

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
 DRILL  DEEPEN

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

2. NAME OF OPERATOR  
 EOG RESOURCES, INC.

3. ADDRESS AND TELEPHONE NO.  
 P.O. BOX 1815, VERNAL, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface: 660' FSL & 720' FEL SE/SE  
 At proposed prod. zone: 4,440,046N 625,056E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 14.3 MILES SOUTHEAST OF OURAY, UTAH

10. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 320

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7,400'

20. ROTARY OR CABLE TOOLS  
 ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4,801' GRADED GROUND

22. APPROX. DATE WORK WILL START\*  
 NOVEMBER 1999

5. LEASE DESIGNATION AND SERIAL NO.  
 UTU-68218

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 UTE TRIBAL LAND

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

9. API WELL NO.  
 N. DUCK CREEK 100-22

10. FIELD AND POOL, OR WILDCAT  
 NORTH DUCK CREEK

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA  
 SEC. 22, T8S, R21E

12. COUNTY OR PARISH  
 Uintah

13. STATE  
 UTAH

**CONFIDENTIAL**

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	24#	200'-220'	100-150 SX CLASS "G" + 2% CaCl <sub>2</sub> + 1/4 #/SX CELLOFLAKE. 50/50 POZMIX + 2% GELL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS). LIGHT CEMENT (11 PPG +/-) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).
OR 12 1/4"	9 5/8"	32.30#	200'-220'	
7 7/8"	4 1/2"	10.50#	7400'	

- SEE ATTACHMENTS FOR:
- 8 POINT PLAN
  - BOPE SCHEMATIC
  - SURFACE USE AND OPERATING PLAN
  - LOCATION PLAT
  - LOCATION LAYOUT
  - TOPOGRAPHIC MAPS "A", "B" AND "C"
  - GAS SALES PIPELINE-MAP "D"
  - FACILITY DIAGRAM

EOG RESOURCES, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER NATIONWIDE BON # NM 2308

Pc: UTAH DIVISION OF OIL, GAS AND MINING

**Federal Approval of this Action is Necessary**

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 [Signature] TITLE Agent DATE 10-7-1999

(This space for Federal or State office use)

PERMIT NO. 43-047-33402 APPROVAL DATE OCT 12 1999

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

CONDITIONS OF APPROVAL, IF ANY:  
 APPROVED BY [Signature] TITLE RECLAMATION SPECIALIST III DATE 10/14/99

\*See Instructions On Reverse Side

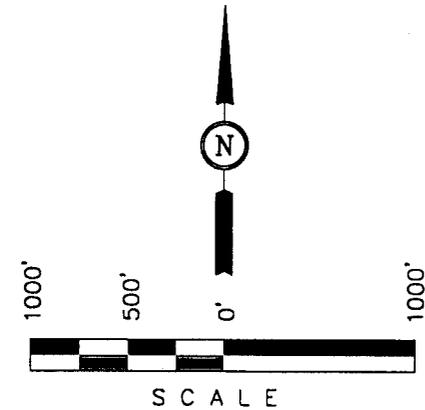
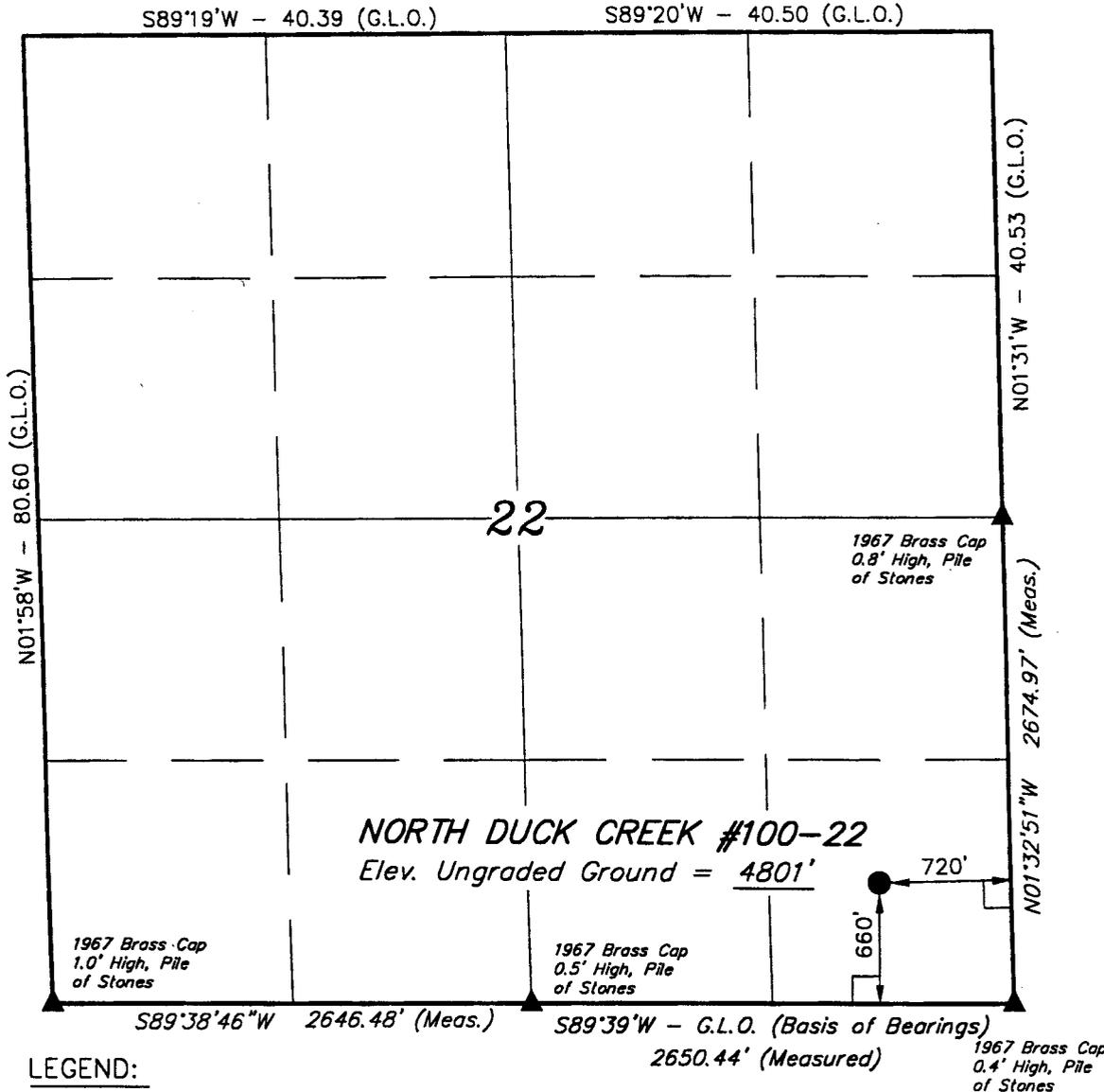
**ENRON OIL & GAS CO.**

**T8S, R21E, S.L.B.&M.**

Well location, NORTH DUCK CREEK #100-22, located as shown in the SE 1/4 SE 1/4 of Section 22, T8S, R21E, S.L.B.&M. Uintah County, Utah.

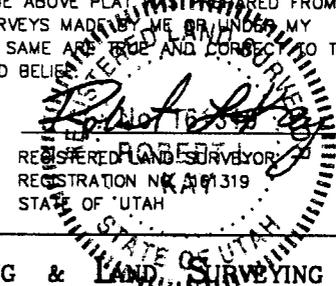
**BASIS OF ELEVATION**

SPOT ELEVATION AT THE WEST 1/4 CORNER OF SECTION 26, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4788 FEET.



**CERTIFICATE**

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



<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 08-25-99	DATE DRAWN: 09-16-99
PARTY G.S. M.A. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE ENRON OIL & GAS CO.	

**LEGEND:**

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

LATITUDE = 40°06'12"  
LONGITUDE = 109°31'57"

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

October 7, 1999

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

RE: APPLICATION FOR PERMIT TO DRILL  
NORTH DUCK CREEK 100-22  
SE/SE, SEC. 22, T8S, R21E  
UINTAH COUNTY, UTAH  
LEASE NO.: UTU-68218  
UTE TRIBAL LANDS

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

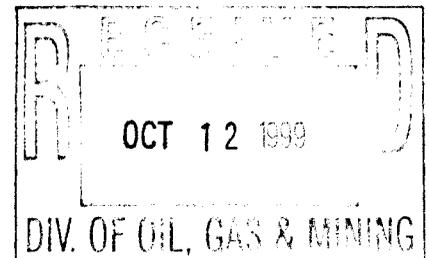
Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone: (435)789-4120  
Fax: (435)789-1420

Sincerely,



Ed Trotter  
Agent  
EOG Resources, Inc.

Attachments



**EIGHT POINT PLAN**

**NORTH DUCK CREEK 100-22**

**SE/SE, SEC. 22, T8S, R21E**

**UINTAH COUNTY, UTAH**

**1. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

<b>FORMATION</b>	<b>DEPTH</b>	<b>TYPE ZONES</b>	<b>MAXIMUM PRESSURE</b>
Green River	2235		
Oil Shale	2235		
"H" Marker	4125		
"J" Marker	4710		
Base "M" Marker	5315		
Wasatch	5790		
Peters Point	5790	GAS	
Chapita Wells	6525	GAS	
Buck Canyon	7330	GAS	

EST. TD                      7400'                      Anticipated BHP 3200 PSI

**2. PRESSURE CONTROL EQUIPMENT: BOP Schematic Diagram attached.**

**3. CASING PROGRAM:**

<b><u>HOLE SIZE</u></b>	<b><u>INTERVAL</u></b>	<b><u>LENGTH</u></b>	<b><u>SIZE</u></b>	<b><u>WEIGHT</u></b>	<b><u>GRADE</u></b>	<b><u>THREAD</u></b>	<b><u>MINIMUM SAFETY FACTOR</u></b>		
							<b><u>COLLAPSE</u></b>	<b><u>BURST</u></b>	<b><u>TENSILE</u></b>
11	0' - 220'	200' - 220'	8 5/8	24.0 #	J-55	ST&C	1370 PSI	2950 PSI	263,000#
or									
12 1/4	0' - 220'	200' - 220'	9 5/8	32.3 #	H-40	ST&C	1370 PSI	2270 PSI	254,000#
7 7/8	0' - 7400'	7400'	4 1/2	10.5 #	J-55	ST&C	4010 PSI	4790 PSI	146,000#

If conductor drive pipe is used, it will be left in place if its total length is less than 20 feet below the surface. If the total length of the drive pipe is equal to or greater than 20 feet, it will be pulled prior to cementing surface casing, or it will be cemented in place. The minimum diameter of the conductor drive pipe will be 13 3/8".

