

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

5000 SOUTH QUEBEC, SUITE 640
DENVER, COLORADO 80237



8/8/2000

State of Utah
Division of Oil, Gas, and Mining
1594 West north Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114 – 5801

RE: National Fuel Corporation, State of Utah Applications For Permits To Drill
Moon Ridge Federal #13-11, NW SW Sec. 11 – T16S – R21E
Moon Ridge Federal #31-21, NW NE Sec. 21 – T16S - R21E
Grand Co., UT.

Dear Sirs,

Enclosed are State of Utah applications for permits to drill (APD) for the Moon Ridge Federal #13-11, and the Moon Ridge Federal #31-21, National Fuel Corporation operator. Each APD package contains State of Utah APD Form 3, surveyor's plats and maps of the location, Division of Water Rights approval for the use of water, plus the full Federal APD package as filed with the Bureau of Land Management, Vernal Field Office. The Federal APD packages include a complete drilling plan, a surface use plan, and a cultural and archaeological resources survey. The Federal #13-11 package includes a request for exception to general state spacing due to topographic considerations.

The Federal APD's are in the final stages of approval, and the BLM expects final approve by the end of this week. A copy of the approved Federal APD will be forwarded to the State of Utah when available. Please contact me if there are any questions pertaining to these APD's or supporting materials.

Sincerely,

J. C. Brothers
Senior Geologist

RECEIVED

AUG 09 2000

DIVISION OF
OIL, GAS AND MINING

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 REENTER DEEPEN
 B. Type Of Well OIL GAS OTHER: SINGLE ZONE MULTIPLE ZONE

5. Lease Designation and Serial Number:

Fed. UTU 72365

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name

2. Name of Operator
 National Fuel Corporation

8. Well Name and Number:
 Federal #31-21

3. Address of Operator
 5000 S. Quebec, Suite 640, Denver, CO 80237

9. Field and Pool, or Wildcat:
 Moon Ridge, Cdr. Mtn.

4. Location of Well (Footages)
 At Surface: 1,052' FNL, 1,753' FEL (NW NE) Sec. 21-T16S-R21E
 At Proposed Producing Zone: Same

10. Qtr/Qtr, Section, Township, Range, Meridian:
 NW1/4 NE 1/4 Sec. 21, T16S, R21E

13. Distance in miles and direction from nearest town or post office:
 Approximately 68 miles NW of Fruita, CO

11. County: Grand
 12. State: Utah

14. Distance to nearest property or lease line (feet): 1,052' fnl
 15. Number of acres in lease: 2080 ac.
 16. Number of acres assigned to this well: 320 ac.

17. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): None
 18. Proposed Depth: 10,100'
 19. Bond Description: BLM Statewide Drilling Bond #04021517

20. ELEVATIONS (Show whether DF, RT, GR, etc.): 7,768' GR
 21. Approximate Date Work Will Start: 9/1/00
 22. Estimated Duration: 30 days

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, WEIGHT PER FOOT	SETTING DEPTH	CEMENT, QUANTITY, YIELD, and SLURRY WT.
12 1/4 "	9 5/8", K55, 36#	300'	100 sx regular, 1.06 cu ft/sk, 123 lb/cu ft, to surface
8 3/4 "	7", N80, 26#	5,900'	850sx 50-50 pozmix, 1.16 cu ft/sk, 113 lb/cu ft to surf.
6 1/4 "	4 1/2", N80, 13.5#	10,100'	150sx, thixotropic, 1.06 cu ft/sk, 117 lb/cu ft - cmt top approx. 8,500' depth or 1,000' above Dakota Silt top

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

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

NOTE: Attached is the full Application for Permit to Drill as submitted to the Bureau of Land Management, Vernal, UT Field Office. BLM APD is in processing. Note revised casing/cementing program this State APD.

Name (Please Print): J.C. BROTHERS Title: SENIOR GEOLOGIST
 Signature: J.C. Brothers Date: 8/7/2000

(This space for State use only)

API Number Assigned: 43-019-31381 Approval:

Federal Approval of this Action is Necessary

Approved by the Utah Division of Oil, Gas and Mining

RECEIVED

Date: 8/21/00 **AUG 29 2000**
 By: [Signature]
 DIVISION OF OIL, GAS AND MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
National Fuel Corporation

3. ADDRESS OF OPERATOR
5000 S. Quebec, Suite 640, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements.)
 At Surface **1,052' fnl & 1,753' fel (NW NE) Sec. 21, T16S, R21E**
 At proposed prod. zone **Same as surface**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approximately 68 miles +/- NW of Fruita, CO

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **1,052' fnl**

16. NO. OF ACRES IN LEASE
2,080

17. NO. OF ACRES ASSIGNED TO THIS WELL
320

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
10,100

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7,768' GR

5. LEASE DESIGNATION AND SERIAL NO.
UTU 72365 (Federal)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moon Ridge

9. WELL NO.
Federal #31-21

10. FIELD AND POOL, OR WILDCAT
Stepout Moon Ridge, Cdr Mtn/Dakota

11. SEC., T., RL. M., OR BLK. AND SURVEY ON AREA
NW NE Sec. 21, T16S, R21E

12. COUNTY OR PARISH
Grand

13. STATE
UT

22. APPROX. DATE WORK WILL START*
July/August 2000

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48# H40	300'	350 sx regular cement
12 1/4"	8 5/8"	32# J 55	5,900'	1,935 sx 50/50 pozmix cement
6 1/4"	4 1/2"	11.6# N80	10,100	150 sx thixotropic cement

Move in rotary rig and drill 17 1/2" hole to 300' and run 300' of 13 3/8" surface casing set with 350 sx regular cement. Drill 12 1/4" hole to 5,900' or through Castlegate using mud. Run 5,900' of 8 5/8" intermediate casing set with 1,935 sx of 50/50 pozmix cement circulated to surface. Drill 6 1/4" hole to 10,100' TD using air. Run 10,200' of 4 1/2" production csg set with 150 sx thixotropic cement (cement top approx. 1,000' above top of Dakota Silt). Perforate and test Cedar Mountain/Dakota for production. May frac if necessary. Connect new gathering line to existing system in Moon Ridge Field.

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

SIGNED J. C. Botter TITLE Sr. Geologist DATE 6/7/00

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
 CONDITION OF APPROVAL, IF ANY: _____

*See Instructions On Reverse Side

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

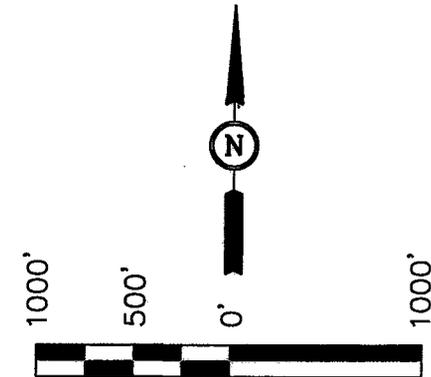
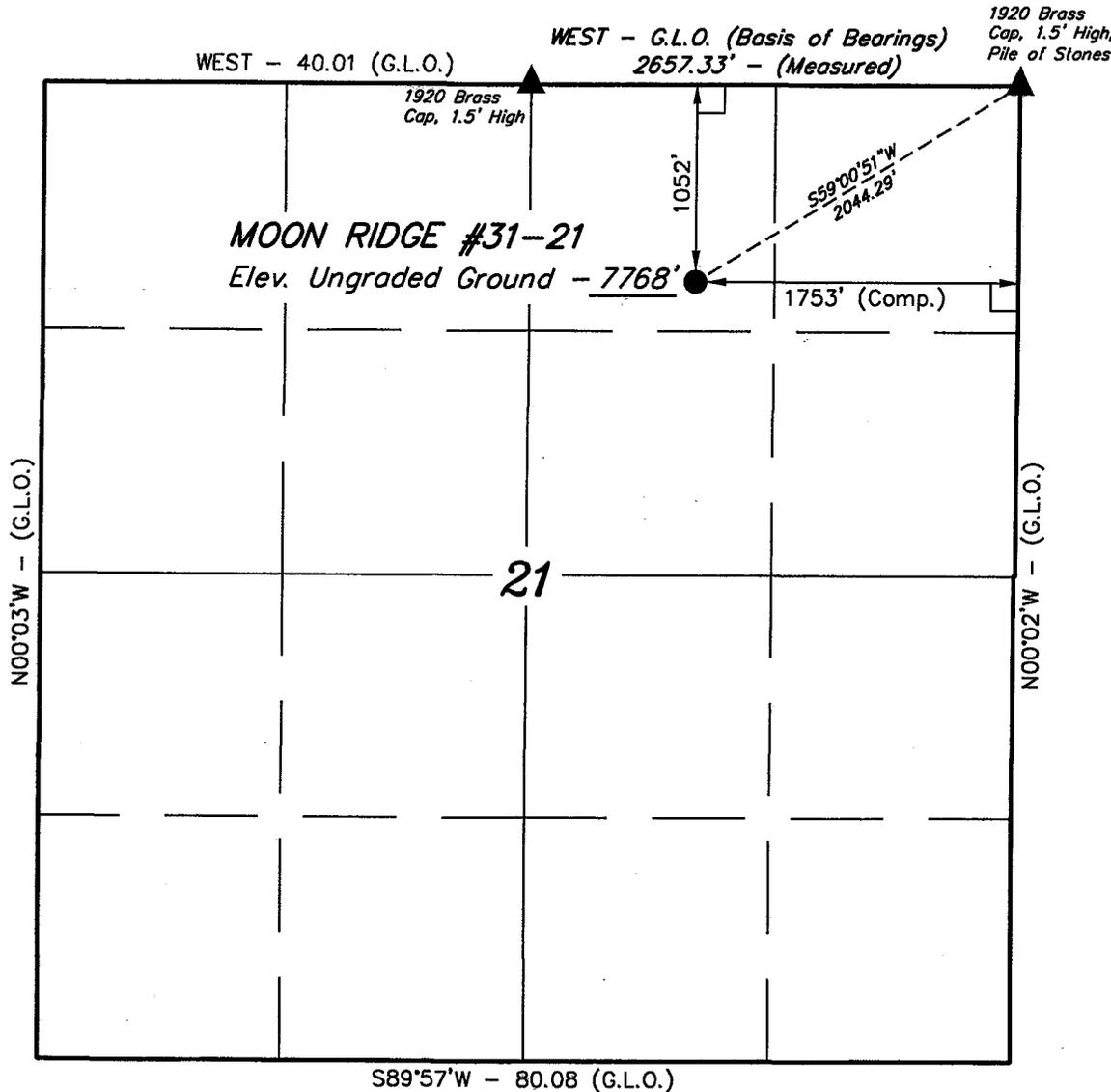
T16S, R21E, S.L.B.&M.

NATIONAL FUEL CORPORATION

Well Location, MOON RIDGE #31-21, located as shown in the NW 1/4 NE 1/4 of Section 21, T16S, R21E, S.L.B.&M. Grand County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT AN OIL WELL LOCATED IN THE NE 1/4 OF SECTION 15, T16S, R21E, S.L.B.&M. TAKEN FROM THE TENMILE CANYON NORTH QUADRANGLE, UTAH, GRAND COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 7620 FEET.



SCALE

CERTIFICATE

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

No. 161319
Robert L. Cox
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

LEGEND:

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

LATITUDE = 39°24'21"

LONGITUDE = 109°36'14"

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

SCALE 1" = 1000'	DATE SURVEYED: 4-28-00	DATE DRAWN: 5-15-00
PARTY K.K. B.H. G.S. D.COX	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE NATIONAL FUEL CORPORATION	

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 08/09/2000

API NO. ASSIGNED: 43-019-31381

WELL NAME: FEDERAL 31-21
 OPERATOR: NATIONAL FUEL (N8060)
 CONTACT: J C BROTHERS

PHONE NUMBER: 303-220-7772

PROPOSED LOCATION:
 NWNE 21 160S 210E
 SURFACE: 1052 FNL 1753 FEL
 BOTTOM: 1052 FNL 1753 FEL
 GRAND
 UNDESIGNATED (2)

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

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-72365
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: CDMTN

RECEIVED AND/OR REVIEWED:

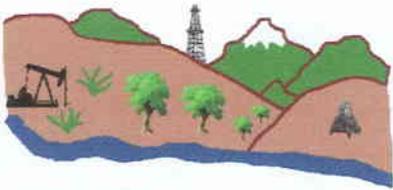
- Plat
- Bond: Fed Ind Sta Fee ()
(No. 04021517)
- Potash (Y/N)
- Oil Shale (Y/N) *190 - 5 (B)
- Water Permit
(No. 49-1223)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3. Unit _____
- R649-3-2. General
- Siting: _____
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: _____
- Eff Date: _____
- Siting: _____
- R649-3-11. Directional Drill

COMMENTS:

STIPULATIONS: ① FEDERAL APPROVAL



Utah Oil Gas and Mining

OPERATOR: NATIONAL FUEL CORP (N8060)

FIELD: UNDESIGNATED (002)

SEC. 21, T16S, R21E,

COUNTY: GRAND SPACING: R649-3-3/EX LOC

T16S R21E

9

10

11

MOON RIDGE FIELD
& UNIT

FEDERAL 13-11
⊙

ICE CANYON
FIELD & UNIT

* MR 31-15

*
STATE 16-9

16

15

14

⊙ FEDERAL 31-21

◇ MOON RIDGE UNIT 22-22

21

22

23

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

5000 SOUTH QUEBEC, SUITE 640
DENVER, COLORADO 80237



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AUG 14 2000

8/10/2000

Lisha Cordova
State of Utah
Division of Oil, Gas, and Mining
1594 West north Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114 - 5801

DIVISION OF
OIL, GAS AND MINING

RE: National Fuel Corporation, State of Utah Exception Location Requests:
Moon Ridge Federal #13-11, NW SW Sec. 11 - T16S - R21E
✓ Moon Ridge Federal #31-21, NW NE Sec. 21 - T16S - R21E
Grand Co., UT.

Dear Lisha,

Per our phone conversation of today, enclosed are new Requests for Exception to General State Spacing on the above referenced well applications. Each request includes wording as you suggested, and a new map that should be less confusing than the original. If these requests are as needed, please substitute these new sheets for the original exception request in the Federal #13-11 APD package and add this request to the Federal #31-21 APD package.

I should have water purchase agreements to you early next week. Previously, we have used verbal agreements with both water owners in question. Call me if you have any questions, and thank you for your help on these APD's.

