

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

May 30, 2002

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

RE: APPLICATION FOR PERMIT TO DRILL  
NORTH DUCK CREEK 213-26  
SE/SW, SEC. 26, T8S, R21E  
UINTAH COUNTY, UTAH  
LEASE NO.: U-9613  
UTE INDIAN 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

**RECEIVED**

JUN 03 2002

DIVISION OF  
OIL, GAS AND MINING

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

001

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. Lease designation and serial number <b>U-9613</b>
b. TYPE OF WELL Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. If Indian, Allottee or Tribe name <b>UTE INDIAN TRIBE</b>
2. Name of Operator <b>EOG RESOURCES, INC.</b>		7. Unit Agreement Name
3. Address and Telephone Number <b>P.O. BOX 1815, VERNAL, UT 84078 (435)789-0790</b>		8. Farm or lease name, well no. <b>NORTH DUCK CREEK 213-26</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>676' FSL &amp; 2081' FWL 4438445Y 40.08874 625979X SE/SW -109.52229</b>		9. API Well No. <b>NORTH DUCK CREEK 213-26</b>
At proposed prod. Zone		10. Field and pool, or wildcat <b>WASATCH Natural Buttes</b>
14. Distance in miles and direction from nearest town or post office <b>13.72 MILES SOUTHEAST OF OURAY, UTAH</b>	12. County or parish <b>UINTAH</b>	13. State <b>UTAH</b>
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) <b>676'</b>	16. No. of acres in lease <b>1920</b>	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.	19. Proposed depth <b>7200'</b>	20. Rotary or cable tools <b>ROTARY</b>
21. Elevations (show whether DF, RT, GR, etc.) <b>FEET GRADED GROUND</b>		22. Approx. date work will start <b>UPON APPROVAL</b>

23. PROPOSED CASING AND CEMENTING PROGRAM				QUANTITY OF CEMENT
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	
11"	8 5/8"	24#	200' - 220'	100-150 SX CLASS "G" + 2%
or 12 1/4"	9 5/8"	32.30#	200 - 220'	CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	4 1/2"	10.50#	7200'	50/50 POXMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

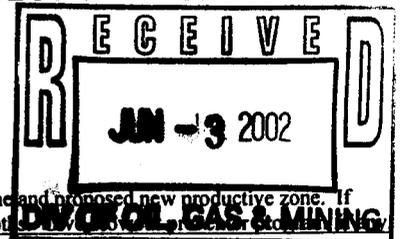
SEE ATTACHMENTS FOR:

- 8 POINT PLAN
- BOP SCHEMATIC
- SURFACE USE AND OPERATING PLAN
- LOCATION PLAT
- LOCATION LAYOUT
- TOPOGRAPHIC MAPS "A", "B", AND "C"
- GAS SALES PIPELINE—MAP "D"

CONFIDENTIAL

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

Pc: UTAH DIVISION OF OIL, GAS, AND MINING  
BUREAU OF INDIAN AFFAIRS



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 depth.

SIGNED *[Signature]* DATE 5-30-2002

(This space for Federal or State office use)