All casing will be new or inspected.

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 100-22**  
**SE/SE, SEC. 22, T8S, R21E**  
**UINTAH COUNTY, UTAH**

**5. MUD PROGRAM**

**INTERVAL**

0' - 220'  
240' - 4000'  
4000' - TD

**MUD TYPE**

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute

Lost circulation probable from 1500' to 3000'+/-.

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

**6. VARIANCE REQUESTS:**

- A. EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line (Where possible, a straight run blooie line will be used).
- B. EOG Resources, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line. (Not required on aerated water system).
- B. EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be 75' in length.

**7. EVALUATION PROGRAM:**

Logs: Schlumberger Platform Express

AIT-GR-SP-CAL

FDC-CNL-GR-Cal-PE

T.D. to base of surface casing

T.D. to 3900'

Cores: None Programmed

DST: None Programmed

Completion: To be submitted at a later date.

Note: If hole conditions prevent the running of open hole logs, a cased hole Dipole Sonic/Neutron/Gr will be run in lieu of open hole logs.

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 100-22**  
**SE/SE, SEC. 22, T8S, R21E**  
**UINTAH COUNTY, UTAH**

**8. ABNORMAL CONDITIONS:**

None anticipated.

**9. STANDARD REQUIRED EQUIPMENT:**

- A. Choke Manifold
- B. Kelly Clock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**10. HAZARDOUS CHEMICALS:**

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 of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

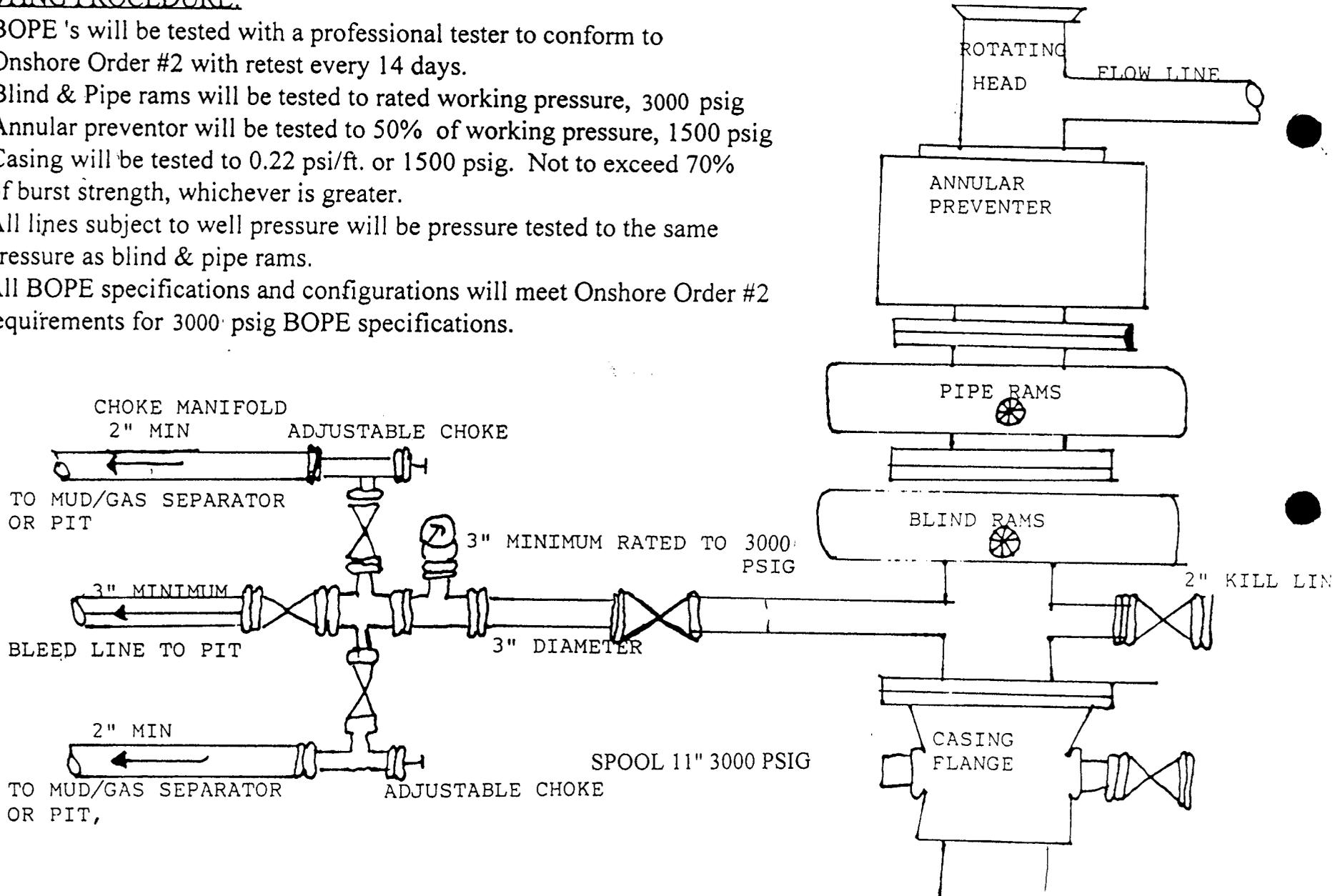
(Attachment: BOP Schematic Diagram)

## 3000 PSIG DIAGRAM

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

### TESTING PROCEDURE:

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



**CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL**

Company/Operator: EOG Resources, Inc.  
Well Name & Number: North Duck Creek 100-22  
Lease Number: UTU-68218  
Location: 660' FSL & 720' FEL, SE/SE, Sec. 22, T8S, R21E  
S.L.B.&M., Uintah County  
Surface Ownership: Ute Indian Tribe

**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 running casing and tests.

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

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

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 8.9 miles southeast of Ouray, Utah - See attached TOPO Map "A" .
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.2 miles in length. See attached TOPO Map "B".
- B. The access road has a 30 foot ROW w/ 18 foot running surface.
- C. Maximum grade on access road will be 8%.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges, or major cuts and fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards, or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

All travel will be confined to existing access road Right-of-Way.

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30-foot Right-of-Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of

drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. **LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION**

- A. Water wells - None
- B. Abandoned wells - None
- C. Temporarily abandoned wells - None
- D. Disposal wells - None
- E. Drilling wells - None
- F. Producing wells - 6\*
- G. Shut in wells - None
- H. Injection wells - None

(\*See attached TOPO map "C" for location)

4. **LOCATION OF EXISTING AND/OR PROPOSED FACILITIES**

A. **ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, separator, dehy, 210 Bbl condensate tank, meter house, and attached piping.  
See attached facility diagram.
- 3. Oil gathering lines - None
- 4. Gas gathering lines - A 4 ½" gathering line will be buried from dehy to the edge of the location.
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

B. **OFF WELL PAD**

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. A 41/2" OD steel above ground natural gas pipeline will be laid approximately 9880' from proposed location to a point in the NW/4 of Section 35, T8S, R21E, where it will tie into Questar Pipeline Co.'s

existing line. Proposed pipeline crosses BIA administered lands, thus a Right-of -Way grant will be required.

3. Proposed pipeline will be a 4 ½ “ OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery, unless more stringent protective requirements are deemed necessary by the authorized officer.

The production facilities will be placed on the Northwest end of the location.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities required will be painted within 6 months of installation. Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

The required paint color is Carlsbad Canyon.

If at any time the facilities located on public land and authorized by the terms of the lease are no longer included in the lease (due to a construction in the unit or other lease or unit boundary change), the BIA will process a change in authorization to the appropriate rental or other financial obligation as determined by the authorized officer.

## 5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from the Ouray Brine Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Sec. 35, T9S, R22E, Uintah County, Utah (State Water Right #49-1501). Produced water from the Chapita Wells and Stagecoach Units will also be used.
- B. Water will be hauled by Target Trucking Inc..
- C. No water well will be drilled on lease.

## 6. SOURCE OF CONSTRUCTION MATERIAL

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of the location.
- B. All construction material will come from Tribal Land.
- C. No mineral materials will be required.

## 7. METHODS OF HANDLING WASTE DISPOSAL

### A. METHODS AND LOCATION

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
4. Produced waste water will be confined to a lined pit or storage tank 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, together with the required water analysis, will be submitted for the AO's approval.
5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On BIA administered land:

The reserve pit will be constructed so as not to leak, break, or allow discharge.

The reserve pit shall be lined.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with Onshore Order No. 7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

## 8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

9. **WELLSITE LAYOUT**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

The reserve pit will be located on the South side of the location. The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the South side.

Access to the well pad will be from the East.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_.

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_.

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_.

N/A Corner # will be rounded off to minimize excavation.

**FENCING REQUIREMENTS:**

All pits will be fenced according to the following minimum standards:

- A. Thirty-nine inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. The net wire shall be no more than 2 inches above the ground. The barbed wire strand shall be 3 inches above the net wire. Total height of the fence shall be at least 42 inches.
- C. Corner posts shall be cemented and/or braced in such a manner as to keep the fence tight at all times.
- D. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- E. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BIA or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on Tribal land, or any fence between Tribal land and private land, the operator will contact the BIA, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

## 10. PLANS FOR RESTORATION OF SURFACE

### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 12 months from the date of well completion. Before any dirt work takes place, the reserve pit will be completely dry and all cans, barrels, pipe, fluid, and hydrocarbons, will be removed.