Sincerely,

J. C. Brothers
Senior Geologist

Attached to:

MOON RIDGE FEDERAL #31-21
APPLICATION FOR PERMIT TO DRILL
State of Utah, Division of oil, Gas, and Mining Form 3

**Request for Exception to General State Spacing – MOON RIDGE FEDERAL #31-21,
NW NE Sec. 21 – T16S – R21E, Grand CO., Utah**

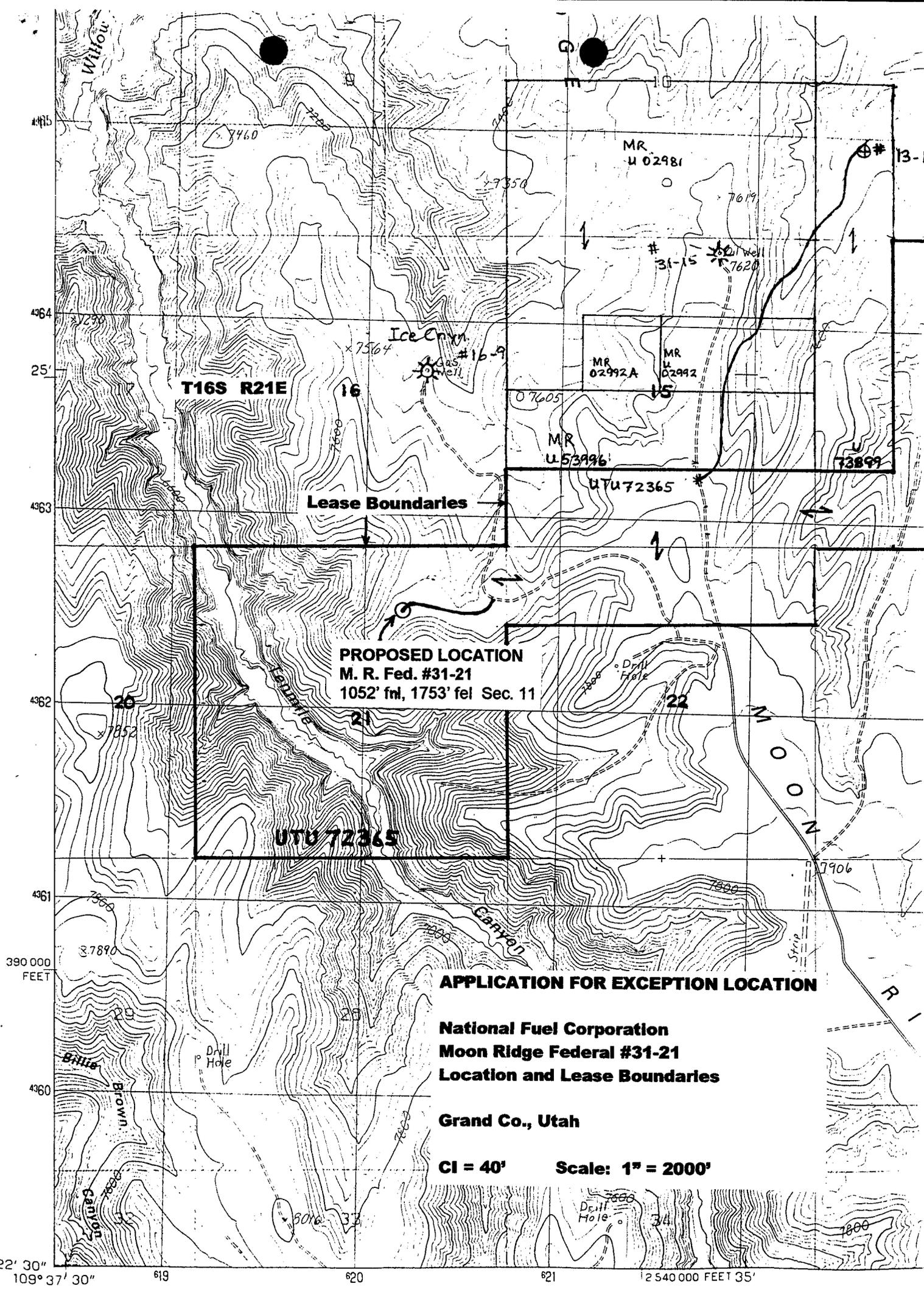
As part of the Application For Permit To Drill package for the Moon Ridge Federal #31-21, National Fuel Corporation requests an exception to general state spacing for the #31-21, NW NE Sec. 21 – T16S – R21E, Grand CO., Utah. The #31-21 is a proposed 10,100' gas well on Federal Lease # UTU 72365, in the Moon Ridge Field area. Topographic restraints on the physical well location force National Fuel Corporation to request this spacing exception. The 40-acre standard state spacing window locates the proposed well too close to the rim of Tenmile Canyon.

The proposed well location is 1,052' from the nearest lease line, and National Fuel Corporation Federal Lease #UTU 72365 100%. There are no other owners within 460' of the proposed well location.

Attached are reference maps including:

Survey Plats of the proposed location

Topographic map showing the location, lease boundaries and lease ownership



T16S R21E

Lease Boundaries

PROPOSED LOCATION
M. R. Fed. #31-21
1052' fml, 1753' fel Sec. 11

UTU 72365

APPLICATION FOR EXCEPTION LOCATION

National Fuel Corporation
Moon Ridge Federal #31-21
Location and Lease Boundaries

Grand Co., Utah

CI = 40' Scale: 1" = 2000'



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor

Kathleen Clarke
Executive Director

Lowell P. Braxton
Division Director

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

August 21, 2000

National Fuel Corporation
5000 S. Quebec, Suite 640
Denver, CO 80237

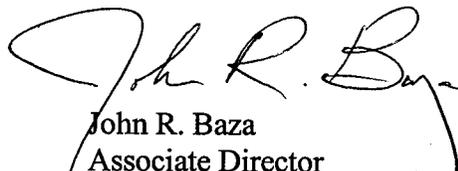
Re: Federal 31-21 Well, 1052' FNL, 1753' FEL, NW NE, Sec. 21, T. 16 South, R. 21 East,
Grand County, Utah

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. Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-019-31381.

Sincerely,



John R. Baza
Associate Director

er

Enclosures

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

Operator: _____ National Fuel Corporation

Well Name & Number _____ Federal 31-21

API Number: _____ 43-019-31381

Lease: _____ Fed UTU 72365

Location: NW NE **Sec.** 21 **T.** 16 South **R.** 21 East

Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

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

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

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

3. Reporting Requirements

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

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

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

5000 SOUTH QUEBEC, SUITE 640
DENVER, COLORADO 80237



8/14/2000

Lisha Cordova
State of Utah
Division of Oil, Gas, and Mining
1594 West north Temple, Suite 1210
P. O. Box 145801
Salt Lake City, UT 84114 – 5801

RE: National Fuel Corporation, Water purchase agreements:
Moon Ridge Federal #13-11, NW SW Sec. 11 – T16S – R21E
Moon Ridge Federal #31-21, NW NE Sec. 21 – T16S - R21E
Grand Co., UT.

Dear Lisha,

Per our phone conversation of Thursday 8/10/2000, enclosed are water purchase agreements with Bert DeLambert to buy water from his pond for the drilling of our two wells at Moon Ridge. Previously, we used verbal agreements with DeLambert, and had to get these signed. Call me if you have any questions, and thank you for your help on these APD's.

Sincerely,

J. C. Brothers
Senior Geologist

RECEIVED

AUG 21 2000

DIVISION OF
OIL, GAS AND MINING

AREA CODE 303
PHONE 220-7772

FAX
220-7773

National Fuel Corporation

5000 SOUTH QUEBEC, SUITE 640
DENVER, COLORADO 80237



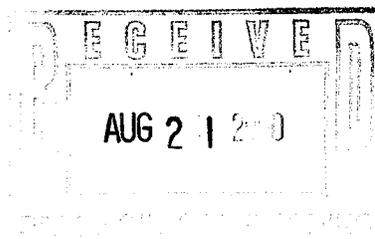
FACSIMILE TRANSMITTAL SHEET

DATE: 8/21/2000

TO: LISHA CORDOVA

FAX NO.: 801 - 359 - 3940

FROM: JIM BROTHERS
National Fuel Corporation
5000 South Quebec St., Suite. 640
Denver, CO 80237



FAX NO.: (303) 220-7773
VOICE: (303) 220-7772

SUBJECT: Water Purchase Agreements

NO. OF PAGES, INCLUDING THIS PAGE: 4

COMMENTS: Lisha,

Here are Water Purchase Agreements for APD's as follows:

National Fuel Corp. - MOON RIDGE FEDERAL #13-11 Sec. 11-T16S-R21E
(operator) MOON RIDGE FEDERAL #31-21 sec. 21-T16S-R21E

Both in Grand Co., UT - administered by Vernal BLM office

J.C. Thompson - Middle Canyon Federal #42-24 Sec. 24-T16S-R23E
(operator) Grand Co., UT - administered by Moab BLM office

This agreement will be applied to the Middle Canyon #13-19 when it is eventually drilled.

J.C. Thompson owns National Fuel Corp., & uses both J.C. Thompson & National Fuel as operating agents in Utah. I do geology & permitting, etc. for both.

Thanks for your help.

Jim Brothers

WATER PURCHASE AGREEMENT

NATIONAL FUEL CORPORATION, 5000 So. Quebec, #640, Denver, CO 80237 agrees to pay Bert DeLambert, the sum of 2000⁰⁰ for water to be used for the drilling and 500⁰⁰ for completion of National Fuel's Moon Ridge Federal #31-21 well, located in the NW NE of Section 21, Township 16 South, Range 21 East, Grand County, Utah. Water will be hauled from a pond/tank owned by Bert DeLambert at National Fuel's Expense.

EXECUTED this 16th day of August, 2000.

NATIONAL FUEL CORPORATION

By: Andy Bush
Andy Bush
Production Superintendent

By: Bert DeLambert
Bert DeLambert

Attached to:

APPLICATION FOR PERMIT TO DRILL, Form 3160-3

Company National Fuel Corporation Well No. Moon Ridge Federal #31-21

Location: Sec. 21, T. 16S, R. 21E, Lease No. UTU 72365

Notification Requirements:

Location Construction – forty-eight (48) hours prior to construction of location and access roads

Location Completion – prior to moving on the drilling rig.

Spud Notice – at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing – twenty four (24) hours prior to running casing and cementing all casing strings.

BOP and Related Equipment Tests – twenty four (24) hours prior to initiating pressure tests.

First Production Notice – within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR § 3100), Onshore Oil and Gas Orders, 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

1. Surface Formation and Estimated Formation Tops: Tertiary Green River Fm. @ surface
Wasatch 1,991'; Mesaverde 3,816';
Sego 5,351'; Buck Tongue 5,501';
Castlegate 5,686'; Mancos 5,836';
Emery / Mancos "B" 6,401
Dakota Silt 9,501'
Dakota "Sand" 9,611'
Cedar Mountain / Buckhorn 9,736'
Morrison 9,811' ; T.D. 10,100'

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

Depth/Formation
Expected Oil Zones: None

Expected Gas Zones: Cedar Mtn. / Buckhorn (9,736'-9,811'); Castlegate (5,686'-5,836')
cased & cemented behind production casing, and intermediate casing, respectively.