PERMIT NO. 43-047-34594 APPROVAL DATE \_\_\_\_\_

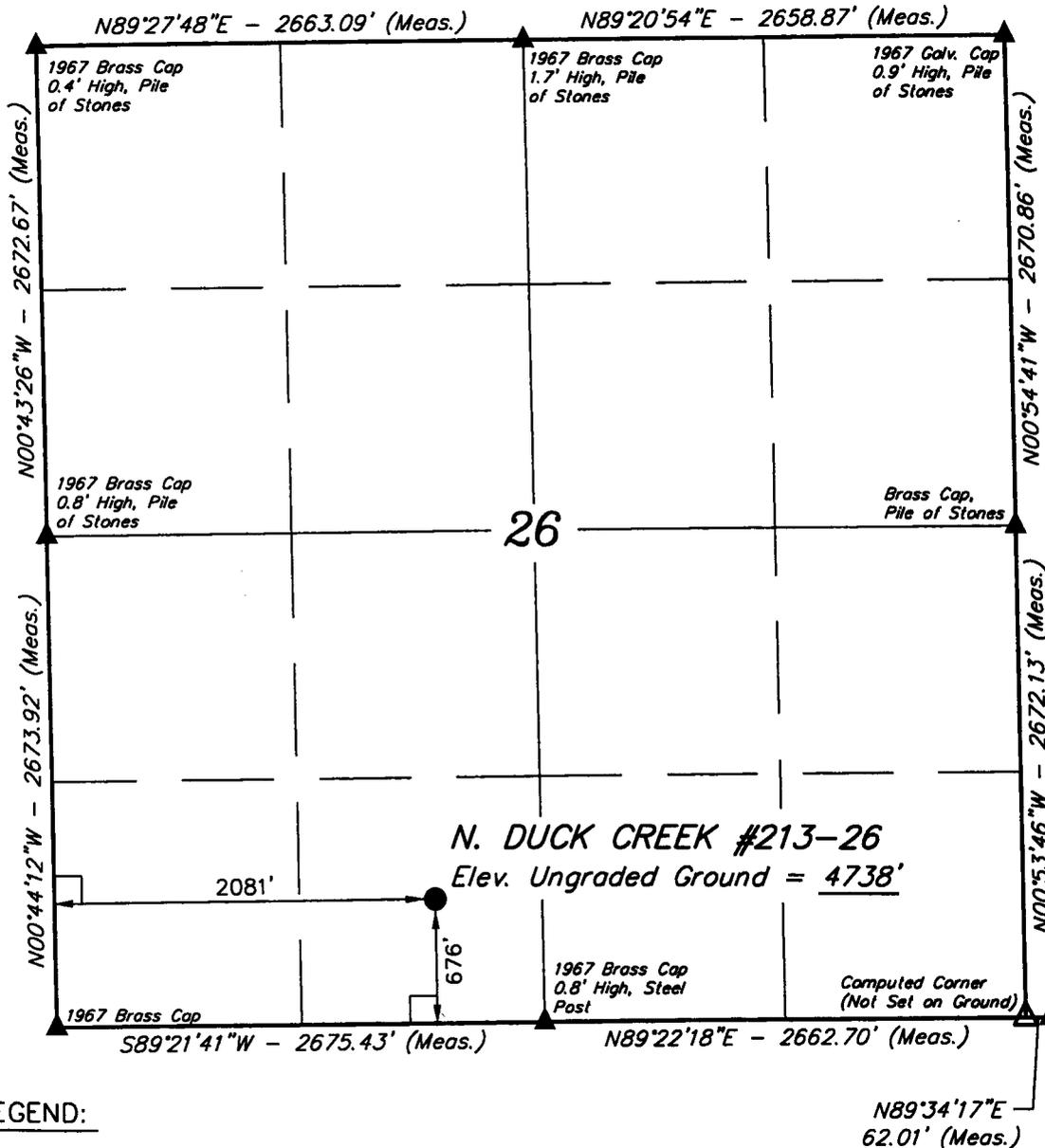
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

CONDITIONS OF APPROVAL, IF ANY:  
APPROVED BY *[Signature]* TITLE BRADLEY G. HILL RECLAMATION SPECIALIST III DATE 06-25-02

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

## EOG RESOURCES, INC.

Well location, N. DUCK CREEK #213-26, located as shown in the SE 1/4 SW 1/4 of Section 26, T8S, R21E, S.L.B.&M. Uintah County, Utah.

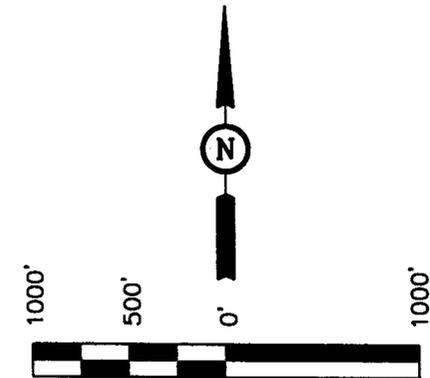


### BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 25, T8S, R21E, S.L.B.&M. TAKEN FROM THE RED WASH SW 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 4731 FEET.

### BASIS OF ELEVATION

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



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.

*Robert J. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = Computed Corner (Not Set On Ground)

(NAD 83)

LATITUDE = 40°05'21"  
 LONGITUDE = 109°31'23"

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 1-24-02	DATE DRAWN: 1-25-02
PARTY G.S. K.S. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN**  
**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

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

<b>FORMATION</b>	<b>DEPTH</b>	<b>TYPE ZONES</b>	<b>MAXIMUM PRESSURE</b>
Green River Oil Shale	2021		
Base of "M" Marker	5300		
Wasatch - Peters Point	5521	GAS	
Chapita Wells	6226	GAS	
Buck Canyon	6971	GAS	
EST. TD:	7200	Anticipated BHP	3100 PSI

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

**4. CASING PROGRAM:**

<b>HOLE SIZE</b>	<b>INTERVAL</b>	<b>LENGTH</b>	<b>SIZE</b>	<b>WEIGHT</b>	<b>GRADE</b>	<b>THREAD</b>	<b><u>MINIMUM SAFETY FACTOR</u></b>		
							<b>COLLAPSE</b>	<b>BURST</b>	<b>TENSILE</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' - 7200'	7200'	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.

**5. MUD PROGRAM**

<b><u>INTERVAL</u></b>	<b><u>MUD TYPE</u></b>
0' - 220'	Air
240' - 4000'	Air/Mist & Aerated Water
4000' - TD	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.