Contact appropriate surface management agency for required seed mixture.

### B. DRY HOLE/ABANDONED LOCATION

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BIA will attach the appropriate surface rehabilitation conditions of approval.

11. **SURFACE OWNERSHIP**

Access road: Tribal

Location: Tribal

12. **OTHER INFORMATION**

A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are 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 will immediately stop work that might further disturb such materials, and contact the AO. Within five working days the AO will inform the operator as to:

-whether the materials appear eligible for the National Register of Historic Places;

-the mitigation measures the operator will likely have to undertake before the site can be used.

-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 wished, 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 that may be required. Otherwise, the operator will be responsible for mitigation costs.

The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BIA, or the appropriate County Extension Office. On BIA administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Tribal Lands after the conclusion of drilling operations or at any other time without BIA authorization. However, if BIA authorization is obtained, it is only a temporary measure to allow time to

make arrangements for permanent storage on commercial facilities. (The BIA does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)

**Additional Surface Stipulations**

- N/A No construction or drilling activities shall be conducted between \_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_.
- N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.
- N/A No construction or exploration activities are permitted within a 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.
- N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).
- N/A No cottonwood trees will be removed or damaged.
- N/A Pond will be constructed according to BIA specifications approximately \_\_\_\_\_ feet \_\_\_\_\_ of the location, as flagged on the onsite.

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

EOG Resources, Inc.	EOG Resources, Inc.	Ed Trotter
P.O. Box 250	P.O. Box 1815	P.O. Box 1910
Big Piney, WY 83113	Vernal, UT 84078	Vernal, UT 84078
Jim Schaefer	George McBride	Telephone: (435)789-4120
Telephone (307)276-3331	Telephone (435)789-0790	Fax: (435)789-1420

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. EOG Resources, Inc. is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

The BIA office shall be notified upon site completion prior to moving on the drilling rig.

**Certification**

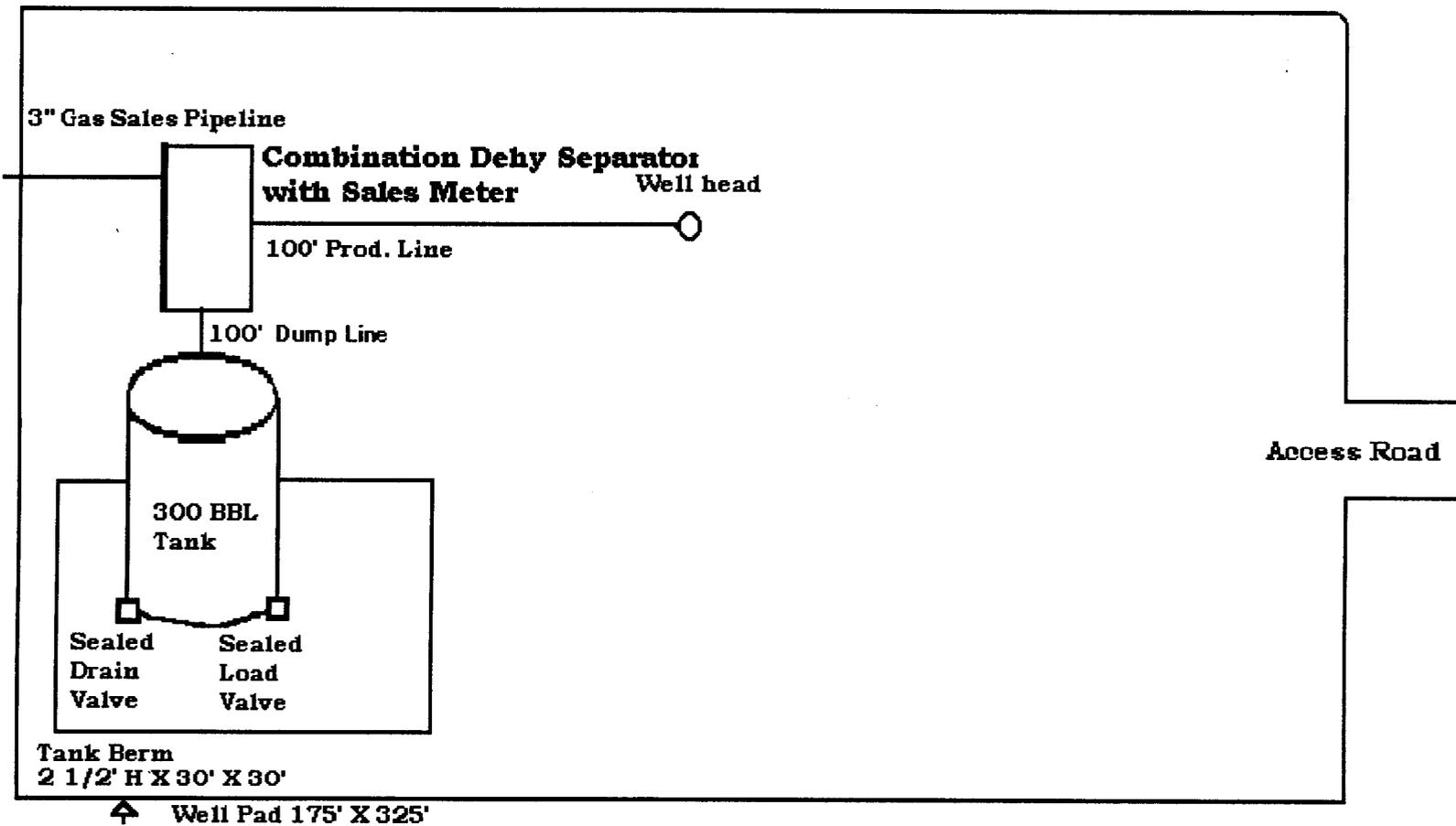
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with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

10-7-1999  
Date

  
Agent

**SITE FACILITY DIAGRAM**  
**NORTH DUCK CREEK 100-22**  
**SEC. 22, T8S, R21E, SE/4SE/4**  
**UINTAH COUNTY, UTAH**  
**FEDERAL LEASE NO. UTU-68218**

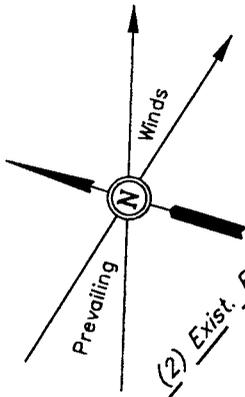
(Site Security Plan is on file at Enron's Vernal Office)



# ENRON OIL & GAS CO.

## LOCATION LAYOUT FOR

NORTH DUCK CREEK #100-22  
SECTION 22, T8S, R21E, S.L.B.&M.  
660' FSL 720' FEL



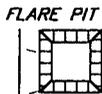
SCALE: 1" = 50'  
DATE: 09-16-99  
Drawn By: D.R.B.

Approx.  
Top of  
Cut Slope

**NOTE:**

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

El. 805.4'  
**C-12.4'**  
(btm. pit)



C-0.2'  
El. 801.2'

C-0.4'  
El. 801.4'

C-0.4'  
El. 801.4'

Reserve Pit Backfill & Spoils Stockpile

10' WIDE BENCH/DIKE

Pit Capacity With 2' of Freeboard is ± 9,200 Bbls.

RESERVE PITS (8' Deep)

Sta. 0+12

El. 803.0'  
**C-10.0'**  
(btm. pit)

El. 800.1'  
**F-0.9'**

**F-1.2'**  
El. 799.8'

**F-0.9'**  
El. 800.1'

**C-2.2'**  
El. 803.2'

**C-0.4'**  
El. 801.4'

**C-0.8'**  
El. 801.8'

Sta. 3+25

Sta. 1+50

Sta. 0+00

Round Corners as needed

DATA

CATWALK

PIPE RACKS

RIG DOG HOUSE

WATER

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

STORAGE TANK

TRAILER

TOILET

FUEL

61'

175'

25'

75'

36'

135'

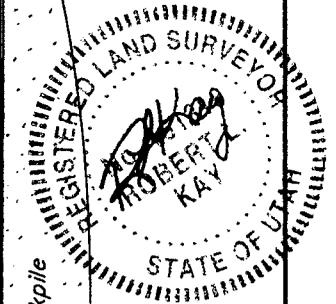
150'

