
CHL	400

LITHOLOGY

80% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS
20% SS DIRTY CLR DKGY S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
#10 4488'-4526'	1.4-0.5-1.2	650-780-650	40% SS, 60% SH
#11 4604'-4656'	1.1-0.5-2.8	650-900-650	40% SS, 60% SH

REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/19/2006

OPERATOR: NATIONAL FUEL CORPORATION

LEASE & WELL: WESTWATER STATE # 22-32

PROSPECT: PARADISE HILL

COUNTY: GRAND COUNTY

STATE: UTAH

RIG: UNION RIG 7

SPUD DATE: 5/14/2006

DFS: 5

OPER. @ RPT. TIME: DRILLING

DEPTH: 4707

FTG. LAST 24 Hr.s: 903

FL.

AVG. FTHr. 44.0

REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS

DESCRIPTIVE HOURLY BREAKDOWN

HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
9.0	DRILLING F 3804 TO 4177	1.) RU- TD		120.0
0.5	SERVICE RIG	2.) DRILLING	20.5	67.0
1.5	DRILLING F 4177 TO 4260	3.) REAMING		1.5
1.0	SURVEYS	4.) CORING		0.0
9.0	DRILLING F/ 4260 TO 4614	5.) CIRC.		1.5
0.5	RIG SERVICE	6.) TRIP		19.0
0.5	DRILLING F/ 4614 TO 4645	7.) SERVICE	1.0	4.0
0.5	REPAIR RIG	8.) REPAIR	0.5	1.5
0.5	DRILLING F/ 4645 TO 4707	9.) CUT DL		0.0
1.0	SURVEYS	10.) SURVEY	2.0	6.0
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		3.5
		DRLG CEMENT		7.5
		Total Hours =	24.0	264.0

24.0 TOTAL HOURS

MUD

WT. IN	8.6	PH	8
WT. OUT		PM	TR
VISC.	33	PF/MF	TR/4.4
PV	10	CL	400
YP	4	CA	0
GELS	1	EX. LIME	
FL.	10.4	LCM	
CAKE 32nds	2	ECD	
% SOLIDS	3	H2S PPM	
% WATER	97	DAPP/LB/BB	6
% OIL			
% SAND	NIL		

PUMPS

	NO. 1	NO. 2
SIZE	6.0 9.0	6.0 9.0
TYPE	F800	F800
SPM	110	
BPS	.07476	.07476
PSI	1000	
GPM	345.6	0.0
AVDC		
AVDP		
STKS. SUR TO BIT		
STKS. BIT TO SUR.		
REDUCED PUMP RATE		

BIT RECORD

	BIT NO. 1	BIT NO.
SERIAL NO.	107142	
MFG / TYPE	HYC/DSX 199 GW	
SIZE	8.75	
JETS	6X18	
IN / OUT	1036/	
WOB	5'10	
RPM	90+ 45	
FEET	3671	
HOURS	67	
DULL		
GRADE		

DAILY COSTS RECORD

ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$221,198.00	\$12,800	\$233,998
MUD & CHEMICALS	\$14,036.84	\$5,111	\$19,147
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00		\$8,600
TRUCKING & DISP.	\$4,470.00	\$2,160	\$6,630
RENTAL EQUIP.	\$25,506.00	\$2,983	\$28,489
CASERS,WELD,LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,200.00	\$200	\$1,400
DIR. SERVICE / MOTOR	\$37,050.00	\$6,900	\$43,950
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$16,380.00	\$1,260	\$17,640
WATER	\$15,145.00	\$27,933	\$43,078
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$5,500.00	\$1,100	\$6,600
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$730,510		
TOTAL DAILY =	\$60,447		
TOTAL CUM =			\$790,956
DAILY MUD COSTS =	\$5,110.53	ACC. MUD COSTS =	\$19,147.37

DEVIATION RECORD

DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
4221	26.31	313.42	3971	1164.70	811.76	835.23
4314	25.75	314.06	4055	1205.5	839.98	864.72
4408	25.25	313.31	4139.94	1245.9	867.73	893.98
4502	24.44	313.31	4225	1285.4	895.02	922.72
4595	24.94	312.93	4309	1324.3	921.75	951.07

WEIGHT

STRING WT.	P / U	S / O	TORQUE
110	135	98	1.5

DRILL COLLARS

NO. 25	Conn	4.5/XH	O.D. 4.5 HWDP	I.D. 2.75
NO.	CONN		O.D.	I.D.

DRILL PIPE

NO. 122	CONN	4.5-XH	O.D. 4.5	I.D. 3.825
NO.	CONN		O.D.	I.D.

BHA

BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41

MUD

GEL	120	poly	16	PAC-R	13
BAR:		LCM:	5	DAP	
LIME:		DI-A-P	37		
CAUS:		Carb-N			

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	5
DATE	5/19/06
TIME	5:00AM
DEPTH	4665'
PREV DEPT	3742

RIG ACTIVITY	DRILLING	FEET/24HRS	923'
--------------	----------	------------	------

DRILLING DATA	
DEPTH AT MIDNIGHT	4522
AVERAGE ROP FT/HR	38
AVERAGE WT ON BIT	26
ROTARY RPM'S	50+MM
PUMP PRESSURE	900
STROKES PER MINUTE	113

BIT DATA		SURVEY DATA	
MAKE	BIT #1	DEPTH	ANGLE
REED		3754	29.00
MODEL	DSX199GW	3847	28.44
DEPTH IN	1036	3939	26.75
SIZE	8' 3/4"	4033	25.69
		4127	26.69
		4221	26.31
		4314	25.75

GAS DATA	
BACKGROUND GAS	600
MAX BACKGROUND GAS	650
CONNECTION GAS	700
MAX CONNECTION GAS	800
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	LS ND MUD
MUD WEIGHT	8.6
VISCOSITY	33
PLASTIC VIS	10
YIELD POINT	4
PH	8.0
CHL	400

LITHOLOGY

50% SH DKGY-GY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS
50% SS DIRTY CLR DKGY S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
#9 4411'-4460'	1.3-0.6-1.5	600-850-650	60% SS, 40% SH

REMARKS

Rig Phone No.: 435-828-7987

MORNING REPORT

DATE: 5/18/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 4 OPER. @ RPT. TIME: DRILLING
 DEPTH: 3804 FTG. LAST 24 Hr.s: 1219 FL. AVG. FWH: 56.7 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
2.0	DRILLING F 2585 TO 2709	1.) RU-TD		120.0
0.5	RIG SERVICE	2.) DRILLING	21.5	46.5
5.0	DRILLING F 2709 TO 2992	3.) REAMING		1.5
0.5	SURVEYS	4.) CORING		0.0
6.5	DRILLING F/ 2992 TO 3390'	5.) CIRC.		1.5
0.5	REPAIRS ROD OILER	6.) TRIP		19.0
8.0	DRILLING 3390 TO 3804	7.) SERVICE	0.5	3.0
1.0	SURVEYS	8.) REPAIR	0.5	1.0
		9.) CUT DL		0.0
		10.) SURVEY	1.5	4.0
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		3.5
		DRLG CEMENT		7.5
		Total Hours =	24.0	240.0

MUD				PUMPS				BIT RECORD			
WT. IN		PH	8	NO. 1	NO. 2		BIT NO.		BIT NO.		
WT. OUT	8.5	PM	TR	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	107142	
VISC.	27	PF/MF	TR/4.0	TYPE	F800		F800		MFG / TYPE	HYC/DSX 199 GW	
PV	2	CL	400	SPM	110				SIZE	8.75	
YP	1	CA		BPS	.07476		.07476		JETS	6X18	
GELS		EX. LIME		PSI	500				IN / OUT	1036/	
FL.		LCM		GPM	345.6	0.0			WOB	5'10	
CAKE 32nds		ECD		AVDC					RPM	90+ 45	
% SOLIDS	1	H2S PPM		AVDP					FEET	2768	
% WATER	.99	DAPP/LB/BB	6	STKS. SUR TO BIT					HOURS	46.5	
% OIL				STKS. BIT TO SUR.					DULL		
% SAND				REDUCED PUMP RATE					GRADE		

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$144,939.00		\$144,939
FOOTAGE / DAYWORK	\$208,398.00	\$12,800	\$221,198
MUD & CHEMICALS	\$13,702.29	\$335	\$14,037
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00		\$8,600
TRUCKING & DISP.	\$4,470.00		\$4,470
RENTAL EQUIP.	\$22,523.00	\$2,983	\$25,506
CASERS, WELD, LABOR	\$2,587.00		\$2,587
OVERHEAD	\$1,000.00	\$200	\$1,200
DIR. SERVICE / MOTOR	\$30,250.00	\$6,800	\$37,050
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$15,120.00	\$1,260	\$16,380
WATER	\$15,145.00		\$15,145
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$4,400.00	\$1,100	\$5,500
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$18,228.00		\$18,228
PREV. CUM =	\$705,032		
TOTAL DAILY =		\$25,478	
TOTAL CUM =			\$730,510
DAILY MUD COSTS =	\$334.55	ACC. MUD COSTS =	\$14,036.84

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
3286	2556	315	3137	741	514.01	534.92
3380	2575	313	3222	782.54	542.45	564.02
3472	26.69	314.31	3305	823.19	570.68	593.26
3566	26.44	314.06	3389	865.22	599.98	623.41
3660	27.63	314.93	3472	907.95	629.93	653.88

