

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>#ML-49944</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: <b>National Fuel Corporation</b>		9. WELL NAME and NUMBER: <b>NFC Lindisfarne State #13-35</b>	
3. ADDRESS OF OPERATOR: <b>8400 E Prentice #1100</b> CITY <b>Greenwood Vill</b> STATE <b>Co</b> ZIP <b>80111</b>		PHONE NUMBER: <b>(303) 220-7772</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>2001' ESL 580' FWL</b> <i>644773X 39.447730</i> AT PROPOSED PRODUCING ZONE: <b>SAME</b> <i>436 98264 -109.317049</i>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 35 15S 23E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>52.3 mi from Ouray, UT</b>		12. COUNTY: <b>UINTAH</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>580'</b>	16. NUMBER OF ACRES IN LEASE: <b>1880</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>Not Spaced</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>NA</b>	19. PROPOSED DEPTH: <b>8,820</b>	20. BOND DESCRIPTION: <b>Statewide - 04127314</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>8081.3' Ungraded, 8078.8' Graded</b>	22. APPROXIMATE DATE WORK WILL START: <b>6/1/2008</b>	23. ESTIMATED DURATION: <b>30 days</b>	

**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	140sx 1.15 cu ft/sk	15.8
12 1/4"	9 5/8"	J-55	36#	1,100	Class G	450sx 1.15 cu ft/sk	15.8
7 7/8"	4 1/2"	N-80	11.6#	8,820	Stage 1 - 50/50 poz	710sx 1.26 cu ft/sk	14.2
					Stage 2 - 50/50 poz	850sx 1.26 cu ft/sk	14.2

**ATTACHMENTS**

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

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> 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 11/21/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39853

Approved by the  
Utah Division of  
Oil, Gas and Mining

**RECEIVED**

**NOV 29 2007**

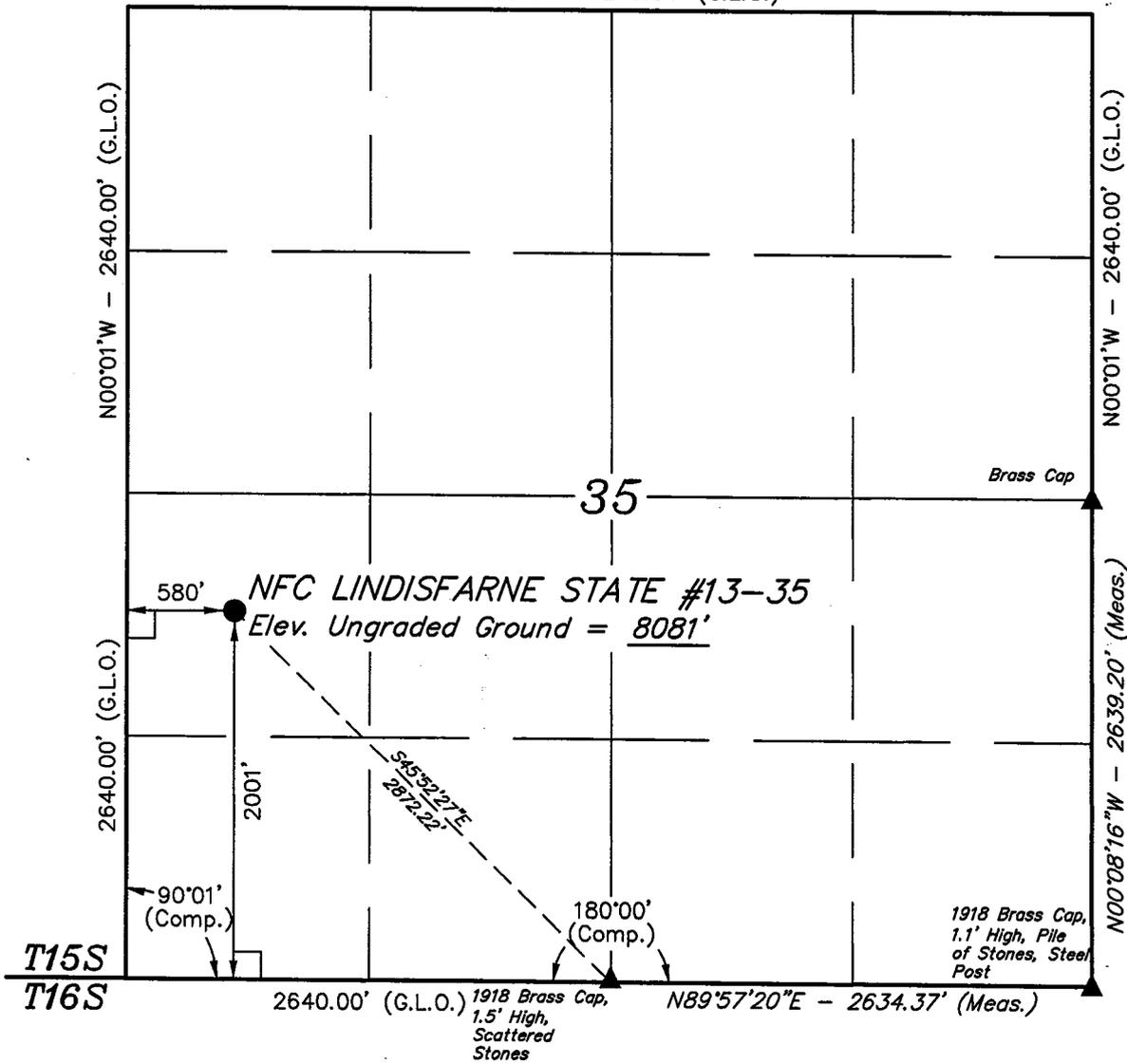
DIV. OF OIL, GAS & MINING

(11/2001)

Date: 05 20 06  
By: *[Signature]*

# T15S, R23E, S.L.B.&M.

N89°58'W - 5276.04' (G.L.O.)



## NATIONAL FUEL CORPORATION

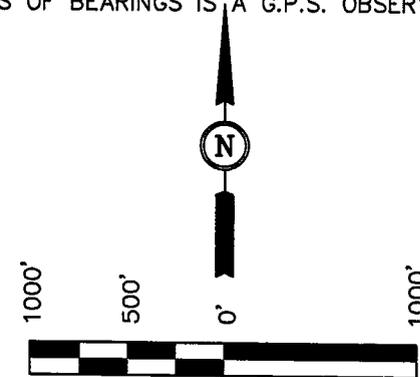
Well location, NFC LINDISFARNE STATE #13-35, located as shown in the NW 1/4 SW 1/4 of Section 35, T15S, R23E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION ALONG A JEEP TRAIL LOCATED IN THE NE 1/4 OF SECTION 25, T14S, R22E, S.L.B.&M. TAKEN FROM THE PINE SPRINGS CANYON QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7172 FEET.

### BASIS OF BEARINGS

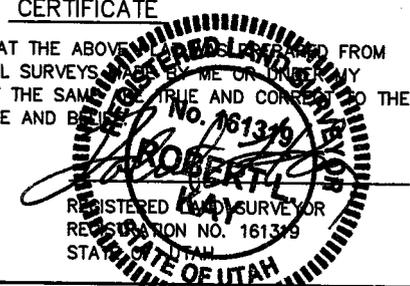
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE DESCRIBED 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.



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

### LEGEND:

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

(NAD 83)  
 LATITUDE = 39°28'04.07" (39.467797)  
 LONGITUDE = 109°19'03.61" (109.317669)  
 (NAD 27)  
 LATITUDE = 39°28'04.18" (39.467828)  
 LONGITUDE = 109°19'01.18" (109.312994)

SCALE 1" = 1000'	DATE SURVEYED: 10-19-07	DATE DRAWN: 11-05-07
PARTY L.D.K. A.W. L.A.K.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE NATIONAL FUEL CORPORATION	

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

Company: National Fuel Corporation Well No. NFC Lindisfarne State #13-35

Location: Sec. 35, T. 15S, R. 23E, Lease No. ML-49944

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>	
Wasatch	@surface
Castlegate	4723'
Mancos	4759'
Mancos "B"	5497'
Tununk	8100'
Dakota Silt	8355'
Dakota Sand	8445'
Cedar Mtn.	8587'
Morrison	8620'
TD	8820'

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

Depth/Formation

Expected Oil Zones: Mancos, Mancos "B"

Expected Gas Zones: Castlegate, Mancos, Mancos "B", Dakota Silt, Dakota Sand, Cedar Mtn, Morrison

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

2. Pressure Control Equipment – See attached schematic: Type: 11” X 3,000 psi WP, double-gate BOP and 11” X 3,000 psi WP annular BOP with hydraulic closing unit.

The blowout preventer will be equipped as follows:

- 1) One set of blind rams
- 2) One set of pipe rams
- 3) Drilling spool with two side outlet ( choke side: 3” minimum and kill side 2” minimum )
- 4) Kill line: Two-inch minimum
- 5) Two kill line valves, one of which will be a check valve ( 2” minimum )
- 6) Choke line: Three-inch minimum.
- 7) Two choke line valves: Three-inch minimum.
- 8) One manually operated choke: Three-inch minimum.
- 9) Pressure gauge on choke manifold.
- 10) Upper kelly cock with handle readily available.
- 11) Full opening internal blowout preventer or drill pipe safety valve able to fit all connections.
- 12) Fill-up line to be located above uppermost preventer.

**PRESSURE RATING: 3,000 PSI**

#### TESTING PROCEDURE

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the approved BOP stack. (if isolated from the surface casing by means of a test plug) or 70% of the internal yield strength of the surface casing (if not isolated from the surface casing by means of a test plug). Pressure will be maintained for a period of at least ten minutes or until requirements of the test are met, whichever is longer.

At a minimum, this pressure test will be performed:

- 1) When the BOP is initially installed
- 2) Whenever any seal subject to test is broken.
- 3) Following related repairs.
- 4) At fourteen day intervals.

In addition to the above, the pipe rams will be activated daily, and the blind rams will be activated on each trip (but not more frequently than once each day). All BOP tests and drills will be recorded in the IADC Driller’s Log (tour sheet)

#### CHOKE MANIFOLD EQUIPMENT:

All choke lines will be straight lines, unless turns use tee-blocks, or are targeted with running tees. These lines will be anchored to prevent whip and vibration.

#### ACCUMULATOR:

The accumulator will have sufficient capacity to close all rams (plus the annular preventer, if applicable) and maintain a minimum of 200 psi above the pre-charge pressure without the use of the closing unit pumps. The fluid reservoir capacity will be double the accumulator capacity and the fluid level will be maintain at the manufacturer’s recommendation. The BOP system will have two independent power sources to close preventers. Nitrogen bottles (three minimum) will be considered one of these sources and will maintain a charge equal to the manufacturer’s specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits of manufacturer’s specifications.

**MISCELLANEAUS INFORMATION:**

The blowout preventer and related pressure-control equipment will be installed, tested, and maintained in compliance with the specifications in and requirements of DOGM's Drilling and Operating Practices #R649-3-7. The choke manifold and BOP extension rods will be located outside the rig sub-structure.

The hydraulic BOP closing unit will be located at least twenty-five feet from the wellhead, but will be readily accessible to the driller. Exact location and configuration of the hydraulic BOP closing unit will depend upon the particular drilling rig contracted to drill this hole.

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

Surface csg.-	New	13 3/8" 48.5# , H-40, ST&C,	150' to Surface
Intermediate csg.-	New	9 5/8" , 36# , J-55, ST&C,	1100' to Surface
Production csg.-	New	4 1/2" , 11.6# , N-80,LT&C	8820' 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. If stage cementing, describe techniques: \_\_\_\_\_

13 3/8" csg. -	140sx Regular Class G cement, 1.15 cu ft/sk, 15.8 ppg,	150' to surface.
9 5/8" csg. -	450sx Regular Class G cement, 1.15 cu ft/sk, 15.8 ppg,	1100' to surface.
4 1/2" csg. -	1 <sup>st</sup> stage 50/50 poz w/0.25 PPS Flocele, 1.26 cu ft/sk, 14.2 ppg,	8820' to 5800'.
	2 <sup>nd</sup> stage 50/50 poz w/0.25 PPS Flocele, 1.26 cu ft/sk, 14.2 ppg,	5800' to 1100'

Surface casing shall be cemented back to surface. Centralizers shall be run, at a minimum, on the bottom three joints of each casing string. Stage tool will be at 5800' in 4 1/2" string.