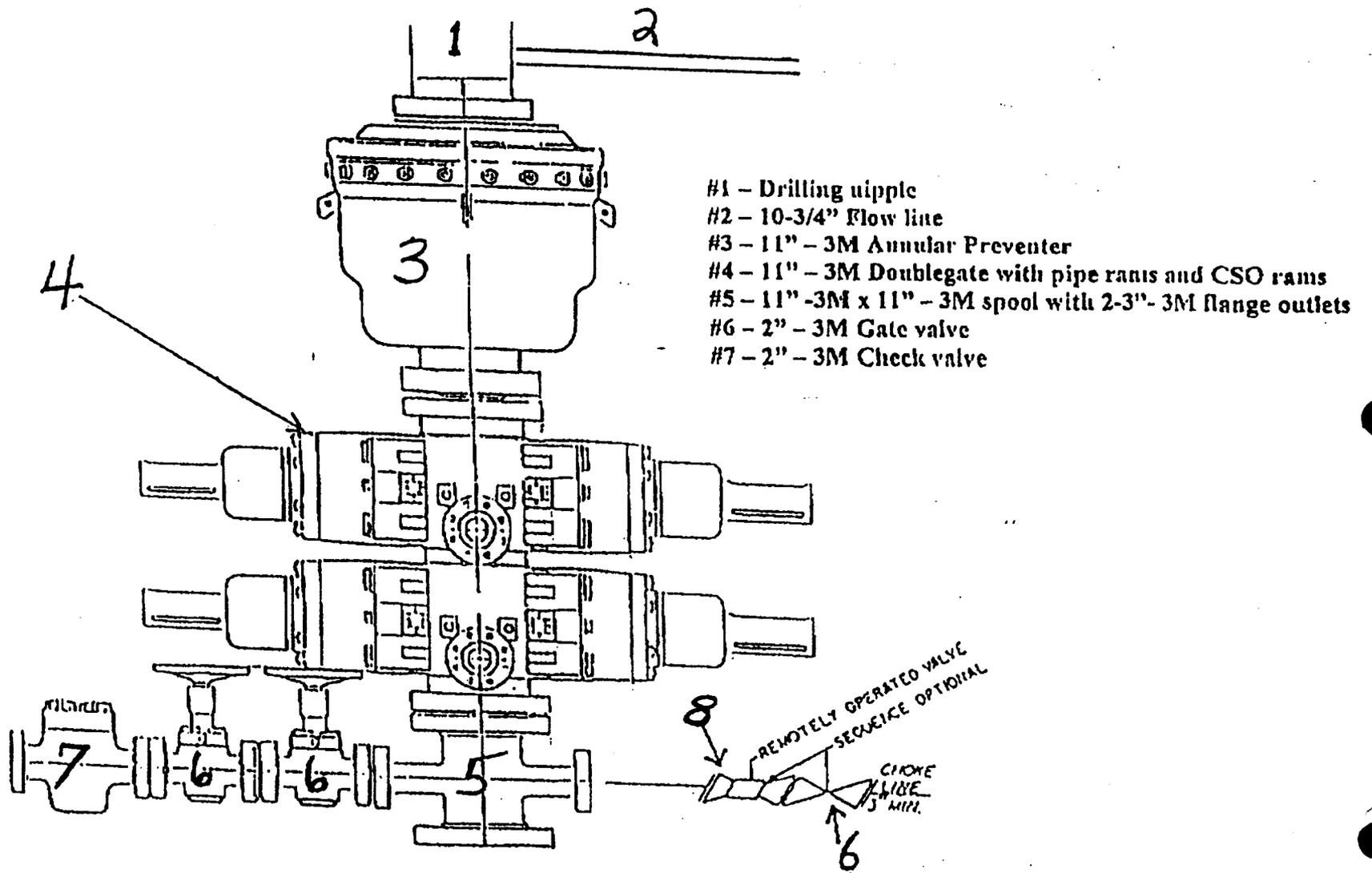
EXHIBIT TO A - 3

A - 3. The Operator's Minimum Specifications for Pressure Control

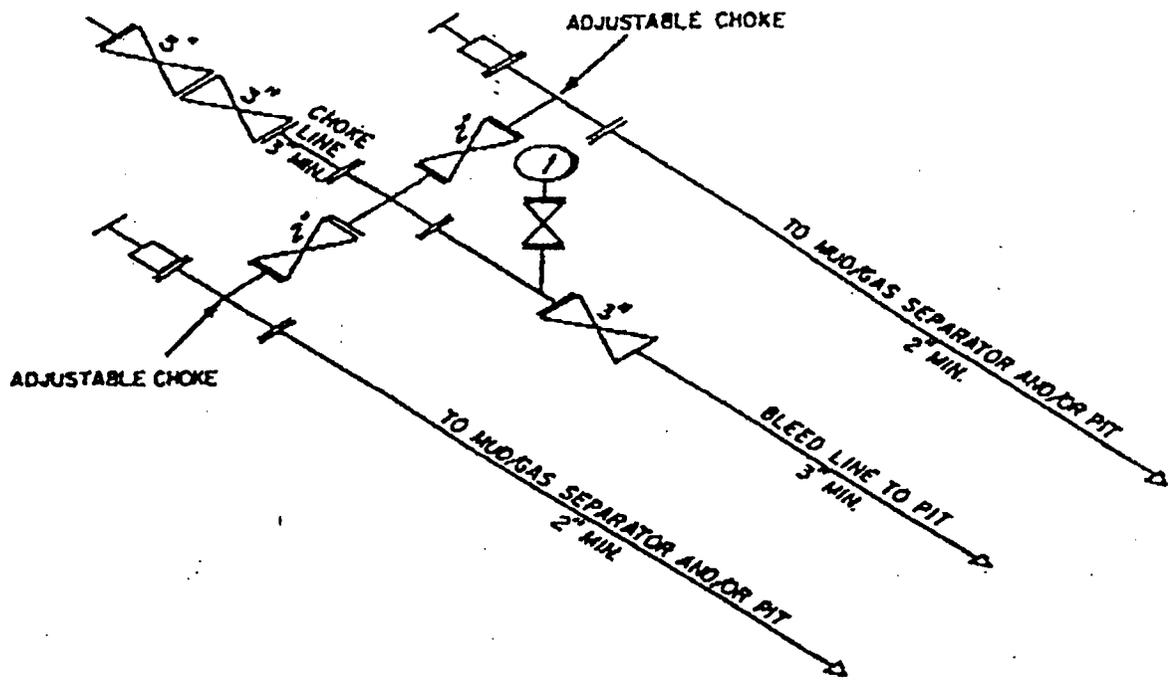
EXHIBIT are schematic diagrams of the blowout preventer equipment. A 2,000# blowout preventer will be installed, used, maintained and tested in accordance with all requirements specified in Section III.A-1 of Onshore Order 2, except where variations are presented in this application.

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" - 3M Doublegate with Annular Preventer



② 3M CHOKE MANIFOLD EQUIPMENT -- CONFIGURATION OF CHOKES MAY VARY

Expected Water Zones: Less than 300' (cased & cemented behind surf. csg.).
Wasatch & Upper Mesaverde (300'-5,686') and Castlegate (5,686'-5,836') cased and
cemented behind intermediate casing.

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

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

4. Casing Program and Auxiliary Equipment – include casing size, weight, grade, thread and coupling, setting depth and condition (new or acceptably reconditioned):
300' surface csg. 13 3/8" 48# H-40 ST&C 0'-300' New
5,900' intermediate csg. 8 5/8" 32# J-55 ST&C 0'-5,900' New
10,100' production csg. 4 1/2" 11.6# N-80 ST&C 0'-10,100' New

5. 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: Surface csg. – 350 sx regular cement – 25:75% poz/g;2% si Ca Cl2; .25 sk D-29 celloflake to surf.
Intermed. csg. – 1935 sx 50:50% pozmix – 2% Si Ca Cl2; .25 sx D-29 celloflake to surf.
Production – 150 sx thixotropic; ± 4,700' or 1,000' above Dakota Silt top.
Surface casing shall be cemented back to surface. Centralizers shall be run, at a minimum, on the bottom three joints of each casing string.

6. Mud Program and Circulating Medium – include mud components and weights. When air drilling, also include: length and location of blooie line; description of the auto ignitor, description of the deduster equipment; and amounts, types and characteristics of stand-by mud: Well will be mud drilled with conventional 8.4# to 9.5# / gal. mud system from surf to 5,900' where 7" intermed csg will be set. 5,900' to 10,100' TD will be drilled with air. Details on air drilling system will be provided for specific drilling rig when drilling rig and air package contract is signed.
Due to potential for contamination of usable quality water aquifers, chromates are banned from Federal leases.

No chemicals subject to reporting under SARA Title III in an amount equal to, or greater than, 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of this well. No extremely hazardous substances, as defined in 40 CFR 355, in the threshold planning quantities will be used,

produced, stored, transported, or disposed of in association with the drilling, testing, or completing of this well.

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

7. Coring, Logging and Testing Program: No DST or core anticipated. Air drilling gives good gas test while drilling. Logging program: DIL-focused w/GR & SP & Cal., & and CNL-FDC w/GR to be run from TD to base of surface csg. All good gas and/or oil shows will be tested by perfining production casing.
Initial opening of drill stem test tools will be restricted to daylight hours.
8. 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 anticipated or common in area. No H2S anticipated or known in area. BHP expected to be max. 2,500# based on nearby wells.
9. Any Other Aspects of this Proposal that should be Addressed: Time frames for:
Construction – 3 to 5 days
Drilling – 21 to 25 days
Completion – 7 to 14 days (depending on results, this may be extended)

B. THIRTEEN POINT SURFACE USE PLAN

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. Proposed route to location (submit a map depicting access and well location).
See attached maps and plats from UELS.
- b. Location of proposed well in relation to town or other reference point:
Approximately 70 miles WNW of Fruita, CO, 44 miles NW of Interstate 70, access from Harley Dome exit, exit 225; Grand Co. Road #193 (old hwy. 6 & 50), Grand Co. Rd. #194 to intersection of Hay Canyon and Middle Canyon Rds; West up Hay Canyon Rd. to Three Pines; west to Moon Ridge.
- c. Contact the County Road Department for use of county roads.
- d. Plans for improvement and/or maintenance of existing roads: Grand Co., National Fuel, and other companies currently maintain existing roads regularly.
- e. Other: Existing roads are adequate for transportation of drilling rig and associated activity.

2. Planned Access Roads:

- a. Location (centerline): Approximately .3 miles +/- in length, totally within NE Sec 21., T16S, R21E and within lease #UTU 72365.

- b. Length of new access to be constructed: .3 mile ±
- c. Length of existing roads to be upgraded: none needed
- d. Maximum total disturbed width: 30 feet
- e. Maximum travel surface width: 18 feet
- f. Maximum grades: 10% or less; proposed roadway is level.
- g. Turnouts: As needed.
- h. Surface materials: No off-site materials anticipated. Road to be constructed of on-site gravel, rock, and soil materials.
- i. Drainage (crowning, ditching, culverts, etc.): Anticipate flat-blading for drilling operations w/water bars as needed. If production established road will be upgraded as needed for erosion control and maintenance of drainage.
- j. Cattleguards: N/A
- k. Length of new and/or existing roads which lie outside the lease or unit boundary for which a BLM right-of-way is required: None
- l. Other: _____

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.

If a right-of-way is necessary, no surface disturbing activities shall take place on the subject right-of-way until the associated APD is approved. The holder will adhere to conditions of approval in the Surface Use Program of the approved APD, relevant to any right-of-way facilities.

If a right-of-way is secured, boundary adjustments in the lease or unit shall automatically amend this right-of-way to include that portion of the facility no longer contained within the lease or unit. In the event of an automatic amendment to this right-of-way grant, the prior on-lease/unit conditions of approval of this facility will not be affected even though they would now apply to facilities outside of the lease/unit as a result of a boundary adjustment. Rental fees, if appropriate, shall be recalculated based on the conditions of this grant and the regulations in effect at the time of an automatic amendment.

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligations determined by the authorized officer.

If the well is productive, the access road will be rehabilitated or brought to Resource (Class III) Road Standards within 60 days of dismantling the rig. If upgraded, the access road must be maintained at these standards until the well is properly abandoned. If this time frame

cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells – on a map, show the location of all water, injection, disposal, producing and drilling wells within a one mile radius of the proposed well, and describe the status of each: See attached map. Only applicable wells: Producing gas well in NE sec. 16, T16S, R21E. P & A well in SW sec. 22, T16S, R21E.
4. Location of Production Facilities:
 - a. On-site facilities: Well head, meter house, separator/heater treater and/or dehydrator, and fenced emergency water disposal pit. Pit to be lined if soil/bedrock conditions require. Details of 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 to the existing field pipeline system will be constructed parallel to the new access road. No right-of-way will be needed for the new line.

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. Facilities required by comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows: Per BLM specifications to match surrounding trees and rocks.

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 as specified in Onshore Order #7. If water is produced from the well, an Onshore Order #7 application must be submitted.

R
21
E

Producing Gas Well
Beartooth
Ice Canyon # 16-9
NE Sec. 16-T16S-R21E

PROPOSED LOCATION:
MOON RIDGE #31-21

1 mile radius

PROPOSED ACCESS 0.3 MI. +/-

Plugged & Abandoned Well
Pacific Natural Gas
Moon Ridge #22-22
SW Sec. 22-T16S-R21E
P&A 1963

INTERSTATE TO 43.5 MI. +/-
FRUITA, COLORADO 67.3 MI. +/-

T16S

LEGEND:

----- PROPOSED ACCESS ROAD
————— EXISTING ROAD

EXISTING WELLS
w/in 1 mi. radius of
Proposed Moon Ridge #31-21



NATIONAL FUEL CORPORATION

MOON RIDGE #31-21
SECTION 21, T16S, R21E, S.L.B.&M.
1052' FNL 1753' FEL

TOPOGRAPHIC **5 12 00**
MAP **MONTH DAY YEAR**
SCALE: 1"=2000' **DRAWN BY: C.G.** **REVISED: 00-00-00**

B
TOPO

5. 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 will be purchased from a private pond, water rights owned by the rancher, located in Main Canyon in the center of the E ½, E ½ Section 31 – T15S – R23E, Uintah Co., UT. (See attached map.)

A temporary water use permit for this operation will be obtained from the Utah State Engineer in Price, Utah, at (801) 637-1303.

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

6. 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 use of materials under BLM jurisdiction will conform to 43 CFR § 3610.2-3.

7. Methods of Handling Waste Disposal:

Describe the methods and locations proposed for safe containment and disposal of waste material, e.g. cuttings, produced water, garbage, sewage, chemicals, etc.

The reserve pit will be lined with (native material, bentonite, synthetic material):

Native material or a synthetic liner as soil/bedrock conditions require. All waste materials will be disposed of in an approved manner in an approved disposal site. Cuttings and produced water will be contained in the pit and disposed of per BLM stipulations.

The reserve pit will be located: See attached pad diagram.

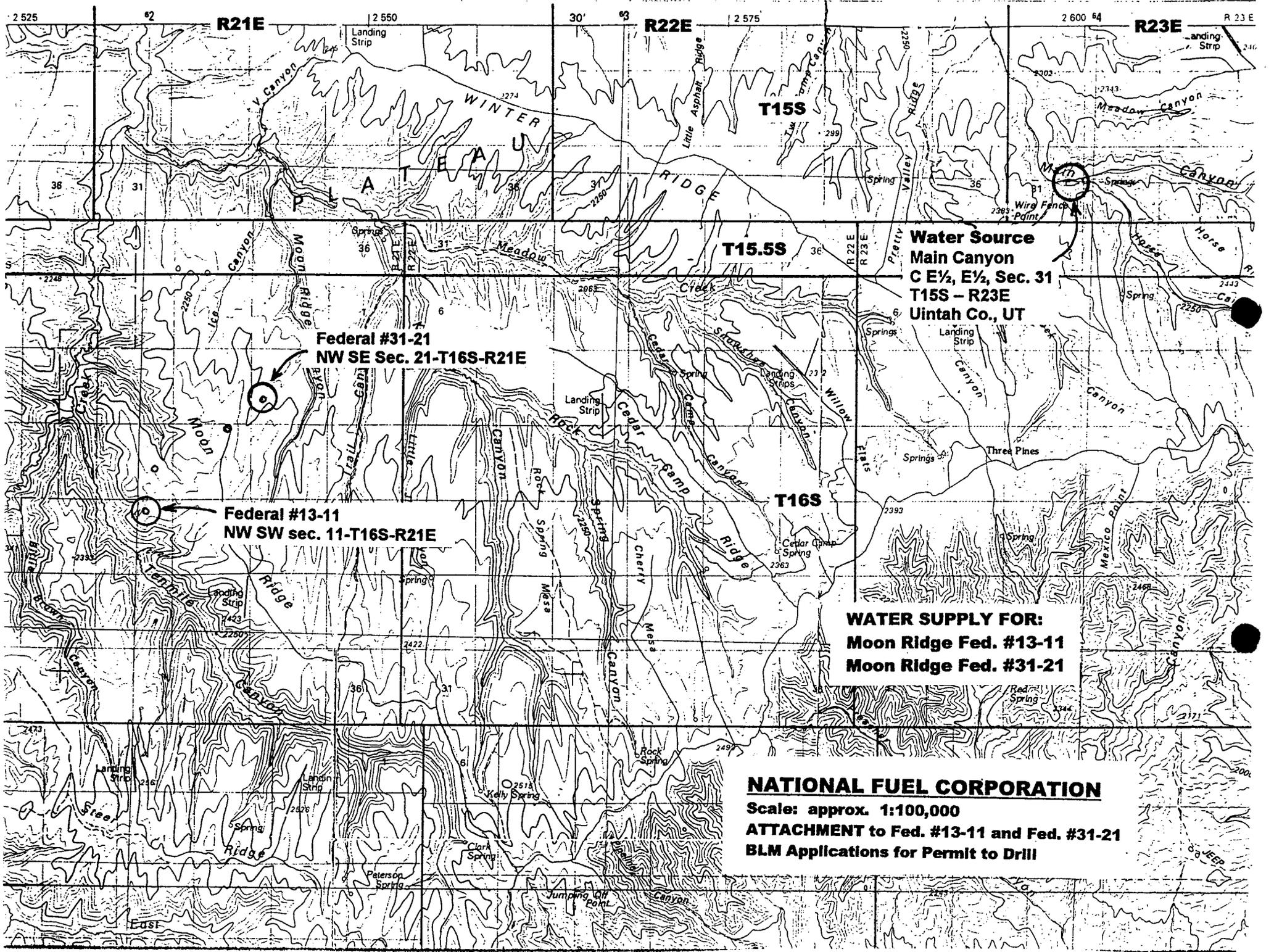
The reserve pit shall be located in cut material, with at least 50% of the pit volume being below original ground level. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. As soon 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.