WEIGHT			
STRING WT.	P / U	S / O	TORQUE
97000	113000	80	3/4

DRILL COLLARS					
NO.	CONN	4.5/XH	O.D.	4.5 HWDP	I.D.
25	CONN	4.5/XH	O.D.	4.5 HWDP	I.D. 2.75

DRILL PIPE				
NO.	CONN	4.5-XH	O.D.	4.5
93	CONN	4.5-XH	O.D.	4.5

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41	

MUD			
GEL:	poly	5	PAC-R
BAR:	LCM:		DAP
LIME:			
CAUS:			

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	4
DATE	5/18/06
TIME	5:00AM
DEPTH	3742'
PREV DEPT	2550

RIG ACTIVITY	DRILLING	FEET/24HRS	1192'
--------------	----------	------------	-------

DRILLING DATA	
DEPTH AT MIDNIGHT	3553
AVERAGE ROP FT/HR	50
AVERAGE WT ON BIT	8
ROTARY RPM'S	46+MM
PUMP PRESSURE	550
STROKES PER MINUTE	111

BIT DATA		SURVEY DATA	
MAKE	BIT #1	DEPTH	ANGLE
REED		2070	20.06
MODEL	DSX199GW	2349	24.13
DEPTH IN	1036	2629	25.44
SIZE	8' 3/4"	2910	26.88
		3192	25.88
		3472	26.69
		3660	27.63

GAS DATA	
BACKGROUND GAS	600
MAX BACKGROUND GAS	650
CONNECTION GAS	700
MAX CONNECTION GAS	750
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	WATER
MUD WEIGHT	8.5
VISCOSITY	27
PLASTIC VIS	2
YIELD POINT	1
PH	8.0
CHL	400

LITHOLOGY

70% SH DKGY FIRM HD GRTY SLCALC SBBLKY SBPLTY CARBOUS SL SLTST
40% SS DIRTY CLR DKGY S&P FIRM HD VFG SBRND SBANG SLCALC CMT POOR PROS W SRT NSFOC

TOP MANCOS @2686', TOP MANCOS "B" @3557'

SHOWS	DRILL RATE	GAS	LITHOLOGY
#4 2770'-2780'	1.0-0.4-1.0	30-570-30	50% SS, 50% SH
#5 3014'-3020'	0.3-0.2-0.3	35-200-40	40% SS, 60% SH
#6 3108'-3116'	0.5-0.3-0.5	35-560-40	50% SS, 50% SH
#7 3200'-3210'	0.45-0.4-0.45	35-400-35	50% SS, 50% SH
#8 3558'-3618'	1.8-0.6-1.9	35-750-500	30% SS, 70% SH

REMARKS

MORNING REPORT

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 3 OPER. @ RPT. TIME: DRILLING
 DEPTH: 2585 FTG. LAST 24 Hr.s: 1207 FL. AVG. FTHr. 63.5 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
1.0	TRIP IN HOLE	1.) RU- TD		120.0
1.5	WASH & REAM 60' TO BOTTEM	2.) DRILLING	19.0	25.0
9.0	DRLG F/ 1378' TO 1928'	3.) REAMING	1.5	1.5
0.5	SURVEYS	4.) CORING		0.0
2.5	DRILLING F 1928 TO 2121	5.) CIRC.		1.5
0.5	WORK OU AUTO DRILLER	6.) TRIP	1.0	19.0
3.0	DRILLING F 2121 TO 2309	7.) SERVICE	0.5	2.5
0.5	SERVICE RIG	8.) REPAIR	0.5	0.5
4.5	DRILLING F 2309 TO 2585	9.) CUT DL		0.0
1.0	SURVEYS	10.) SURVEY	1.5	2.5
		11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING		23.5
		20.) DIR. WORK		3.5
		DRLG CEMENT		7.5
		Total Hours =	24.0	216.0
24.0	TOTAL HOURS			

MUD				PUMPS				BIT RECORD					
WT. IN		PH	8		NO. 1		NO. 2		SERIAL NO.	BIT NO. 1		BIT NO.	
WT. OUT	8.5	PM		SIZE	6.0	9.0	6.0	9.0	107142				
VISC.	27	PF/MF	tr/3.9	TYPE	F800		F800		MFG / TYPE	HYC/DSX 199 GW			
PV	2	CL	400	SPM	108				SIZE	8.75			
YP	1	CA		BPS	.07476		.07476		JETS	6X18			
GELS		EX. LIME		PSI	566				IN / OUT	1036/			
FL.		LCM		GPM	339.3		0.0		WOB	5'10			
CAKE 32nds		ECD		AVDC					RPM	90+ 45			
% SOLIDS	1	H2S PPM		AVDP					FEET	1549			
% WATER	99	DAPP/LB/BB	6.33	STKS. SUR TO BIT					HOURS	25			
% OIL				STKS. BIT TO SUR.					DULL				
% SAND				REDUCED PUMP RATE					GRADE				

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$66,560.00		\$66,560
MOBILIZATION	\$0.00	\$144,939	\$144,939
FOOTAGE / DAYWORK	\$195,598.00	\$12,800	\$208,398
MUD & CHEMICALS	\$12,933.83	\$768	\$13,702
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00		\$8,600
TRUCKING & DISP.	\$4,470.00		\$4,470
RENTAL EQUIP.	\$19,540.00	\$2,983	\$22,523
CASERS,WELD,LABOR	\$2,587.00		\$2,587
OVERHEAD	\$800.00	\$200	\$1,000
DIR. SERVICE / MOTOR	\$22,450.00	\$7,800	\$30,250
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$13,860.00	\$1,260	\$15,120
WATER	\$15,145.00		\$15,145
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$3,300.00	\$1,100	\$4,400
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$6,786.00	\$11,442	\$18,228
PREV. CUM =	\$521,740		
TOTAL DAILY =		\$183,292	
		TOTAL CUM =	\$705,032
DAILY MUD COSTS =	\$768.46	ACC. MUD COSTS =	\$13,702.29

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
2163	20.88	313.81	2122	262.65	178.93	192.32
2257	22.5	314.93	2209.9	297.39	203.23	217.14
2349	24.13	313.31	2284.	333.75	228.56	243.29
2442	25.19	314.93	2378	372.59	255.58	271.14
2552	25.07	313.86	24.78	419.30	288.26	304.15
WEIGHT						
STRING WT.	P / U	S / O	TORQUE			
80000	102000	70000				
DRILL COLLARS						
NO. 27	Conn	4.5XH	O.D. 4.5	HWDP	I.D. 2.75	
NO.	CONN		O.D.		I.D.	
DRILL PIPE						
NO.	CONN	4.5-XH	O.D. 4.5		I.D. 3.825	
NO.	CONN		O.D.		I.D.	
BHA						
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -						
MWD EMITTER SUB- MONEL D.C 25 H.W.D.P. =860.41						
MUD						
GEL:	poly	7	PAC-R			
BAR:	LCM:	5	DAP			
LIME:	GYP					
CAUS:	Carb-N					

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JUL 03 2006

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	3
DATE	5/17/06
TIME	5:00AM
DEPTH	2550'
PREV DEPTH	1378

RIG ACTIVITY	STUCK IN HOLE - DRILLING	FEET/24HRS	1172'
--------------	--------------------------	------------	-------

DRILLING DATA	
DEPTH AT MIDNIGHT	2295
AVERAGE ROP FT/HR	56
AVERAGE WT ON BIT	10
ROTARY RPM'S	44+MM
PUMP PRESSURE	600
STROKES PER MINUTE	109

BIT DATA		BIT #1	SURVEY DATA	
MAKE	REED		DEPTH	ANGLE
MODEL	DSX199GW		1414	10.81
DEPTH IN	1036		1607	14.44
SIZE	8' 3/4"		1601	16.13
			1695	18.38
			1789	19.44
			1882	20.56

GAS DATA	
BACKGROUND GAS	34
MAX BACKGROUND GAS	39
CONNECTION GAS	44
MAX CONNECTION GAS	185
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
HEIGHT	

MUD PROPERTIES	
MUD TYPE	WATER
MUD WEIGHT	8.6
VISCOSITY	27
PLASTIC VIS	2
YIELD POINT	1
PH	8.0
CHL	400

60% SH DKGY-GY FIRM GRTY SLCALC SBBLKY CARBOUS IP
40% SS DIRTY CLR S&P OFF WH FIRM VFG SBRND SBANG VSLCALC CMT POOR PROS W SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
#1 1918'-1936'	0.4-0.2-0.3	30-150-30	40% SS, 60% SH TR COAL
#2 1968'-1998'	0.4-0.2-0.4	30-130-30	40% SS, 60% SH TR COAL
#3 2164'-2178'	0.6-0.2-0.6	30-170-40	40% SS, 60% SH TR COAL

REMARKS

Rig Phone No.: 435-828-7967

MORNING REPORT

DATE: 5/16/2006

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 2 OPER. @ RPT. TIME: T.I.H.
 DEPTH: 1378 FTG. LAST 24 Hr.s: 0 FL. AVG. FVHr. 0.0 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
0.5	RIG SERVICE	1.) RU- TD		120.0
5.0	RIG UP WIRE LINE TRUCK & FREEPOINT STUCK AT 579'	2.) DRILLING		6.0
2.5	BACK OFF @ 476' RIG DOWN WIRE LINE TRUCK	3.) REAMING		0.0
0.5	TRIP OUT RETRIVED 14 JT D.P. + 2 JT H.W.D.P. 497.44' OF PIPE	4.) CORING		0.0
3.0	PICK UP BUMPER SUB+FISHING JARS & 12 6.25 D.C	5.) CIRC.	0.5	1.5
0.5	CIRC WASH TOP FISH 476' SCREW IN TO FISH	6.) TRIP	10.0	18.0
1.5	JAR FISH DOWN 6' OF TRAVEL	7.) SERVICE	0.5	2.0
2.0	PICK UP KELLY B/ CIRC WORK TIGHT HOLE. LAY DOWN 4 DP W.KELLY	8.) REPAIR		0.0
4.0	LAY DOWN FISHING STRING 12 DC+ JARS	9.) CUT DL		0.0
1.5	TRIP OUT TO BIT . BIT BALLED UP	10.) SURVEY		1.0
1.0	CHECK EM TOOL . GOOD	11.) LOGGING		0.0
2.0	TRIP IN TO DRLG	12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING	12.0	23.5
		20.) DIR. WORK	1.0	3.5
		DRLG CEMENT		7.5
		Total Hours =	24.0	192.0