5. **Mud Program and Circulating Medium** – Anticipate drilling surface and intermediate with air. Production hole will be drilled with a Diammonium Phosphate (DAP) fluid system. Sufficient mud materials will be stored on location to maintain well control and combat lost circulation problems that might reasonably be expected. *9.0 - 9.2 expected to A. Busch 4/23/08*

6. **Coring, Logging and Testing Program:** No DST or core anticipated. Logging program: Induction with GR and SP. Neutron Density with GR. Open hole logs will be run from TD to 1100'. 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 3000#. *Anticipated < 1500 BHP to A Busch 4/23/08*

8. **Any Other Aspects of this Proposal that should be Addressed:** \_\_\_\_\_  
Anticipated time frames for: Construction and Drilling - 25 to 35 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. Proposed route to location (submit a map depicting access and well location).  
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: Approximately 0.8 miles of existing road will need to be improved to accommodate rig traffic. See plat.
- e. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Planned Access Roads:

- a. Location (centerline): See on map attached to survey plat.
- b. Length of new access to be constructed: 0.1 miles
- c. Length of existing roads to be upgraded: 0.8 miles
- d. Maximum total disturbed width: 50ft
- e. Maximum travel surface width: 18ft
- f. Maximum grades: 10% or less
- 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 drianage.

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 tanks 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 3" steel gathering line will be laid on the surface paralleling the access road and will be tied to existing buried 10" line owned by Energy Transfer Partners. Line is located on the East side of Seep Ridge Road. See attached plat showing pipeline route.

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 as specified by DOGM.

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.

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 Bert Delambert and taken from a pond on his property located in Main Canyon in the center of the E ½, E ½ Section 31-T15S-R23E, Uintah Co., Utah. Water Right #49-123, App. #T-14298, Cert. #1504. See attached map showing water source location.

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. 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 3 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 survey 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 and South sides of the 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 reseeding, 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 archaeological survey has been performed on the new well site and access road to location. Results are contained in the Archeological attachment.

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

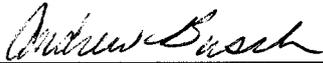
Address: 8400 East Prentice Avenue, #1100  
Greenwood Village, Co. 80111

Phone Number: (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.



\_\_\_\_\_  
Signature

Vice President of Operations

Title

November 21, 2007

Date

**Class III Cultural Resource Inventory Report  
for the  
Proposed NFC Lindisfarne-State #13-35 and NFC Lindisfarne-State #43-35  
Well Locations and Related New and To-Be-Upgraded Access Routes on  
State Lands in Uintah County, Utah  
for  
National Fuel Corporation**

Declaration of Negative Findings

GRI Project No. 27111

23 October 2007

Prepared by

Grand River Institute  
P.O. Box 3543  
Grand Junction, Colorado 81502  
UDSH Project Authorization No. U07-GB-1249s

  
\_\_\_\_\_  
Carl E. Conner, Principal Investigator

Submitted to

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

# UTAH STATE COVER PAGE

Must Accompany All Project Reports  
Submitted to Utah SHPO

**Project Name: Class III Cultural Resource Inventory Report for the Proposed NFC  
Lindisfarne-State #13-35 and NFC Lindisfarne-State #43-35 Well Locations and  
Related New and To-Be-Upgraded Access Routes on State Lands in Uintah County,  
Utah for National Fuel Corporation**

State Proj. No. U07-GB-1249s

Report Date: 23 October 2007

County(ies): Uintah

Principal Investigator: Carl E. Conner

Field Supervisor(s): Carl E. Conner

Records search completed at: UDSH

Record search date(s): 10/16/2007

Acreage Surveyed ~ Intensive: N/A

Recon/Intuitive: N/A

7.5' Series USGS Map Reference(s): PR Spring (1970) Quadrangle

Sites Reported	Count	Smithsonian Site Numbers
Archaeological Sites	0	
Revisits (no inventory form update)		
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
  - Updated Part B
  - 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.)

## **Abstract**

Grand River Institute conducted a Class III cultural resources inventory for the proposed NFC Lindisfarne-State #13-35 and NFC Lindisfarne-State #43-35 well locations and related new and to-be-upgraded access routes in Uintah County, Utah for National Fuel Corporation under Utah Division of State History (UDSH) Project Authorization No. U07-GB-1249s. This work was done to meet requirements of State law that protect cultural resources. A files search conducted through the Preservation Office UDSH on 16 October 2007 indicated no sites were previously recorded in the study area. Field work was performed on 20 October 2007. A total of about 41.7 acres of State land was inspected. No cultural or paleontological resources were encountered and clearance is recommended.

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## **Introduction**

At the request of National Fuel Corporation, a Class III cultural resources inventory for the proposed NFC Lindisfarne-State #13-35 and NFC Lindisfarne-State #43-35 well locations and related new and to-be-upgraded access routes in Uintah County, Utah under Utah Division of State History (UDSH) Project Authorization No. U07-GB-1249s. The files search, survey and report were prepared by Carl E. Conner (Principal Investigator). A files search conducted through the Preservation Office UDSH on 16 October 2007 indicated no sites were previously recorded and no cultural resources surveys were completed within the study area. Field work was performed on 20 October 2007. A total of about 41.7 acres of State land was inspected.

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 on the Roan Plateau in Uintah County, Utah. The study areas are located in T. 15 S., R. 23 E., Sections 35; 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 8100 feet. The terrain is characterized as a narrow ridgetop covered in Transitional Zone oakbrush, sagebrush, serviceberry and grasses, with an occasional juniper or pinyon. Regional faunal inhabitants include deer, antelope, elk, black bear, coyote, mountain lion, cottontails, jack rabbits, and various raptors. 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

[Figure 1 goes here]

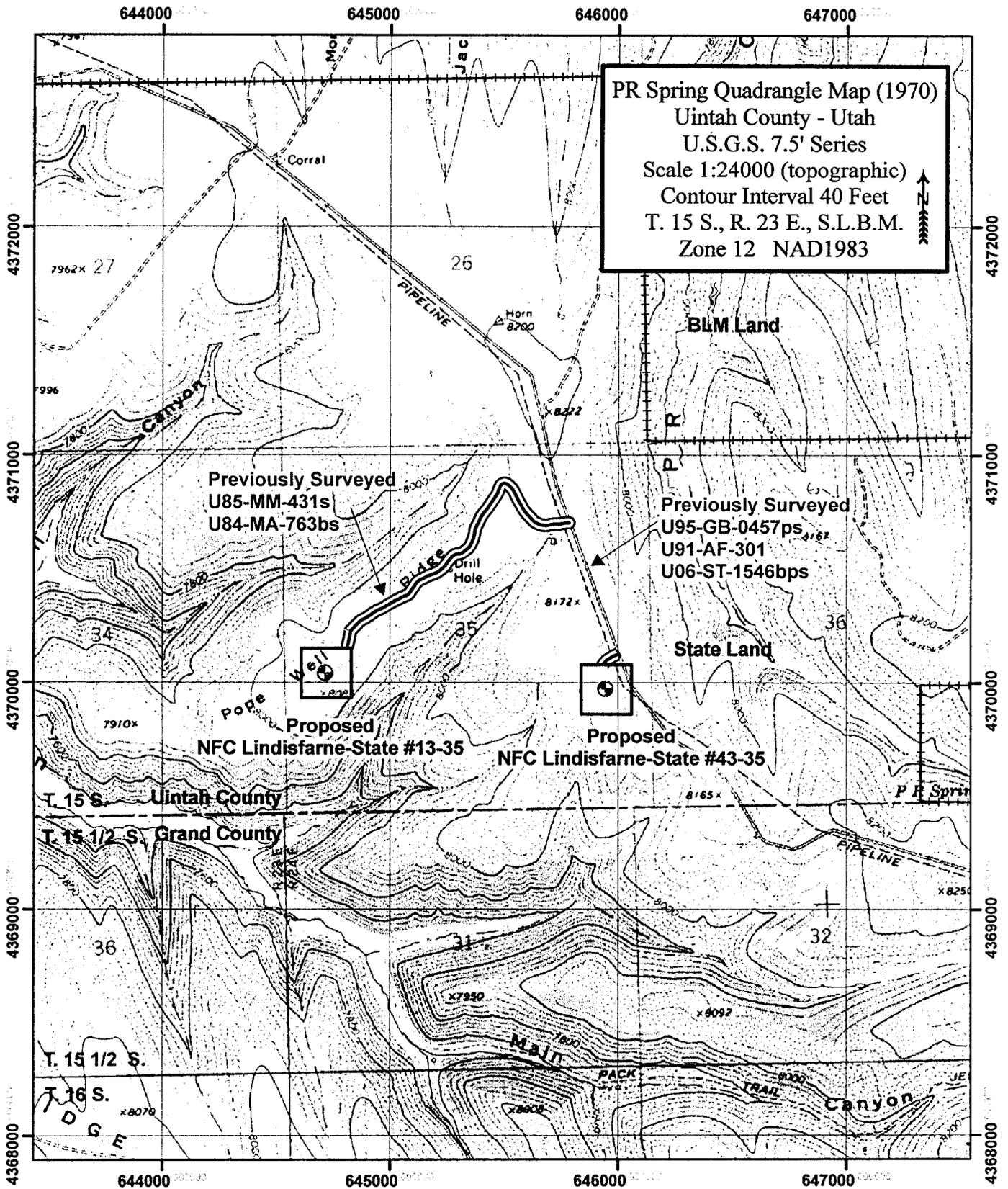


Figure 1. Project location map for the Class III cultural resources inventory report for two proposed State well locations and related short accesses (4725') in Uintah County, Utah for National Fuels Corporation. Areas surveyed are highlighted. [GRI Project No. 27111, 10/23/07]

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).

A files search conducted through the Preservation Office UDSH on 16 October 2007 indicated no sites were previously recorded in the study area. Eleven energy or road upgrade related projects have been conducted within a mile of the present study area (Table 1). Two of these inventoried the proposed access to the NFC Lindisfarne-State #13-35, however, these were conducted over twenty years ago. One historic site (42UN900, cairn) has been recorded within a mile of the present project and was deemed non-significant. No prehistoric cultural sites were recorded within a mile of the present project area.

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

<b>Report Number</b>	<b>Project</b>
U-06-ST-1546bps	Class III CRI of the Seep Ridge Pipeline Project, Grand and Uintah Counties, Utah (Reed and Hays, 12/2006)
U-05-ST-1038bps	Class III CRI of the Park Ridge 3-D Geophysical Exploration Project Area, Uintah County, Utah (Hays et al., 6/2006)
U-04-AY-292s	EOGF Resources Inc. Lindisfarne #1-26: A Cultural Resource Inventory for a well and its access and pipeline, Uintah County, Utah (Truesdale, 4/2004)
U-02-NU-0340bs	Class III Cultural Resource Inventory on the WesternGeco Horse Point 3D Seismic Grid, Uintah and Grand Counties, Utah (Frizell et al., 9/18/2002)
U-95-GB-457ps	Cultural Resource Inventory Report of the Proposed Spring Diversion Project in Uintah and Grand Counties, Utah for Alameda Corporation (Conner, 8/1995)

<b>Report Number</b>	<b>Project</b>
U-91-AF-301 U-90-AF-133bis U-89-AF-687bps	Archaeological Evaluations in the Northern Colorado Plateau Cultural Area: An Investigation of the Seep Ridge - Book Cliffs - Red Wash - Hay Canyon - Whetrock Canyon & Interstate 70 - Exit 220 Alternative Highway Routes in Uintah and Grand Counties, Utah ( Hauck, Ph.D., 12/1991)
U-85-MM-431s	PR Springs Tar Sands Exploration Project (24 drill holes) for Mobile Alternative Energy, Inc. in Grand and Uintah Counties, Utah (Metcalf, 6/25/1985)
U-84-MA-763bs	Cultural resource inventory for 39 proposed drill holes for Mobil Oil Corporation's PR Spring Tar Sands Exploration Permit Area in Uintah and Grand Counties, Utah (Metcalf-Zier, 9/1983)
U-83-MA-196bs	Cultural resource inventory of 16 proposed drill holes for Mobil Oil Corporation's PR Spring Tar Sands Exploration Project, Uintah and Grand Counties, Utah (Metcalf-Zier, 9/1983)
U-80-WE-304b	A cultural resource survey of pipeline right-of-ways in the Main Canyon District of the East Tavaputs Plateau, Utah (Hibbets and Wharton, 6/1980)
U-79-DB-147b	An Archaeological Survey of Gas Pipelines in Northwestern Colorado and East Central Utah for Northwest Pipeline Corporation (Powers et al., 6/1979)

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### **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**