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**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).
- C. 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: DIPOLE SONIC: TD to 200' above "M" Marker, 5", 2", and half scale presentations  
COMP. NEUTRON-GR: TD to surface, 5", 2", and half scale presentations  
Stack with CCL/CBL Log run CBL to 200' above "M" Marker and 200' at cement top.

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.

**8. ABNORMAL CONDITIONS:**

None anticipated.

**9. STANDARD REQUIRED EQUIPMENT:**

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

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**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)

**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 213-26  
Lease Number: U-9613  
Location: 676' FSL & 2081' FWL, SE/SW, Sec. 26,  
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 - 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 13.72 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 0.3 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. Producing wells - 13\*

B. Shut in wells – 2\*

(\*See attached TOPO map “C” for location)

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

A. **ON WELL PAD**

1. 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.

2. Gas gathering lines - A 3” gathering line will be buried from dehy to the edge of the location.

B. **OFF WELL PAD**

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 3” OD steel above ground natural gas pipeline will be laid approximately 920’ from proposed location to a point in the SE/SW of Section 26, 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 3” 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 North side 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 a licensed trucking company.
- 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 the Uintah County landfill.
- 4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90

day period, the produced water will be contained in a tank on location and then disposed of at one of the following three locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).

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.

**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.

**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 Southwest corner of the location. The flare pit will be located downwind of the prevailing wind direction on the West 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 around Corner #6.

Access to the well pad will be from the South.

Corners #2, #6, & #8 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 cleanup.

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**

None

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

<u>Operations</u>		<u>Permitting</u>
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.

5-30-2007  
Date

Paul D. Jett  
Agent

**EOG RESOURCES, INC.**  
**N. DUCK CREEK #213-26**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 26, T8S, R21E, S.L.B.&M.

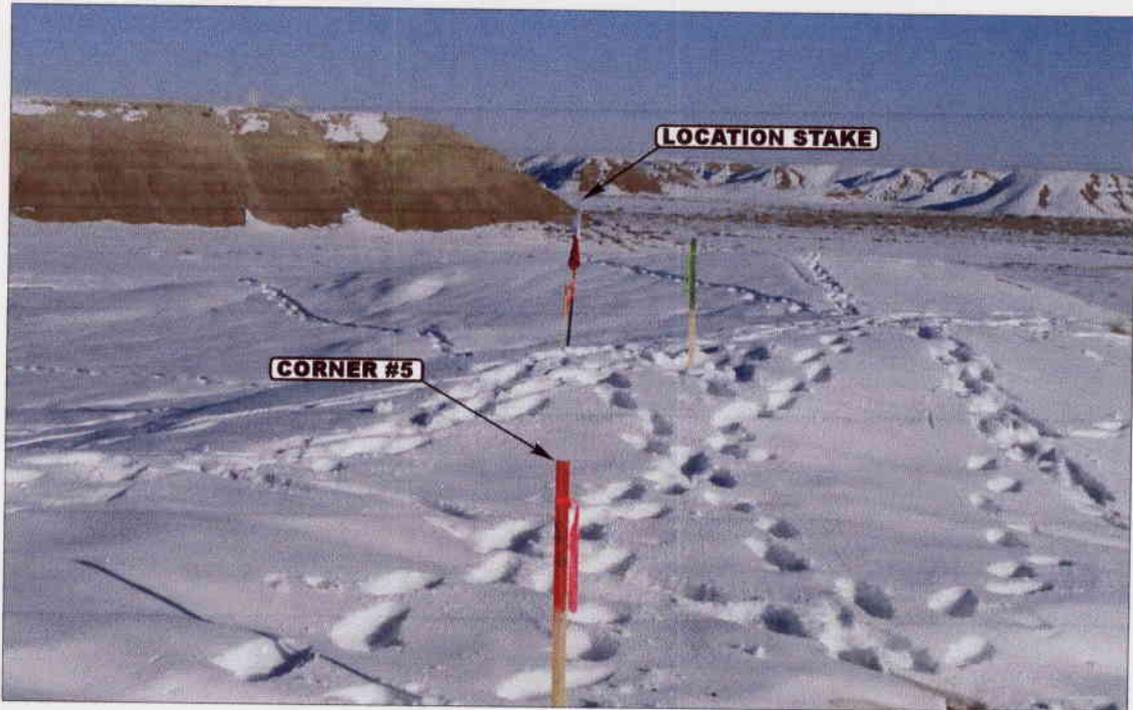


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

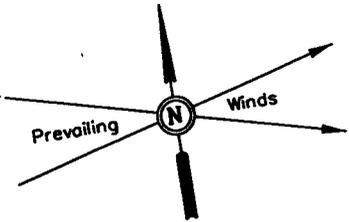
**UELS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>	<b>1</b>	<b>28</b>	<b>02</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: P.M.	REVISED: 00-00-00		