8. Ancillary Facilities: None required. Anticipate 1 to 3 trailers for drilling, logging equipment, personnel, etc.

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

All wells, whether drilling, producing, suspended, or abandoned, will be identified in accordance with 43 CFR § 3162.6.



Federal #31-21
NW SE Sec. 21-T16S-R21E

Federal #13-11
NW SW sec. 11-T16S-R21E

Water Source
Main Canyon
C E 1/2, E 1/2, Sec. 31
T15S - R23E
Uintah Co., UT

WATER SUPPLY FOR:
Moon Ridge Fed. #13-11
Moon Ridge Fed. #31-21

NATIONAL FUEL CORPORATION
Scale: approx. 1:100,000
ATTACHMENT to Fed. #13-11 and Fed. #31-21
BLM Applications for Permit to Drill

Access to the well pad: See pad layout diagram.

The blooie line will be located: Along the NW or pit side of the location and directed into the flare pit, 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 flare pit.

10. Plans for Restoration of the Surface:

The top 3 inches of topsoil material will be removed from the location and stockpiled separately from vegetation at the end of the well site. Topsoil stockpile will be windrowed, broadcast seeded, and walked in with a cat.

Topsoil along the access road will be reserved in a place adjacent to the road.

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 Oct. 1 and Dec. 31, or at a time specified by the BLM. 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: 6 lbs./ac. Bitterbrush (Purshia tridentada); 6 lbs./ac. Needle and Thread (Stipa lettemanii); Both pure live seed. Noxious weeds will be controlled on wellsite and along road / pipeline as needed.

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

- 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).

Additional requirements: _____

11. Surface and Mineral Ownership: Federal surface and mineral ownership.

12. Other Information:

a. Archeological Concerns: Area currently closed, due to fire danger (6/1/2000). Cultural resources inventories will be completed by an archaeologist approved by BLM, Grand River Institute, Grand Junction, CO; Carl Conner, Administrator. CRI will be filed as an attachment to this APD when completed.

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.

COVER PAGE for the
Utah Division of State History
Preservation Office

Project Name: Class III cultural resources inventory of the proposed Moon Ridge #31-21 and #23-11 well locations and short accesses in Grand County, Utah for National Fuel Corporation [GRI Proj. No. 2039]

State Proj. No.: U00-GB-0249b

Report Date: 07/05/00

Principal Investigator: Carl E. Conner

Field Supervisor(s): Carl E. Conner

Acreage Surveyed

Intensive: 48.8 acres

Recon/Intuitive: _____ acres

7.5' Series USGS Map Reference(s): Tenmile Canyon North

Sites Reported

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

Paleontological Localities 0

Checklist of Required Items

1. X 1 Copy of the Final Reports
2. X Copy of 7.5' Series USGS Maps With Surveyed/Excavated Area Clearly Identified.
3. _____ Completed IMACS Site Inventory Forms, Including
_____ Parts A and B or C,
_____ the IMACS Encoding Form,
_____ Site Sketch Map,
_____ Photographs, and
_____ Copy of the Appropriate 7.5' Series USGS Map w/ the Site Location Clearly Marked and Labeled w/ the Smithsonian No.
4. _____ Paleontological locality form
5. X Completed "Cover Sheet" Accompanying Final Report and Survey Materials

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

Project U-G-B-0249b
Authorization No.

Report Acceptable Yes ___ No ___

Mitigation Acceptable Yes ___ No ___

Comments: _____

1. Report Title Proposed Moon Ridge Well 31-21 / Access

2. Development Company National Fuel Corporation

3. Report Date 05 July 2000 4. Antiquities Permit No. 00-UT-54939

5. Responsible Institution GRAND RIVER INS County Grand

6. Fieldwork Location: TWN 16S Range 21E Section(s) 21

TWN _____ Range _____ Section(s) _____

7. Resource Area BC

PO=Pony Express, BR=Bear River, WS=Warm Springs, BC=Book Cliffs, HR=House Range,
SE=Sevier River, HM=Henry Mountains, BE=Beaver River, DX=Dixie, KA=Kanab,
ES=Escalante, SJ=San Juan, GR=Grand, SR=San Raphael, DM=Diamond Mountain

8. Description of Examination Procedures: A 100 percent pedestrian cultural resources survey of the proposed well location was made by a two-person crew walking NE - SW transects spaced approximately 10-15 meters apart covering a total of 5 acres. The short access road was walked in zigzag transects centered on the flagged centerline to cover a swath 200 feet wide.

9. Linear Miles Surveyed 0.3
and/or
Definable Acres Surveyed 5
and/or
Legally Undefinable Acres Surveyed _____

10. Inventory Type I

I=Intensive
S=Statistical

11. Description of Findings (attach appendices, if appropriate)
See attached report.

12. Number Sites found 0
(No sites = 0)

13. Collection N
(Y=Yes N=No)

14. Actual/Potential National Register Properties Affected: None.

15. Literature Search, Location/Date: BLM Vernal Field Office / May 31, 2000

16. Conclusion/Recommendations: No significant historic properties were identified.
Archaeological clearance is recommended.

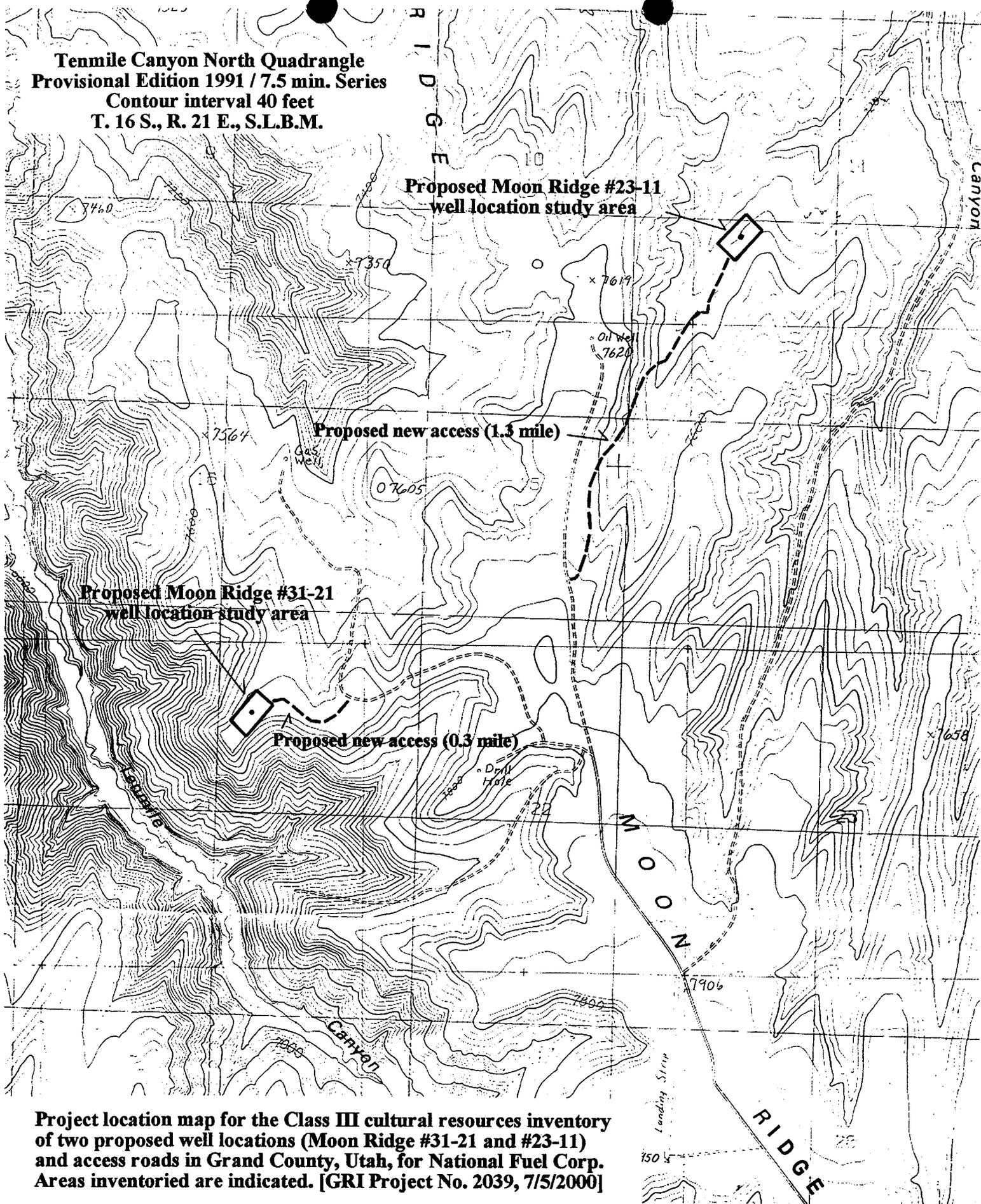
17. Signature of Administrator & Field Supervisor: Administrator Carl E. Conner
Carl E. Conner

Field Supervisor _____

*For extra locations use additional 8100-3 forms

UT 8100-3
(2/85)

Tenmile Canyon North Quadrangle
Provisional Edition 1991 / 7.5 min. Series
Contour interval 40 feet
T. 16 S., R. 21 E., S.L.B.M.



Proposed Moon Ridge #23-11
well location study area

Proposed new access (1.3 mile)

Proposed Moon Ridge #31-21
well location study area

Proposed new access (0.3 mile)

Project location map for the Class III cultural resources inventory of two proposed well locations (Moon Ridge #31-21 and #23-11) and access roads in Grand County, Utah, for National Fuel Corp. Areas inventoried are indicated. [GRI Project No. 2039, 7/5/2000]

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

Representative:

Name: J. C. Brothers

Title: Sr. Geologist, National Fuel Corporation

Address: 5000 S. Quebec, Suite 640
Denver, CO 80237

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 BLM bond no. 04021517. This statement is subject to the provisions of 18 U.S.C. § 1001 for the filing of a false statement.

J. C. Brothers
Signature

Sr. Geologist
Title

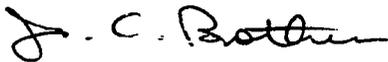
6/12/2000
Date

3 copies sent to
Margie Herrmann
Legal Instruments Examiner
BLM, Vernal
6/29/2000
JCB

Attachment to:

Application for Permit to Drill
Well: Moon Ridge Federal #31-21
NWNE, Sec. 21, T16S, R21E
Lease No. U-72365

Please be advised that NATIONAL FUEL CORPORATION is considered to be the operator of the above captioned well, and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by BLM Utah Statewide Blanket Bond #04021517 in the name of National Fuel Corporation.



J. C. Brothers
Senior Geologist
National Fuel Corporation
5000 S. Quebec St., #640
Denver, CO 80237
Ph 303-220-7772

C. REQUIRED APPROVALS, REPROTS AND NOTIFICATIONS

Building Location – Contact the Resource Area, Natural Resource Protection Specialist at least 48 hours prior to commencing construction of location.

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

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

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

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

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

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

Cultural Resources – If cultural resources are discovered during construction, work that might disturb the resources is to stop, and the area Manager is to be notified.

First Production – Should the well be successfully completed for production, the District Office will be notified when the well is placed in producing status. Such notification may be made by phone, but must be followed by a sundry notice or letter not later than five (5) business days following the date on which the well is placed into production.

A first production conference will be scheduled as soon as the productivity of the well is apparent. This conference should be coordinated through the Resource Area Office. The Resource Area Office shall be notified prior to the first sale.

Well Completion Report – Whether the well is completed as a dry hole or as a producer, “Well Completion and Recompletion Report and Log” (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR § 3162.4-1. Two copies of all logs, core

descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. When requested, samples (cuttings and/or samples) will be submitted to the District Office.

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

Produced Water – Produced waste water may be confined to an unlined pit for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, along a water analysis, if required, will be submitted to the District Office for approval pursuant Onshore Oil and Gas Order No. 7.

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

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

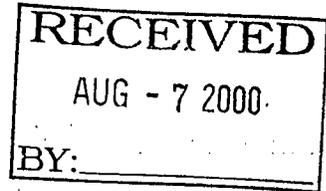
A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Office, within thirty (30) days following plugging and abandonment of the well. This report will indicate where plugs were placed and the current status of surface restoration. Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR § 3162.6. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER RIGHTS

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Robert L. Morgan
State Engineer

Eastern Area
State/County Building
152 East 100 North
Vernal, Utah 84078-2110
435-781-5327



October 8, 1999

Burt & Christine DeLambert
P.O. Box 607
Vernal, UT 84078

RE: Temporary Change: t23779
Water Right No.: 49-1223

Dear Mr. & Mrs. DeLambert:

The above numbered Temporary Change Application has been approved, subject to prior rights. The application is being made to change 8.4 acre feet (or 0.015cfs) of water for oil well drilling and service work from September 30, 1999 to September 29, 2000.