A Class III, 100% pedestrian, cultural resources survey of the proposed well locations was 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 (4725 feet) were inspected by walking a series of parallel transects along both sides of the flagged centerline spaced at 15-meter intervals to cover a 200 foot-wide swath. A total of about 41.7 acres of State land 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 BLM Certified GEO X/T Trimble), 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**

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

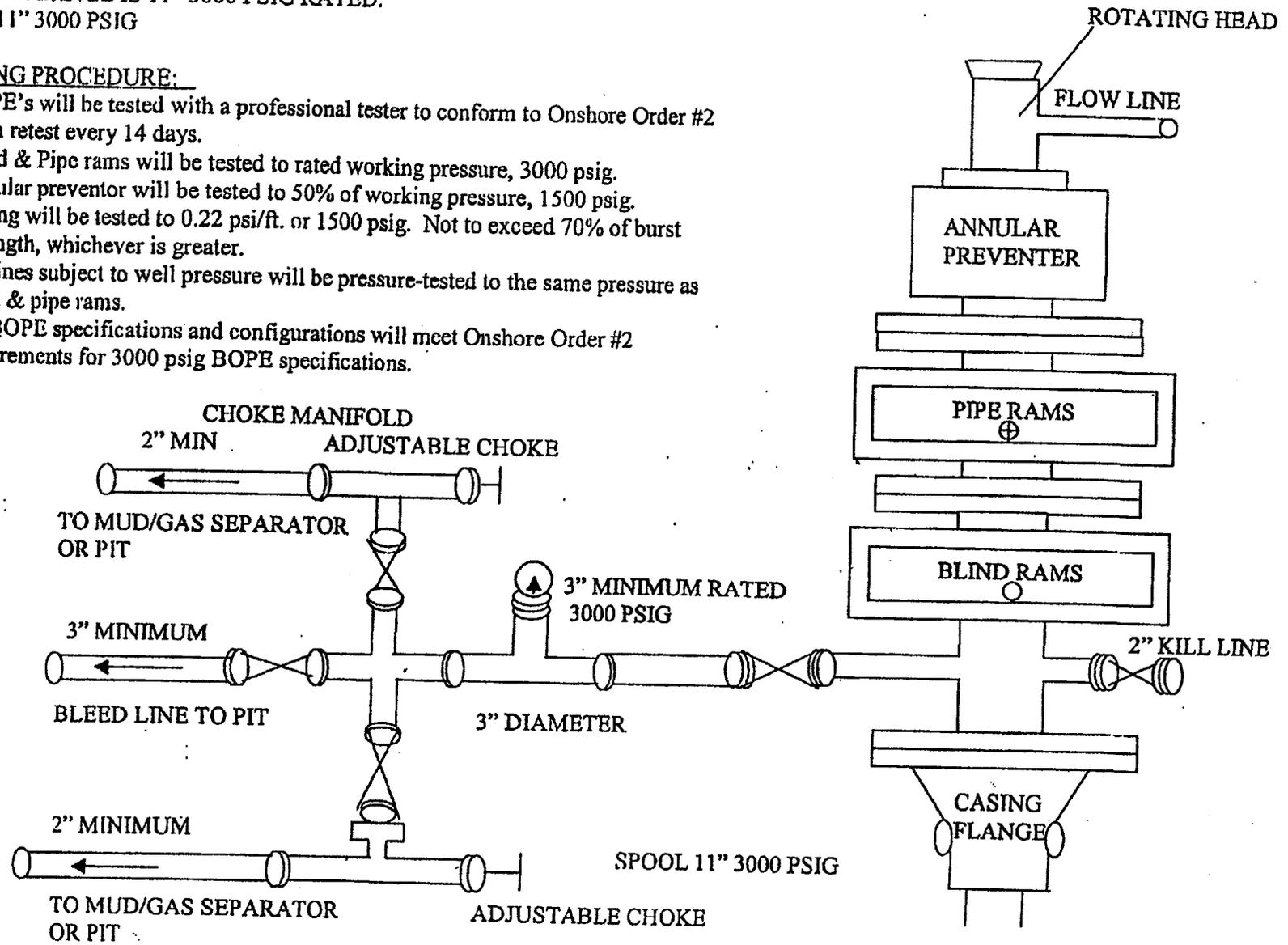
1976 Northern Colorado Plateau. Kendall/Hunt Publishing Company. Dubuque.

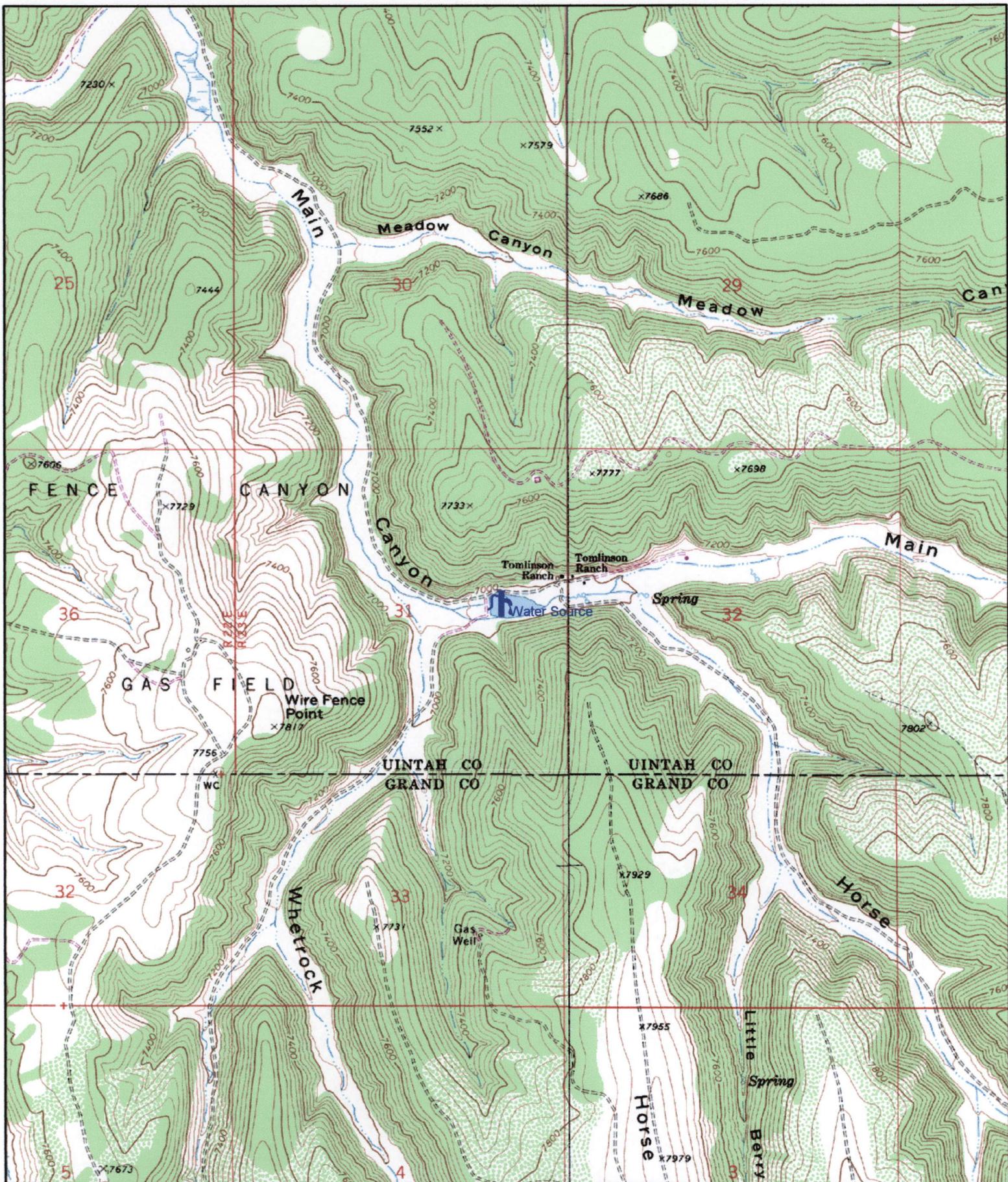
### 3000 PSIG DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 3000 PSIG RATED.  
 CASING FLANGE IS 11" 3000 PSIG RATED.  
 BOPE 11" 3000 PSIG

#### TESTING PROCEDURE:

1. BOPE's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 3000 psig.
3. Annular preventer will be tested to 50% of working pressure, 1500 psig.
4. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
5. All lines subject to well pressure will be pressure-tested to the same pressure as blind & pipe rams.
6. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 3000 psig BOPE specifications.





Name: CEDAR CAMP CANYON  
 Date: 11/21/2007  
 Scale: 1 inch equals 2000 feet

Location: 039° 28' 13.1" N 109° 22' 42.2" W  
 Caption: Water Source

**NATIONAL FUEL CORPORATION**  
**NFC LINDISFARNE STATE #13-35**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 35, T15S, R23E, S.L.B.&M.

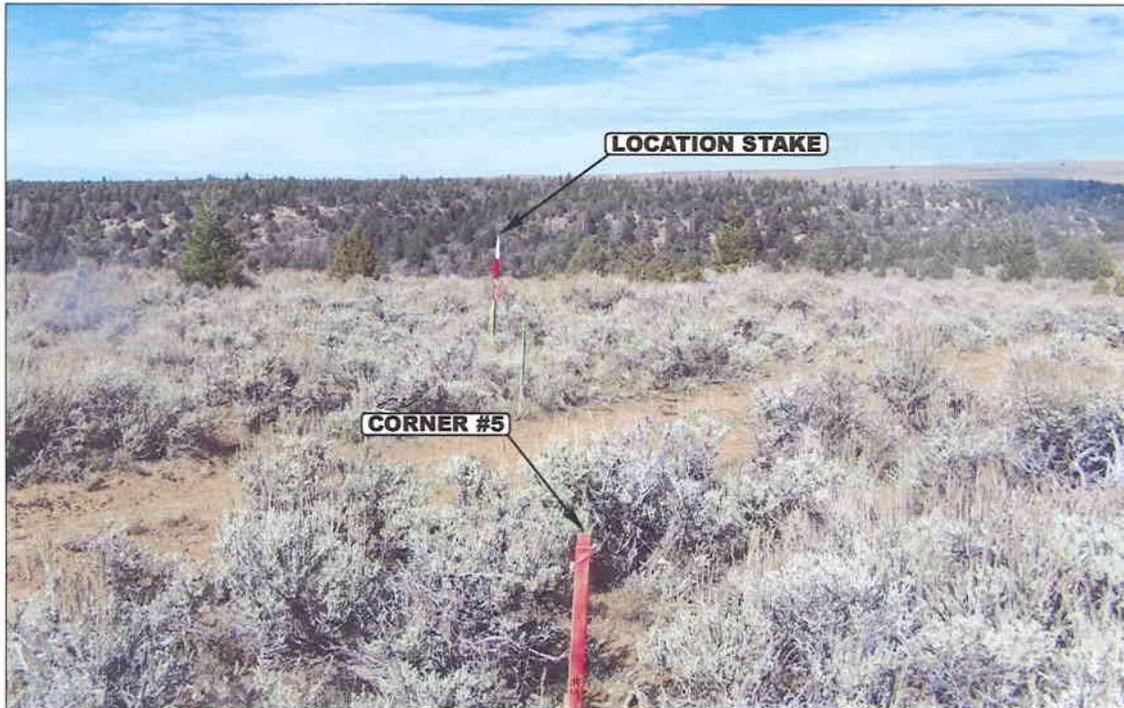


PHOTO: VIEW FROM CORNER #3 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



**U E L S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

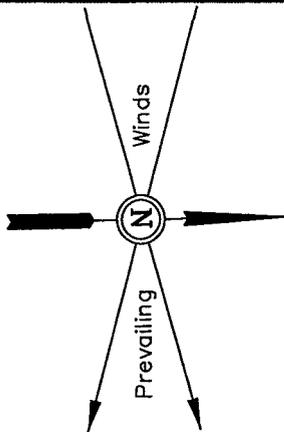
- Since 1964 -

<b>LOCATION PHOTOS</b>	<b>10</b>	<b>23</b>	<b>07</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: L.K.	DRAWN BY: J.L.G.	REVISED: 00-00-00		