Topsoil Stockpile

1

**C-0.6'**  
El. 801.6'

Proposed Access Road

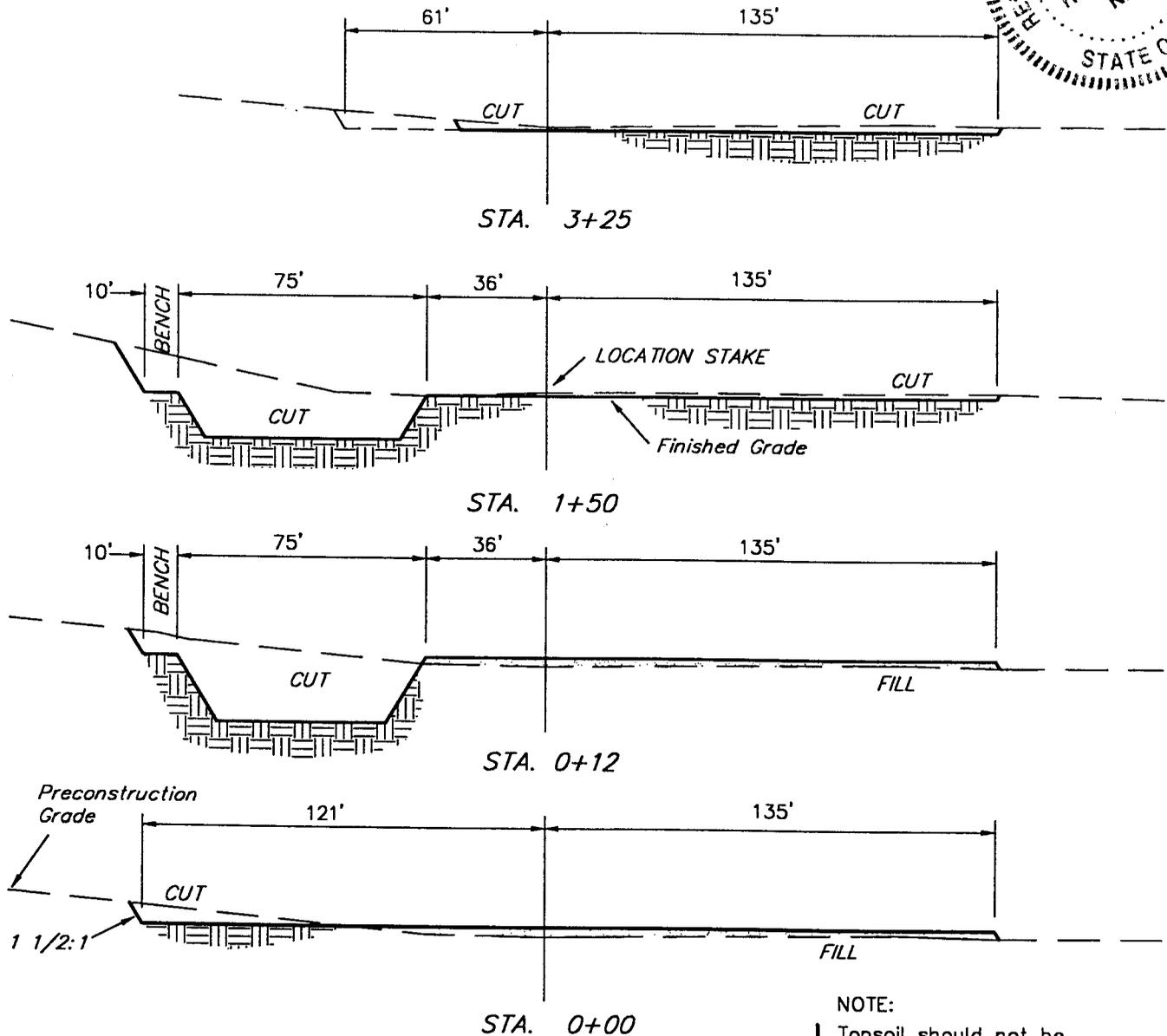
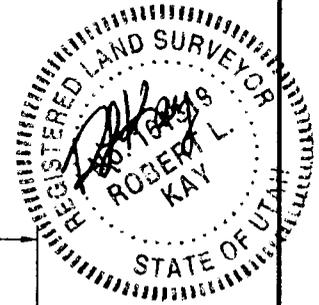


Elev. Ungraded Ground at Location Stake = **4801.4'**  
Elev. Graded Ground at Location Stake = **4801.0'**

**ENRON OIL & GAS CO.**  
**TYPICAL CROSS SECTIONS FOR**  
**NORTH DUCK CREEK #100-22**  
**SECTION 22, T8S, R21E, S.L.B.&M.**  
**660' FSL 720' FEL**

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

DATE: 09-16-99  
 Drawn By: D.R.B.

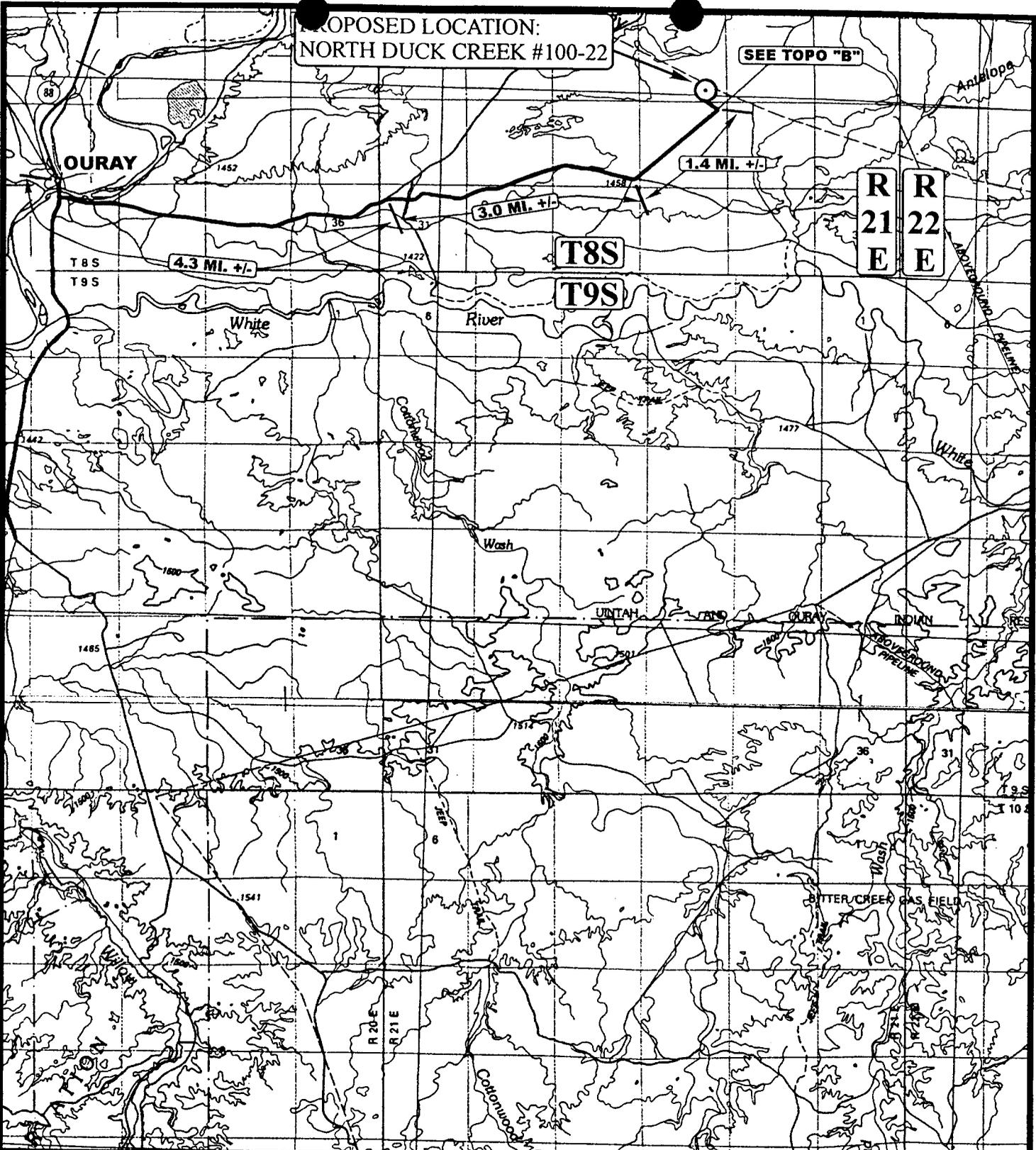


**NOTE:**  
 Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping	=	2,660 Cu. Yds.
Remaining Location	=	3,090 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>5,750 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>1,630 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	4,030 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,030 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.



PROPOSED LOCATION:  
NORTH DUCK CREEK #100-22

SEE TOPO "B"

OURAY

T 8 S  
T 9 S

T 8 S

T 9 S

R 21 E  
R 22 E

White

River

Wash

UTAH

OURAY

INDIAN

BITTER CREEK GAS FIELD

**LEGEND:**

○ PROPOSED LOCATION



**ENRON OIL & GAS COMPANY**

**NORTH DUCK CREEK #100-22**  
**SECTION 22, T8S, R21E, S.L.B.&M.**  
**660' FSL 720' FEL**



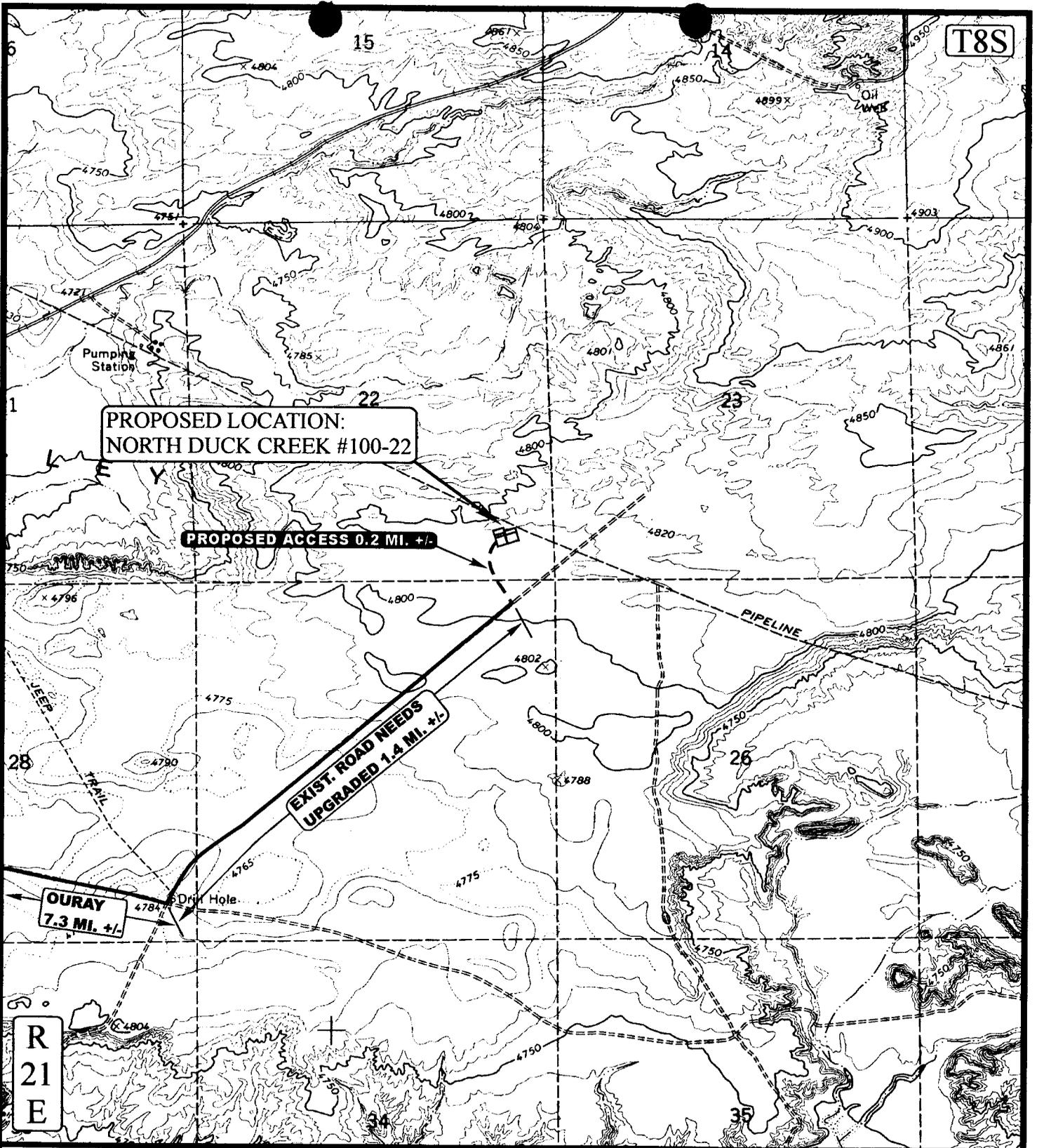
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