This temporary change application will permanently lapse one year from the date of this letter.

Sincerely,

Robert W. Leake, P.E.-
Regional Engineer
for
Robert L. Morgan, P.E.
State Engineer

RWL:ac

APPLICATION FOR TEMPORARY CHANGE OF WATER

STATE OF UTAH

Rec. by _____
Fee Paid \$ _____
Receipt # _____
Microfilmed _____
Roll # _____

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

CHANGE APPLICATION NUMBER: t23779 WATER RIGHT NUMBER: 49 - 1223

This Change Application proposes to change the POINT(S) OF DIVERSION, PLACE OF USE, and NATURE OF USE.

1. OWNERSHIP INFORMATION.

- A. NAME: Burt & Christine DeLambert INTEREST: 100%
ADDRESS: Box 607, Vernal, UT 84078
- B. PRIORITY OF CHANGE: September 27, 1999 FILING DATE: September 27, 1999
- C. EVIDENCED BY:

* DESCRIPTION OF CURRENT WATER RIGHT: *

2. SOURCE INFORMATION.

- A. QUANTITY OF WATER: 0.015 cfs OR 8.4 acre-feet
- B. SOURCE: Unnamed Spring Stream COUNTY: Grand
- C. POINT OF DIVERSION -- SURFACE:
(1) S 550 feet E 2290 feet from W $\frac{1}{4}$ corner, Section 6, T 16S, R 23E, SLBM
DIVERT WORKS: pump & pipe

3. WATER USE INFORMATION.

STOCKWATERING: from Jan 1 to Dec 31. EQUIVALENT LIVESTOCK UNITS: 300.

*National
Soil Corp
A.C. Thompson
5000 So. Quebec St
Denver
80237
#640*

4. PLACE OF USE. (Which includes all or part of the following legal subdivisions:)

BASE TOWN RANG SEC	NORTH-WEST¼				NORTH-EAST¼				SOUTH-WEST¼				SOUTH-EAST¼			
	NW	NE	SW	SE												
SL 16S 23E 6		X			***				***				***			

 *
 * THE FOLLOWING CHANGES ARE PROPOSED: *
 *-----

5. SOURCE INFORMATION.

- A. QUANTITY OF WATER: 0.015 cfs REMAINING WATER: Same as HERETOFORE
- B. SOURCE: Unnamed spring COUNTY: Grand
- C. POINT OF DIVERSION -- SURFACE: Changed as Follows:
 (1) S 550 feet E 2290 feet from W¼ corner, Section 6, T 16S, R 23E, SL6M
 DIVERT WORKS: Small Pond W/ Pump & Pipe
 SOURCE: Unnamed spring
- D. COMMON DESCRIPTION: 65 miles south of Jensen

6. WATER USE INFORMATION. Changed as Follows:

OIL EXPLORATION from 09/30/1999 to 09/29/2000 Oil well drilling and service work

7. PLACE OF USE. Changed as Follows:

(Which includes all or part of the following legal subdivisions:)

BASE TOWN RANG SEC	NORTH-WEST¼				NORTH-EAST¼				SOUTH-WEST¼				SOUTH-EAST¼			
	NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE	NW	NE	SW	SE
SL 16S 23E	Entire TOWNSHIP															

8. SIGNATURE OF APPLICANT(S).

The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application, through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

Christina DeLambert

 Signature of Applicant(s)

NATIONAL FUEL CORPORATION

MOON RIDGE #31-21
LOCATED IN GRAND COUNTY, UTAH
SECTION 21, T16S, R21E, S.L.B.&M.

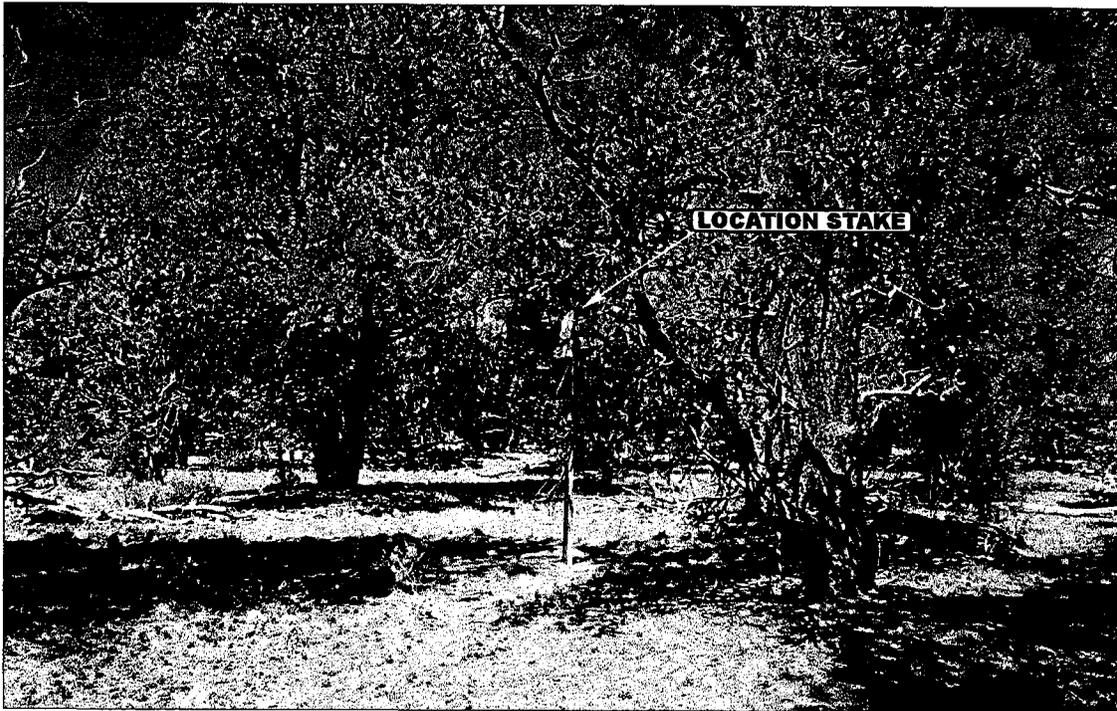


PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: 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

LOCATION PHOTOS

5 12 00
MONTH DAY YEAR

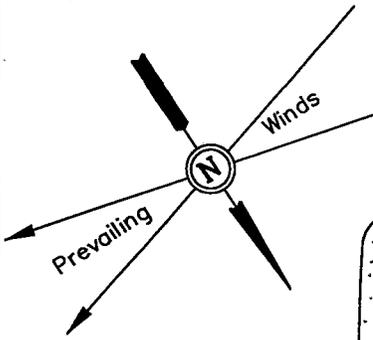
PHOTO

TAKEN BY: K.K. DRAWN BY: C.G. REVISED: 00-00-00

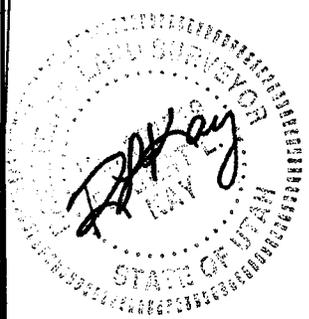
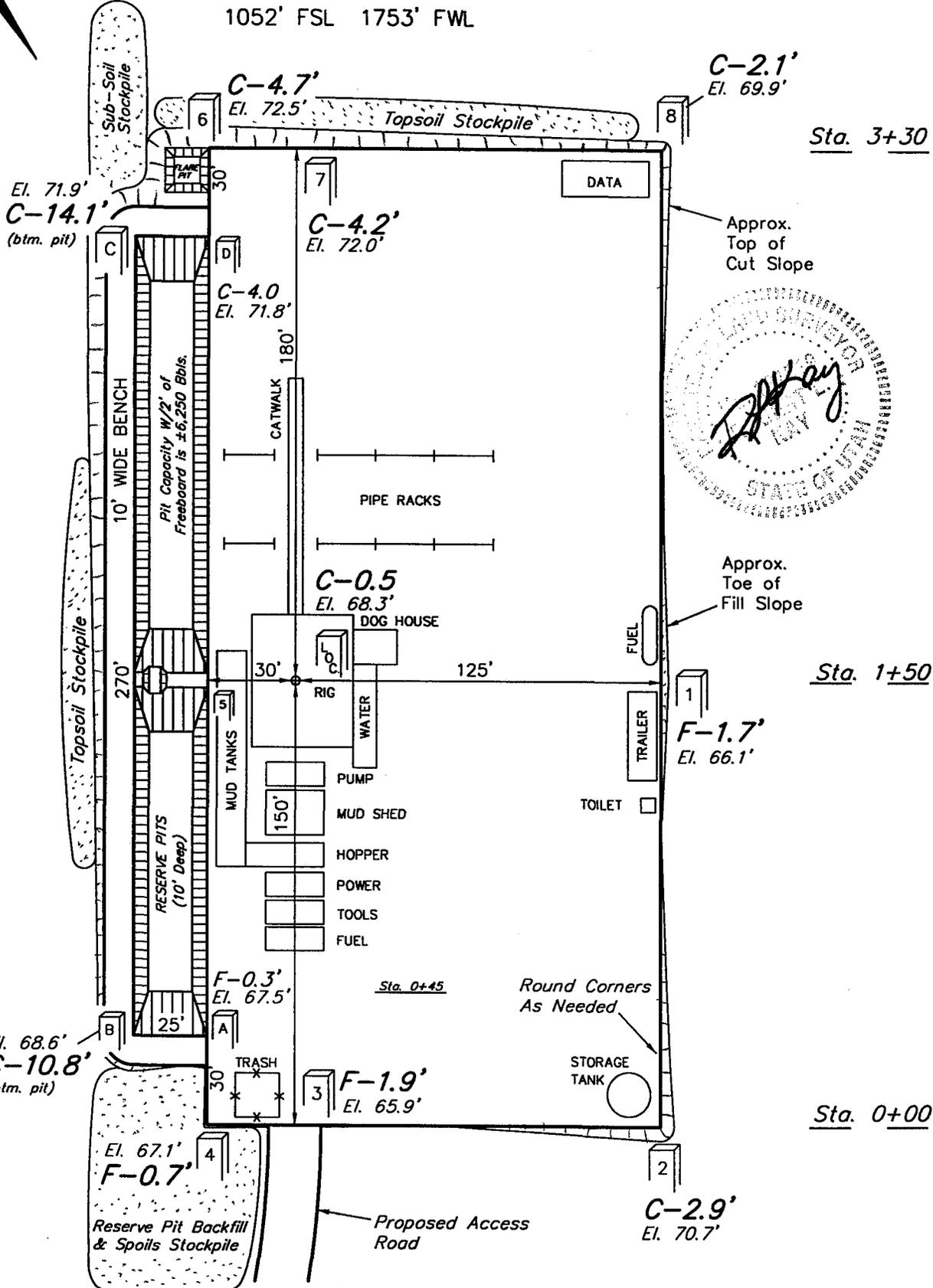
NATIONAL FUEL CORPORATION

LOCATION LAYOUT FOR

MOON RIDGE #31-21
SECTION 21, T16S, R21E, S.L.B.&M.
1052' FSL 1753' FWL



SCALE: 1" = 50'
DATE: 5-15-00
Drawn By: D.COX



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

Elev. Ungraded Ground at Location Stake = 7768.3'
Elev. Graded Ground at Location Stake = 7767.8'

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

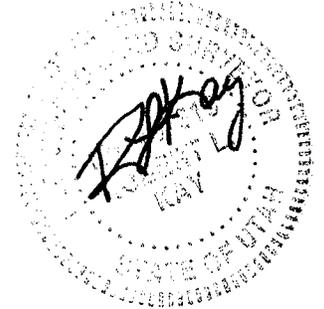
NATIONAL FUEL CORPORATION

TYPICAL CROSS SECTIONS FOR

MOON RIDGE #31-21

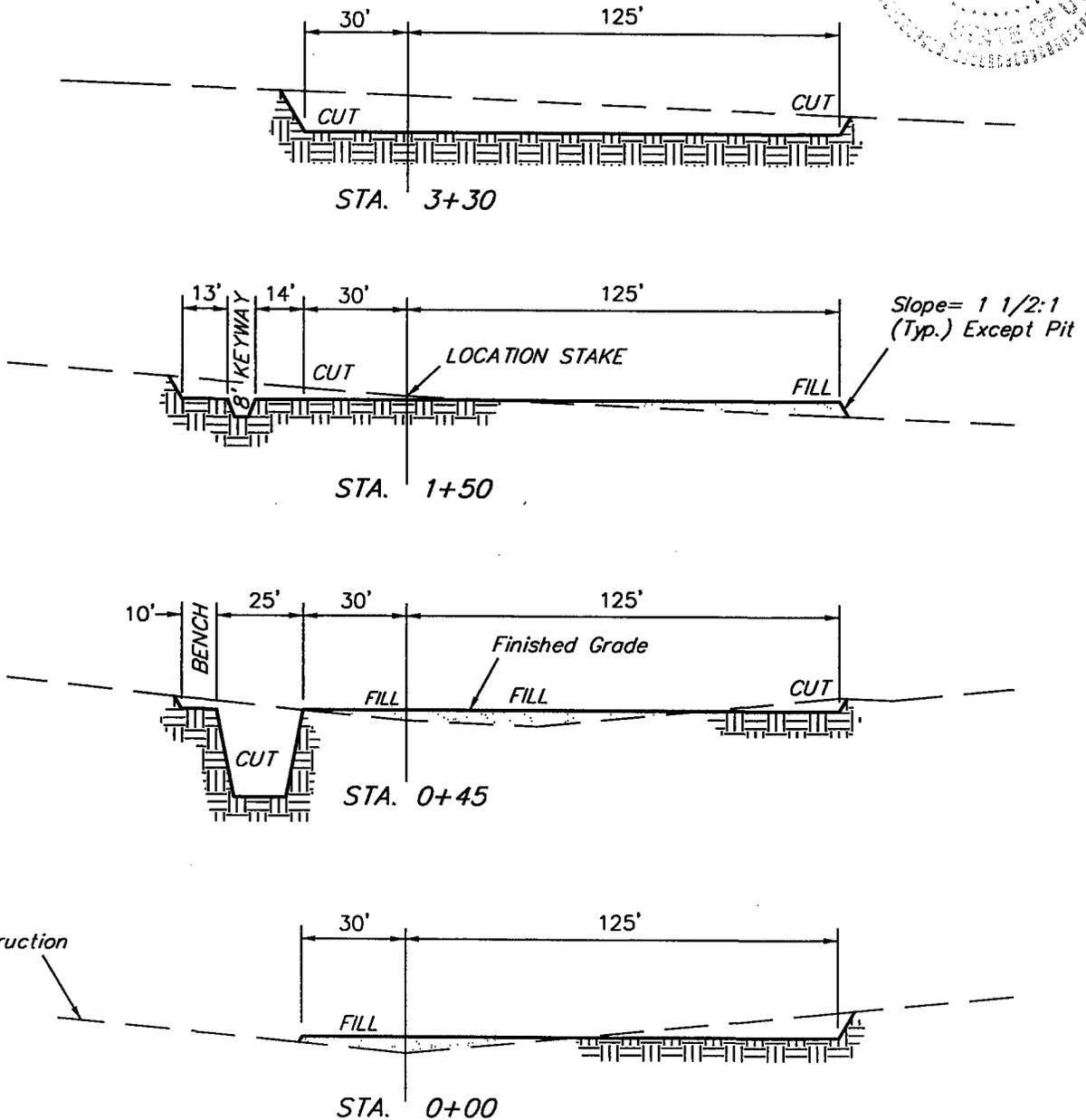
SECTION 21, T16S, R21E, S.L.B.&M.