# NATIONAL FUEL CORPORATION

## LOCATION LAYOUT FOR

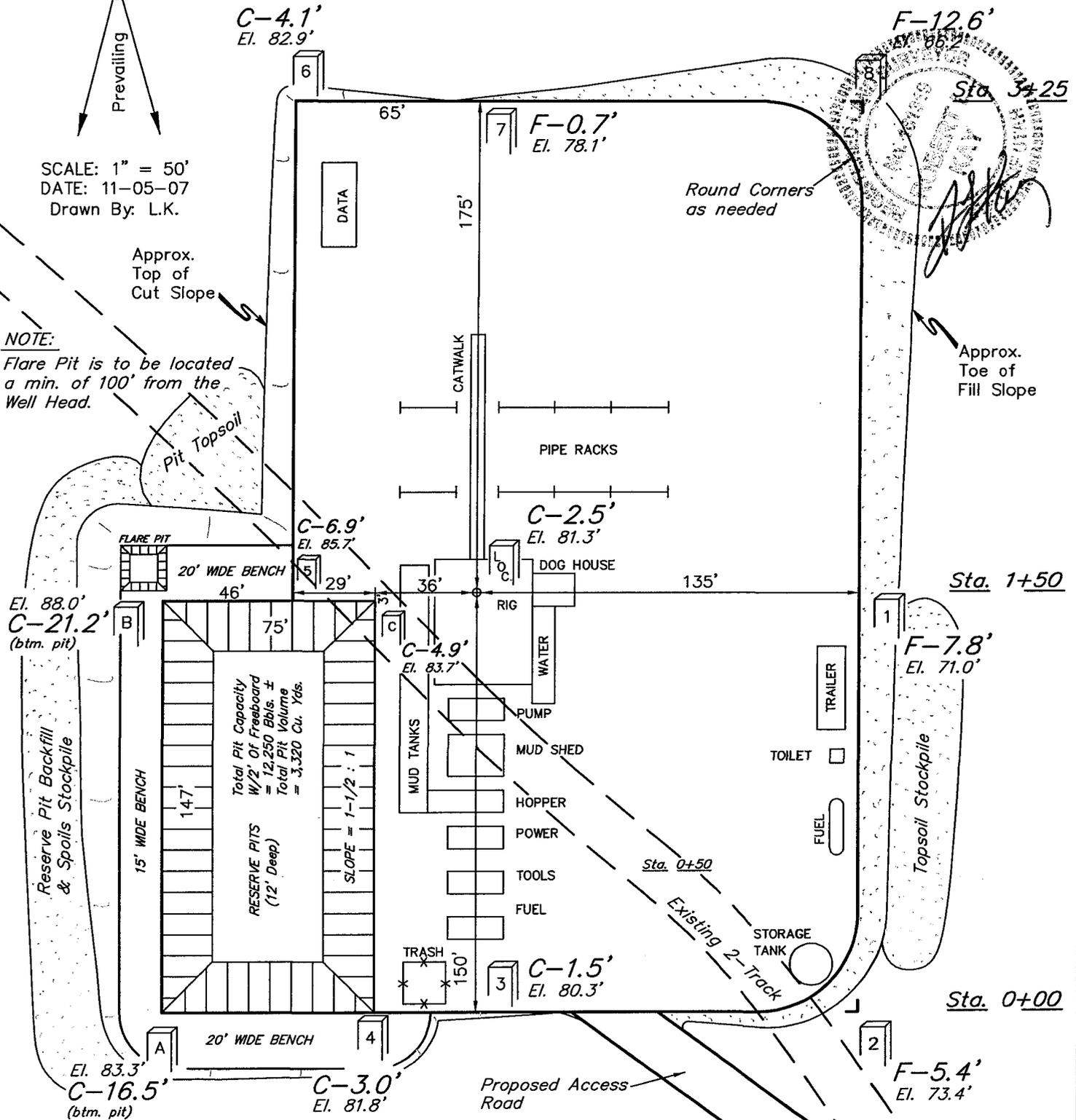
NFC LINDISFARNE STATE #13-35  
SECTION 35, T15S, R23E, S.L.B.&M.  
2001' FSL 580' FWL



SCALE: 1" = 50'  
DATE: 11-05-07  
Drawn By: L.K.

**NOTE:**

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



**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 8081.3'  
FINISHED GRADE ELEV. AT LOC. STAKE = 8078.8'

**FIGURE #1**

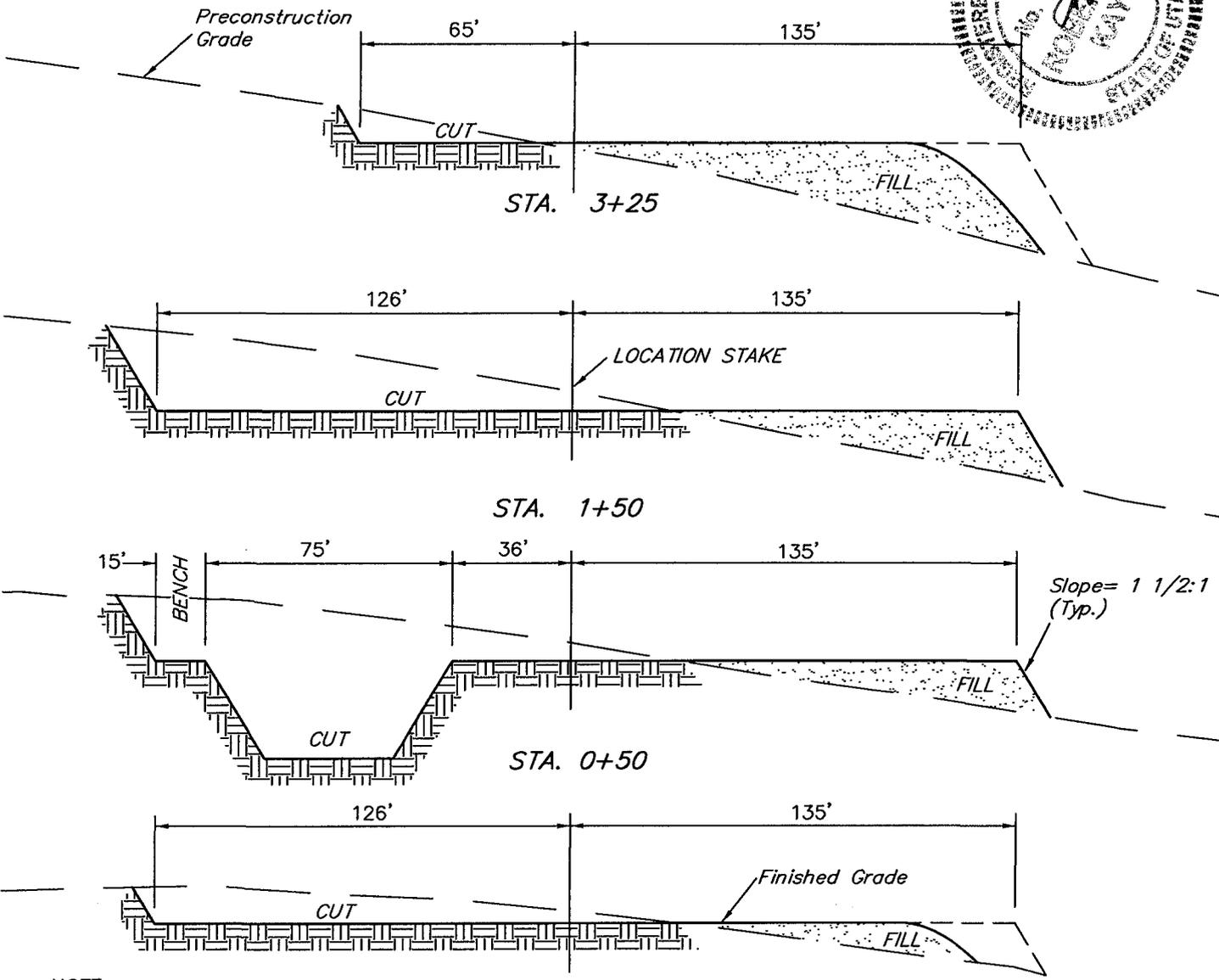
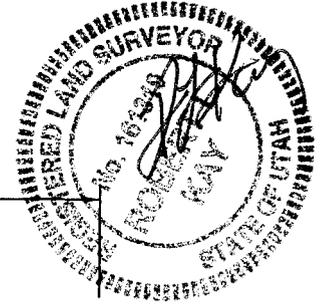
# NATIONAL FUEL CORPORATION

**FIGURE #2**

TYPICAL CROSS SECTIONS FOR  
 NFC LINDISFARNE STATE #13-35  
 SECTION 35, T15S, R23E, S.L.B.&M.  
 2001' FSL 580' FWL

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

DATE: 11-05-07  
 Drawn By: L.K.



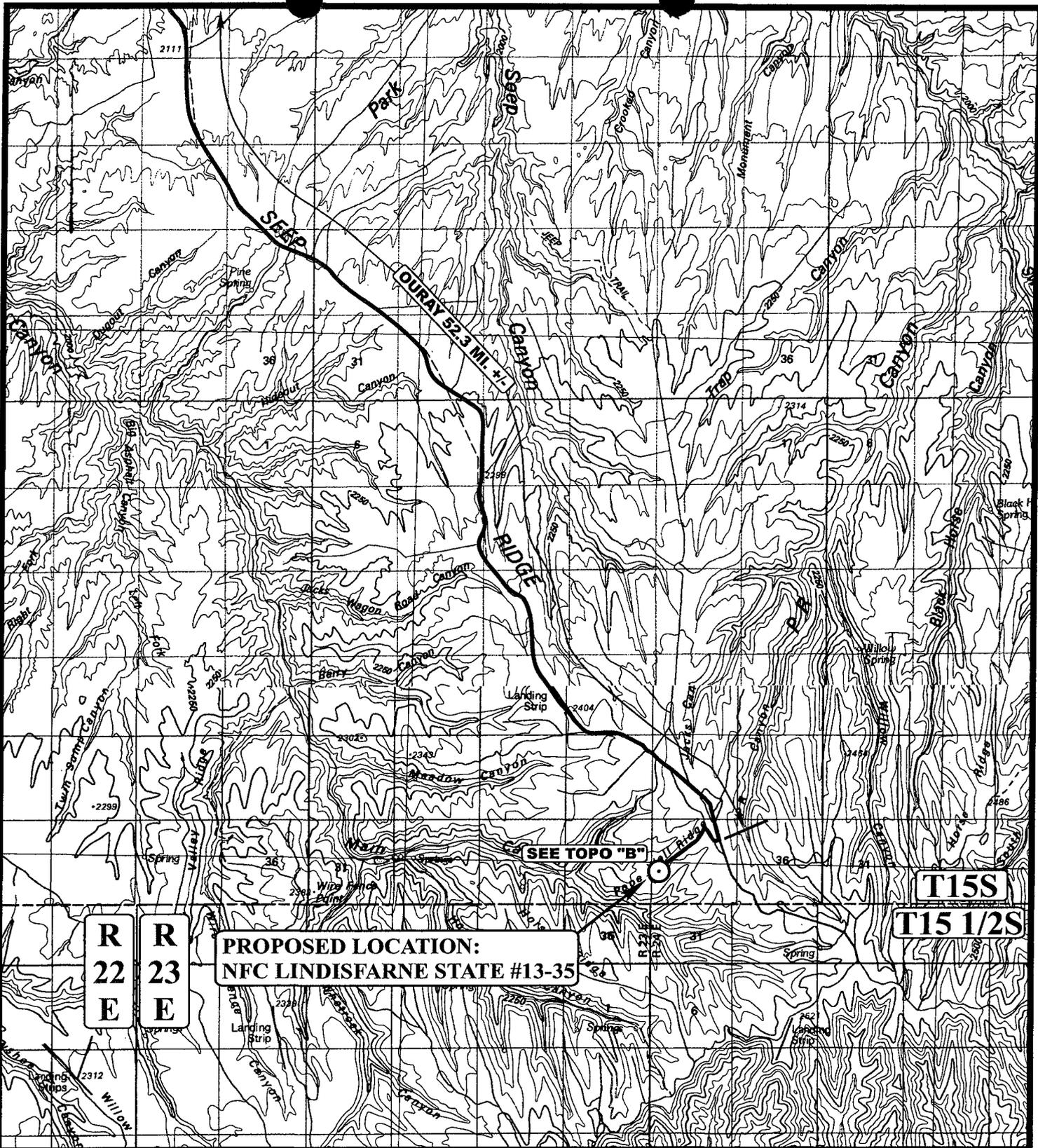
**NOTE:**  
 Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**\* NOTE:**  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,710 Cu. Yds.
Remaining Location	= 9,450 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,160 CU.YDS.</b>
<b>FILL</b>	<b>= 7,790 CU.YDS.</b>

EXCESS MATERIAL	= 3,370 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,370 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.