**EOG RESOURCES, INC.**

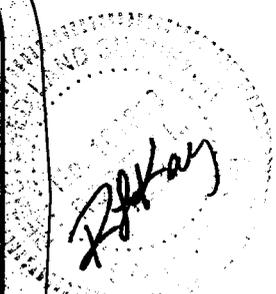
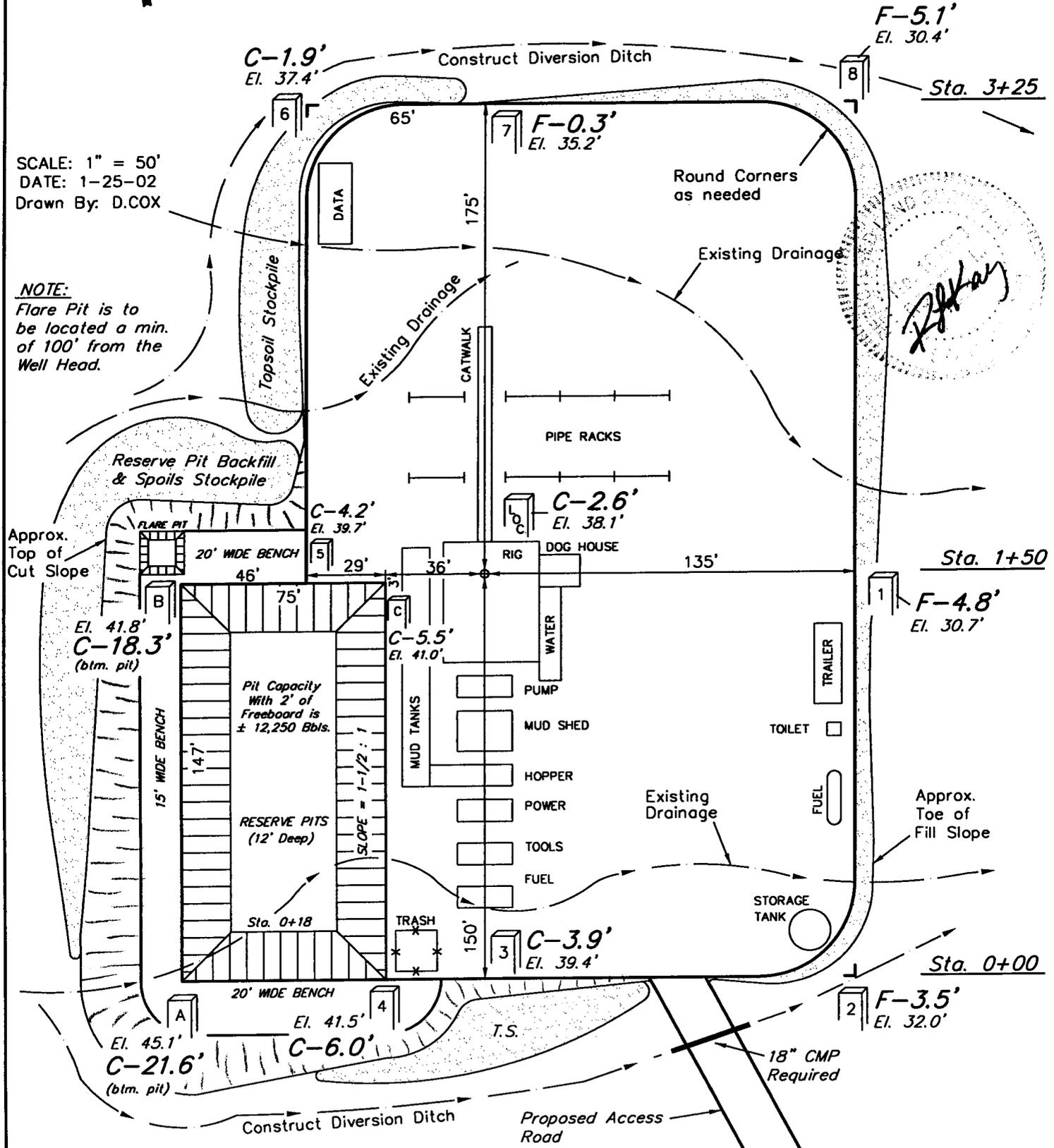
**LOCATION LAYOUT FOR**

**N. DUCK CREEK #213-26  
SECTION 26, T8S, R21E, S.L.B.&M.  
676' FSL 2081' FWL**



SCALE: 1" = 50'  
DATE: 1-25-02  
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 = 4738.1'  
Elev. Graded Ground at Location Stake = 4735.5'