MUD				PUMPS				BIT RECORD			
WT. IN	8.4	PH	8	SIZE	NO. 1		NO. 2		SERIAL NO.	107142	
WT. OUT		PM			6.0	9.0	6.0	9.0	MFG / TYPE	HYC/DSX 199 GW	
VISC.	28	PF/MF	tr/3.9	TYPE	F800		F800		SIZE	8.75	
PV	1	CL	400	SPM					JETS	6X18	
YP	1	CA	0	BPS	.07476		.07476		IN / OUT	1036/	
GELS		EX. LIME		PSI					WOB	5'10	
FL.		LCM		GPM	0.0		0.0		RPM	90+ 45	
CAKE 32nds		ECD		AVDC					FEET	1342	
% SOLIDS	.5	H2S PPM		AVDP					HOURS	6	
% WATER	99.5	DAPP/LB/BB	6.25	STKS. SUR TO BIT					DULL		
% OIL				STKS. BIT TO SUR.					GRADE		
% SAND				REDUCED PUMP RATE							

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$52,730.00	\$13,830	\$66,560
MOBILIZATION	\$0.00		\$0
FOOTAGE / DAYWORK	\$182,798.00	\$12,800	\$195,598
MUD & CHEMICALS	\$10,126.02	\$2,808	\$12,934
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00		\$8,600
TRUCKING & DISP.	\$4,470.00		\$4,470
RENTAL EQUIP.	\$17,240.00	\$2,300	\$19,540
CASERS, WELD, LABOR	\$2,587.00		\$2,587
OVERHEAD	\$600.00	\$200	\$800
DIR. SERVICE / MOTOR	\$15,650.00	\$6,800	\$22,450
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,485.00		\$5,485
SUPERVISION	\$12,600.00	\$1,260	\$13,860
WATER	\$15,145.00		\$15,145
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$2,200.00	\$1,100	\$3,300
CASING / WELLHEAD	\$92,249.00		\$92,249
FISHING	\$0.00	\$6,786	\$6,786
PREV. CUM =	\$473,856		
TOTAL DAILY =		\$47,884	
TOTAL CUM =			\$521,740
DAILY MUD COSTS =	\$2,807.81	ACC. MUD COSTS =	\$12,933.83

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
1039	.44	155.88	1038.99	-3.7	-364	1.63
1132	2.19	284.34	1131.97	-2.48	-3.52	.06
1226	5	300.56	1225.76	3.07	-100	5.21
1318	8.19	309.43	1317.16	13.51	521	13.73

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS				
NO.	CONN	O.D.	I.D.	
27	Conn	4.5/XH	4.5 HWDP	2.75
	CONN			

DRILL PIPE				
NO.	CONN	O.D.	I.D.	
	CONN	4.5-XH	4.5	3.825
	CONN			

BHA			
BIT - MUD M - XO-D.P	XO-MWD TOOL CARRIER -	MWD EMITTER SUB- MONEL D.C	25 H.W.D.P. =860.41

MUD			
GEL:	poly	2	PAC-R
BAR:	LCM:	15	DAP 160
LIME:	gyp		
CAUS:	Carb-		

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DIV. OF OIL, GAS & MINING

CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

chiefwell3@ocens.net

COMPANY :

WELL NAME :

LOCATION :

CITY / COUNTY :

STATE :

NATIONAL FUEL CORPORATION

WESTWATER STATE #22-32

SEC 32 T16S R24E

GRAND COUNTY

UTAH

NUMBER

2

DATE

5/16/06

TIME

5:00AM

DEPTH

1378'

PREV DEPTH

1378

RIG ACTIVITY	STUCK IN HOLE	FEET/24HRS	0'
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DRILLING DATA	
DEPTH AT MIDNIGHT	1378
AVERAGE ROP FT/HR	0
AVERAGE WT ON BIT	0
ROTARY RPM'S	0+MM
PUMP PRESSURE	0
STROKES PER MINUTE	0

BIT DATA		SURVEY DATA	
MAKE	BIT #1	DEPTH	ANGLE
HICA LOG			
MODEL	DSX199GW		
DEPTH IN	1036		
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	0
MAX BACKGROUND GAS	0
CONNECTION GAS	0
MAX CONNECTION GAS	0
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	WATER
MUD WEIGHT	8.4
VISCOSITY	28
PLASTIC VIS	
YIELD POINT	
PH	8.0
CHL	400

LITHOLOGY

80% SH LT-DKGY DRTYBRN LTGRN MOD SFT SM SBWXY SLCALC PLTY BLKY
20% SS S&P LTGY-GY BRN FIRM VFG SBANG SBRND SLCALC CMT MOD SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS

MORNING REPORT

OPERATOR: NATIONAL FUEL CORPORATION LEASE & WELL: WESTWATER STATE # 22-32
 PROSPECT: PARADISE HILL COUNTY: GRAND COUNTY STATE: UTAH
 RIG: UNION RIG 7 SPUD DATE: 5/14/2006 DFS: 1 OPER. @ RPT. TIME: WORK STUCK PIPE
 DEPTH: 1378 FTG. LAST 24 Hr.s: 342 FL. AVG. F/Hr: 57.0 REPORT BY: RANDY DUGAN

ACTIVITY LAST 24 HOURS		DESCRIPTIVE HOURLY BREAKDOWN		
HOURS	DESCRIPTION	ACTIVITY	HOURS	ACC. HR.S
1.0	DRILLING F/ 1036' TO 1089'	1.) RU- TD		120.0
0.5	CIRC	2.) DRILLING	6.0	6.0
1.0	TRIP OUT	3.) REAMING		0.0
2.0	PICK UP MONELS+EM TOOLS	4.) CORING		0.0
1.0	TRIP IN HOLE	5.) CIRC.	0.5	1.0
0.5	ORIENT TOOLS	6.) TRIP	2.0	8.0
5.0	DRLG & SLIDE DRLG /F 1089 TO 1378'	7.) SERVICE	0.5	1.5
1.0	SURVEYS	8.) REPAIR		0.0
0.5	WELD ON STANDPIPE WASHED OUT RIG SERVICE	9.) CUT DL		0.0
	SET KELLEY BACK TO PULL BIT UP INTO SHOE FOR STAN PIPE REPAIR	10.) SURVEY	1.0	1.0
11.5	PULL TIGHT STUCK @1345' 33' OFF BOTTEM WORK STUCK PIPE	11.) LOGGING		0.0
		12.) CSG & CMT		0.0
		13.) WOC		0.0
		14.) NU & TEST		9.0
		15.) INSP. BHA		0.0
		16.) DST		0.0
		17.) PLUGBACK		0.0
		18.) LOST CIRC.		0.0
		19.) FISHING	11.5	11.5
		20.) DIR. WORK	2.5	2.5
		DRLG CEMENT		7.5
		Total Hours =	24.0	168.0

MUD				PUMPS				BIT RECORD			
WT. IN	8.4	PH	8	NO. 1		NO. 2		BIT NO. 1		BIT NO.	
WT. OUT		PM	TR	SIZE	6.0	9.0	6.0	9.0	SERIAL NO.	107142	
VISC.	28	PF/MF	TR/2.9	TYPE	F800	F800			MFG / TYPE	HYC/DSX 199 GW	
PV	1	CL	400	SPM	110				SIZE	8.75	
YP	1	CA		BPS	.07476	.07476			JETS	6X18	
GELS		EX. LIME		PSI	550				IN / OUT	1036/	
FL.		LCM		GPM	345.6	0.0			WOB	5'10	
CAKE 32nds		ECD		AVDC					RPM	90+ 45	
% SOLIDS	.5	H2S PPM		AVDP					FEET	1342	
% WATER	99.5	DAPP/LB/BB	5.2	STKS. SUR TO BIT					HOURS	6	
% OIL				STKS. BIT TO SUR.					DULL		
% SAND				REDUCED PUMP RATE					GRADE		

DAILY COSTS RECORD			
ITEM	PREV. CUM.	DAILY	TOTAL CUM.
LOC., DAMAGES, COND.	\$52,730.00		\$52,730
MOBILIZATION	\$0.00		\$0
FOOTAGE / DAYWORK	\$169,998.00	\$12,800	\$182,798
MUD & CHEMICALS	\$1,065.00	\$9,061	\$10,126
CEM. SERV & FLT EQU.	\$27,568.00		\$27,568
BITS & BHA TOOLS	\$8,600.00		\$8,600
TRUCKING & DISP.	\$4,470.00		\$4,470
RENTAL EQUIP.	\$14,940.00	\$2,300	\$17,240
CASERS,WELD,LABOR	\$2,587.00		\$2,587
OVERHEAD	\$400.00	\$200	\$600
DIR. SERVICE / MOTOR	\$7,850.00	\$7,800	\$15,650
LOGGING	\$1,000.00		\$1,000
MISC. SERV & SUPP.	\$5,035.00	\$450	\$5,485
SUPERVISION	\$11,340.00	\$1,260	\$12,600
WATER	\$15,145.00		\$15,145
DISPOSAL	\$0.00		\$0
FUEL	\$22,808.00		\$22,808
MUD LOGGER	\$1,100.00	\$1,100	\$2,200
CASING / WELLHEAD	\$92,249.00		\$92,249
	\$0.00		\$0
PREV. CUM =	\$438,885		
TOTAL DAILY =		\$34,971	
TOTAL CUM =			\$473,856
DAILY MUD COSTS =	\$9,061.02	ACC. MUD COSTS =	\$10,126.02

DEVIATION RECORD						
DEPTH	INCL.	AZIMUTH	TVD	SEC.	N/S	E/W
1039	.44	155.86	1038.94	-3.7	-364	1.63
1132	2.19	284.34	1131.97	-2.48	-3.52	.06
1226	5	300.56	1225.74	3.07	-100	5.21
1318	8.19	309.43	1317.14	13.51	521	13.73

WEIGHT			
STRING WT.	P / U	S / O	TORQUE

DRILL COLLARS					
NO.	CONN	4.5/XH	O.D.	4.5 HWDP	I.D.
27	CONN	4.5-XH	O.D.	4.5 HWDP	I.D. 2.75
	CONN		O.D.		I.D.