**LEGEND:**

○ PROPOSED LOCATION



**NATIONAL FUEL CORPORATION**

NFC LINDISFARNE STATE #13-35  
SECTION 35, T15S, R23E, S.L.B.&M.  
2001' FSL 580' FWL



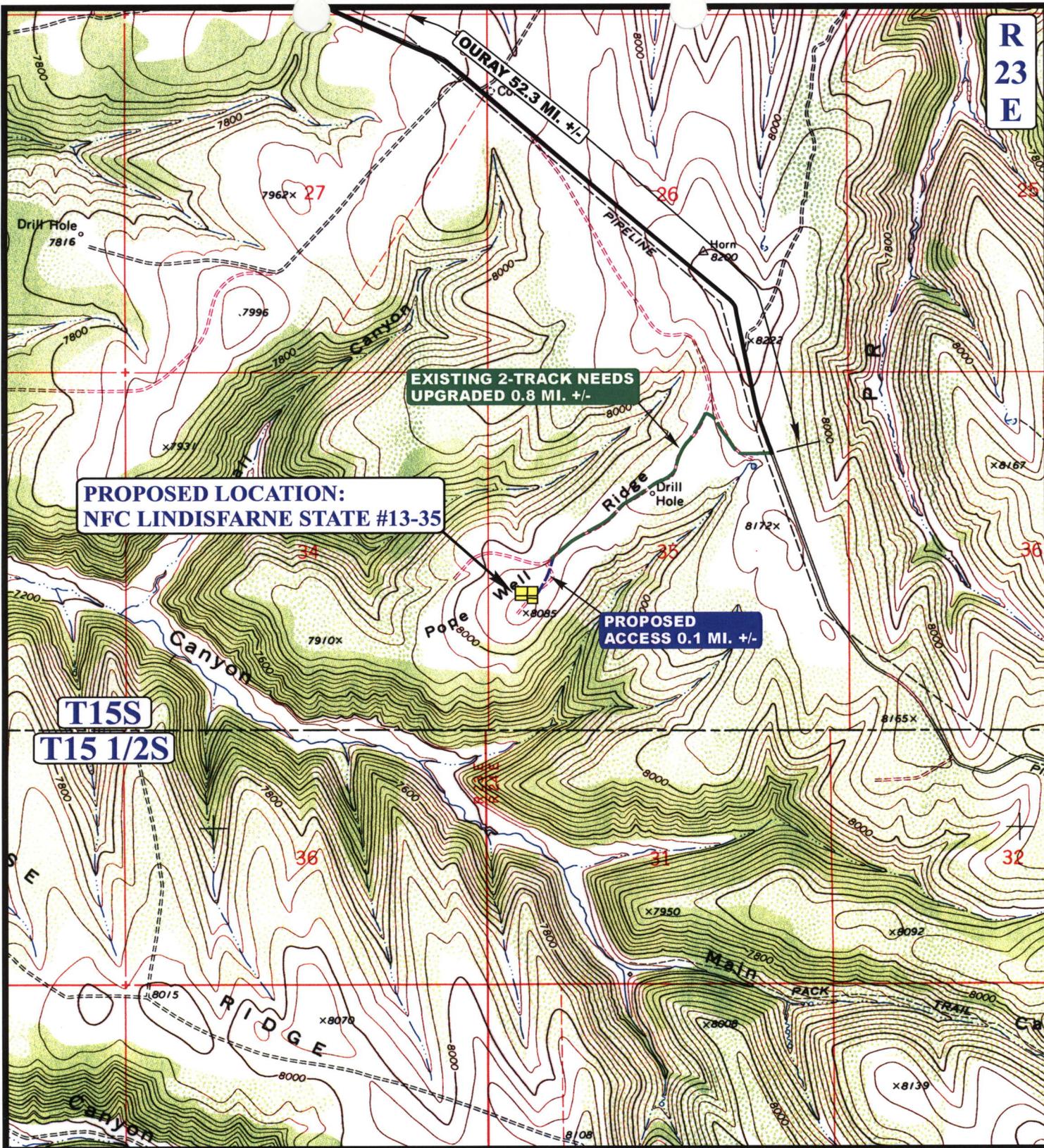
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
MAP

**10 23 07**  
MONTH DAY YEAR

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





**R  
23  
E**

**PROPOSED LOCATION:  
NFC LINDISFARNE STATE #13-35**

**EXISTING 2-TRACK NEEDS  
UPGRADED 0.8 MI. +/-**

**PROPOSED  
ACCESS 0.1 MI. +/-**

**T15S  
T15 1/2S**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING ROAD

**NATIONAL FUEL CORPORATION**

**NFC LINDISFARNE STATE #13-35  
SECTION 35, T15S, R23E, S.L.B.&M.  
2001' FSL 580' FWL**



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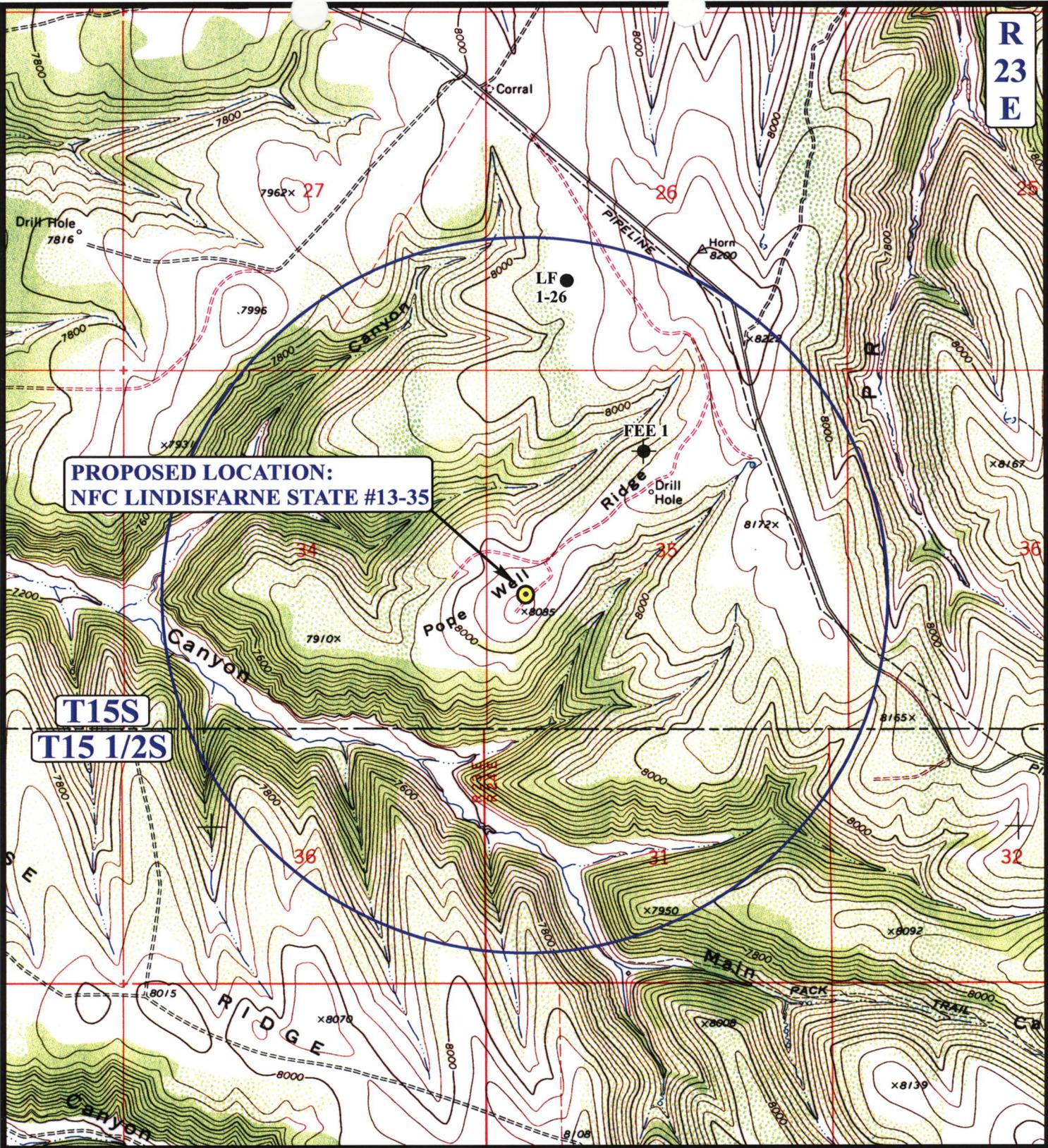
**TOPOGRAPHIC  
MAP**

**10 23 07**  
MONTH DAY YEAR

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



R 23 E



**PROPOSED LOCATION:  
NFC LINDISFARNE STATE #13-35**

**T15S  
T15 1/2S**

**LEGEND:**

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

**NATIONAL FUEL CORPORATION**

**NFC LINDISFARNE STATE #13-35  
SECTION 35, T15S, R23E, S.L.B.&M.  
2001' FSL 580' FWL**



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

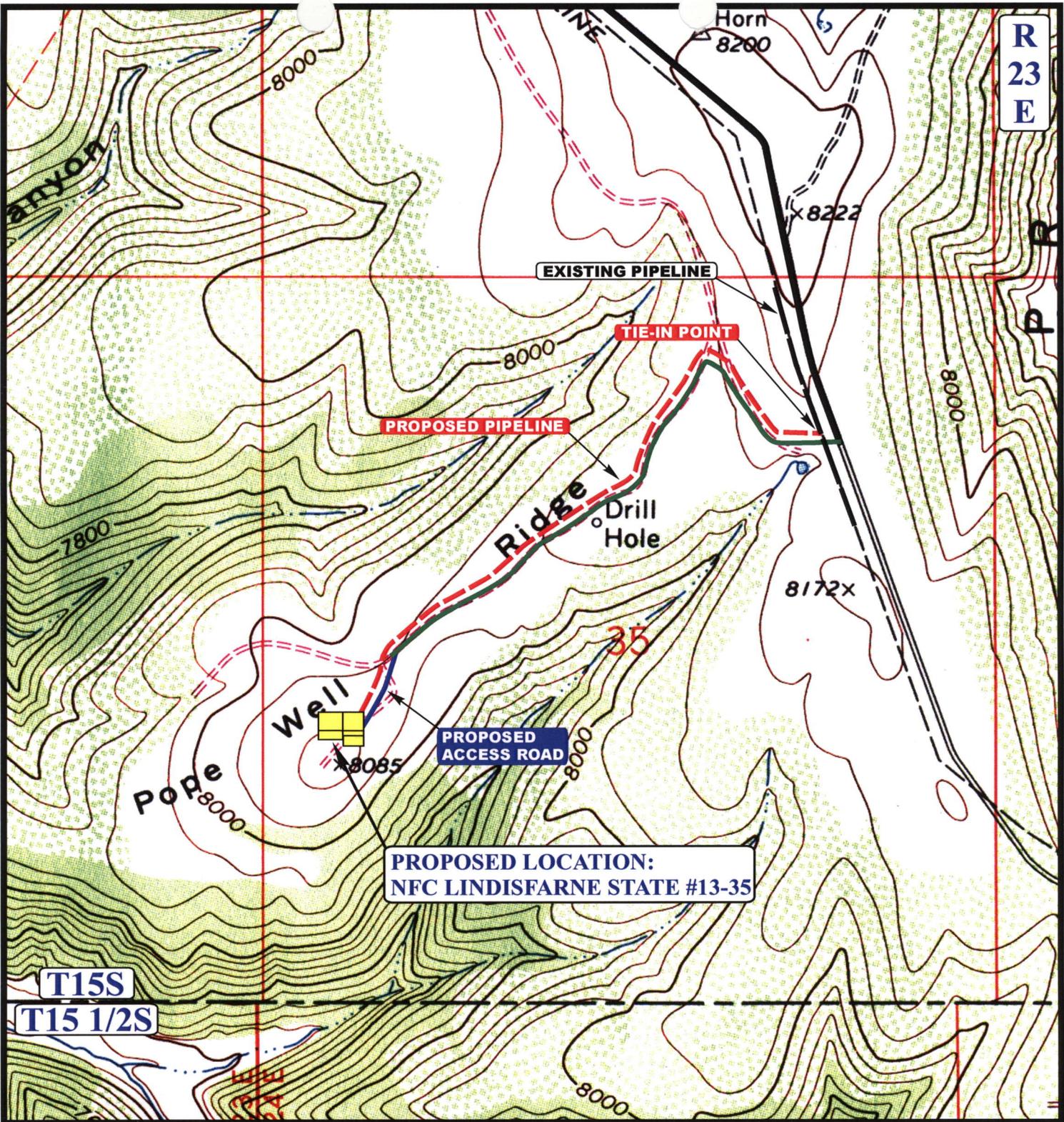


**TOPOGRAPHIC  
MAP**

**10 23 07**  
MONTH DAY YEAR

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





**APPROXIMATE TOTAL PIPELINE DISTANCE = 4,881' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS

**NATIONAL FUEL CORPORATION**

**NFC LINDISFARNE STATE #13-35  
SECTION 35, T15S, R23E, S.L.B.&M.  
2001' FSL 580' FWL**



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

**TOPOGRAPHIC  
MAP**

**10 23 07**  
MONTH DAY YEAR

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



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/29/2007

API NO. ASSIGNED: 43-047-39853

WELL NAME: NFC LINDISFARNE ST 13-35  
 OPERATOR: NATIONAL FUEL ( N8060 )  
 CONTACT: ANDREW BUSCH

PHONE NUMBER: 303-220-7772

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	4/24/08
Geology		
Surface		

NWSW 35 150S 230E  
 SURFACE: 2001 FSL 0580 FWL  
 BOTTOM: 2001 FSL 0580 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.46773 LONGITUDE: -109.3171  
 UTM SURF EASTINGS: 644773 NORTHINGS: 4369826  
 FIELD NAME: WILDCAT ( 1 )