<b>9</b>	<b>9</b>	<b>99</b>
MONTH	DAY	YEAR

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





T8S

**PROPOSED LOCATION:  
NORTH DUCK CREEK #100-22**

**PROPOSED ACCESS 0.2 MI. +/-**

**EXIST. ROAD NEEDS  
UPGRADED 1.4 MI. +/-**

**OURAY  
7.3 MI. +/-**

R  
21  
E

**LEGEND:**

- - - - - PROPOSED ACCESS ROAD
- EXISTING ROAD



**ENRON OIL & GAS COMPANY**

**NORTH DUCK CREEK #100-22  
SECTION 22, T8S, R21E, S.L.B.&M.  
660' FSL 720' FEL**



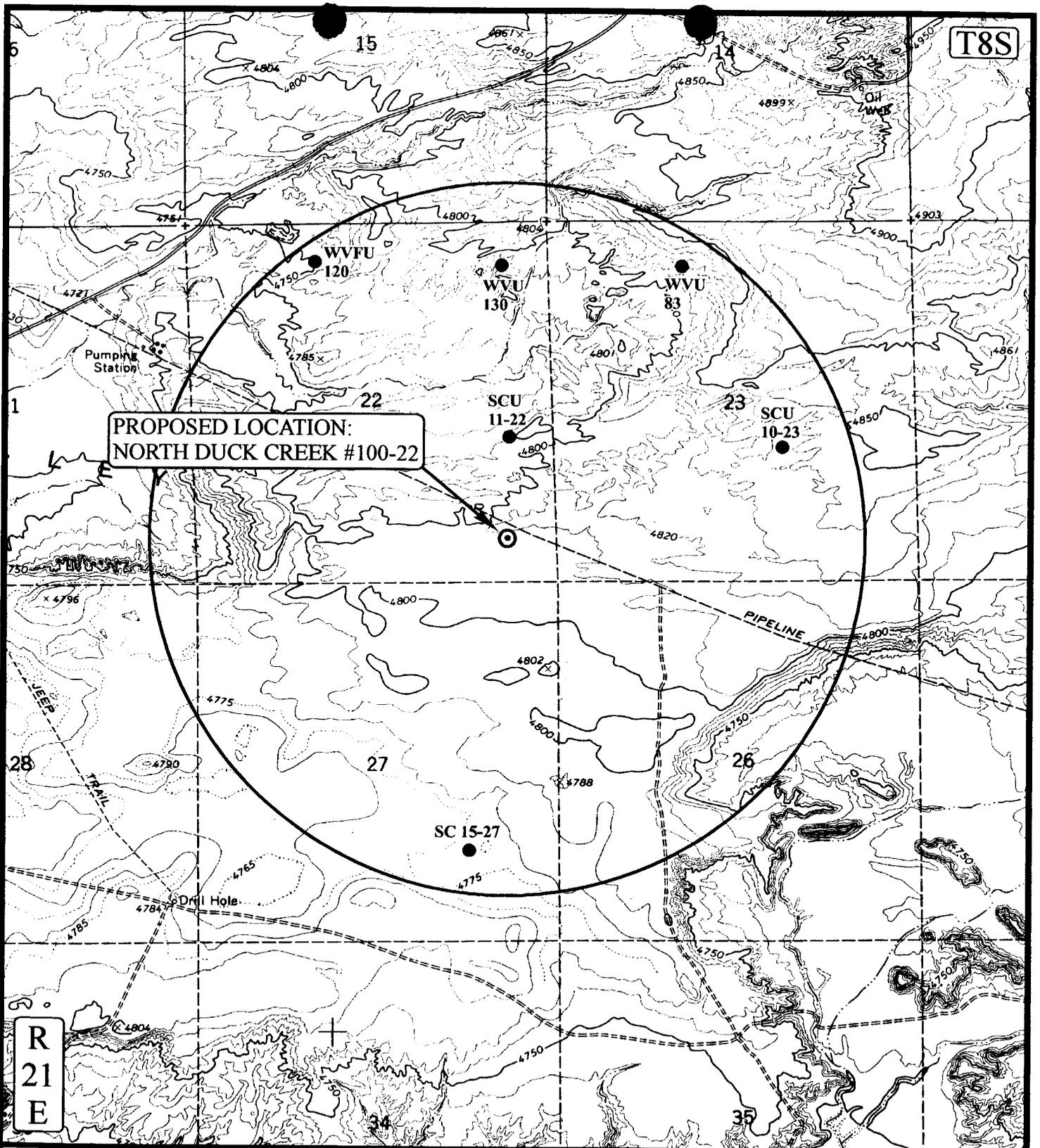
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

<b>9</b>	<b>8</b>	<b>99</b>
MONTH	DAY	YEAR

**B**  
TOPO

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



PROPOSED LOCATION:  
NORTH DUCK CREEK #100-22

**LEGEND:**

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



**ENRON OIL & GAS COMPANY**

NORTH DUCK CREEK #100-22  
SECTION 22, T8S, R21E, S.L.B.&M.  
660' FSL 720' FEL



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

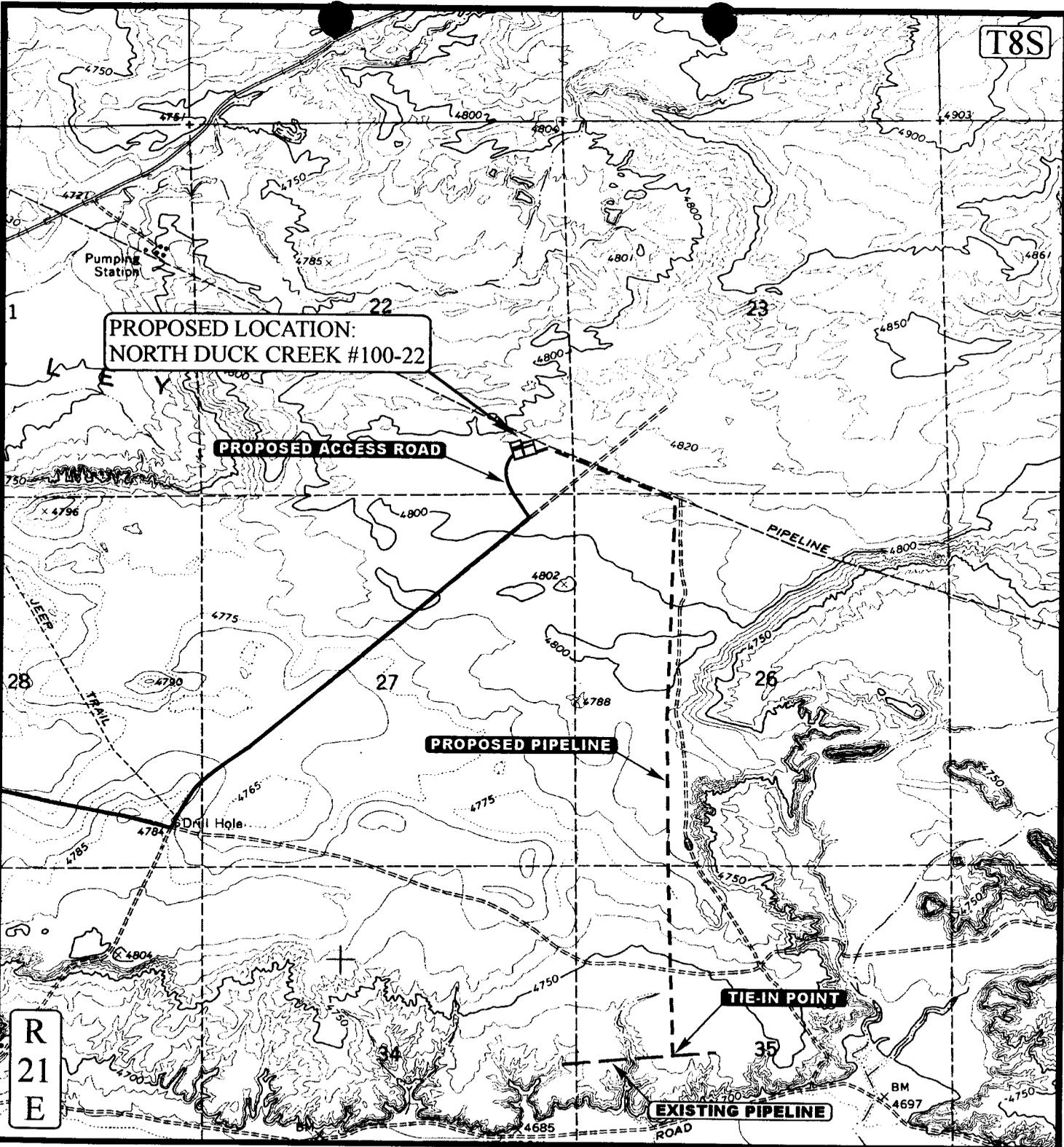
TOPOGRAPHIC  
MAP

9	9	99
MONTH	DAY	YEAR

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



T8S



APPROXIMATE TOTAL PIPELINE DISTANCE = 9880' +/-

LEGEND:

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS

ENRON OIL & GAS COMPANY

NORTH DUCK CREEK #100-22  
SECTION 22, T8S, R21E, S.L.B.&M.  
660' FSL 720' FEL



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

TOPOGRAPHIC	9	8	99
MAP	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: J.L.G.		REVISED: 00-00-00



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/12/1999

API NO. ASSIGNED: 43-047-33402

WELL NAME: N DUCK CREEK 100-22  
 OPERATOR: EOG RESOURCES INC (N9550)  
 CONTACT: Ed Trotter (435) 789-4120

PROPOSED LOCATION:  
 SESE 22 - T08S - R21E  
 SURFACE: 0660-FSL-0720-FEL  
 BOTTOM: 0660-FSL-0720-FEL  
 UINTAH COUNTY  
 WONSITS VALLEY FIELD (710)

INSPECT LOCATN BY: / /		
TECH REVIEW	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: FED  
 LEASE NUMBER: UTU-68218  
 SURFACE OWNER: Ute Tribe

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:

Plat  
 Bond: Fed  Ind  Sta  Fee  
 (No. Nm 2308)

Potash (Y/N)  
 Oil Shale (Y/N) \*190-5(B)  
 Water Permit  
 (No. 49-1501)

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: 187-2 (320')  
 Eff Date: 8-20-80  
 Siting: Used for lease line or offset unit line

R649-3-11. Directional Drill

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

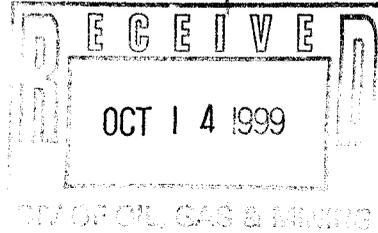
STIPULATIONS: ① FEDERAL APPROVAL





**Enron Oil & Gas Company**  
600 Seventeenth St., Ste. 1100 N  
Denver, CO 80202  
(303) 572-9000  
Fax (303) 824-5401

October 14, 1999



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

RE: North Duck Creek 100-22  
SESE of Sec. 22-8S-21E, SLM  
Uintah County, Utah  
Federal Lease UTU-68218  
0061281-000 (Stagecoach Prospect)

Dear Lisha:

This letter will confirm that the Federal Lease UTU-68218 upon which EOG Resources, Inc.'s proposed North Duck Creek 100-22 well will be drilled covers the S/2 of Section 22, Township 8 South, Range 21 East, SLM, Uintah County, Utah. As such, this proposed well location at 660' FSL, 720' FEL (SE/4SE/4) of Section 22, Township 8 South, Range 21 East, SLM, Uintah County, Utah, is not closer than 660' to the lease line or spacing unit line as prescribed in the Board of Oil, Gas and Mining's Order in Cause No. 187-2.

If you have any further questions or need any additional information, please don't hesitate to contact me at area code 303-572-9000 x 5474.

Yours very truly,

**EOG RESOURCES, INC.**

Toni Lei Miller  
Project Landman

TLM/das  
17763T

cc: Ed Trotter

**Natural gas. Electricity. Endless possibilities.**



600 17<sup>th</sup> St., Suite 1100, Denver, CO 80202

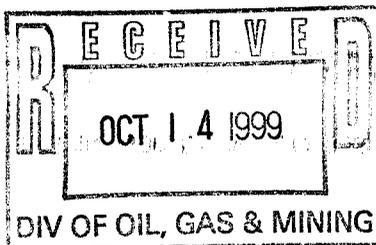
TO: Lisha Cordova FROM: Toni Miller  
State of Utah

COMPANY: Division of Oil, Gas and Mining CO/DEPT: EOG Resources, Inc.

FAX #: (801) 359-3940 PHONE#: 303-572-9000  
MAIN FAX 303-824-5401

TOTAL NUMBER OF PAGES (including this page) 2 DATE: 10-14-99

If you do not receive this transmission in its entirety, please call Debbie Spears  
at (303) 572-9000 ENRON OIL & GAS COMPANY 303 572 5410 P. 01/02



THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS CONFIDENTIAL INFORMATION INTENDED ONLY FOR THE USE OF THE INDIVIDUAL OR AGENT RESPONSIBLE TO DELIVER IT TO THE INTENDED RECIPIENT. YOU ARE HEREBY NOTIFIED THAT ANY DISSEMINATION, DISTRIBUTION OR COPYING OF THIS COMMUNICATION IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN ERROR, PLEASE IMMEDIATELY NOTIFY US BY TELEPHONE, AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA THE U.S. POSTAL SERVICE.



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)

October 14, 1999

EOG Resources, Inc.  
P.O. Box 1815  
Vernal, Utah 84078

Re: N. Duck Creek 100-22 Well, 660' FSL, 720' FEL, SE SE, Sec. 22, T. 8 S., R. 21 E.,  
Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33402.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza  
Associate Director

lwp  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal District Office

Operator: EOG Resources, Inc.

Well Name & Number: N. Duck Creek 100-22

API Number: 43-047-33402

Lease: Federal Surface Owner: Ute Tribe

Location: SE SE Sec. 22 T. 8 S. R. 21 E.

### 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 or Robert Krueger at (801) 538-5274.

3. Reporting Requirements

All required reports, forms and submittals shall 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.



**Enron Oil & Gas  
Company**  
600 Seventeenth St., Ste. 1100 N  
Denver, CO 80202  
(303) 572-9000  
Fax (303) 824-5401

October 14, 1999

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

**CONFIDENTIAL**

43-047-33402  
RE: North Duck Creek 100-22  
SESE of Sec. 22-8S-21E, SLM  
Uintah County, Utah  
Federal Lease UTU-68218  
0061281-000 (Stagecoach Prospect)

Dear Lisha:

This letter will confirm that the Federal Lease UTU-68218 upon which EOG Resources, Inc.'s proposed North Duck Creek 100-22 well will be drilled covers the S/2 of Section 22, Township 8 South, Range 21 East, SLM, Uintah County, Utah. As such, this proposed well location at 660' FSL, 720' FEL (SE/4SE/4) of Section 22, Township 8 South, Range 21 East, SLM, Uintah County, Utah, is not closer than 660' to the lease line or spacing unit line as prescribed in the Board of Oil, Gas and Mining's Order in Cause No. 187-2.

If you have any further questions or need any additional information, please don't hesitate to contact me at area code 303-572-9000 x 5474.

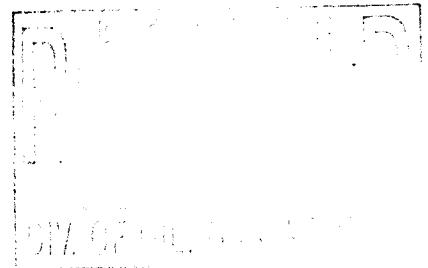
Yours very truly,

**EOG RESOURCES, INC.**

Toni Lei Miller  
Project Landman

TLM/das  
17763T

cc: Ed Trotter



**Natural gas. Electricity. Endless possibilities.**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
DRILL  DEEPEN

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

2. NAME OF OPERATOR  
EOG RESOURCES, INC. **CONFIDENTIAL**

3. ADDRESS AND TELEPHONE NO.  
P.O. BOX 1815, VERNAL, UT 84078

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface: 660' FSL & 720' FEL SE/SE  
At proposed prod. zone: **RECEIVED**  
OCT 13 1999

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
14.3 MILES SOUTHEAST OF OURAY, UTAH

16. NO. OF ACRES IN LEASE: 320  
17. NO. OF ACRES ASSIGNED TO THIS WELL: [blank]

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 660'  
19. PROPOSED DEPTH: 7,400'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4,801' GRADED GROUND

23. PROPOSED CASING AND CEMENTING PROGRAM

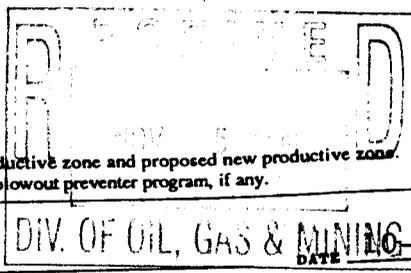
SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
11"	8 5/8"	24#	200'-220'
OR 12 1/4"	9 5/8"	32.30#	200'-220'
7 7/8"	4 1/2"	10.50#	7400'

QUANTITY OF CEMENT  
100-150 SX CLASS "G" + 2% CaCl<sub>2</sub> + 1/4 #/SX CELLOFLAKE.  
50/50 POZMIX + 2% GELL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+ 10% EXCESS).  
LIGHT CEMENT (11 PPG +/-) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

SEE ATTACHMENTS FOR:  
8 POINT PLAN  
BOPE SCHEMATIC  
SURFACE USE AND OPERATING PLAN  
LOCATION PLAT  
LOCATION LAYOUT  
TOPOGRAPHIC MAPS "A", "B" AND "C"  
GAS SALES PIPELINE-MAP "D"  
FACILITY DIAGRAM

EOG RESOURCES, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL UNDER NATIONWIDE BON # NM 2308

Pc: UTAH DIVISION OF OIL, GAS AND MINING



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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: *[Signature]* TITLE: Agent

(This space for Federal or State office use)  
PERMIT NO. \_\_\_\_\_ OPERATOR: \_\_\_\_\_

APPROVAL DATE: **NOTICE OF APPROVAL**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY: *[Signature]* TITLE: Assistant Field Manager  
Mineral Resources DATE: 11/1/99

\*See Instructions On Reverse Side

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Enron Oil and Gas Company

Well Name & Number: North Duck Creek 100-22

API Number: 43-047-33402

Lease Number: U-68218

Location: SESE Sec. 22 T. 8S R. 21E

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least 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 - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least 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.