DRILL PIPE			
NO.	CONN	4.5-XH	O.D.
	CONN	4.5-XH	O.D. 4.5
	CONN		O.D.

BHA	
BIT - MUD M - XO-D.P XO-MWD TOOL CARRIER -	
MWD EMITTER SUB- MONEL D.C 27 H.W.D.P. =921.84	

MUD			
GEL:	poly	PAC-R	
BAR:	LCM:	DAP	140
LIME:	gyp		
CAUS:	Carb-N		

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CHIEF WELL LOGGING

MORNING REPORT

106 HEMLOCK ST
BROOMFIELD, CO 80020

UNIT#3 254-543-1422

Dallas Miller

Kevin Peters

COMPANY : NATIONAL FUEL CORPORATION
WELL NAME : WESTWATER STATE #22-32
LOCATION : SEC 32 T16S R24E
CITY / COUNTY : GRAND COUNTY
STATE : UTAH

NUMBER	1
DATE	5/15/06
TIME	5:00AM
DEPTH	1378'
PREV DEPT	1050

RIG ACTIVITY	DRILLING - STUCK IN HOLE	FEET/24HRS	328'
--------------	--------------------------	------------	------

DRILLING DATA	
DEPTH AT MIDNIGHT	7987
AVERAGE ROP FT/HR	55
AVERAGE WT ON BIT	12
ROTARY RPM'S	44+MM
PUMP PRESSURE	400
STROKES PER MINUTE	109

BIT DATA	BIT #1	SURVEY DATA	
MAKE	HICA LOG	DEPTH	ANGLE
MODEL	DSX199GW		
DEPTH IN	1036		
SIZE	8' 3/4"		

GAS DATA	
BACKGROUND GAS	22
MAX BACKGROUND GAS	23
CONNECTION GAS	25
MAX CONNECTION GAS	28
TRIP GAS	
SHORT TRIP GAS	
OTHER GAS (TYPE):	
FLARE HEIGHT	

MUD PROPERTIES	
MUD TYPE	WATER
MUD WEIGHT	8.4
VISCOSITY	28
PLASTIC VIS	
YIELD POINT	
PH	8.0
CHL	400

LITHOLOGY
80% SH LT-DKGY DRTYBRN LTGRN MOD SFT SM SBWXY SLCALC PLTY BLKY
20% SS S&P LTGY-GY BRN FIRM VFG SBANG SBRND SLCALC CMT MOD SRT NSFOC

SHOWS	DRILL RATE	GAS	LITHOLOGY
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REMARKS START LOGGING @1050' 5-14-2006

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input checked="" type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR: National Fuel Corporation		8. WELL NAME and NUMBER: NFC Westwater State #22-32
3. ADDRESS OF OPERATOR: 7979 E. Tufts Ave. #815 CITY Denver STATE Co ZIP 80237		9. API NUMBER: 4301931454
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2534' FNL, 2583' FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 1205' FNL, 1199' FWL AT TOTAL DEPTH: 1205' FNL, 1199' FWL 1135' FNL 1158' FWL		10. FIELD AND POOL, OR WILDCAT Westwater
		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 16S 24E
		12. COUNTY Grand 13. STATE UTAH

14. DATE SPUNDED: 4/20/2006	15. DATE T.D. REACHED: 6/1/2006	16. DATE COMPLETED: 7/17/2006	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 7325' GL
18. TOTAL DEPTH: MD 7,555 TVD 7,158	19. PLUG BACK T.D.: MD 7,470 TVD 7,073	20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) Density/ Compensated Neutron, Microlog, Array Induction, Gamma Ray, Cement Bond, Casing Collar, Temp			23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)	

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17 1/2"	133/8 J-55	48	0	137		Class G 180	35	Surf/CIR	
12 1/4"	9 5/8 J-55	36	0	1,007		Class G 700	86	Surf/CIR	
8 3/4"	4 1/2 N-80	11.6	0	7,555		Lead 835	357	3020/CBL	70000
						Tail 310	70		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	6,901							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Cedar Mtn.	6,852	6,902	6,456	6,506	6,892 6,900	.344	32	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS: <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	<input checked="" type="checkbox"/> DIRECTIONAL SURVEY	30. WELL STATUS: Producing
--	--	--	--	--------------------------------------

(5/2000)

(CONTINUED ON BACK)

RECEIVED
SEP 05 2006
DIV. OF OIL, GAS & MINING

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/23/2006		TEST DATE: 7/13/2006		HOURS TESTED: 25		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,413	WATER - BBL: 0	PROD. METHOD: Vented
CHOKE SIZE: 7/16	TBG. PRESS. 680	CSG. PRESS. 680	API GRAVITY 0.60	BTU - GAS 1,042	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,357	WATER - BBL: 0	INTERVAL STATUS: Producing

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)
vented

33. 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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Castlegate	2,766
				Mancos	2,802
				Dakota Silt	6,668
				Cedar Mtn	6,852
				Morrison	6,903
				Entrada	7,520

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) Andrew Busch TITLE V. P. of Operations
 SIGNATURE *Andrew Busch* DATE 8/31/2006

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801



Client : National Fuels Corporation
Well : WestWater State # 22-32
Location :
License :

Page: 1
Date : 5/29/2006
File : 4008256

UWI #:

Vertical Section Calculated Along Azimuth 313.83°
KB Elevation = 0.00ft

	MD	Inc	Azi	TVD	North	East	V'Sect	D'Leg	Build	Turn
	ft	deg	deg	ft	ft	ft	ft	°/100	°/100	°/100
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	1039.00	0.44	155.81	1038.99	-3.64	1.63	-3.70	0.04	0.04	15.00
2	1132.00	2.19	284.34	1131.97	-3.52	0.06	-2.48	2.68	1.88	138.20
3	1226.00	5.00	300.56	1225.78	-1.00	-5.21	3.07	3.15	2.99	17.26
4	1318.00	8.19	309.43	1317.16	5.21	-13.73	13.51	3.63	3.47	9.64
5	1414.00	10.81	312.56	1411.83	15.64	-25.64	29.33	2.78	2.73	3.26
6	1507.00	14.44	313.68	1502.57	29.55	-40.46	49.65	3.91	3.90	1.20
7	1601.00	16.13	311.81	1593.24	46.35	-58.67	74.42	1.87	1.80	-1.99
8	1695.00	18.38	314.18	1683.01	65.39	-79.03	102.29	2.51	2.39	2.52
9	1789.00	19.44	317.31	1771.94	87.21	-100.26	132.73	1.56	1.13	3.33
10	1882.00	20.56	314.93	1859.33	110.12	-122.32	164.50	1.49	1.20	-2.56
11	1976.00	20.56	315.56	1947.34	133.57	-145.56	197.51	0.24	0.00	0.67
12	2070.00	20.06	313.56	2035.50	156.46	-168.80	230.13	0.91	-0.53	-2.13
13	2163.00	20.85	313.81	2122.63	178.91	-192.30	262.63	0.85	0.85	0.27
14	2257.00	22.50	314.93	2209.98	203.19	-217.11	297.34	1.81	1.76	1.19
15	2349.00	24.13	313.31	2294.47	228.53	-243.26	333.75	1.90	1.77	-1.76
16	2442.00	25.19	314.93	2378.99	255.55	-271.10	372.55	1.35	1.14	1.74
17	2532.00	25.07	313.86	2460.47	282.29	-298.41	410.76	0.52	-0.13	-1.19
18	2629.00	25.44	314.68	2548.20	311.17	-328.04	452.15	0.52	0.38	0.85
19	2722.00	25.31	313.06	2632.23	338.79	-356.77	492.00	0.76	-0.14	-1.74
20	2816.00	26.25	313.68	2716.87	366.87	-386.49	532.88	1.04	1.00	0.66
21	2910.00	26.88	314.18	2800.94	396.03	-416.76	574.91	0.71	0.67	0.53
22	3005.00	27.06	313.56	2885.61	425.89	-447.82	618.00	0.35	0.19	-0.65
23	3098.00	26.31	315.81	2968.71	455.25	-477.52	659.75	1.35	-0.81	2.42
24	3192.00	25.88	315.93	3053.13	484.93	-506.31	701.07	0.46	-0.46	0.13
25	3286.00	25.56	315.00	3137.81	514.01	-534.92	741.85	0.55	-0.34	-0.99
26	3380.00	25.75	313.68	3222.55	542.45	-564.02	782.54	0.64	0.20	-1.40
27	3472.00	26.69	314.31	3305.08	570.68	-593.26	823.19	1.07	1.02	0.68
28	3566.00	26.44	314.06	3389.16	599.98	-623.41	865.22	0.29	-0.27	-0.27
29	3660.00	27.63	314.93	3472.88	629.93	-653.88	907.95	1.33	1.27	0.93
30	3754.00	29.00	315.93	3555.64	661.70	-685.16	952.51	1.54	1.46	1.06
31	3847.00	28.44	316.31	3637.19	693.91	-716.14	997.16	0.63	-0.60	0.41
32	3939.00	26.75	314.43	3718.73	724.24	-746.06	1039.76	2.07	-1.84	-2.04
33	4033.00	25.69	315.68	3803.06	753.63	-775.40	1081.28	1.27	-1.13	1.33
34	4127.00	26.69	313.81	3887.41	782.82	-804.87	1122.75	1.38	1.06	-1.99
35	4221.00	26.31	313.43	3971.53	811.76	-835.23	1164.70	0.44	-0.40	-0.40