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-49944  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: MRSN  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

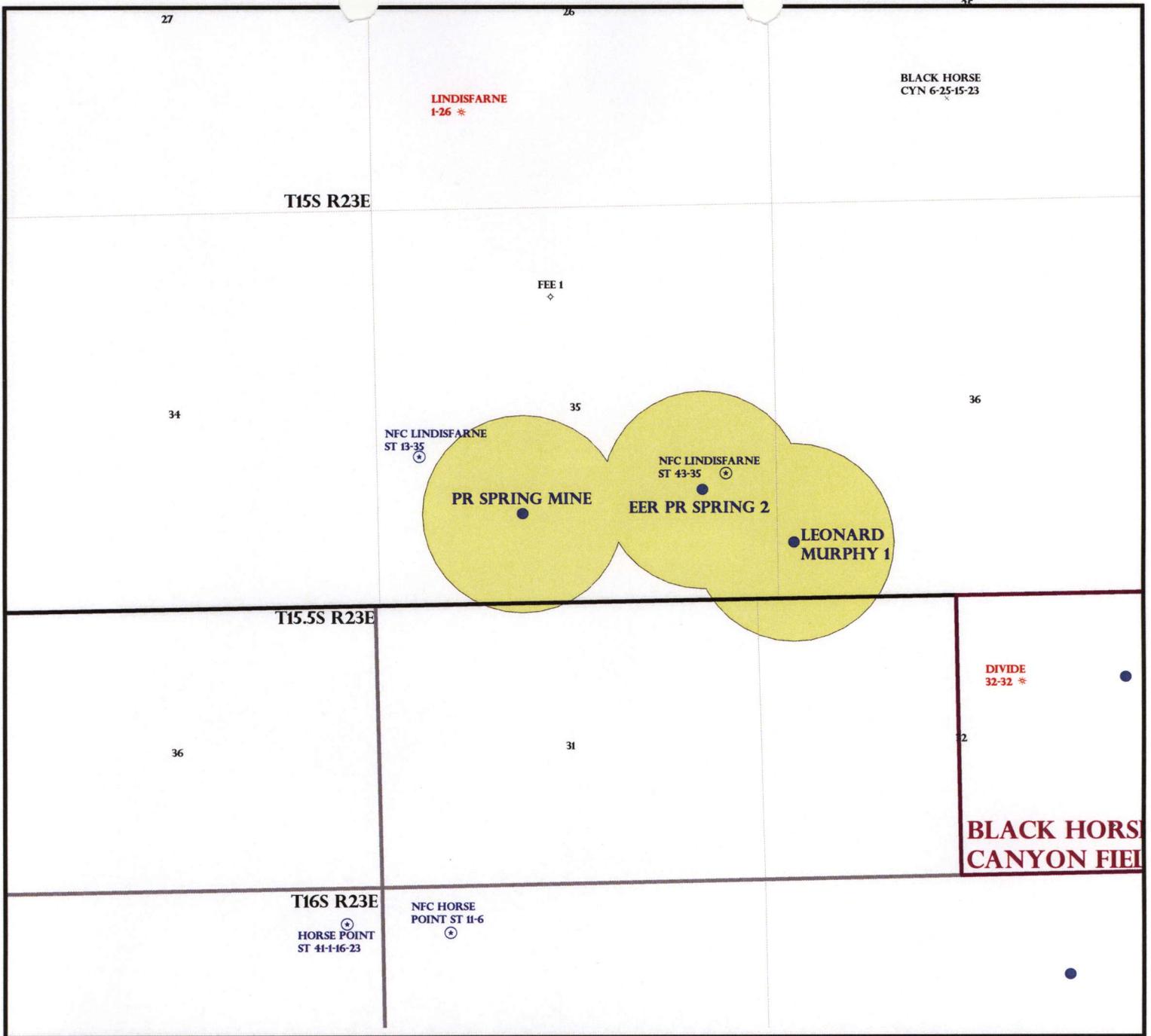
- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. LPM8756586 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-123 )
- RDCC Review  (Y/N)  
(Date: 12/20/2007 )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

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 (05-15-08)

STIPULATIONS: 1- Spacing Strip  
2- Surface Csg Cont strip  
3- STATEMENT OF BASIS



OPERATOR: NATIONAL FULE CORP (N8060)

SEC: 35 T.15S R. 23E

FIELD: WILDCAT (001)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

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

- Wells Status**
- ✂ GAS INJECTION
  - ✳ GAS STORAGE
  - ✕ LOCATION ABANDONED
  - ⊙ NEW LOCATION
  - ⊕ PLUGGED & ABANDONED
  - ⊗ PRODUCING GAS
  - PRODUCING OIL
  - ⊗ SHUT-IN GAS
  - ⊗ SHUT-IN OIL
  - ⊗ TEMP. ABANDONED
  - TEST WELL
  - △ WATER INJECTION
  - ⊕ WATER SUPPLY
  - ⊕ WATER DISPOSAL
  - ⊕ DRILLING



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 25-December 6-2007

# Application for Permit to Drill

## Statement of Basis

5/19/2008

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
625	43-047-39853-00-00		GW	S	No
<b>Operator</b>	NATIONAL FUEL CORPORATION	<b>Surface Owner-APD</b>			
<b>Well Name</b>	NFC LINDISFARNE ST 13-35	<b>Unit</b>			
<b>Field</b>	WILDCAT	<b>Type of Work</b>			
<b>Location</b>	NWSW 35 15S 23E S 2001 FSL 580 FWL GPS Coord (UTM) 644773E 4369826N				

### Geologic Statement of Basis

NFC proposes to set 150' of conductor pipe and 1,100' of surface casing at this location. The base of the moderately saline water is at approximately 3,300 feet in this area. This location lies on the Green River Formation. The proposed location is in a recharge area for the aquifers of the upper Green River formation and fresh water can be expected to be found in the upper Green River. A search of Division of Water Rights records indicates one water well within a 10,000 foot radius of the proposed location. This well is owned by Earth Energy Resources and the producing depth is listed as 1,900'. Irrigation is listed as the water use. The well is over a mile to the east of the proposed location. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill  
APD Evaluator

5/19/2008  
Date / Time

### Surface Statement of Basis

General location is in the Book Cliff Mountains or Roan Plateau of southern Uintah County, Utah. Vernal Utah is approximately 75 air miles to the north and Ouray, Utah 52 road miles to the north. Access to the area from Ouray, Utah is following the Seep Ridge Uintah County road to where a 2-track road runs to the west on Pope Ridge. Approximately 0.8 miles existing road will be up-graded and 0.1 miles of new road constructed.

Topography in the general area is rounded ridges generally running in a north or westerly direction. Ridges are often intersected with draws or deep canyons. Canyon walls may become excessively steep and rimmed with exposed sandstone bedrock out crops or ledges. Main Canyon is the major drainage in the area and runs in a westerly direction into Willow Creek. The Green River formation is the surface formation. Occasional seeps or springs occur in the numerous side drainages with the only flowing stream occurring in lower Main Canyon. An occasional constructed pond to collect surface runoff for livestock and game watering exists.

The Lindisfarne State #13-35 well is proposed on the north slope of a gentle west running ridge. The pad will begin near the top of the ridge and extend with fill to the north down a moderately gentle slope. To the north the slope steepens and breaks off steeply into a tributary of Main Canyon. No drainages intersect the location and no diversions will be required. No stability problems are expected with the location as proposed. The selected location appears to be a suitable site for constructing a pad and operating a well.

Both the minerals and surface are owned by SITLA.

Ed Bonner of SITLA and Ben Williams representing the UDWR attended the pre-site.

Mr. Williams of the UDWR stated the area is classified as crucial value spring fawning habitat for deer and calving habitat for elk. However because of the close proximity of the location to the Seep Ridge Road, he did not recommend any stipulations for these species. Mr. Williams also gave Mr. Busch and Mr. Bonner a copy of this evaluation and also a seed mix recommendation to be used when the reserve pit and location are reclaimed. No other wildlife species are expected to be affected.

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# Application for Permit to Drill

## Statement of Basis

5/19/2008

Utah Division of Oil, Gas and Mining

Page 2

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Mr. Bonner of SITLA had no concerns regarding the location but requested the brush on the site be piled in a separate location, not being mixed with the top-soil.

Floyd Bartlett  
Onsite Evaluator

5/15/2008  
Date / Time

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

Operator NATIONAL FUEL CORPORATION  
Well Name NFC LINDISFARNE ST 13-35  
API Number 43-047-39853-0 APD No 625 Field/Unit WILDCAT  
Location: 1/4,1/4 NWSW Sec 35 Tw 15S Rng 23E 2001 FSL 580 FWL  
GPS Coord (UTM) 644779 4369839 Surface Owner

### Participants

Floyd Bartlett (DOGM), Ed Bonner (SITLA), Ben Williams UDWR) and Andrew Busch (National Fuels Corporation).

### Regional/Local Setting & Topography

General location is in the Book Cliff Mountains or Roan Plateau of southern Uintah County, Utah. Vernal Utah is approximately 75 air miles to the north and Ouray, Utah 52 road miles to the north. Access to the area from Ouray, Utah is following the Seep Ridge Uintah County road to where a 2-track road runs to the west on Pope Ridge. Approximately 0.8 miles existing road will be up-graded and 0.1 miles of new road constructed.

Topography in the general area is rounded ridges generally running in a north or westerly direction. Ridges are often intersected with draws or deep canyons. Canyon walls may become excessively steep and rimmed with exposed sandstone bedrock out crops or ledges. Main Canyon is the major drainage in the area and runs in a westerly direction into Willow Creek. The Green River formation is the surface formation. Occasional seeps or springs occur in the numerous side drainages with the only flowing stream occurring in lower Main Canyon. An occasional constructed pond to collect surface runoff for livestock and game watering exists.

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Both the minerals and surface are owned by SITLA.

### Surface Use Plan

#### Current Surface Use

Grazing  
Recreational  
Wildlife Habitat

#### New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.1	Width 264 Length 325	Onsite	GRRV

Ancillary Facilities N

### Waste Management Plan Adequate?

### Environmental Parameters

Affected Floodplains and/or Wetland N

#### Flora / Fauna

Vegetation is a dense mountain brush type. Overall cover is good. Principal species include curl-leaf Mt. Mahogany, sagebrush, snowberry, pinion, juniper, poa sp., slender wheatgrass, festuca sp., bitter brush, rabbit brush

and oak brush.

Deer , elk , coyotes, rabbits, bear, lion, small mammals and birds. Cattle graze the area during the summer.