1052' FSL 1753' FWL



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

DATE: 5-15-00
Drawn By: D.COX



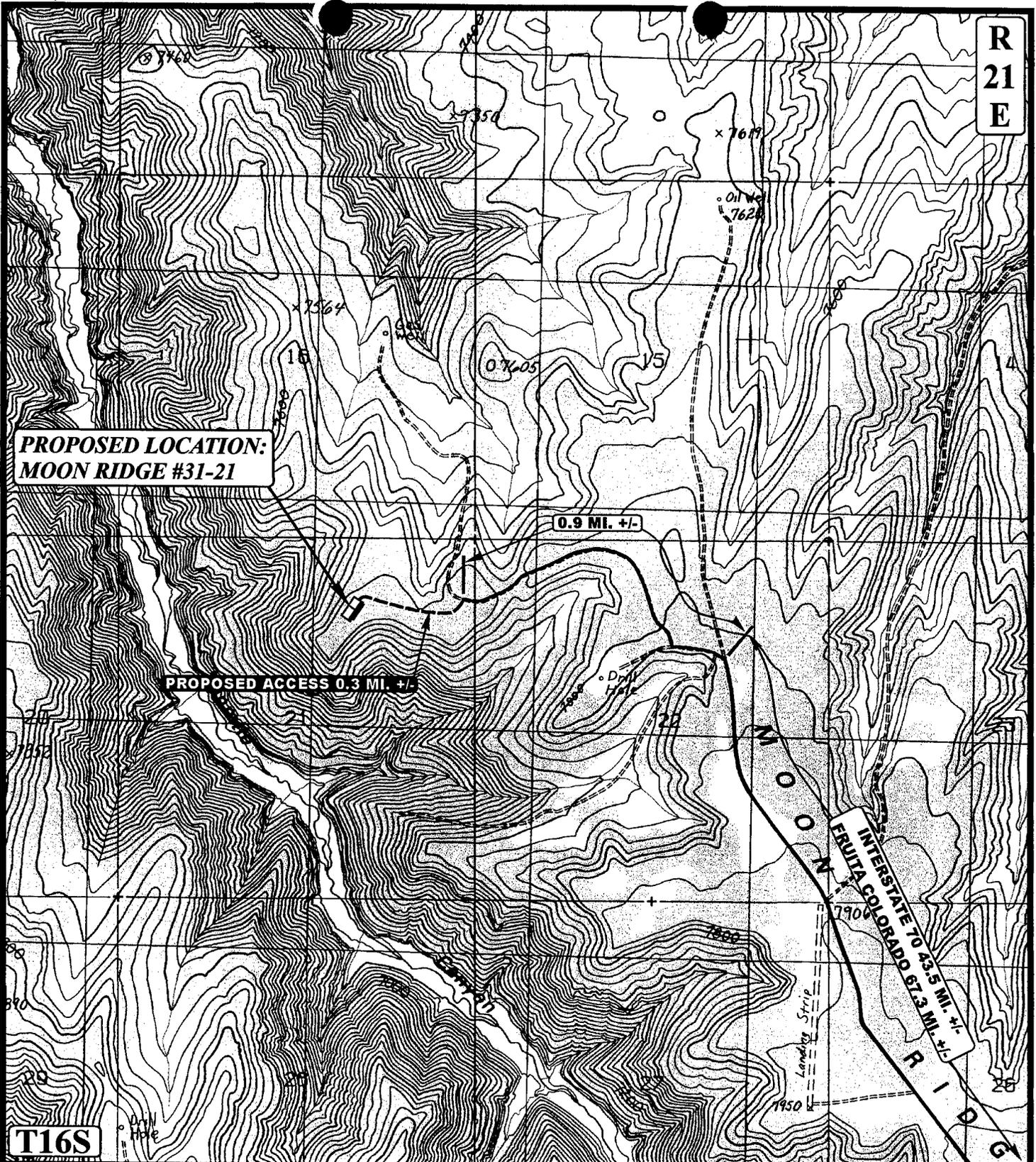
APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,140 Cu. Yds.
Remaining Location	=	3,860 Cu. Yds.
TOTAL CUT	=	5,000 CU.YDS.
FILL	=	1,160 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION	=	3,780 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	2,020 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	1,760 Cu. Yds.

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R
21
E



**PROPOSED LOCATION:
MOON RIDGE #31-21**

0.9 MI. +/-

PROPOSED ACCESS 0.3 MI. +/-

INTERSTATE 70 43.5 MI. +/-
FRUITA COLORADO 67.2 MI. +/-

T16S

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING ROAD

NATIONAL FUEL CORPORATION

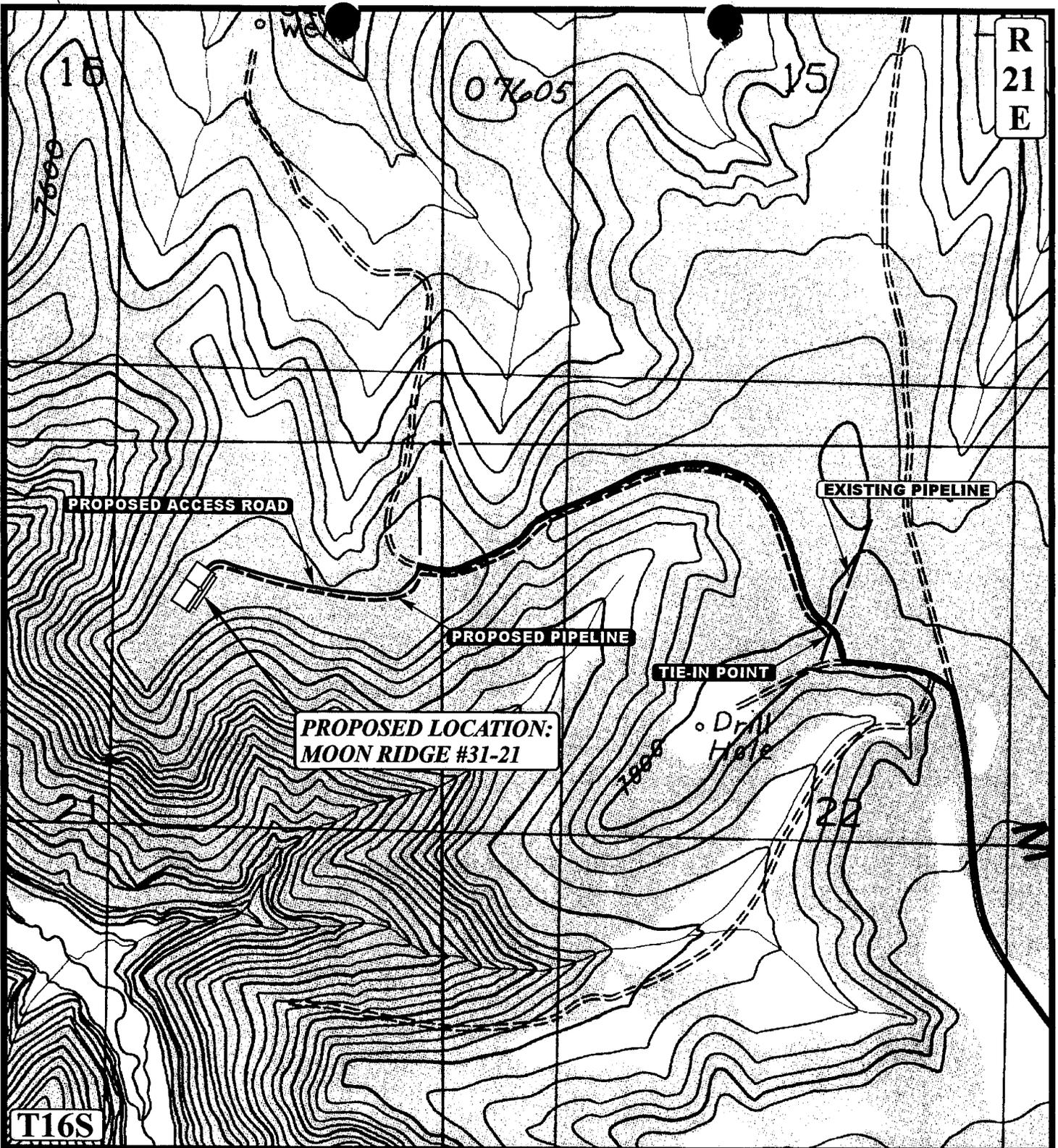
MOON RIDGE #31-21
SECTION 21, T16S, R21E, S.L.B.&M.
1052' FNL 1753' FEL

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



TOPOGRAPHIC **5 12 00**
MAP MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00

B
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 5400' +/-

LEGEND:

- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED ACCESS

NATIONAL FUEL CORPORATION

MOON RIDGE #31-21
SECTION 21, T16S, R21E, S.L.B.&M.
1052' FNL 1753' FEL

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



TOPOGRAPHIC **5** **12** **00**
M A P MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 National Fuel Corporation

3. ADDRESS OF OPERATOR
 5000 S. Quebec, Suite 640, Denver, CO 80237

4. LOCATION OF WELL (Report location clearly and in accordance with any state requirements.)
 At Surface: 1,052' fnl & 1,753' fel (NW NE) Sec. 21, T16S, R21E
 At proposed prod. zone: Same as surface

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 68 miles +/- NW of Fruita, CO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE. FT. (Also to nearest drlg. unit line, if any) 1,052' fnl

16. NO. OF ACRES IN LEASE 2,080

17. NO. OF ACRES ASSIGNED TO THIS WELL 320

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 10,100

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7,768' GR

22. APPROX. DATE WORK WILL START*
 July/August 2000

5. LEASE DESIGNATION AND SERIAL NO.
 UTU 72365 (Federal)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Moon Ridge

9. WELL NO.
 Federal #31-21

10. FIELD AND POOL, OR WILDCAT
 Stepout Moon Ridge, Cdr Mtn/Dakota

11. SEC., T., RL, M., OR BLK. AND SURVEY ON AREA
 NW NE Sec. 21, T16S, R21E

12. COUNTY OR PARISH Grand

13. STATE UT

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PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	48# H40	300'	350 sx regular cement
12 1/4"	8 5/8"	32# J 55	5,900'	1,935 sx 50/50 pozmix cement
6 1/4"	4 1/2"	11.6# N80	10,100	150 sx thixotropic cement

Move in rotary rig and drill 17 1/2" hole to 300' and run 300' of 13 3/8" surface casing set with 350 sx regular cement. Drill 12 1/4" hole to 5,900' or through Castlegate using mud. Run 5,900' of 8 5/8" intermediate casing set with 1,935 sx of 50/50 pozmix cement circulated to surface. Drill 6 1/4" hole to 10,100' TD using air. Run 10,200' of 4 1/2" production csg set with 150 sx thixotropic cement (cement top approx. 1,000' above top of Dakota Silt). Perforate and test Cedar Mountain/Dakota for production. May frac if necessary. Connect new gathering line to existing system in Moon Ridge Field.

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

24. SIGNED J. C. Brothman TITLE Sr. Geologist DATE 6/7/00
 (This space for Federal or State office use)

PERMIT NO. **NOTICE OF APPROVAL** **CONDITIONS OF APPROVAL ATTACHED**

APPROVED BY [Signature] TITLE Assistant Field Manager DATE 8/25/00
 Mineral Resources

*See Instructions On Reverse Side

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: National Fuels Corporation

Well Name & Number: Moon Ridge Federal #31-21

API Number: 43-019-31381

Lease Number: U - 72365

Location: NWNE Sec. 21 T. 16S R. 21E

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

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CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

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

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment

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

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water resources shall be isolated and/or protected by having a cement top for the intermediate casing at least 200 ft. above the top of the Wasatch formation, identified at 2,015 ft. The production casing will be cemented to at least 200 ft above the top of the Dakota formation, identified at 5,858 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

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4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

A cement bond log (CBL) will be run from the intermediate casing shoe to the top of the cement for the intermediate casing prior to running the production casing and shall be utilized to determine the bond quality for the intermediate casing. Also, a cement bond log (CBL) will be run and from the production casing shoe to the top of the cement for the production casing and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBLs to this office.

6. Notifications of Operations

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5(d) shall be submitted to the appropriate Field Office within 60 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (1).

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7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted on initial meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

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OIL, GAS AND MINING

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (435) 789-7077
Petroleum Engineer

Jerry Kenczka (435) 781-1190
Petroleum Engineer

BLM FAX Machine (435) 781-4410

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OIL, GAS AND MINING

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

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OIL, GAS AND MINING

**SURFACE USE PROGRAM
Conditions of Approval (COAs)**

- The reserve pit shall be constructed so as not to leak, break, or allow discharge. The reserve pit shall be lined with a plastic nylon reinforced liner to be a minimum of 12 mils in thickness. The liner will be bedded with sufficient dirt or straw to cover the rock. The liner will overlap the pit walls and be covered with dirt and or rocks to hold it in place.
- The reserve pit topsoil be piled separately as shown on the cut sheet.
- The location topsoil pile shall be windrowed along the south end of the location as shown on the cut sheet. This topsoil shall be seeded immediately after the soil is piled by broadcasting the seed, then walking the topsoil pile with the dozer to plant the seed. The seed mixture identified in the APD for final reclamation shall be used.
- Once the reserve pit is dry, it be filled, recontoured, topsoil spread, and seeded in the same manner discussed above.
- All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted Juniper Green.
- Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities.