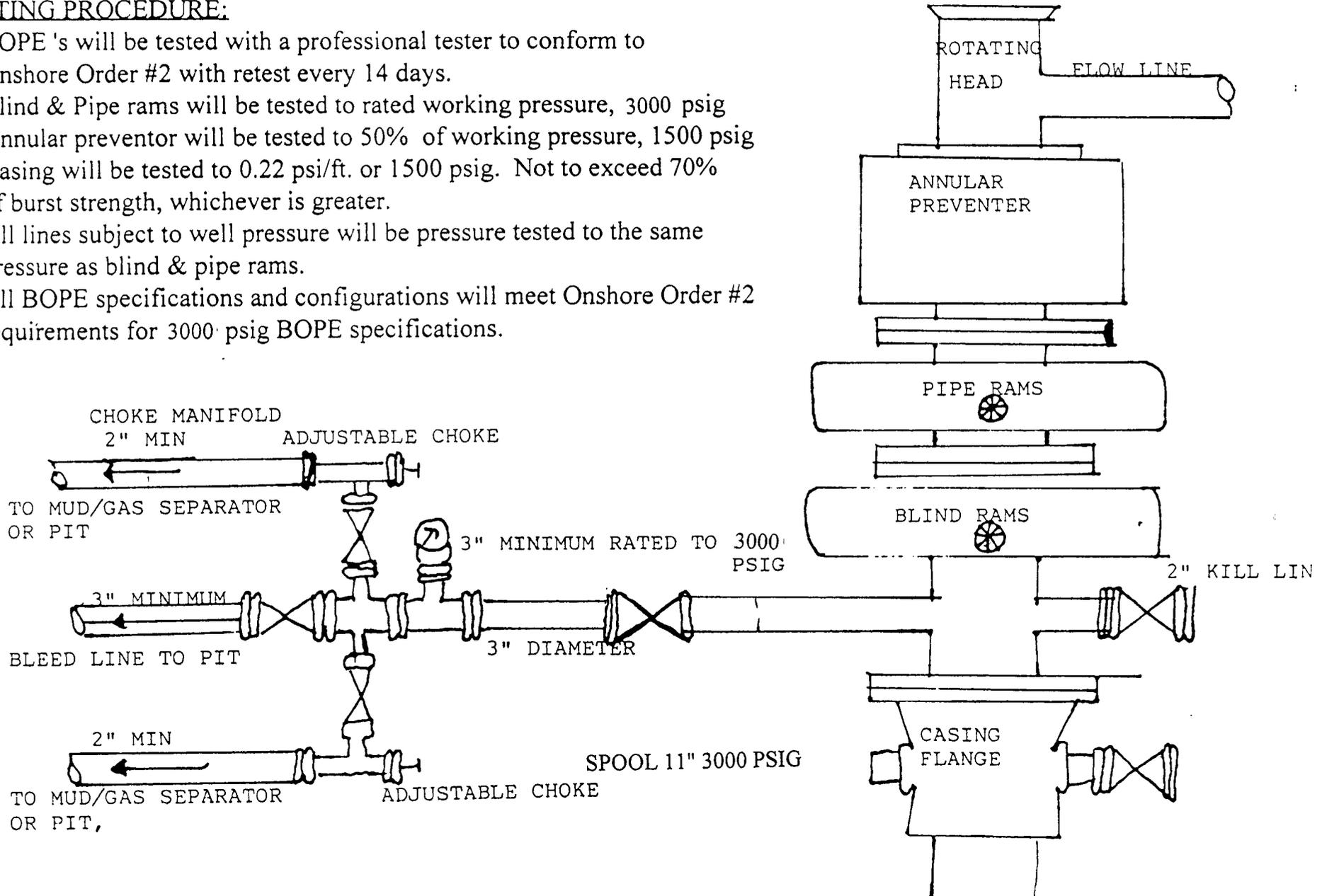
**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East • Vernal, Utah 84078 • (435) 789-1017