**Soil Type and Characteristics**

Moderately deep sandy loam with large flat surface rock.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?**    **Cultural Resources?**

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	20
		1 Sensitivity Level

**Characteristics / Requirements**

A reserve pit 75' by 147' and 12' deep is planned in an area of cut on the southeast corner of the location. No stabilization problems are expected. A 16 mil liner with a felt sub-liner as needed is required.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?**

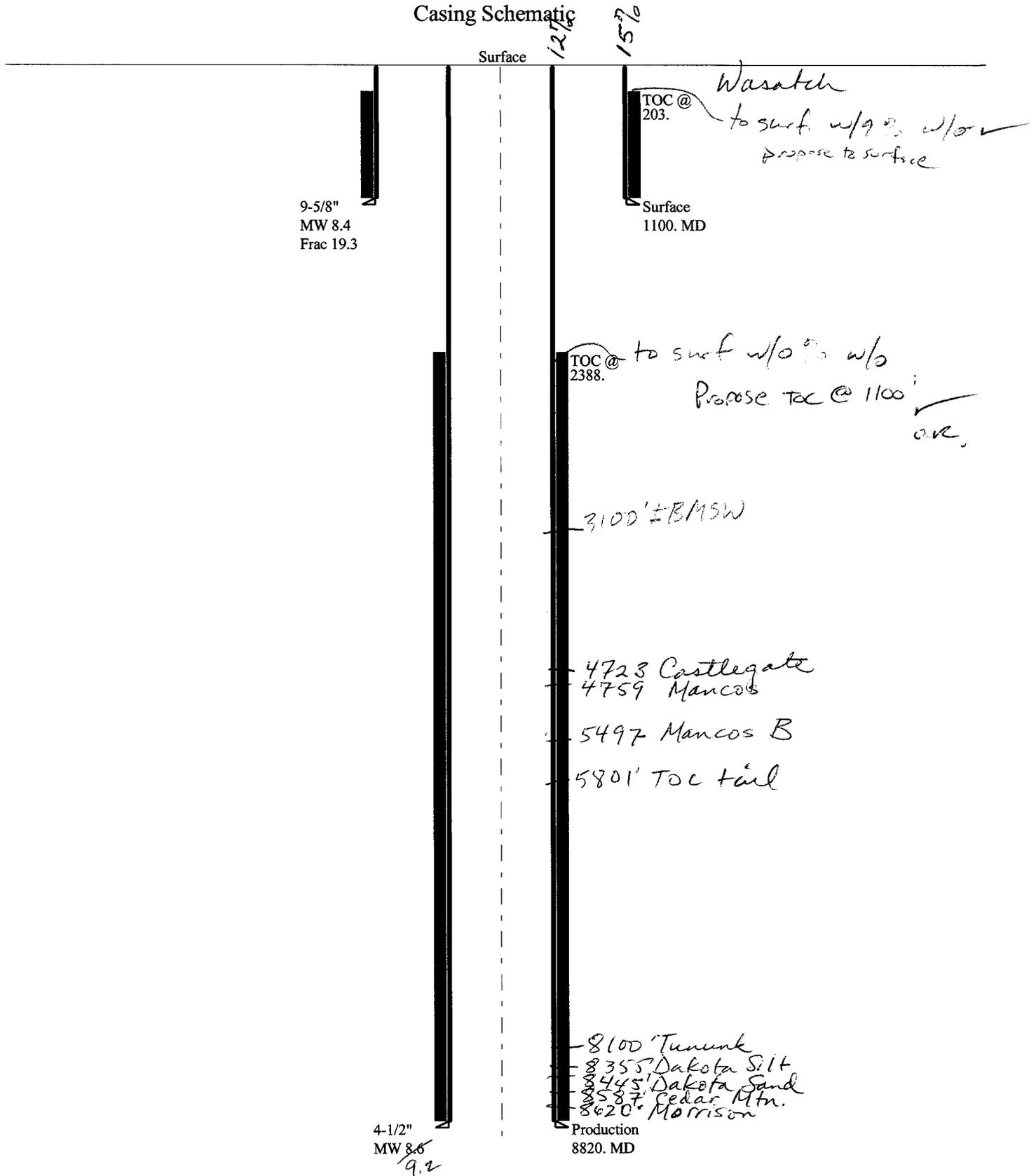
**Other Observations / Comments**

Floyd Bartlett  
Evaluator

5/15/2008  
Date / Time

# 2008-04 Nat Fuel Lindisfarne ST 13-35

## Casing Schematic



Well name:

**2008-04 Nat Fuel Lindisfarne ST 13-35**

Operator: **National Fuel Corporation**

String type: **Surface**

Project ID:

43-047-39853

Location: **Uintah Co.**

**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: 65 °F  
Bottom hole temperature: 80 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 185 ft  
Cement top: 203 ft

**Burst**

Max anticipated surface pressure: 968 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,100 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 air weight.  
Neutral point: 963 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 8,820 ft  
Next mud weight: 8.600 ppg  
Next setting BHP: 3,940 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,100 ft  
Injection pressure: 1,100 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	1100	9.625	36.00	J-55	ST&C	1100	1100	8.796	477.5
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	480	2020	4.208	1100	3520	3.20	40	394	9.95 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 810-538-5357

Date: April 22, 2008  
Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
Collapse is based on a vertical depth of 1100 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.  
Burst strength is not adjusted for tension.

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

Well name:	<b>2008-04 Nat Fuel Lindisfarne ST 13-35</b>		
Operator:	<b>National Fuel Corporation</b>		
String type:	Production	Project ID:	43-047-39853
Location:	Uintah Co.		

**Design parameters:**

**Collapse**  
 Mud weight: 8.600 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: 65 °F  
 Bottom hole temperature: 188 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 368 ft  
 Cement top: 2,388 ft

**Burst**

Max anticipated surface pressure: 2,000 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 3,940 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)

**Non-directional string.**

Tension is based on air weight.  
 Neutral point: 7,686 ft

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	8820	4.5	11.60	N-80	LT&C	8820	8820	3.875	769.7
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	3940	6350	1.612	3940	7780	1.97	102	223	2.18 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals

Phone: 810-538-5357

Date: April 22, 2008  
 Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 8820 ft, a mud weight of 8.6 ppg The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

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

**BOPE REVIEW**

**National Fuel Lindisfarne ST 13-55 API 43-047-39853**

**INPUT**

Well Name

National Fuel Lindisfarne ST 13-55 API 43-047-39853			
String 1	String 2		
Casing Size (")	9 5/8	4 1/2	
Setting Depth (TVD)	1100	8820	
Previous Shoe Setting Depth (TVD)	0	2000	
Max Mud Weight (ppg)	8.4	9.2	
BOPE Proposed (psi)	500	3000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	1500	3.3 ppg	

**Calculations**

**String 1 9 5/8 "**

Max BHP [psi]	.052*Setting Depth*MW =	480	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	348	YES Air Drill to surface shoe
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	238	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	238	NO → reasonable depth - no expected pressure
<b>Required Casing/BOPE Test Pressure</b>		1100	psi
<b>*Max Pressure Allowed @ Previous Casing Shoe =</b>		0	psi

**Calculations**

**String 2 4 1/2 "**

Max BHP [psi]	.052*Setting Depth*MW =	4219	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3161	NO
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	2279	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	2719	NO ← reasonable - expect max OHP of 1500 psi per Andy Bush?
<b>Required Casing/BOPE Test Pressure</b>		3000	psi
<b>*Max Pressure Allowed @ Previous Casing Shoe =</b>		2000	psi ← *Assumes 1psi/ft frac gradient

**STATE ACTIONS**  
**Resource Development Coordinating Committee**  
**Public Lands Policy Coordination Office**  
**5110 State Office Building**  
**SLC, UT 84114**  
**Phone No. 537-9230**

<b>1. State Agency</b> Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	<b>2. Approximate date project will start:</b>  Upon Approval or June 1, 2008
<b>3. Title of proposed action:</b> Application for Permit to Drill	
<b>4. Description of Project:</b>  National Fuel Corporation proposes to drill the NFC Lindisfarne State #13-35 well (wildcat) on State lease ML-49944, Uintah County, Utah. This action is being presented to the RDCC for consideration of resource issues affecting state interests. The Division of Oil, Gas and Mining is the primary administrative agency in this action and must issue approval before operations commence.	
<b>5. Location and detailed map of land affected (site location map required, electronic GIS map preferred)</b> (include UTM coordinates where possible) (indicate county) 2001' FSL 580' FWL, NW/4 SW/4, Section 35, Township 15 South, Range 23 East, Uintah County, Utah	
<b>6. Possible significant impacts likely to occur:</b> Surface impacts include up to five acres of surface disturbance during the drilling and completion phase (estimated for five weeks duration). If oil and gas in commercial quantities is discovered, the location will be reclaimed back to a net disturbance of between one and two acres – not including road, pipeline, or utility infrastructure. If no oil or gas is discovered, the location will be completely reclaimed.	
<b>7. Identify local government affected</b> a. Has the government been contacted? No. b. When? c. What was the response? d. If no response, how is the local government(s) likely to be impacted?	
<b>8. For acquisitions of land or interests in land by DWR or State Parks please identify state representative and state senator for the project area. Name and phone number of state representative, state senator near project site, if applicable:</b> a. Has the representative and senator been contacted? N/A	
<b>9. Areawide clearinghouse(s) receiving state action:</b> (to be sent out by agency in block 1) Uintah Basin Association of Governments	
<b>10. For further information, contact:</b>   <b>Diana Mason</b> <b>Phone:</b> (801) 538-5312	<b>11. Signature and title of authorized officer</b>   Gil Hunt, Associate Director <b>Date:</b> December 5, 2007

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: <b>#ML-49944</b>	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: NA	
2. NAME OF OPERATOR: <b>National Fuel Corporation</b>			9. WELL NAME and NUMBER: <b>NFC Lindisfarne State #13-35</b>	
3. ADDRESS OF OPERATOR: <b>8400 E Prentice #1100</b> CITY <b>Greenwood Vill</b> STATE <b>Co</b> ZIP <b>80111</b>			PHONE NUMBER: <b>(303) 220-7772</b>	10. FIELD AND POOL, OR WILDCAT: <b>Wildcat</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>200' FSL 580' FWL</b> <i>644773X 39.467730</i> AT PROPOSED PRODUCING ZONE: <b>SAME</b> <i>436 18264 -109.317049</i>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWSW 35 15S 23E</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>52.3 mi from Ouray, UT</b>			12. COUNTY: <b>UINTAH</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>580'</b>	16. NUMBER OF ACRES IN LEASE: <b>1880</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>Not Spaced</b>		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>NA</b>	19. PROPOSED DEPTH: <b>8,820</b>	20. BOND DESCRIPTION: <b>Statewide - 04127314</b>		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>8081.3' Ungraded, 8078.8' Graded</b>	22. APPROXIMATE DATE WORK WILL START: <b>6/1/2008</b>	23. ESTIMATED DURATION: <b>30 days</b>		

**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	140sx 1.15 cu ft/sk	15.8
12 1/4"	9 5/8"	J-55	36#	1,100	Class G	450sx 1.15 cu ft/sk	15.8
7 7/8"	4 1/2"	N-80	11.6#	8,820	Stage 1 - 50/50 poz	710sx 1.26 cu ft/sk	14.2
					Stage 2 - 50/50 poz	850sx 1.26 cu ft/sk	14.2

*RDOAC*

**ATTACHMENTS**

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

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER     | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER | <input type="checkbox"/> 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 11/21/2007

(This space for State use only)