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OIL, GAS AND MINING

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: NATIONAL FUEL CORP

Well Name: FEDERAL 31-21

Api No. 43-019-31381 LEASE TYPE: FEDERAL

Section 21 Township 16S Range 21E County UINTAH

Drilling Contractor BILL MARTIN SERVICE RIG # RATHOLE

SPUDDED:

Date 05/30/2001

Time NOON

How DRY

Drilling will commence _____

Reported by GENE SEARLE

Telephone # 1-435-828-3284

Date 05/30/2001 Signed: CHD

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

OPERATOR: EOG Resources, Inc.
ADDRESS: P.O. BOX 250
BIG PINEY, WYOMING 83113

OPERATOR ACCT. NO. N 9550
FAX: JIM THOMPSON
(801) 359-3940

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
B	99999	4905	43-047-33936	CHAPITA WELLS UNIT 512-24F	SW/NE	24	9S	22E	UINTAH	5/22/01	6-1-01
6-1-01 CONFIDENTIAL											
A	99999	13142	43-019-31381	MOON RIDGE FED. 31-21	NW/NE	21	16S	21E	GRAND	5/30/01	6-1-01
6-01-01											
A	99999	13143	43-047-33854	NORTH CHAPITA 155-33	NE/SW	33	8S	22E	UINTAH	4/25/01	6-1-01
6-01-01 CONFIDENTIAL											
A	99999	13144	43-047-33858	NORTH CHAPITA 151-32	SE/SW	32	8S	22E	UINTAH	5/30/01	6-1-01
6-01-01 CONFIDENTIAL											
A	99999	13145	43-047-33896	NORTH DUCK CREEK 166-26	SE/NE	26	8S	21E	UINTAH	5/24/01	6-1-01
6-01-01 CONFIDENTIAL											

ACTIONS CODES (See instructions on back of form)

- 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)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Kate Carlson
Signature
Regulatory Analyst
Title
6/01/2001
Date
Phone No. (307) 276-3331

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Item No. 1004-0135
Expires September 30, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

EOG Resources, Inc.

3. Address and Telephone No.

P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331

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

**1052' FNL 1753' FEL (NW/NE)
SECTION 21, T16S, R21E**

5. Lease Designation and Serial No.
UTU 72365

6. If Indian, Allottee or Tribe Name

7. If Unit or C.A., Agreement Designation

8. Well Name and No.

MOON RIDGE FEDERAL 31-21

9. API Well No.

43-019-31381

10. Field and Pool or Exploratory Area

STEPOUT MOON RIDGE/CDR MTN/DAKOTA

11. County

State

GRAND,

UTAH

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

TYPE OF SUBMISSION

NOTICE OF INTENT
 SUBSEQUENT REPORT
 FINAL ABANDONMENT NOTICE

TYPE OF ACTION

ABANDONMENT CHANGE OF PLANS
 RECOMPLETION NEW CONSTRUCTION
 PLUGGING BACK NON-ROUTINE FRACTURING
 CASING REPAIR WATER SHUT-OFF
 ALTERING CASING CONVERSION TO INJECTION
 OTHER SPUD DATE

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

EOG Resources, Inc. spud 12-1/4" surface hole at the subject location 5/30/2001. The contractor was Dall Cook's Air Drilling. Ed Forsman of the Vernal BLM District office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 5/30/2001.

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JUN 01 2001

**DIVISION OF
OIL, GAS AND MINING**

*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

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

SIGNED *Patty Carlso* TITLE Regulatory Analyst DATE 5/30/2001

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

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

FORM APPROVED
Budget Item No. 1004-0135
Expires September 30, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

<p>1. Type of Well</p> <p style="margin-left: 40px;"> <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other </p>	<p>5. Lease Designation and Serial No. UTU 72365</p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or C.A., Agreement Designation</p>
<p>2. Name of Operator EOG Resources, Inc.</p>	<p>8. Well Name and No. MOON RIDGE FEDERAL 31-21</p>
<p>3. Address and Telephone No. P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331</p>	<p>9. API Well No. 43-019-31381</p>
<p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1052' FNL 1753' FEL (NW/NE) SECTION 21, T16S, R21E</p>	<p>10. Field and Pool or Exploratory Area STEPOUT MOON RIDGE/CDR MTN/DAKOTA</p> <p>11. County State GRAND, UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT	<input type="checkbox"/> ABANDONMENT
<input checked="" type="checkbox"/> SUBSEQUENT REPORT	<input checked="" type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> NON-ROUTINE FRACTURING
	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERSION TO INJECTION
	<input type="checkbox"/> OTHER

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

EOG Resources, Inc. plans to revise the drilling program for the referenced well as follows:

Surface Casing:	9-5/8", 36.0#, K-55 @ 300'. Cement to surface w/125 sx Class "G" cement plus 2% CaCl.
Intermediate Casing:	7", 23.0#, J-55 @ 5900'. Cement from 5900' to 4900' w/50-50 Pozmix plus additives.
Production Casing:	Cement from 4900' to surface w/11 ppg. Light weight cement plus additives. 4-1/2", 11.6#, N-80 @ 10,100'±. Cement from TD to 500' above uppermost pay interval w/50-50 Pozmix plus additives.

RECEIVED
JUN 04 2001
DIVISION OF OIL, GAS AND MINING

*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

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

SIGNED *Naty Carlson* TITLE Regulatory Analyst DATE 5/31/2001

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Project No. 1004-0135
Expires December 30, 1990

1. Type of Well Oil <input type="checkbox"/> WELL Gas <input checked="" type="checkbox"/> Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Lease Designation and Serial No. UTU 72365
2. Name of Operator EOG Resources, Inc.		6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331		7. If Unit or C.A., Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1052' FNL 1753' FEL (NW/NE) SECTION 21, T16S, R21E		8. Well Name and No. MOON RIDGE FEDERAL 31-21
		9. API Well No. 43-019-31381
		10. Field and Pool or Exploratory Area STEPOUT MOON RIDGE/CDR MTN/DAKOTA
		11. County State GRAND, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT	<input type="checkbox"/> ABANDONMENT
<input checked="" type="checkbox"/> SUBSEQUENT REPORT	<input checked="" type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> RECOMPLETION
	<input type="checkbox"/> PLUGGING BACK
	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> ALTERING CASING
	<input type="checkbox"/> OTHER
	<input type="checkbox"/> NON-ROUTINE FRACTURING
	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERSION TO INJECTION

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

EOG Resources, Inc. plans to revise the drilling program for the referenced well as follows:

The interval from the base of the surface casing to intermediate casing depth will be drilled utilizing air/mist and aerated 4% KCL water/polymer unless down hole conditions require a mud system. A lime/starch/prehydrated gelled mud will be utilized if necessary for well control. The interval from intermediate casing point to TD will be drilled with air, air/mist and aerated 4% Kcl water as conditions dictate. A similar mud system to that described above will be utilized for well control if necessary.

RECEIVED
JUN 07 2001
DIVISION OF
OIL, GAS AND MINING

*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

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

SIGNED Raty Carlson TITLE Regulatory Analyst DATE 6/04/2001

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED

Budget Bureau No. 1004-0135

Expires September 30, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

Oil WELL Gas Well Other

2. Name of Operator

EOG Resources, Inc.

3. Address and Telephone No.

P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331

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

**1052' FNL 1753' FEL (NW/NE)
SECTION 21, T16S, R21E**

5. Lease Designation and Serial No.
UTU 72365

6. If Indian, Allottee or Tribe Name

7. If Unit or C.A., Agreement Designation

8. Well Name and No.

MOON RIDGE FEDERAL 31-21

9. API Well No.

43-019-31381

10. Field and Pool or Exploratory Area

STEPOUT MOON RIDGE/CDR MTN/DAKOTA

11. County

State

GRAND,

UTAH

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

TYPE OF SUBMISSION

TYPE OF ACTION

NOTICE OF INTENT
 SUBSEQUENT REPORT
 FINAL ABANDONMENT NOTICE

ABANDONMENT
 RECOMPLETION
 PLUGGING BACK
 CASING REPAIR
 ALTERING CASING
 OTHER

CHANGE OF PLANS
 NEW CONSTRUCTION
 NON-ROUTINE FRACTURING
 WATER SHUT-OFF
 CONVERSION TO INJECTION

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

EOG Resources, Inc. plans to revise the drilling program for the referenced well as follows:

8-3/4" hole will be drilled from the base of the surface casing @ 300'± to 5900'± utilizing an aerated 4% KCL/Polymer mud system rather than a conventional mud system as specified in the approved APD.

RECEIVED

JUN 07 2001

**DIVISION OF
OIL, GAS AND MINING**

*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

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

SIGNED *Dale Carlson* TITLE **Regulatory Analyst**

DATE **6/04/2001**

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

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

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Bureau No. 1004-0135
Expires September 30, 1990

<p>1. Type of Well</p> <p style="margin-left: 40px;">Oil Gas <input type="checkbox"/> WELL <input checked="" type="checkbox"/> Well <input type="checkbox"/> Other</p>	<p>5. Lease Designation and Serial No. UTU 72365</p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or C.A., Agreement Designation</p>
<p>2. Name of Operator EOG Resources, Inc.</p>	<p>8. Well Name and No. MOON RIDGE FEDERAL 31-21</p>
<p>3. Address and Telephone No. P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331</p>	<p>9. API Well No. 43-019-31381</p>
<p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1052' FNL 1753' FEL (NW/NE) SECTION 21, T16S, R21E</p>	<p>10. Field and Pool or Exploratory Area STEPOUT MOON RIDGE/CDR MTN/DAKOTA</p> <p>11. County State GRAND, UTAH</p>

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<p><input checked="" type="checkbox"/> NOTICE OF INTENT</p> <p><input type="checkbox"/> SUBSEQUENT REPORT</p> <p><input type="checkbox"/> FINAL ABANDONMENT NOTICE</p>	<p><input type="checkbox"/> ABANDONMENT</p> <p><input type="checkbox"/> RECOMPLETION</p> <p><input type="checkbox"/> PLUGGING BACK</p> <p><input type="checkbox"/> CASING REPAIR</p> <p><input type="checkbox"/> ALTERING CASING</p> <p><input type="checkbox"/> OTHER</p>	<p><input checked="" type="checkbox"/> CHANGE OF PLANS</p> <p><input type="checkbox"/> NEW CONSTRUCTION</p> <p><input type="checkbox"/> NON-ROUTINE FRACTURING</p> <p><input type="checkbox"/> WATER SHUT-OFF</p> <p><input type="checkbox"/> CONVERSION TO INJECTION</p>

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

EOG Resources, Inc. revised the casing program on the subject well due to to hole stability problems. 8-3/4" hole was drilled to 5866' KB, but due to subsequent unsuccessful fishing operations, 7", 23#, J-55 casing was set @ 4076' KB and cemented with 150 sx light weight cement and 350 sx 50/50 Pozmix.

***NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308**

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

SIGNED *Rety Carlson* TITLE Regulatory Analyst DATE 6/18/2001

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

RECEIVED

JUN 21 2001

DIVISION OF
OIL, GAS AND MINING

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

FAX COVER SHEET

FROM: ED TROTTER

FAX NO. 435-789-1420

TELEPHONE NO. 435-789-4120

TO: UDOG & M

FAX NO. 801-359-3940

ATTENTION: LESHA CORDOVA

DATE: 6-29-2001

TOTAL NUMBER OF PAGES INCLUDING COVER PAGE: 2

All information contained in this facsimile is confidential and is solely directed to the above named recipient. If you receive this fax in error, or there is a problem with the transmission, please call: 1-435-789-4120. Thank you.

Lesha,

Attached are copies of the Sundries I have submitted to the BLM for the Moon Ridge 31-21 and Moon Ridge 31-21X. The BLM has advised me that they will need an API number from you for the new well.

Thank you,



FORM 3160-3
(December 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 3160-3
Budget Bureau No. 1004-0135
Expires September 30, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT --" for such proposals
SUBMIT IN TRIPLICATE

1. Type of Well OR <input type="checkbox"/> WELL <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. UTU 72365
2. Name of Operator EOG Resources, Inc.	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331	7. If Unit or C.A., Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1052' FNL 1753' FEL (NW/NE) SECTION 21, T16S, R21E	8. Well Name and No. MOON RIDGE FEDERAL 31-21
	9. API Well No. 43-019-31381
	10. Field and Pool or Exploratory Area STEPOUT MOON RIDGE/CDR MTN/DAKOTA
	11. County State GRAND, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT	<input type="checkbox"/> ABANDONMENT
<input type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> RECOMPLETION
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> PLUGGING BACK
	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> ALTERING CASING
	<input type="checkbox"/> OTHER
	<input checked="" type="checkbox"/> CHANGE OF PLANS
	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> NON-ROUTINE FRACTURING
	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERSION TO INJECTION

(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work).

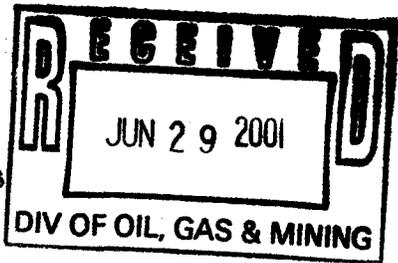
EOG Resources, Inc. has abandoned the referenced drill hole due to downhole mechanical problems. A wellbore diagram is attached which represents the current condition of the bore. EOGR is requesting authorization to cap the existing hole and postpone final abandonment until such time that a replacement well can be drilled, drilling equipment removed from the location, and a completion rig moved in.