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

## 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.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative by the operator to insure compliance.

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 3M 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 will be set **relative to ground level** and shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

If conductor pipe is set it will be cemented to surface. If drive pipe is used it will be pulled prior to cementing surface casing.

**As a minimum, the usable water and oil shale resources shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the usable water zone identified at  $\pm 316$  ft. or by setting the surface casing at  $\pm 366$  ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.**

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.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

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

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

The Gamma Ray and Induction Logs need to be pulled from TD to the Surface Shoe.

A cement bond log (CBL) will be run from the production casing shoe to **TOP OF CEMENT** if the surface casing is set at  $\pm 366$  ft. or it will be run to **Surface** if the surface casing is set at  $\pm 220$  ft. and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The Vernal District Office shall be notified, during regular work hours (7:45 a.m.-4:30 p.m., Monday through Friday except holidays), at least 24 hours **prior** to spudding the well.

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

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

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 the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or 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 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (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 (b. 4).

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

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 on-lease 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 following initial installation 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.

In the event after-hours approval or notification is necessary, please contact one of the following individuals:

Wayne Bankert (435) 789-4170  
Petroleum Engineer

Ed Forsman (435) 789-7077  
Petroleum Engineer

Jerry Kenczka (435) 789-1190  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## 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.

## SURFACE CONDITIONS OF APPROVAL

The Ute Tribe Energy and Mineral Department is to be notified 48 hours in writing in advance of any construction activity. The Ute Tribal office days are Monday through Thursday. The Ute Tribe Energy and Minerals Department is to be notified in writing of any changes that are made to the original application and ROW. Approved changes will be provided in writing from the Ute Tribe. The Tribal Technician shall be notified when reserve pits are dug and prior to backfilling of reserve pits so that operations can be monitored.

During the construction of the wellsite the North Duck Creek 100-22 well is to be monitored by a qualified Archaeologist accompanied by a Tribal Technician.

Thirty foot wide Rights-Of-Way (ROWs) corridor shall be granted for the following:

Access roads which shall have constructed travel width limited to 18 feet, except as granted for sharp curves or intersections or where deep cuts are required for road construction. The new access road will be about 851 feet in length and existing roads would be upgraded to serve the production operations. Diversion ditches and Culverts will be installed or extended where required to improve the existing and proposed roads. These improvements will be made within the approved Right-of-Way.

A surface steel production flowline is planned for this project. Traffic will be restricted along the flowline right of way so that it will not be used as an access road for the well pad..

Surface pipelines will be constructed to lay on the soil surface, and the ROW for the pipeline will not be bladed or cleared of vegetation unless specific written authorization is given from the BIA and Ute Tribal Energy and Minerals Department. The line shall either be constructed on the road and then lifted from the road to its intended location paralleling the road, or it shall be welded in place at a welding station located at the wellsite or on roads near the flowline right of way and then dragged into place with a suitable piece of equipment so it will not destroy the natural vegetation. The 9880 foot long route for the flowline is indicated in the APD on Map D. The pipeline proposed for this well does not parallel or share corridors with the new access road.

Buried flowlines shall be a minimum of three feet below the surface. After the construction of the pipeline is completed the disturbed area of the ROW shall be contoured to blend into the natural landscape, and it shall be reseeded with desirable vegetation. Between September 15 and November 1 of the year following pipeline construction of the buried line all disturbed areas shall be reseeded with perennial vegetation according to BIA, or to Ute Tribe specifications.

As necessary gravel fill will be used for production facilities and access roads. When wellsites are plugged and abandoned gravel will be reclaimed according to BIA specifications.

EOG Resources will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have access permits prior to construction.

EOG employees, representatives, and subcontractors shall not carry firearms on their person or in their vehicles while working on the Uintah and Ouray Indian Reservation.

EOG employees and/or authorized personnel (subcontractors) in the field will have applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.

All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in report, and to the existing roadways and/or evaluated access routes.

All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.

The Ute Tribe Energy & Mineral Department shall be consulted if cultural remains (including paleontology fossils) from subsurface deposits are exposed or identified during construction or if the need arises to relocate or otherwise alter the location of the construction area. Prior to commencing constructing in the area where cultural resources are exposed the operator must obtain authorization from the BIA and the Ute Tribal Department of Cultural Rights and Protection.

Before the site is abandoned, the company will be required to restore the well site and ROWs to near their original state. The disturbed areas will be reseeded with desirable perennial vegetation.

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

Reserve pits will be lined with impervious synthetic liners. Liners will be constructed to lay under the mud tanks, and they will be reinforced to prevent the liner from developing holes where fluids flow from the mud tank into the reserve pit. Liners will be at least 10-mil thick minimum. Pits will be fenced and fences will be maintained as described in the APD. Prior to backfilling the reserve pit all fluids will be pumped from the pit into trucks and hauled to approved disposal sites. When the reserve pits are backfilled the surplus oil and mud, etc will be buried a minimum of 3.0 feet below the surface of the soil.

The flare pit will be adjacent to the reserve pit.

A closed production system will be used. Production fluids will be contained in leak proof tanks. All production fluids will be disposed of at approved disposal sites. The indiscriminate dumping of production fluids on roads, wellsites or other areas will not be allowed.

Upon completion of the project approved under this Application for Permit to Drill and Right-of-way, the Ute Tribe Energy & Minerals Resources Department will be notified by EOG Resources so that a Tribal Technician can verify Affidavit of Completion's.

**CONFIDENTIAL**

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EOG RESOURCES

Well Name: N DUCK CREEK 100-22

Api No. 43-047-33402 Lease Type: FEDERAL

Section 22 Township 8S Range 21E County UINTAH

Drilling Contractor BILL MARTIN RIG # AIR

SPUDDED:

Date 11/05/1999

Time 5:00 PM

How DRY

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

Reported by ED TROTTER

Telephone # 1-435-789-4120

Date 11/09/1999 Signed: CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0115  
Expires September 30, 1990

**CONFIDENTIAL**

**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 <input type="checkbox"/> Oil WELL <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. <i>U 68218</i>
2. Name of Operator <i>EOG Resources, Inc.</i>	6. If Indian, Allottee or Tribe Name <i>UTE TRIBAL LAND</i>
3. Address and Telephone No. <i>P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331</i>	7. If Unit or C.A., Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <i>660' FSL - 720' FEL (SE/SE) SECTION 22, T8S, R21E</i>	8. Well Name and No. <i>NORTH DUCK CREEK 100-22</i>
	9. API Well No. <i>43-047-33402</i>
	10. Field and Pool or Exploratory Area <i>NORTH DUCK CREEK/WASATCH</i>
	11. County State <i>UINTAH, UTAH</i>

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

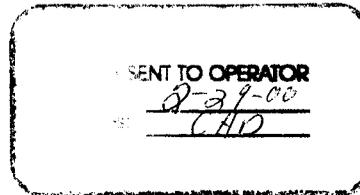
TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT	<input checked="" type="checkbox"/> ABANDONMENT
<input type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> RECOMPLETION
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> PLUGGING BACK
	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> ALTERING CASING
	<input type="checkbox"/> OTHER
	<input 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. proposes to plug and abandon the subject well as follows:

1. Set CIBP @ 6240'±. Spot 100' of Class "G" cement on top of CIBP.
2. Spot 200' cement plug from 5900' to 5700'.
3. Perforate 2 squeeze holes @ 370'. Pump 110 sx Class "G" cement down 4-1/2" casing and out 4-1/2" x 8-5/8" annulus through perfs @ 330'.
4. Cut off casing 3' below ground level and install cap and marker.



\*NOTE: Enron will be using Nationwide Bond #NM 2308

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

SIGNED *Raty Carls* TITLE *Regulatory Analyst* DATE *2/18/2000*

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

**Accepted by the  
Utah 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 agency or officer of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**FOR RECORD ONLY**

*Federal Approval of this  
Action is Necessary*

DIVISION OF OIL, GAS AND MINING  
 ENTITY ACTION FORM - FORM 6

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

OPERATOR ACCT. NO. 119550

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	12659	43-047-33406	NORTH CHAPITA 106-32	SEBW	32	88	22E	UINTAH	10/29/99	
WELL 1 COMMENTS: 991130 entity added, KDR											
A	99999	12660	43-047-33273	FEDERAL 8-34-8-21	SENE	34	8S	21E	UINTAH	11/01/99	
WELL 2 COMMENTS: 991130 entity added, KDR											
A	99999	12661	43-047-33402	N. DUCK CREEK 100-22	SESE	22	8S	21E	UINTAH	11/05/99	
WELL 3 COMMENTS: 991130 entity added, KDR											
B	4905								UINTAH		
WELL 4 COMMENTS:											
B	4905								UINTAH		
WELL 5 COMMENTS:											

NO401

- ACTION 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 COMMENTS section to explain why each Action Code was selected.