## 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.

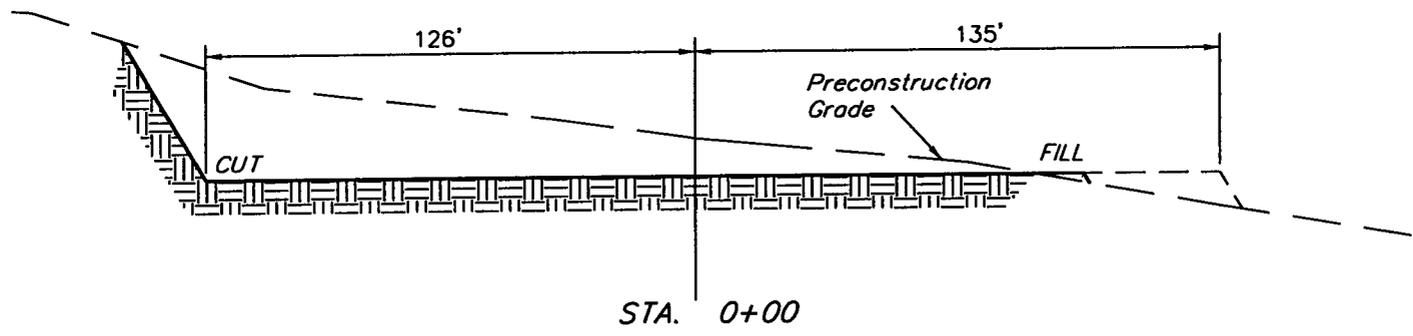
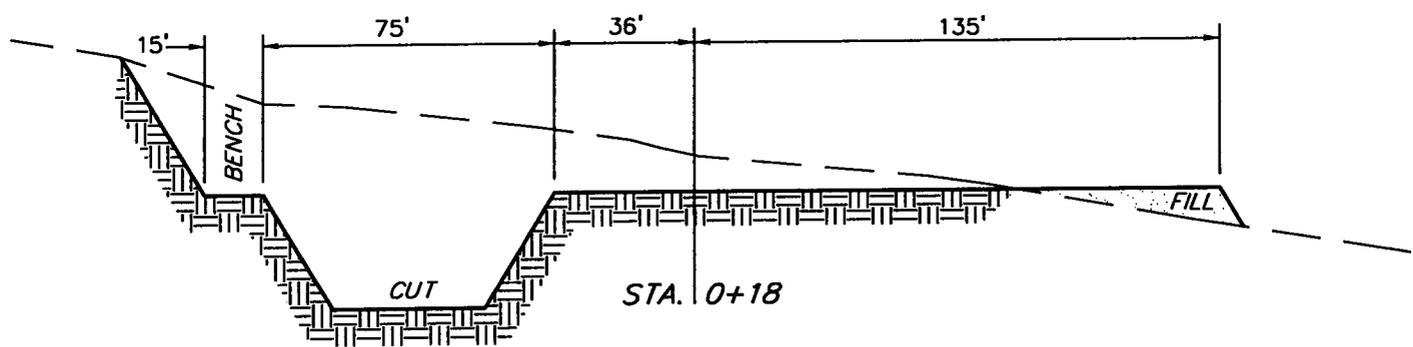
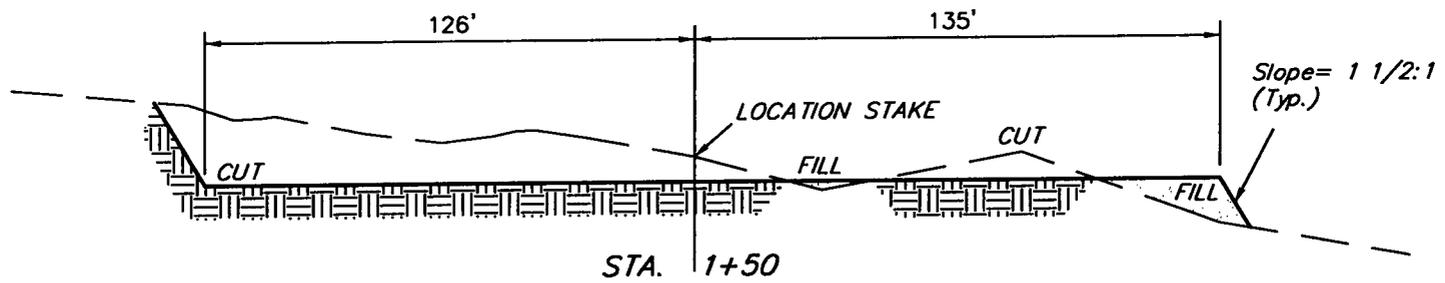
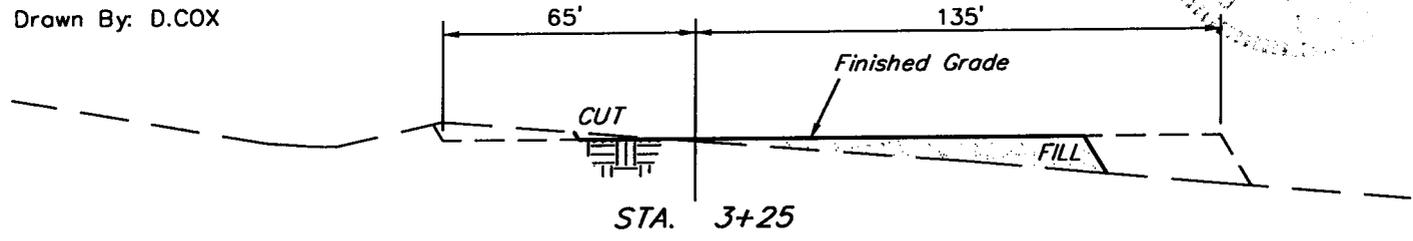


**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**N. DUCK CREEK #213-26**  
**SECTION 26, T8S, R21E, S.L.B.&M.**  
**676' FSL 2081' FWL**