Client : National Fuels Corporation
 Well : WestWater State # 22-32
 Location :
 License :

Page: 2
 Date : 5/29/2006
 File : 4008256

UWI #:

Vertical Section Calculated Along Azimuth 313.83°

KB Elevation = 0.00ft

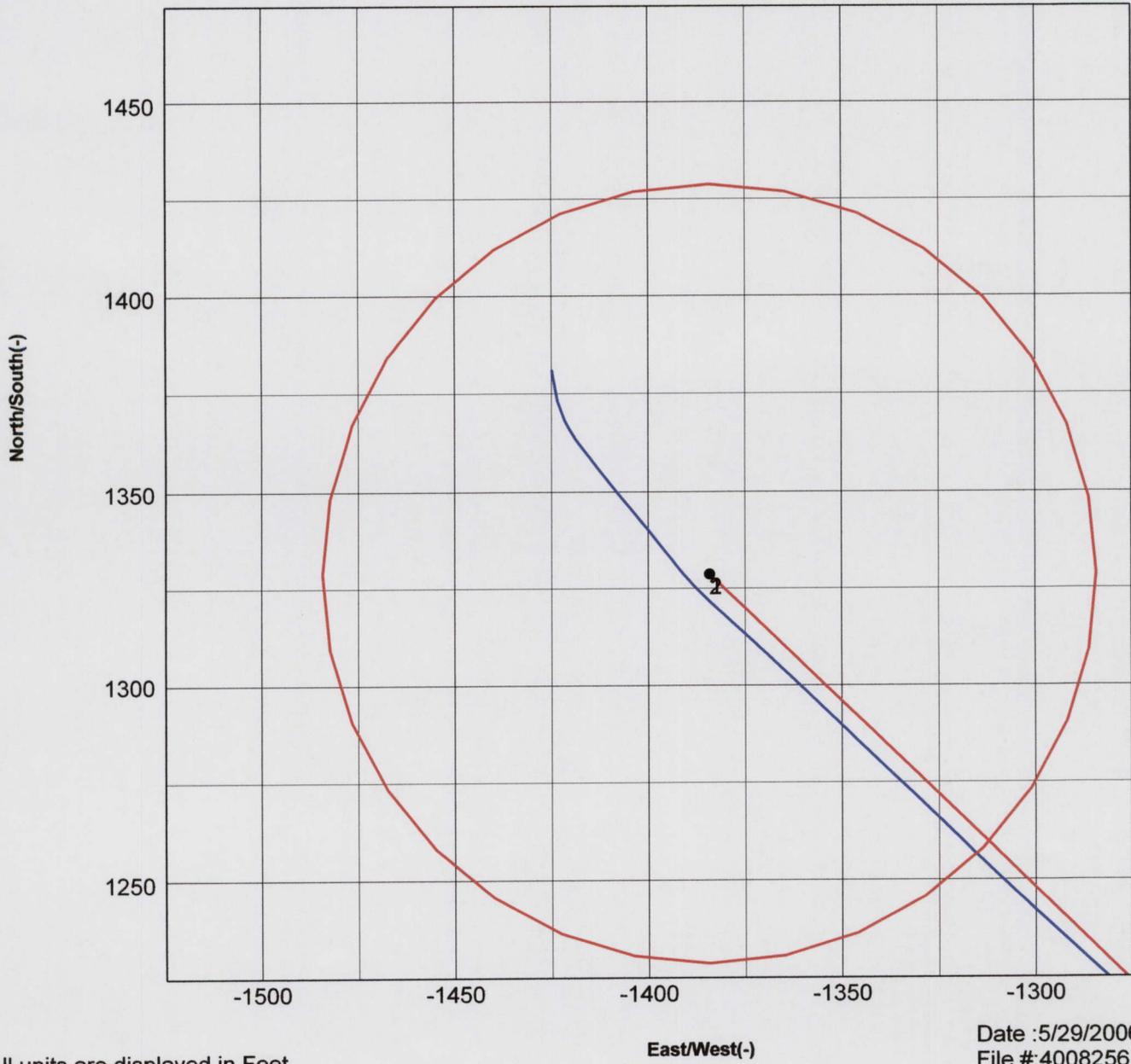
	MD ft	Inc deg	Azi deg	TVD ft	North ft	East ft	V'Sect ft	D'Leg °/100	Build °/100	Turn °/100
36	4314.00	25.75	314.06	4055.10	839.98	-864.72	1205.51	0.67	-0.60	0.68
37	4408.00	25.25	313.31	4139.94	867.93	-893.98	1245.97	0.63	-0.53	-0.80
38	4502.00	24.44	313.31	4225.24	895.02	-922.72	1285.47	0.86	-0.86	0.00
39	4595.00	24.94	312.93	4309.74	921.57	-951.07	1324.31	0.56	0.54	-0.41
40	4688.00	25.00	312.81	4394.04	948.28	-979.85	1363.56	0.08	0.06	-0.13
41	4782.00	24.69	312.68	4479.34	975.09	-1008.85	1403.05	0.33	-0.33	-0.14
42	4876.00	24.44	311.31	4564.84	1001.24	-1037.89	1442.11	0.66	-0.27	-1.46
43	4970.00	24.63	311.56	4650.35	1027.07	-1067.15	1481.11	0.23	0.20	0.27
44	5064.00	23.75	310.81	4736.09	1052.43	-1096.14	1519.58	0.99	-0.94	-0.80
45	5151.00	23.44	313.68	4815.82	1075.83	-1121.91	1554.38	1.37	-0.36	3.30
46	5244.00	22.94	312.56	4901.31	1100.87	-1148.64	1591.00	0.72	-0.54	-1.20
47	5338.00	22.81	313.81	4987.92	1125.87	-1175.28	1627.54	0.54	-0.14	1.33
48	5431.00	22.38	313.56	5073.78	1150.55	-1201.12	1663.27	0.47	-0.46	-0.27
49	5524.00	21.56	313.43	5160.02	1174.50	-1226.36	1698.06	0.88	-0.88	-0.14
50	5617.00	21.25	312.81	5246.61	1197.70	-1251.14	1732.00	0.41	-0.33	-0.67
51	5712.00	17.88	312.06	5336.11	1219.18	-1274.60	1763.80	3.56	-3.55	-0.79
52	5806.00	17.56	312.18	5425.65	1238.36	-1295.82	1792.40	0.34	-0.34	0.13
53	5900.00	15.50	313.93	5515.76	1256.60	-1315.38	1819.13	2.25	-2.19	1.86
54	5994.00	13.25	313.43	5606.81	1272.72	-1332.25	1842.47	2.40	-2.39	-0.53
55	6087.00	11.44	313.81	5697.66	1286.44	-1346.64	1862.35	1.95	-1.95	0.41
56	6180.00	11.00	314.06	5788.88	1298.99	-1359.68	1880.45	0.48	-0.47	0.27
57	6274.00	10.38	312.31	5881.25	1310.93	-1372.38	1897.88	0.74	-0.66	-1.86
58	6368.00	7.50	312.56	5974.10	1320.78	-1383.17	1912.48	3.06	-3.06	0.27
59	6463.00	5.69	320.06	6068.47	1328.58	-1390.76	1923.36	2.11	-1.91	7.89
60	6557.00	4.25	323.31	6162.11	1334.95	-1395.83	1931.43	1.56	-1.53	3.46
61	6650.00	4.19	320.43	6254.86	1340.33	-1400.05	1938.20	0.24	-0.06	-3.10
62	6744.00	4.06	320.31	6348.62	1345.54	-1404.37	1944.92	0.14	-0.14	-0.13
63	6836.00	3.94	321.43	6440.39	1350.52	-1408.42	1951.29	0.16	-0.13	1.22
64	6929.00	3.88	322.31	6533.17	1355.51	-1412.33	1957.57	0.09	-0.06	0.95
65	7022.00	3.06	321.50	6626.00	1359.94	-1415.80	1963.14	0.88	-0.88	-0.87
66	7116.00	2.63	323.81	6719.89	1363.64	-1418.64	1967.75	0.47	-0.46	2.46
67	7239.00	2.38	332.93	6842.77	1368.19	-1421.47	1972.95	0.38	-0.20	7.41
68	7365.00	2.44	345.31	6968.66	1373.12	-1423.34	1977.71	0.42	0.05	9.83
69	7510.00	2.35	352.80	7113.53	1379.05	-1424.49	1982.65	0.22	-0.06	5.17
70	7555.00	2.35	352.80	7158.50	1380.88	-1424.72	1984.08	0.00	0.00	0.00

Bottom Hole Closure 1984.11ft Along Azimuth 314.10°

Plan View WestWater State # 22-32

— Proposal

— Actual



All units are displayed in Feet.