API NUMBER ASSIGNED: 4304739853

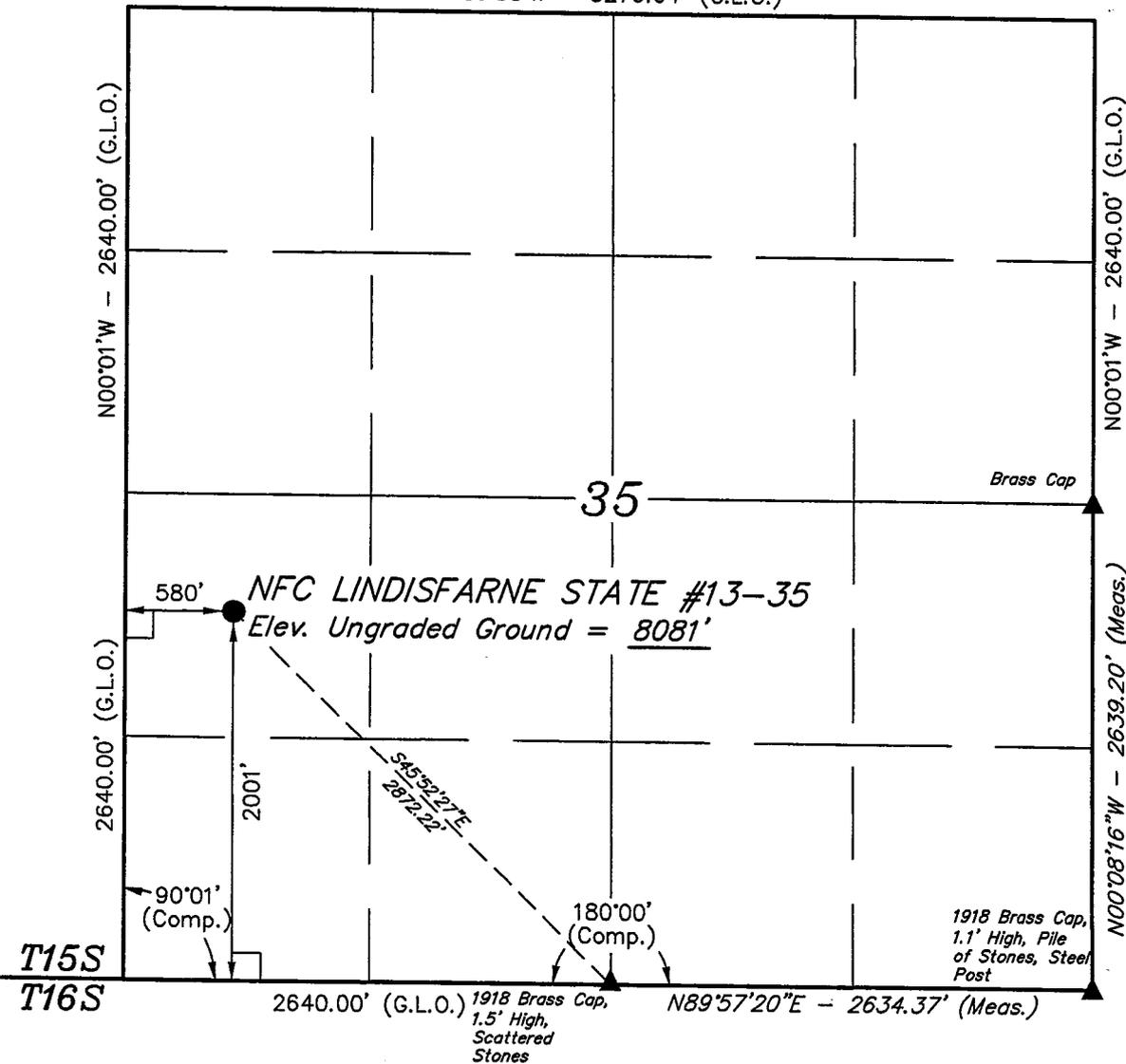
APPROVAL:

**RECEIVED**  
**NOV 29 2007**

DIV. OF OIL, GAS & MINING

# T15S, R23E, S.L.B.&M.

N89°58'W - 5276.04' (G.L.O.)



## NATIONAL FUEL CORPORATION

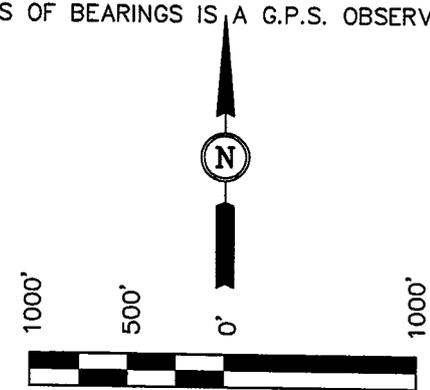
Well location, NFC LINDISFARNE STATE #13-35, located as shown in the NW 1/4 SW 1/4 of Section 35, T15S, R23E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION ALONG A JEEP TRAIL LOCATED IN THE NE 1/4 OF SECTION 25, T14S, R22E, S.L.B.&M. TAKEN FROM THE PINE SPRINGS CANYON QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7172 FEET.

### BASIS OF BEARINGS

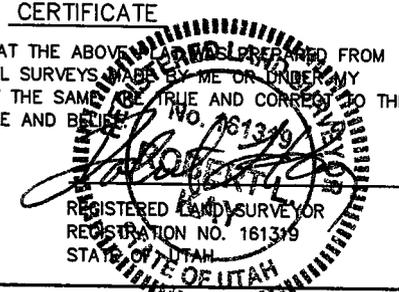
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLANS WERE 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.



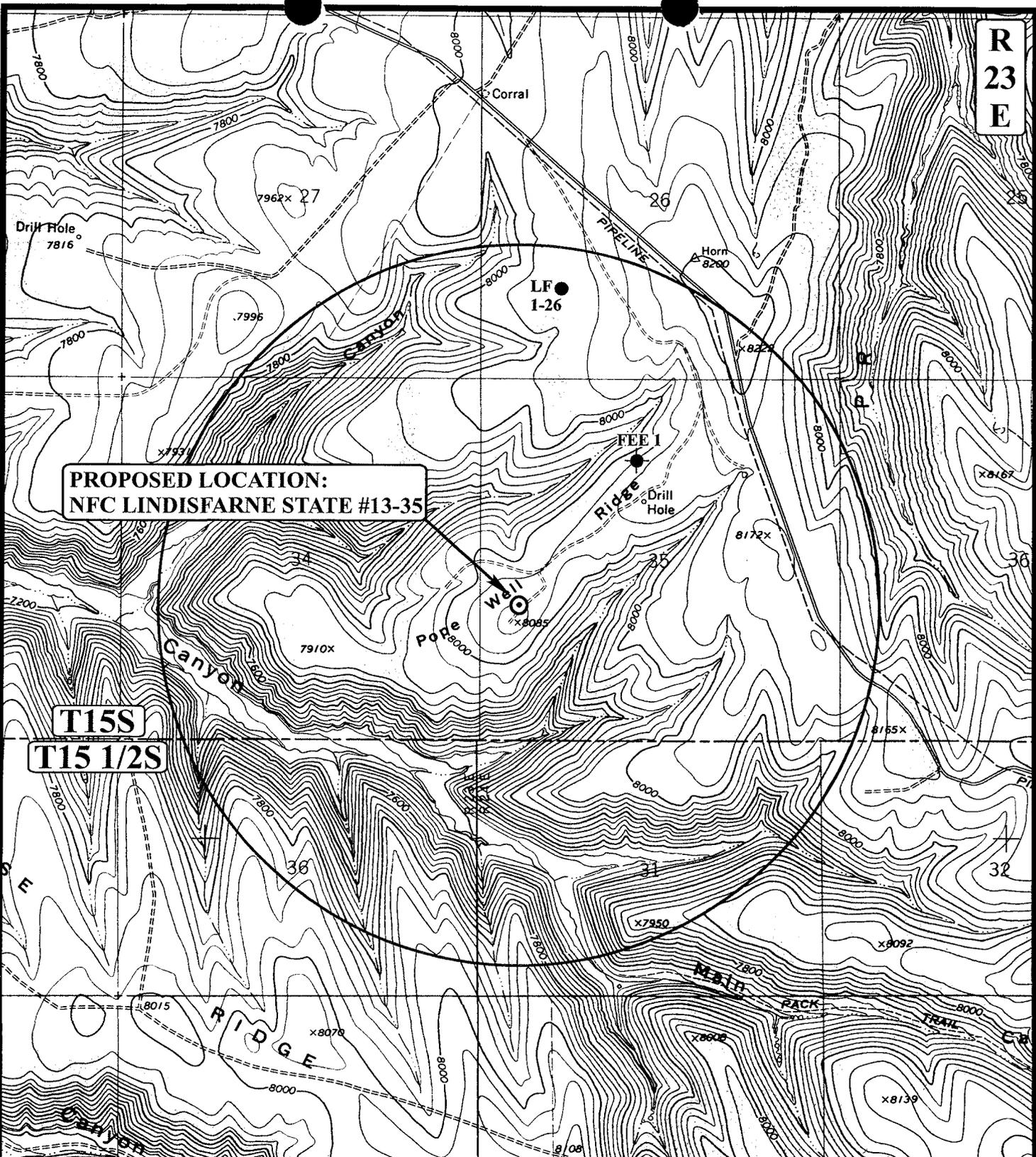
**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

### LEGEND:

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

(NAD 83)  
 LATITUDE = 39°28'04.07" (39.467797)  
 LONGITUDE = 109°19'03.61" (109.317669)  
 (NAD 27)  
 LATITUDE = 39°28'04.18" (39.467828)  
 LONGITUDE = 109°19'01.18" (109.312994)

SCALE 1" = 1000'	DATE SURVEYED: 10-19-07	DATE DRAWN: 11-05-07
PARTY L.D.K. A.W. L.A.K.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE NATIONAL FUEL CORPORATION	



**PROPOSED LOCATION:  
NFC LINDISFARNE STATE #13-35**

**T15S**

**T15 1/2S**

**R  
23  
E**

**LEGEND:**

⊗ DISPOSAL WELLS	⊙ WATER WELLS
● PRODUCING WELLS	⊖ ABANDONED WELLS
⬮ SHUT IN WELLS	⦿ TEMPORARILY ABANDONED

**NATIONAL FUEL CORPORATION**  
**NFC LINDISFARNE STATE #13-35**  
**SECTION 35, T15S, R23E, S.L.B.&M.**  
**2001' FSL 580' FWL**

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



**TOPOGRAPHIC** 10 23 07  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00 **C**  
**TOPO**

**From:** Robert Clark  
**To:** Mason, Diana  
**Date:** 12/10/2007 8:11 AM  
**Subject:** RDCC short turn-around comments

**CC:** Anderson, Tad; Mcneill, Dave; Wright, Carolyn  
Diana,

The following comments are submitted in response to short turn-around items **RDCC #8719** and **RDCC #8734**.

**RDCC #8719, Comments begin:** The Dobson Exploration LLC proposal to drill the Hunsacker #27-1 wildcat well, in Box Elder County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

**Comments end.**

**RDCC #8734, Comments begin:** The National Fuel Corporation proposal to drill the NFC Lindisfarne State #13-35 wildcat well, in Uintah County, may require a permit, known as an Approval Order, from the Executive Secretary of the Air Quality Board. If any compressor or pump stations are constructed at the site, a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to the Utah Air Quality Rule R307-401. Permit: Notice of Intent and Approval Order. A copy of the rules is found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

The proposed project is also subject to Utah Air Quality Rule R307-205-5, Fugitive Dust, due to the fugitive dust that is generated during the excavating phases of the project. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules may be found at [www.rules.utah.gov/publicat/code/r307/r307.htm](http://www.rules.utah.gov/publicat/code/r307/r307.htm).

**Comments end.**

Robert Clark

Division of Air Quality  
801-536-4435

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 4/17/2008 2:55 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan; Sweet, Jean  
The following wells have been given cultural resources clearance by the Trust Lands Administration:

Elk Resources, Inc  
Ouray Valley State 36-11-5-19 (API 43 047 39641)

Gasco Production Company  
State 42-32-9-19 (API 43 047 39795)  
Wilkin Ridge State 43-36-10-17 (API 43 047 39796)

National Fuel Corporation  
NFC Lindsfarne State 13-35 (API 43 047 39853)

Newfield Production Company  
Monument Butte State F-36-8-16 (API 43 013 33862)  
Gilsonite State L-32-8-17 (API 43 013 33864)  
Beluga State 5-16T-9-17 (API 43 043 33865)

Parallel Petroleum Corporation  
Tully State 15-13-5-22 (API 43 047 39310)

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



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 20, 2008

National Fuel Corporation  
8400 E Prentice #1100  
Greenwood Village, CO 80111

Re: NFC Lindisfarne State 13-35 Well, 2001' FSL, 580' FWL, NW SW, Sec. 35, T. 15 South, R. 23 East, Uintah 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 43-047-39853.

Sincerely,

  
Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA

Operator: \_\_\_\_\_ National Fuel Corporation  
Well Name & Number \_\_\_\_\_ NFC Lindisfarne State 13-35  
API Number: \_\_\_\_\_ 43-047-39853  
Lease: \_\_\_\_\_ ML-49944

Location: NW SW                      Sec. 35                      T. 15 South                      R. 23 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 action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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

- Dan Jarvis at:                      (801) 538-5338 office                      (801) 942-0871 home
- Carol Daniels at:                      (801) 538-5284 office
- Dustin Doucet at:                      (801) 538-5281 office                      (801) 733-0983 home

#### 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. 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.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review.
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. Surface casing shall be cemented to the surface.



JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

June 25, 2009

National Fuel Corporation  
8400 E Prentice #1100  
Greenwood Village, CO 80111

Re: APD Rescinded – NFC Lindisfarne St 13-35, Sec. 35, T. 15S, R. 23E,  
Uintah County, Utah, API No. 43-047-39853

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on May 20, 2008. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective June 25, 2009.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
SITLA, Ed Bonner