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

DATE: 1-25-02  
 Drawn By: D.COX



**APPROXIMATE YARDAGES**

(12") Topsoil Stripping	= 2,860 Cu. Yds.	EXCESS MATERIAL AFTER 5% COMPACTION	= 4,520 Cu. Yds.
Remaining Location	= 8,910 Cu. Yds.	Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,520 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,770 CU.YDS.</b>	EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.
<b>FILL</b>	<b>= 6,890 CU.YDS.</b>		

R  
21  
E

R  
22  
E

**PROPOSED LOCATION:  
N. DUCK CREEK #213-26**

SEE TOPO "B"

OURAY 10.5 MI. +/-

0.8 MI. +/-

T8S  
T9S

**LEGEND:**

⊙ PROPOSED LOCATION



**EOG RESOURCES, INC.**

**N. DUCK CREEK #213-26  
SECTION 26, T8S, R21E, S.L.B.&M.  
676' FSL 2081' FWL**



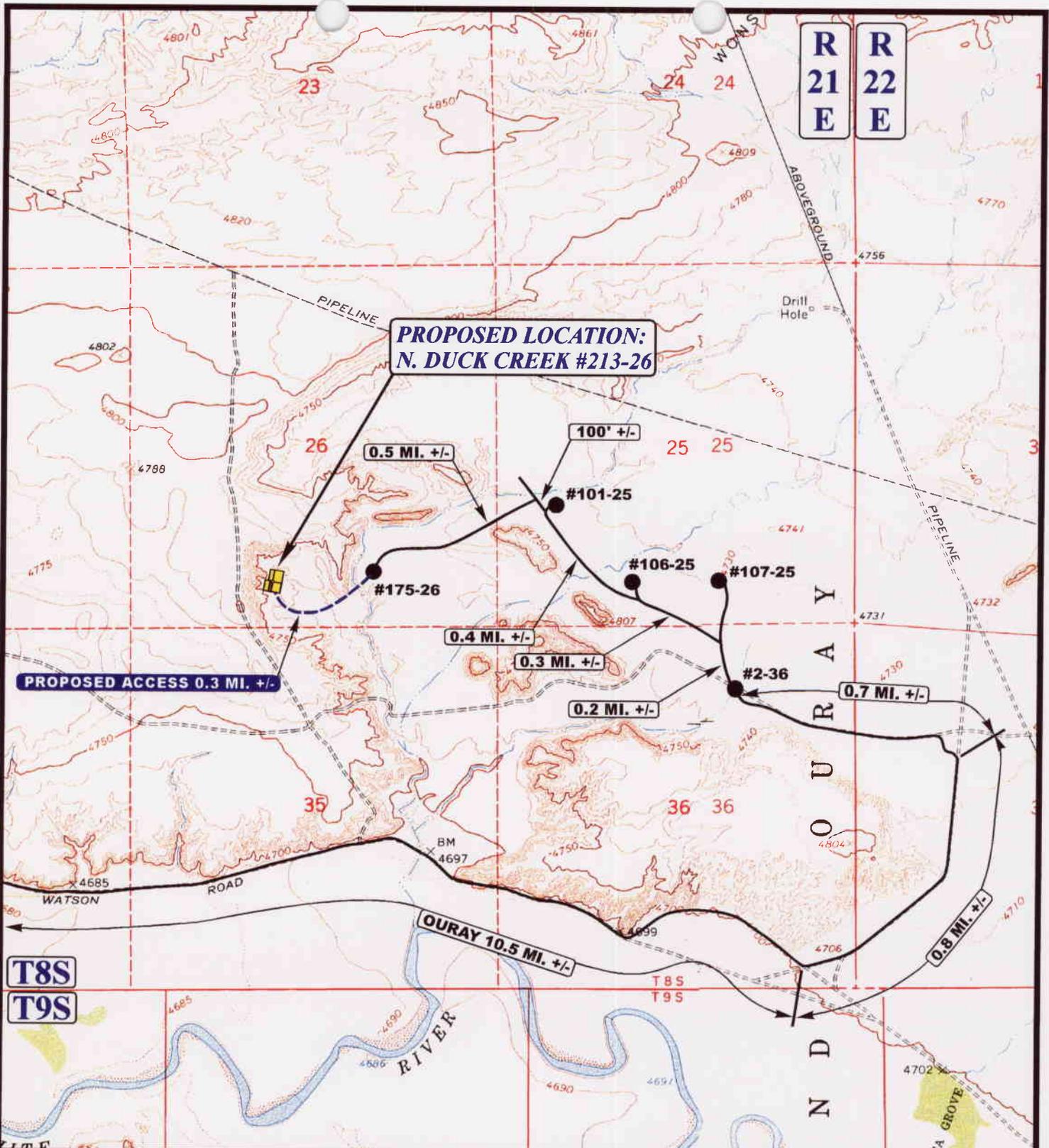
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
MAP