Date :5/29/2006
File #:4008256

LOCATION NO. NAT22-32		FEDERAL LEASE NO. ML 21613		COUNTY GRAND	STATE UT	DATE 8-23-06	
STATION OR CUSTOMER WW 22-32 / NATIONAL FUEL CORP.				MAP ID	TIME OF TEST 10:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		
ORIFICE MAKE BARTON	SERIAL NO. 12493	TYPE 202-E	CHART NO. L-10-16D	STATIC CON. <input type="checkbox"/> U.S. <input checked="" type="checkbox"/> D.S.	DIFF. ARC OK	CLOCK ROT. 16 D	
METER RANGE 100"	POUNDS 250#	ATMOS. PRESS. 11.33	IS ATMOS. SET ON CHART? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	TYPE OF CHART USED <input checked="" type="checkbox"/> SQUARE ROOT <input type="checkbox"/> LINEAR			
DEAD WEIGHT CHECK		STATIC		DIFFERENTIAL		TEMPERATURE	
D.W. PRESS:		FOUND	LEFT	FOUND	LEFT	FOUND	LEFT
ATMOS. PRESS:		0	2.10	0	0	85	88°
STATIC PEN SET:						1hr 45min	
ZERO 0	ZERO WORKING PRESSURE	ZERO ATMOS. PRESSURE 0	LEAK TEST <input checked="" type="checkbox"/> PASSED <input type="checkbox"/> NOT PASSED <input type="checkbox"/> REPAIRED <input type="checkbox"/> NOT REPAIRED				

DIFFERENTIAL TEST					STATIC TEST		
TYPE OF EQUIPMENT <input type="checkbox"/> PK <input type="checkbox"/> TRANSMATION <input type="checkbox"/> WC <input checked="" type="checkbox"/> OTHER					A S F O U N D	ATMOS. FOUND <input checked="" type="checkbox"/> IN <input type="checkbox"/> OUT @	
SCALE	FOUND	% ERROR	SCALE	LEFT		DW / GAUGE	METER
			0	0	ZERO	0	
			50	50	50% MID RANGE		
			100	100	100% FULL RANGE		
			80	80			
			20	20	ZERO	0	0
			0	0	50% MID RANGE	125	125
					100% FULL RANGE	250	250
					ATMOS. LEFT <input checked="" type="checkbox"/> IN <input type="checkbox"/> OUT @	11.33	

THERMOMETER			
MAKE PALMER		RANGE 0-150°	
A S F O U N D	LOW	FLOW	HIGH
	TEST		
A S L E F T	LOW	FLOW	HIGH
	TEST	88°	
	METER	88°	
ORIFICE PLATE		SIZE 2" x 1.000	
EDGES SHARP <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	PLATE DAMAGED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		
PLATE CLEAN? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	SEAL RING CONDITION? <input checked="" type="checkbox"/> GOOD <input type="checkbox"/> BAD		
STAMPED OR MEASURED SIZE 1.000	MIC SIZE .9990		
METER IN CALIBRATION? <input type="checkbox"/> FOUND YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> LEFT YES <input type="checkbox"/> NO	ATMOS. TEMP	
REMARKS:		TEMP. BASE 60°F	
		GRAVITY	
		BTU	

ORIFICE FITTING OR UNION	
MAKE DANIEL	TYPE SIMPLEX
SERIAL NO.	LINE SIZE
	METER TUBE 2.067"
METER TUBE UPSTREAM ID:	DOWNSTREAM ID:

INSTALLED NEW ORIFICE PLATE / SV = N **1ST CALIBRATION**

WITNESS SIGNATURE _____ TESTER SIGNATURE *[Signature]*

Galaxie Chromatography Data System

Natural Gas
Analysis Report

Meter ID #:	NAT22-32	Analysis Date	08/23/2006 1:47 pm
Meter Name:	WW 22-32	Sample Date(s):	8/23/2006 to 8/23/2006
Field Name:	Paradise Hill	Company Title:	National Fuel Corp.
Cylinder Pressure:		Flowing Temp:	80
Line Pressure:	137	Operator	Peter Rodeback

Gas Analysis by Chromatograph @ 14.7300

Component	Mole %	BTU	SG	GPM
Nitrogen	0.4167	0.00	0.0040	0.0000
Methane	94.1099	952.71	0.5225	0.0000
Carbon Dioxide	1.2964	0.00	0.0197	0.0000
Ethane	3.0842	54.71	0.0321	0.8243
Propane	0.5606	14.14	0.0086	0.1544
i-butane	0.2287	7.45	0.0046	0.0748
n-butane	0.1744	5.70	0.0035	0.0550
i-pentane	0.0490	1.96	0.0012	0.0179
n-pentane	0.0364	1.46	0.0009	0.0132
2,2-dimethylbutane	0.0000	0.00	0.0000	0.0000
n-hexane	0.0150	0.71	0.0004	0.0062
n-heptane	0.0238	1.31	0.0008	0.0110
n-octane	0.0049	0.31	0.0002	0.0025
n-nonane	0.0000	0.00	0.0000	0.0000
Ideal Totals	100.0000	1,040.47	0.5987	1.1592

Gross BTU/Real Cu Ft. @ 60 deg F

Pressure Base =	14.73	14.65	15.025
Dry =	1042.8325	1042.8196	1042.8798
Saturated =	1024.6831	1024.5713	1,025.09
Actual BTU =	1042.8325	1042.8196	1042.8798
Real S.G. =	0.6014	0.5982	0.6135
Compressibility =	0.9977	0.9977	0.9977

Comments

Comments No Comment

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:

ML-21613

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:

NFC Westwater State #22-32

9. API NUMBER:

4301931454

10. FIELD AND POOL, OR WILDCAT:

Westwater

1. TYPE OF WELL

OIL WELL []

GAS WELL [X]

OTHER []

2. NAME OF OPERATOR:

National Fuel Corporation

3. ADDRESS OF OPERATOR:

7979 E Tufts Ave #815 CITY Denver

STATE Co

ZIP 80237

PHONE NUMBER:

(303) 220-7772

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2534' FNL, 2583' FWL

COUNTY: Grand

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 16S 24E

STATE:

UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

Table with columns: TYPE OF SUBMISSION, TYPE OF ACTION. Includes checkboxes for NOTICE OF INTENT, SUBSEQUENT REPORT, and various actions like ACIDIZE, DEEPEN, REPERFORATE CURRENT FORMATION.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This Sundry Notice is being submitted for notification of recompletion and reperforating operations for the Westwater State #22-32. Please review the following procedure. (1) Move in completion rig. (2) Pull tubing and perforate Cedar Mtn. at 6866 - 73' and 6853-56', 4SPF. (3) Test through production equipment. (4) Drill out cement in 4 1/2" casing to 7540' using well gas. Air boost will be used if gas volume is not adequate for circulating cuttings. (5) Perforate Entrada formation at 7522 - 30', 4 SPF. (6) Isolate Entrada from Cedar Mtn. perforations with a tubing set packer. (7) Test Entrada for deliverability and gas quality. Analyze flow information to decide if further stimulation is required. (8) If Entrada gas is pipeline quality, packer will be removed and Entrada production will be commingled with Cedar Mtn. production. If Entrada gas is not pipeline quality, a permanent cast iron bridge plug will be set at 7500' with 5 sack cement plug on top and the well will resume production from Cedar Mtn. formation.

COPIES TO OPERATOR
12-29-06
RM

NAME (PLEASE PRINT) Andrew Busch

TITLE Vice President of Operations

SIGNATURE

Andrew Busch

DATE 12/11/2006

(This space for State use only)

RECEIVED
DEC 18 2006
DIVISION OF OIL, GAS AND MINING

(5/2000)

* An application for commingling shall be submitted in accordance with rule R649-3-22 and approved by the Division prior to commingling gas from two pools.

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-21613
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: National Fuel Corporation		8. WELL NAME and NUMBER: NFC Westwater State #22-32
3. ADDRESS OF OPERATOR: 8400 E Prentice #1100 CITY Greenwood Vill STATE Co ZIP 80111		9. API NUMBER: 4301931454
		10. FIELD AND POOL, OR WILDCAT: Westwater
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2534' FNL, 2583' FWL		COUNTY: Grand
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 32 16S 24E		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> OTHER: _____
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 7/23/2007			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This subsequent report is being submitted in relation to the Notice of Intent that was approved on December 18th of 2006. All operations have been completed and a detailed description is included with this notice. The Entrada recompletion proved to be unsuccessful and as a result was plugged. The well currently continues to produce from the Cedar Mountain formation.

NAME (PLEASE PRINT) <u>Andrew Busch</u>	TITLE <u>V. P. of Operations</u>
SIGNATURE <u><i>Andrew Busch</i></u>	DATE <u>3/13/2008</u>

(This space for State use only)

RECEIVED
MAR 21 2008
DIV. OF OIL, GAS & MINING

**National Fuel Corporation
Westwater State #22-32
Entrada Recompletion**

4/2/07 – MIRU W.P. Inc. rig. JCM Trucking hauled pump and tank to location. Blew down well. ND wellhead. NU BOP. POOH with tbg. Laid down SN and last jt. Put well on line through csg. SDFD 5:00PM.

4/3/07 – Blew down well. PU and RIH in order with 3 7/8" long tooth bit, bit sub, string check, 3 – 2 7/8" drill collars and 239 jts of 2 3/8" tbg to 7267'. State Line trucking delivered 100 bbls of 3% KCl water to rig tank. Ran flow lines from csg to reserve pit. NU stripping head. Shut in tbg and csg. RU power swivel. SDFD 3:30PM. 6:00PM – Ace West on location with foam unit.