COPY SENT TO OIL/GAS DIV
Date: 07-07-01
Initials: CHO

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 6/29/01
By: [Signature]

Federal Approval Of This
Action is Necessary



*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NM 2308

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

SIGNED [Signature] TITLE Agent DATE 6/29/2001

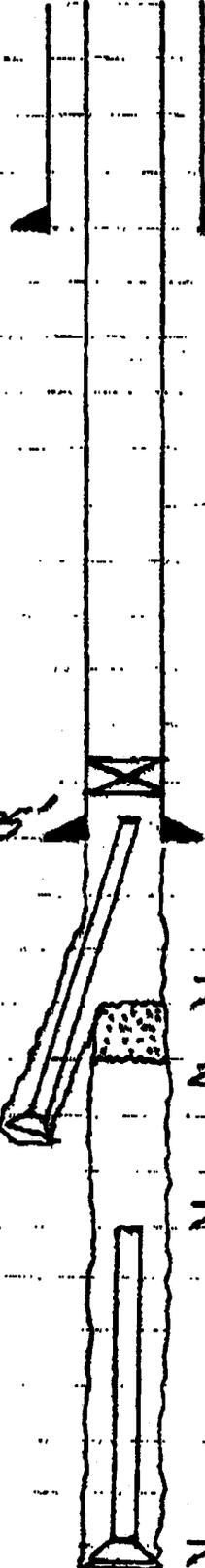
(This space for Federal or State officials use)

APPROVED BY _____ TITLE _____ DATE _____

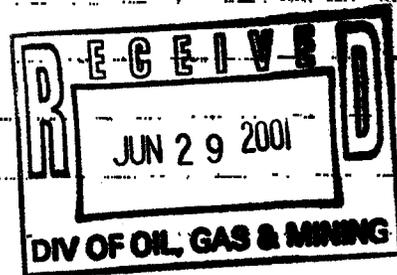
CONDITIONS OF APPROVAL, IF ANY:

This 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Mon Ridge 31-21



9 5/8" 36" J-55 @ 320' KB



CIP @ 4020' KB

Top of fish @ 4025'

7" 23" J-55 @ 4076' KB

Top of kickoff plug @ 4257' KB ±

Bottom of kickoff plug @ 4370' KB

Subsided TD @ 4452' KB

Top of fish @ 5145' KB

TD @ 5866' KB



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal District Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (801) 781-4400

Fax: (801) 781-4410

UTAH DISTRICT: 10

3162.3

UT08300

June 29, 2001

EOG Resources, Inc.
P. O. Box 250
Big Piney, WY 83113

Re: Moon Ridge Federal #31-21
NWNE, Sec. 21, T16S, R21E
Grand County, Utah
Lease No. UTU-72365

Gentlemen:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, EOG Resources, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. NM2308, for all operations conducted on the referenced well on the leased land.

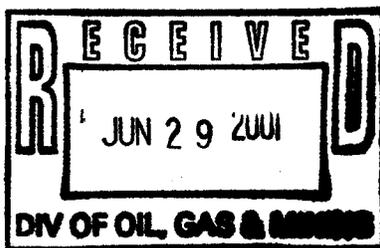
If you have any other questions concerning this matter, please contact Leslie Crinklaw of this office at (801) 781-4497.

Sincerely,

Kirk Fleetwood
Petroleum Engineer

cc: UDOGM - Jim Thompson
National Fuel Corp.

bcc: Well file U-931
Reading file U-932



Received Jun-29-01 02:32pm

From-02

To-EOG - BIG PINEY, WY.

Page 02

FORM 3100-3
(December 1993)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FORWARDED
MAY 1806-0133
SEPTEMBER 26, 1990

SUNDRY NOTICE AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT" for such proposals.

SUBMIT IN TRIPLICATE BLM VERNAL, UTAH

1. Lease Designation and Serial No.
UTU 72365

6. If known, Acreage or Tract Name

7. If Unit or C.A., Agreement Designation

8. Well Name and No.
MOON RIDGE FEDERAL 31-21

9. API Well No.
43-019-31381

10. Field and Pool or Exploratory Area
STERRIT MOON RIDGE/CDM MONTDAKOTA

11. County State
GRAND, UTAH

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
EOG Resources, Inc.

3. Address and Telephonic No.
P.O. BOX 258, BIG PINEY, WY 83115 (307) 276-3331

4. Location of Well (Section, T., R., M., or Survey Description)
**1052' FNL 1753' FEL (NW1/4)
SECTION 21, T16S, R21E**

RECEIVED
JUN - 1 2001

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> NOTICE OF INTENT	<input type="checkbox"/> ABANDONMENT
<input checked="" type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> RECOMPLETION
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> PLUGGING BACK
	<input type="checkbox"/> CANNING REPAIR
	<input type="checkbox"/> ALTERING CANNING
	<input checked="" type="checkbox"/> OTHER
	<input type="checkbox"/> CHANGE OF PLANS
	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> NON-ROUTINE FRACTURING
	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> CONVERSION TO INJECTION
	<input type="checkbox"/> CHANGE OF OPERATOR

(Note: Report results of complete completion or Well Completion or Abandonment Report and Log Profile.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details and give pertinent dates, including estimated date of starting any proposed work if well is directionally drilled give subsurface formation and measured well true vertical depths for all markers and zones penetrated in this work.)

Please be advised that EOG Resources, Inc. is now considered to be the operator of the Moon Ridge Federal 31-21 NW/NE of Section 21, Township 16 South, Range 21 East, Grand County, Utah, Lease UTU 72365 and is responsible under the terms and conditions of the Lease for the operations conducted upon the leased lands. Bond coverage is provided by Nationwide Bond #NWI2308.

VERNAL, UTAH
REG.
DEPT.
MAY 18 1990
B.L.M.

*NOTE: EOG Resources, Inc. will be using Nationwide Bond #NWI 2308

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

SIGNED Katy Carlson TITLE Regulatory Analyst DATE 5/29/2001

APPROVED BY Paul J. Rao TITLE Petroleum Engineer DATE 6/29/01

CONDITIONS OF APPROVAL, IF ANY:

This is U.S. Government work and, as such, is in the public domain in the United States and may be reproduced and transmitted in any form and by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without permission in writing from the U.S. Government.

01LC2053.5

Received Jun-28-01 02:32pm

From-02

To-EOG - BIG PINEY, WY. Page 03

F-853 1-701 P.02/03

307269395

Jun-28-01 03:14pm From-EOG - BIG PINEY, WY.

JUN-29-2001 FRI 02:34 PM BUREAU OF LAND MANAGEMENT

FAX NO. 02

P. 04

FORM 3100-3,
(October 1997)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

SUNDRY NOTICE AND REPORTS ON WELLS
BLM VERNAL, UTAH
SUBMIT IN TRIPLICATE

NO. APPROVED
Budget No. 100-0133
Revised September 30, 1999

7. Lease Designation and Serial No.
UTU 72365

8. If Indian, Allottee or Tribe Name

9. If UMT or C.A., Agreement Designation

10. Well Name and No.
MOON RIDGE FEDERAL 31-21

11. API Well No.
43-019-51881

12. Field and Pool or Exploratory Area
STEPDUT MOON RIDGE/CDR MTN/DAKOTA

13. County State
GRAND, UTAH

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator
NATIONAL FUEL CORPORATION

3. Address and Telephone No.
5000 S. QUEBEC, SUITE 410, DENVER, CO. 80237

4. Location of Well (Section, 64, T., R., M., or Survey Description)
**1852' PNL 1753' FEL (NW1/4)
SECTION 21, T18S, R11E**

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

TYPE OF SUBMISSION

NOTICE OF INTENT

SUBSEQUENT REPORT

FINAL ABANDONMENT NOTICE

TYPE OF ACTION

ABANDONMENT
 RECOMPLETION
 PLUGGING BACK
 CASING REPAIR
 ALTERING CASING
 OTHER

CHANGE OF PLANE
 NEW CONSTRUCTION
 NON-ROUTINE FRACTURING
 WATER SHUT-OFF
 CONVERSION TO INJECTION

CHANGE OF OPERATOR

(Note: Report results of multiple completions on Well Completions or Recompletion Reports and Log Files.)

13. Describe Proposed or Ongoing Operations (clearly state all pertinent details and give pertinent dates, including intended date of starting any proposed work if not immediately defined and whether the location and measured and true vertical depths for all markers and aspect pertinent to this work.)

Please be advised that EOG Resources, Inc. is now considered to be the operator of the Moon Ridge Federal 31-21 NW/4 of Section 21, Township 16 South, Range 21 East, Grand County, Utah, Lease UTU 72365 and is responsible under the terms and conditions of the Lease for the operations conducted upon the leased lands. Bond coverage is provided by Nationwide Bond #NWX308.

APPROVAL BOX

DATE _____

TIME _____

BY _____

TITLE _____

I hereby certify that the foregoing is true and correct

SIGNED J.C. Probst TITLE Sr. Geologist DATE 6/4/01

APPROVED BY Kirk Tull TITLE Petroleum Engineer DATE 6/29/01

Small text at bottom of approval section regarding conditions of approval.

011022535

Received Jun-29-01 02:32pm From-02 To-EOG - BIG PINEY, WY. Page 04

0272763938 1-701 P.03/03 F-863 JUN-29-01 03:15pm FROM-EOG - BIG PINEY, WY.



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal District Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (801) 781-4400

Fax: (801) 781-4410

IN REPLY REFER TO:

3162.3

UT08300

June 29, 2001

EOG Resources, Inc.
P. O. Box 250
Big Piney, WY 83113

43-019-31381

Re: Moon Ridge Federal #31-21
NWNE, Sec. 21, T16S, R21E
Grand County, Utah
Lease No. UTU-72365

Gentlemen:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, EOG Resources, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. NM2308, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Leslie Crinklaw of this office at (801) 781-4497.

Sincerely,

Kirk Fleetwood
Petroleum Engineer

cc: ~~EOG~~ OGM - ~~Thompson~~ Thompson
National Fuel Corp.

RECEIVED

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
OIL, GAS AND MINING



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Vernal District Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (801) 781-4400

Fax: (801) 781-4410

IN REPLY REFER TO:

3162.3

UT08300

June 29, 2001

EOG Resources, Inc.
P. O. Box 250
Big Piney, WY 83113

43-019-31381

Re: Moon Ridge Federal #31-21
NWNE, Sec. 21, T16S, R21E
Grand County, Utah
Lease No. UTU-72365

Gentlemen:

This correspondence is in regard to the self-certification statement submitted requesting a change in operator for the referenced well. After a review by this office, the change in operator request is approved. Effective immediately, EOG Resources, Inc. is responsible for all operations performed on the referenced well. All liability will now fall under your bond, BLM Bond No. NM2308, for all operations conducted on the referenced well on the leased land.

If you have any other questions concerning this matter, please contact Leslie Crinklaw of this office at (801) 781-4497.

Sincerely,

Kirk Fleetwood
Petroleum Engineer

cc: ~~FUBOGM~~ Jim Thompson
National Fuel Corp.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires: January 31, 2004

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU 72365

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
MOON RIDGE FEDERAL 31-21

9. API Well No.
43-019-31381

10. Field and Pool or Exploratory Area
MOUNTAIN FRONT RECOVERY AREA
MTN/DAKOTA

11. County or Parish, State
GRAND, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
EOG RESOURCES, INC.

3a. Address
P.O. BOX 250, BIG PINEY, WYOMING 83113

3b. Phone No. (include area code)
(307) 276 4842

4. Location of Well (Footage, Sec., T, R., M., or Survey Description)
1052' FNL - 1753' FEL (NW/NE)
SECTION 21, T16S, R21E

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

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

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

EOG Resources, Inc. proposes to plug and abandon the referenced well as follows:

- Run CBL from 4020' (CIBP) to 200' above cement top.
- Cap CIBP w/50' Class "G" cement in 7" casing.
- Set Class "G" cement plug between base of 9-5/8" surface casing and top of cement behind 7" casing per BLM specifications. (If necessary as determined from CBL).
- Perforate 7" casing @ 370'. Circulate Class "G" cement to surface.
- Remove casing heads. Install dry hole marker per BLM regulations.

**Accepted by the
Utah Division of
Oil, Gas and Mining**

Date: 4/23/02
By: [Signature]

Federal Approval Of This
Action is Necessary

COPY SENT TO OPERATOR
Date: 4-24-02
Initials: CHD

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DIVISION OF
OIL, GAS AND MINING

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)
KATY CARLSON

Title REGULATORY ANALYST

Signature [Signature] Date 4/16/2002

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature) _____ Name (Printed/Typed) _____ Title _____

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office _____ Date _____

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. UTU 72365		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator EOG RESOURCES, INC.			7. Unit or CA Agreement Name and No.		
3. Address P.O. BOX 250 BIG PINEY, WY 83113			8. Lease Name and Well No. MOON RIDGE FED 31-21		
3a. Phone No. (include area code) Ph: 307.276.4842			9. API Well No. 43-019-31381		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNE 1052FNL 1753FEL At top prod interval reported below NWNE 1052FNL 1753FEL At total depth NWNE 1052FNL 1753FEL			10. Field and Pool, or Exploratory CDR MTN/DAKOTA		
14. Date Spudded 05/30/2001			11. Sec., T., R., M., or Block and Survey or Area Sec 21 T16S R21E Mer SLB		
15. Date T.D. Reached 05/16/2002			12. County or Parish GRAND COUNTY		
16. Date Completed <input checked="" type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 05/16/2002			13. State UT		
17. Elevations (DF, KB, RT, GL)* 7782 KB			18. Total Depth: MD 5866 TVD		
19. Plug Back T.D.: MD TVD			20. Depth Bridge Plug Set: MD TVD		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) LOGS NOT RUN			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J-55	36.0		320		175			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
0.000	0							

25. Producing Intervals			26. Perforation Record				
Formation	Top	Bottom	Perforated Interval		Size	No. Holes	Perf. Status
A) P&A'D	0	0	0 TO 0				
B)							
C)							
D)							

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

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/16/2002	05/16/2002	0	→	0.0	0.0	0.0			OTHER
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
SI	0	0.0	→					P+A	

28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #12415 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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28b. Production - Interval C

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

28c. Production - Interval D

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

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
NO MEASURABLE GAS

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
WASATCH	0	1988			
MESAVERDE	1988	5683			
MANCOS SHALE	5683	6843			
DAKOTA	6843	9608			
CEDAR MOUNTAIN	9608	9733			
MORRISON	9733	9808			

32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

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

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

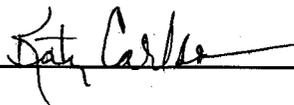
Electronic Submission #12415 Verified by the BLM Well Information System.
For EOG RESOURCES, INC., will be sent to the Vernal

Name (please print) KATY CARLSON

Title REGULATORY ANALYST

Signature

(Electronic Submission)



Date 07/24/2002

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