(3/89)

Katy Carlson  
 Signature  
 REGULATORY ANALYST 11/19/99  
 Title Date  
 Phone No. (307) 276-3331

**CONFIDENTIAL**  
Expires August 31, 1983

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
**U 68218**  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**UTE TRIBAL LAND**  
7. UNIT AGREEMENT NAME

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

8. FARM OR LEASE NAME  
**NORTH DUCK CREEK**

1a. TYPE OF WELL:  
b. TYPE OF COMPLETION:  
NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF.RES.  OTHER   
OIL WELL  GAS WELL  DRY  OTHER

9. WELL NO.  
**100-22**  
10. FIELD AND POOL, OR WILDCAT  
**STAGECOACH**  
11. SEC., T., R., M., OR BLOCK AND SURVEY

2. NAME OF OPERATOR  
**EOG Resources, Inc.**

SECTION 22, T8S, R21E

3. ADDRESS OF OPERATOR  
**P.O. BOX 250 BIG PINEY, WYOMING 83113**

12. COUNTY OR PARISH  
**UINTAH, UTAH**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **066 FSL 0920 FEL**  
At top prod. interval reported below **SAME**  
At total depth **SAME**

14. PERMIT NO.  
**43-047-33402**  
DATE PERMIT ISSUED  
**10/14/99**

15. DATE SPUNDED **11/05/99** 16. DATE T.D. REACHED **11/24/99** 17. DATE COMPL. (Ready to prod.) **P&A'D 7/06/2000** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* **4816' KB** 19. ELEV. CASING HEAD **4801' PREP. GL.**

20. TOTAL DEPTH, MD & TVD **7410'** 21. PLUG, BACK T.D., MD & TVD **7392'** 22. IF MULTIPLE COMPLETIONS, HOW MANY? **1** 23. ROTARY TOOLS **ROTARY** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*  
**P&A'D** 25. WAS DIRECTIONAL SURVEY MADE?  
**NO**

26. TYPE ELECTRIC AND OTHER LOGS RUN **Dipole Sonic Imager, Compensated Neutron, GR, Dipole Sonic Imager, Compensated Neutron, Log Quality Control, Cement Bond Log, Collar Locator, GR** 27. WAS WELL CORED?  
**NO**

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.0# J-55	283'	12-1/4"	142 sx Class "G" cement.	NONE
4-1/2"	10.5# J-55	7408'	7-7/8"	400 sx Hi-Lift & 800 sx 50/50 Pozmix.	NONE

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	6330'	

31. PERFORATION RECORD (Interval, size and number)  
**Wasatch P-8 6290-98' w/3 SPF**

32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6290-6298'	14,645 gals gelled water & 62,000# 20/40 sand.

**RECEIVED**  
**JUL 14 2000**  
**DIVISION OF OIL, GAS AND MINING**

33.\* PRODUCTION  
DATE FIRST PRODUCTION **P&A'D 7/06/2000** PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  
DATE OF TEST **P&A'D 7/06/2000** HOURS TESTED **CHOKE SIZE** **PROD'N FOR** **OIL-BBL.** **GAS-MCF.** **WATER-BBL.** **GAS-OIL RATIO**  
FLOW, TUBING PRESS. **CASING PRESSURE** **CALCULATED** **OIL-BBL.** **GAS-MCF.** **WATER-BBL.** **OIL GRAVITY-AP1 (CORR.)**

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.  
SIGNED *Raty Carls* TITLE Regulatory Analyst DATE 7/12/2000

\* (See Instructions and Spaces for Additional Data 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

# INSTRUCTIONS

- General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
- Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
- Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
- Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
- Item 29:** *ent*: Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.
- Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 25 U.S.C. et. seq., 43 CFR 31.60

**PRINCIPLE PURPOSE:** The information is to be used to evaluate the actual operations performed in the drilling of an oil or gas well on a Federal or Indian lease.

**ROUTINE USES:** (1) Evaluate the equipment and procedures used during the drilling of the well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and producing oil and gas on Federal and Indian oil and gas leases.

This information will be used to analyze operations and compare equipment and procedures actually used with the proposals applied for.

Response to this request is mandatory once an oil or gas well is drilled.

SUMMARY OF POROUS ZONES: (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):				38. GEOLOGIC MARKERS		
				TOP		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Green River	2237'	
				Base "M" Marker	5315'	
				"N" Limestone	5543'	
				Wasatch		
				Peter's Point	5792'	
				P-4	5979'	
				P-6	6086'	
				P-8	6283'	
				Chapita Wells	6505'	
				C-13	6995'	
				Buck Canyon	7300'	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FOR APPROVED  
Budget Bureau No. 1004-0195  
Expires September 30, 1990

**CONFIDENTIAL**

**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 <input type="checkbox"/> Oil WELL <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Designation and Serial No. <i>U 68218</i>
2. Name of Operator <i>EOG Resources, Inc.</i>		6. If Indian, Allottee or Tribe Name <i>UTE TRIBAL LAND</i>
3. Address and Telephone No. <i>P.O. BOX 250, BIG PINEY, WY 83113 (307) 276-3331</i>		7. If Unit or C.A., Agreement Designation
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <i>660' FSL - 720' FEL (SE/SE) SECTION 22, T8S, R21E</i>		8. Well Name and No. <i>NORTH DUCK CREEK 100-22</i>
		9. API Well No. <i>43-047-33402</i>
		10. Field and Pool or Exploratory Area <i>STAGECOACH/WASATCH</i>
		11. County State <i>UINTAH, UTAH</i>

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 checked="" 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"/> CASING REPAIR
	<input type="checkbox"/> ALTERING CASING
	<input 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

(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. plugged and abandoned the subject well as follows:

1. Set CIBP @ 6240'±. Spotted 100' of Class "G" cement on top of CIBP.
2. Spotted 4 bbls Class "G" cement from 2850' to 2650'.
3. Perforated 2 squeeze holes @ 370'. Pump 200 sx Class "G" cement down 4-1/2" casing.
4. Perforated @ 277'. Pumped 100 sx Class "G" cement. Cement returns to surface inside 4-1/2" casing and 4-1/2" x 8-5/8" annulus.
5. Cut off casing 3' below ground level and installed cap and dry hole marker 7/06/2000. Plugging witnessed by Alan Walker, BLM representative.

**RECEIVED**

JUL 14 2000

DIVISION OF  
OIL, GAS AND MINING

\*NOTE: Enron will be using Nationwide Bond #NM 2308

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

SIGNED

*Taty Carlso*

TITLE *Regulatory Analyst*

DATE *7/12/2000*

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**AMENDED**

**UNITED STATES**

**8/01/2000**

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

5. LEASE DESIGNATION AND SERIAL NO.

U 68218

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

UTE TRIBAL LAND

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NORTH DUCK CREEK

9. WELL NO.

100-22

10. FIELD AND POOL, OR WILDCAT

STAGECOACH

11. SECTION, T., R., OR BLOCK AND SURVEY

SECTION 22, T8S, R21E

12. COUNTY OR PARISH

UINTAH,

13. STATE

UTAH

14. PERMIT NO.

43-047-33402

DATE PERMIT ISSUED

10/14/99

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

1a. TYPE OF WELL:

OIL WELL  GAS WELL  DRY  OTHER

b. TYPE OF COMPLETION:

NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DIFF. RES.  OTHER

2. NAME OF OPERATOR

EOG Resources, Inc.

3. ADDRESS OF OPERATOR

P.O. BOX 250 BIG PINEY, WYOMING 831 PERIOD

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 660' FSL - 720' FEL (SE/SE)

At top prod. interval reported below SAME

At total depth SAME

**CONFIDENTIAL**  
**EXPIRED**  
ON 8-6-01

15. DATE SPOUDED

11/05/99

16. DATE T.D. REACHED

11/24/99

17. DATE COMPL. (Ready to prod.)

P&A'D 7/06/2000

18. ELEVATIONS (DF, RKB, RT, GBS, etc.)\*

4816' KB

19. ELEV. CASINGHEAD

4801' PREP. GL.

20. TOTAL DEPTH, MD & TVD

7410'

21. PLUG, BACK T.D., MD & TVD

7392'

22. IF MULTIPLE COMPLETIONS, HOW MANY?

1

23. ROTARY TOOLS

ROTARY

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*

P&A'D

25. WAS DIRECTIONAL SURVEY MADE?

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dipole Sonic Imager, Compensated Neutron, GR, Dipole Sonic Imager, Compensated Neutron, Log Quality Control, Cement Bond Log, Collar Locator, GR

27. WAS WELL CORED?

NO

28.

**CASING RECORD (Report all strings set in well)**

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.0# J-55	283'	12-1/4"	142 sx Class "G" cement.	NONE
4-1/2"	10.5# J-55	7408'	7-7/8"	400 sx Hi-Lift & 800 sx 50/50 Pozmix.	NONE

29.

**LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)

30.

**TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6330'	

31. PERFORATION RECORD (Interval, size and number)

Wasatch P-8 6290-98' w/3 SPF

32.

**ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.**

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6290-6298'	14,645 gals gelled water & 62,000# 20/40 sand.

33.\*

**PRODUCTION**

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	WELL STATUS (Producing or shut-in)					
P&A'D 7/06/2000							
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR	OIL-BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL-BBL.	GAS-MCF.	WATER-BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Dale Carlson TITLE Regulatory Analyst DATE 7/12/2000

\*(See Instructions and Spaces for Additional Data on Reverse Side)

its jurisdiction.

## INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## PRIVACY ACT

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 25 U.S.C. et. seq., 43 CFR 31.60

**PRINCIPLE PURPOSE:** The information is to be used to evaluate the actual operations performed in the drilling of an oil or gas well on a Federal or Indian lease.

**ROUTINE USES:** (1) Evaluate the equipment and procedures used during the drilling of the well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(3) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this report and disclosure of its information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected to allow evaluation of the technical, safety, and environmental factors involved with drilling and producing oil and gas on Federal and Indian oil and gas leases.

This information will be used to analyze operations and compare equipment and procedures actually used with the proposals applied for.

Response to this request is mandatory once an oil or gas well is drilled.

SUMMARY OF POROUS ZONES: (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):				38. GEOLOGIC MARKERS		
				TOP		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Green River	2237'	
				Base "M" Marker	5315'	
				"N" Limestone	5543'	
				Wasatch		
				Peter's Point	5792'	
				P-4	5979'	
				P-6	6086'	
				P-8	6283'	
				Chapita Wells	6505'	
				C-13	6995'	
				Buck Canyon	7300'	



EOG Resources Inc.  
1540 Balco Drive  
P.O. Box 250  
Big Piney, WY 83113  
(307) 276-3331  
Fax (307) 276-3335

CONFIDENTIAL

October 5, 2000

RECEIVED

FAXED (435) 789 3903

OCT 11 2000

Ms. Jan  
Schlumberger Wireline & Testing

DIVISION OF  
OIL, GAS AND MINING

The Utah Division of Oil, Gas & Mining has not received the following logs for these wells.

North Duck Creek; 107-25: Cement Bond Log. *Logs filed in log file.*

North Duck Creek 100-22: Cement Bond Log. *Logs filed in log file.*  
*FOSS R31E SEC 22 43-049-33402*

Thanks

Katy