4/4/07 – Csg - 210#. Blew down csg. RU foam unit. Broke circulation pumping down tbg at 7267'. PU and RIH with 6 more jts to 7435'. Tagged cement. Broke circulation. Drilled out cement and float collar to 7540'. Circulated for 1 hour. Clean returns at blow line after 1 hour. RD foam unit and power swivel. POOH with 1 stand. Shut in well. SDFD 7:30PM.

4/5/07 – Csg – 260#. Blew down well. RIH with 1 stand. Tagged at 7540'. POOH with tbg and drill collars. Laid down collars and BHA. Put well on line through csg. Perforators scheduled for tomorrow morning.

4/6/07 – Csg – 260#. Lone Wolf wireline on location at 8:00AM. Began rigging up. Wireline truck had problems with hydraulics. RD wireline and changed out with another truck. RU and RIH with CCL and 8' - 3 3/8" expendable perf gun loaded with 22.7 gram charges at 4 SPF. Correlated depth using short jts at 6407' and 6519'. RIH to new TD at 7542' (loggers TD). Pulled up and perforated Entrada at 7522' to 30'. Casing 260# before and after perforating. POOH with CCL and spent gun. All shots fired. RD wireline. PU and RIH in order with 1 stand, 4 1/2" set down packer, SN and 120 more stands. Set packer at 7226'. End of tbg at 7284'. Closed pipe rams and put well on line through csg to let Cedar Mtn produce. Shut in tbg to let Entrada pressure build over the weekend. SDFD 4:30PM.

4/9/07 – Tbg – 350#. Blew down tbg. RU swab. Tbg venting lightly. RIH with swab. Not enough line on drum to reach SN. 1000' short. RD swab. Canceled acid job until drum can be respooled with more line. Dropped 2 soap sticks down tbg and shut in.

4/10/07 – Tbg – 150#.

4/12/07 – Tbg – 220#.

4/13/07 – Tbg – 345#. Spooled 10,000 ft of new line on swab drum. Blew down tbg and RU swab. 1st run recovered 500' of fluid. 2nd run recovered 100'. No fluid on 3rd run. Light vapor through tbg after 3rd run. SDFD 2:00PM.

4/16/07 – Tbg – 245#. MIRU Cal Frac acid equipment. Test lines to 5000#. Start in with 7 ½ % HCl acid at 4.25 bpm. Dropping 3 ball sealers per bbl of acid. Dropped a total of 45 balls. Caught pressure at 25 bbls pumped. Pressure jumped to 3000 psi then broke back to 2400#. Pressure jumped to 3400# when 1st balls hit perms then broke back to 2300#. Pressure at end of job 2000#. Displaced acid to bottom perf with 32 bbls of 3% KCl water. Total job volume 50 bbls. ISIP - 1200#. 1 minute - 0#. RD Cal Frac. RU swab. Fluid level on 1st run 1500' from surface. After 12 runs, recovered 30 bbls. 13th run heavily gas cut. Well continued blowing after run. After 10 minutes well began to log off. RD swab. Dropped 1 soap stick and shut in. SDFD 5:00PM.

4/17/07 – Tbg – 400#. Blew down tbg to rig tank. RU swab. 1st run fluid 4000' from surface. After 8 runs, recovered 20 bbls. Well blowing for 10 to 15 minutes after each run, then logs off. After 15 runs, recovered 37 bbls of fluid. Total recovered = 67 bbls. 17 bbls over job volume. Fluid recovered on last 3 runs no longer smells acidic and taste very salty. After 15th run, dropped 2 soap sticks and shut in. SDFD 5:00PM.

4/18/07 – Tbg – 460#. Blew down well to reserve pit. Would not unload. RU swab. Fluid 3500' from surface on 1st run. Made 11 runs and recovered 25 bbls. Total recovered = 92 bbls. Well still blowing for 10 to 15 minutes after each run before logging off. RD swab. Shut in tbg. Unable to pull tbg and packer because of high winds. SDFD 1:30PM.

4/19/07 – Tbg – 500#. Blew down well to reserve pit. Would not unload. RU swab. Fluid level 3200' from surface. Made 6 runs and swabbed fluid level down to SN. Recovered 15 bbls of clear salty water. Total recovered = 107 bbls. No increase in follow up gas after final run. Still blows 10 – 15 minutes then logs off. RD swab. Blew down csg. ND stripping head. POOH with tbg and packer. Closed blind rams and put well on line through csg. SDFD 4:00PM.

4/30/07 – Csg – 115#. Flow rate 50 mcf/d. Blew down well. RU Lone Wolf wireline. PU and RIH with Bolt 4 ½" CIBP. Fluid level at 5100'. Set plug at 7400'. POOH with setting tool. PU & RIH with dump bailer and dumped 3 sacks of cement on top of CIBP. POOH with bailer. PU & RIH with 4 ½" Baker RBP and set at 6888'. POOH with setting tool. RD wireline. PU spang jars and ball catcher with sand line. RIH to RBP and sheared off ball catcher. POOH with sand line and jars. PU and RIH in order with 4 ½" Baker set down packer, SN and 225 jts to 6741'. Set packer. Perfs at 6853' to 6873' are now isolated. Tbg venting lightly. Installed TIW valve and shut in tbg. SDFD 4:00PM

5/1/07 – Tbg – 420#. Csg – 0#. Blew down tbg. RU Cal Frac to pump acid. Pressure tested lines to 5500#. Started in with 1000 gallons of 7 ½% HCl at 4.5 bpm. Dropping 8 ball sealers per 3 bbls of acid. Did not catch pressure after pumping tbg and csg volume. Noticed csg pressure starting to climb. With 15 bbls displacement pumped, tbg pressure started climbing. Continued to pump displacement at 4.5 bpm. Csg pressure continued to

climb. Suspect tbg or packer has failed. Max tbg pressure during job 570#. Csg 150# at end of job. Total job volume 59 bbls. RD Cal Frac. RU swab. 1st run fluid level at 1800' from surface. Recovered 30 bbls after 8 runs. 8th run recovered only ½ bbl. Csg at 100#. RD swab and blew down csg. Released packer. Tbg blowing lightly. Csg on vacuum. RU swab. Fluid level on 1st run at 3000'. Very acidic. Made 9 more runs and recovered 29 more bbls. Total recovered = 59 bbls. RD swab and shut in well. SDFD 5:30PM. Will pressure test tbg tomorrow morning before pulling packer.

5/2/07 – Tbg – 22#. Csg – 28#. Blew down tbg. Dropped standing valve down tbg. RU rig pump. Pumped 30 bbls of 3% KCL water down tbg. Never caught pressure. Tbg capacity 26 bbls. RD pump. POOH with tbg and packer. Found split in tbg 12 jts above packer. Packer in good condition. RIH with sand line and retrieved ball catcher. Dumped catcher. RIH with spang jars and catcher to RBP. Sheared off catcher. POOH with sand line. Shut in well. SDFD 5:00PM. Will test entire string to 5500# tomorrow with bar tool.

5/3/07 – No pressure on well. MIRU test truck. Had some trouble getting to location due to road conditions. PU & RIH with 4 ½" packer, SN and 1 stand. Dropped in standing valve. Pressure tested to 5500#. RIH with next stand and began testing with bar tool. Tested 8 stands to 5500#. Rain and high winds blowing bar tool sheave and blocks into derrick. Shut in well. SDFD 12:30PM.

5/4/07 – No pressure on well. Resumed testing. Tested entire string to 5500#. All joints held. Set packer at 6745'. Filled csg/tbg annulus with 3% KCl water. RU swab. Swabbed tbg fluid level down to SN. RIH with retrieving tool and retrieved standing valve. Shut in csg and tbg. SDFD 6:00PM. Cal Frac scheduled to acidize Monday morning.

5/7/07 – Tbg – 690#. Csg – 10#. Blew down tbg. RU Cal Frac to pump acid. Pressure tested lines to 5500#. Started in with 1000 gallons of 7 ½% HCl at 4.5 bpm. Dropping 8 ball sealers per 3 bbls of acid. Caught pressure at 23 bbls gone. Pressure jumped to 3300# then broke back to 2650#. Continued pumping at 4.5 bpm. Good ball action throughout job. Had complete ball out 3 bbls short of total displacement. Pressure jumped to 7109# before pump was kicked out. No change in pressure on csg. Made 3 attempts to surge balls off of perfs. Still could not pump in. Hydrostatic head holding balls on perfs. Shut down and RD Cal Frac. RU swab. 1st run fluid level 3500'. Made a total of 16 runs and recovered 37 bbls total. Job volume = 58 bbls. Last 4 runs gas cut. SDFD 5:30PM. Dropped 2 soap sticks down tbg and shut in for 30 minutes. Opened tbg to rig tank. Will leave open to tank overnight.

5/8/07 – Tbg – blowing lightly. Csg – 10#. Made 1 bbl to tank overnight. RU swab. Made 2 swab runs. On 2nd run, well carrying fluid on its own. RD swab. Released packer. Let fluid equalize between csg and tbg. 69 bbls in csg/tbg annulus. RIH 1 stand to 6807'. RU swab. Made 15 more runs. Recovered 38 bbls. Csg – 190#. Dropped 1 soap stick. Shut in well to let csg and tbg build. SDFD 5:30PM.

5/9/07 – Tbg – 450#. Csg – 450#. Blew down tbg. Did not carry any water to surface. Csg dropped to 140# then started building. RU swab. Made 6 runs and recovered 13 bbls

of gas cut fluid. On 7th run well flowed for 20 minutes before loading up. Csg 180#. Dropped 1 soap stick and shut in for 15 minutes. Csg climbed to 230#. Tbg 70#. Opened well to pit. Would not unload. Made 8 more runs. Total fluid recovered today 25 bbls. Less fluid entry on each run and longer blow after. Put well on line after 9th run. Csg – 210#. Tbg – 70#. SDFD 5:30PM.

5/10/07 – Tbg – 110#. Csg – 360#. Flow rate – 70 mcf/d. Blew down csg & tbg. POOH with tbg and packer. Replaced 6 tbg collars because of corrosion from sitting in acid. RIH with sand line and retrieving tool. Retrieved ball catcher on top of RBP. RIH with tbg and RBP retrieving head. Released RBP. POOH and laid down 3 jts. Put well on line through csg. SDFD 5:30PM.

5/11/07 – Tbg – 450#. Csg – 450#. Motor valve on differential controller lost supply gas. Well did not produce overnight. POOH with tbg and RBP. Laid down 7 jts that had corrosion pits. RIH in order with 1 jt, SN and rest of tbg to 6828'. Dropped 2 soap sticks down tbg. Shut in csg and tbg for 20 minutes. Csg and tbg both 180#. Put well on line through tbg. Slugged 10 gallons of corrosion inhibitor down csg. SDFD 3:30PM.

5/12/07 – Tbg – 120#. Csg – 360#. Flow rate 80 mcf/d. Dropped 2 soap sticks down tbg and shut in for 30 minutes. Tbg - 200#. Csg – 390#. Put on line. Started soap injection down csg.

5/14/07 – Tbg – 113#. Csg – 370#. Flow rate 45 mcf/d. Opened well to pit. Would not unload. RU stripping head. PU and RIH with 3 jts to 6904'. Dropped 2 soap sticks. RU swab. Made 10 runs. Recovered 23 bbls. On last run well continued flowing and was carrying fluid. Csg – 210#. Left open to pit. Will let clean up overnight. SDFD 3:00PM.

5/15/07 - 9:00AM Csg – 187#. Tbg blowing a heavy mist. Left open to pit. 2:00PM Csg – 181#. Still blowing a heavy soapy mist. Will leave open until tomorrow.

5/16/07 – 8:00AM Csg – 165#. Tbg blowing a light soapy mist. Shut in well for 2 hours. Csg – 355#. Tbg – 325#. Put well on line at 300 mcf/d.

5/17/06 – 8:00AM Csg – 268#. Tbg – 110#. Flow rate 320 mcf/d. Will let well produce for a week to clean up and then shut in for 72 hour build up test.

National Fuel Corporation
Westwater #22-32 Cedar Mtn Frac

7/3/07 – Csg – 215#. Tbg – 115#. Flow rate 275 mcf/d. Blew down well. ND wellhead. NU BOP. POOH with tbg. ND BOP. NU frac tree. Put well on line through csg.

7/7/07 – MIRU BJ Services. Pressure tested lines to 6500#. Pumped 119 bbls of slick water at 30 bpm to break formation and determine frac gradient. Max pressure during breakdown 950#. Well went on a vacuum at shut down. ISIP 0#. Started 1st stage of frac at 10:22AM. Pumped 102,194 pounds of 20/40 white sand and 572,673 scf of nitrogen. Screened out during flush. 75 bbls short of displacing sand to top perf. 10,000 pounds left in casing. Max pressure during job 5517#. Average rate 20.8 bpm. ISIP 5000#. RD BJ Services. RU flow line with 16/64" choke. Attempted to open wing valve on frac tree. Valve only partially opened and would not return to the closed position. Capped valve under pressure. RU flow line on opposite side of wellhead. Csg – 4850#. Started flowing to pit at 12:45PM. Unloading slugs of water and sand.

12:55PM – pressure 3800# blowing a heavy mist with sand.

1:10PM – pressure 1955# slugging fluid. Blowing a heavy mist between slugs.

1:20PM – pressure 1060# blowing a heavy mist. Not much sand in stream.

1:30PM – pressure 700# blowing a heavy mist. Not much sand in stream.

Changed choke to 20/64"

1:45PM – pressure 590# blowing a heavy mist.

2:00PM – pressure 450# blowing a light mist with no sand.

Changed choke to 32/64"

2:15PM – pressure 270# blowing mostly dry with an occasional mist.

2:45PM – pressure 70# blowing dry nitrogen.

3:15PM – pressure 60# blowing dry nitrogen.

Will leave open to pit overnight on 32/64 choke.

7/8/07 – Csg – 0#. No blow.

7/9/07 – Csg – 0#. No blow. ND frac tree. NU BOP and stripping head. RIH with NC, SN and tbg. Tagged fill at 4860'. 34 stands left in derrick. Top perf at 6853'. POOH and laid down 70 jts. RIH with 34 stands in derrick. Install stripping rubber. RU swivel and pump. Transferred water from frac tank to rig tank. Circulated rig tank to mix in KCl to 3% concentration. Pumped 30 bbls of KCl water down tbg before establishing circulation. Circulated hole for 30 minutes. SDFD 4:30PM. Will start cleaning sand tomorrow morning.

7/10/07 – Csg – 0#. Tbg – 0#. Started circulation down csg. Lost 1.5 bbls overnight. PU & RIH with 2 jts and tagged. Having trouble making hole. Only able to make hole when string is stacked. Still getting full circulation. Rotated string with tongs. Still unable to make much hole. Circulated 1 jt down in one hour. It feels like we are pushing something down the hole. Circulated hole for 30 minutes. POOH with 1 stand. Decided to pressure test tbg to make sure we are circulating through the end. Dropped in standing valve. Attempted to pressure test tbg. Would not hold. Leaked off 1000# in 3 minutes. POOH with tbg, testing every 16 stands. With 64 stands out, pressure held. RIH with tbg testing every 8 stands. After pulling 16 stands found small collar leak. Replaced collar. Retested string. Still did not hold, but leaked off at a much slower rate. Found several joints with corrosion pits but no obvious holes. Found several joints in derrick that have corrosion pits. POOH with tbg. Sand caked around notch collar and SN. Will bring out bar tester in the morning and test entire string to 5000#. SDFD 6:00PM.

7/11/07 – Test truck on location at 11:30AM. RU bar tools and test truck. PU & RIH with new NC & SN. RIH with 82 stands, testing each stand to 5800#. Found 2 small collar leaks. Not significant enough to prevent normal circulation. SDFD 6:00PM. Will attempt to circulate down again in the morning.

7/12/07 – PU swivel and 1 jt. Broke circulation. RIH with jt. Did not tag where we had yesterday. RD swivel. RIH with 5 more jts before tagging. RU swivel and broke circulation. Washed down 23 jts. Getting full returns with sand. POOH with 1 stand and closed in well. SDFD 5:30PM.

7/13/07 – Opened csg and tbg. No pressure. Established circulation. Lost 12 bbls overnight. Washed down 35 more jts. Lost circulation on 36th jt. End of tbg at 6890'. Lower Cedar Mtn perms at 6892' to 6900'. POOH and laid down 4 jts. POOH with 1 stand. Closed in well. SDFD 7:00PM. Will start swabbing on Monday.

7/16/07 – Opened csg and tbg. Both on a vacuum. NU spacer spool on BOP. RIH with 1 stand. PU & RIH with 3 jts. RU swab. 1st run fluid level 2000' from service. Made 18 runs and recovered 52 bbls. On 18th run well started free flowing. RD swab and RU flow line to pit. Opened to pit through 32/64" choke. After 30 minutes csg - 60#, tbg - 15#. Tbg slugging water and blowing a heavy mist between slugs. After 1 1/2 hours csg - 140#, tbg - 35#. Tbg blowing a heavy mist. Will leave open to pit overnight.

7/17/07 – Csg – 320#. Tbg – 22#. RD flow line. PU 1 stand. Washed down 1 stand in 3 hours. PU another stand. Could not wash down. Tbg loading up with fluid. Csg – 350#. Shut in tbg. Will let pressure build and attempt to finish washing down tomorrow. SDFD 2:30PM.

7/18/07 – Csg – 400#. Tbg – 245#. Blew down tbg. Blew down to a light vapor then started unloading slugs of water. Cleaned up to a heavy mist after 30 minutes. Washed down 1 stand to 6955'. Let clean up for 1 hour. Laid down 2 jts. Shut in tbg. Stripped in tbg hanger and landed at 6905'. ND stripping head and BOP. NU wellhead. Opened tbg to pit. Blew down in 10 minutes. Csg – 395#. Tbg – light vapor. Dropped 1 soap stick. RU swab. Made 1 run and well unloaded. RD swab. Let clean up to pit for 30 minutes. Ignited flow line. Strong continuous flare. Put well on line. Flow rate 320 mcf/d. Csg – 305#. Tbg – 285#. SDFD 5:30PM.

7/19/07 – Csg – 280#. Tbg – 145#. Flow rate 380 mcf/d. Made 9 bbls overnight.

7/20/07 - Csg – 320#. Tbg – 143#. Flow rate 200 mcf/d. Made 8 BOW overnight. Blew well to production tank for 15 min. Put on line at 400 mcf/d. Csg – 280#. Tbg – 155#. Production for last 24 hr – 262 mcf. Canyon Gas down.

7/21/07 – Production for last 24 hr – 29 mcf. Canyon Gas down.

7/22/07 - Production for last 24 hr – 360 mcf.

7/23/07 – Csg – 285#. Tbg – 177#. Flow rate 380 mcf/d. Made 20 BOW in the last 48 hours.

Tbg Detail

Tubing 2 3/8" 229jts	6887.01
SN	1.10
NC	.50
<u>KB</u>	<u>16.00</u>
Total	6904.61