**1 28 02**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: P.M. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD

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

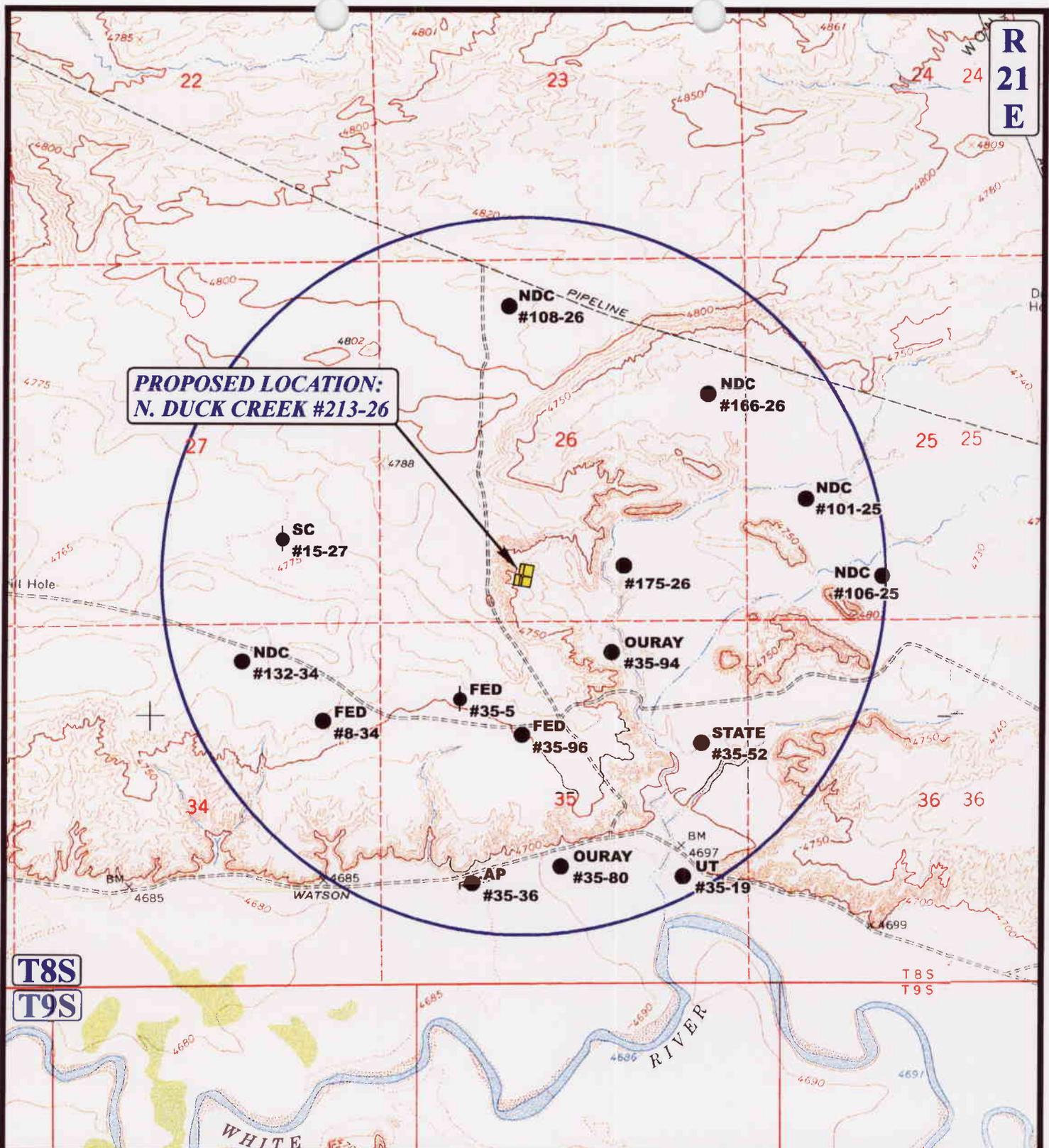


**EOG RESOURCES, INC.**  
**N. DUCK CREEK #213-26**  
**SECTION 26, T8S, R21E, S.L.B.&M.**  
**676' FSL 2081' FWL**

<b>TOPOGRAPHIC</b>	<b>1</b>	<b>28</b>	<b>02</b>
<b>MAP</b>	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: P.M.		REVISED: 00-00-00



**R  
21  
E**



**PROPOSED LOCATION:  
N. DUCK CREEK #213-26**

**T8S  
T9S**

**T8S  
T9S**

**LEGEND:**

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

**EOG RESOURCES, INC.**

**N. DUCK CREEK #213-26  
SECTION 26, T8S, R21E, S.L.B.&M.  
676' FSL 2081' FWL**

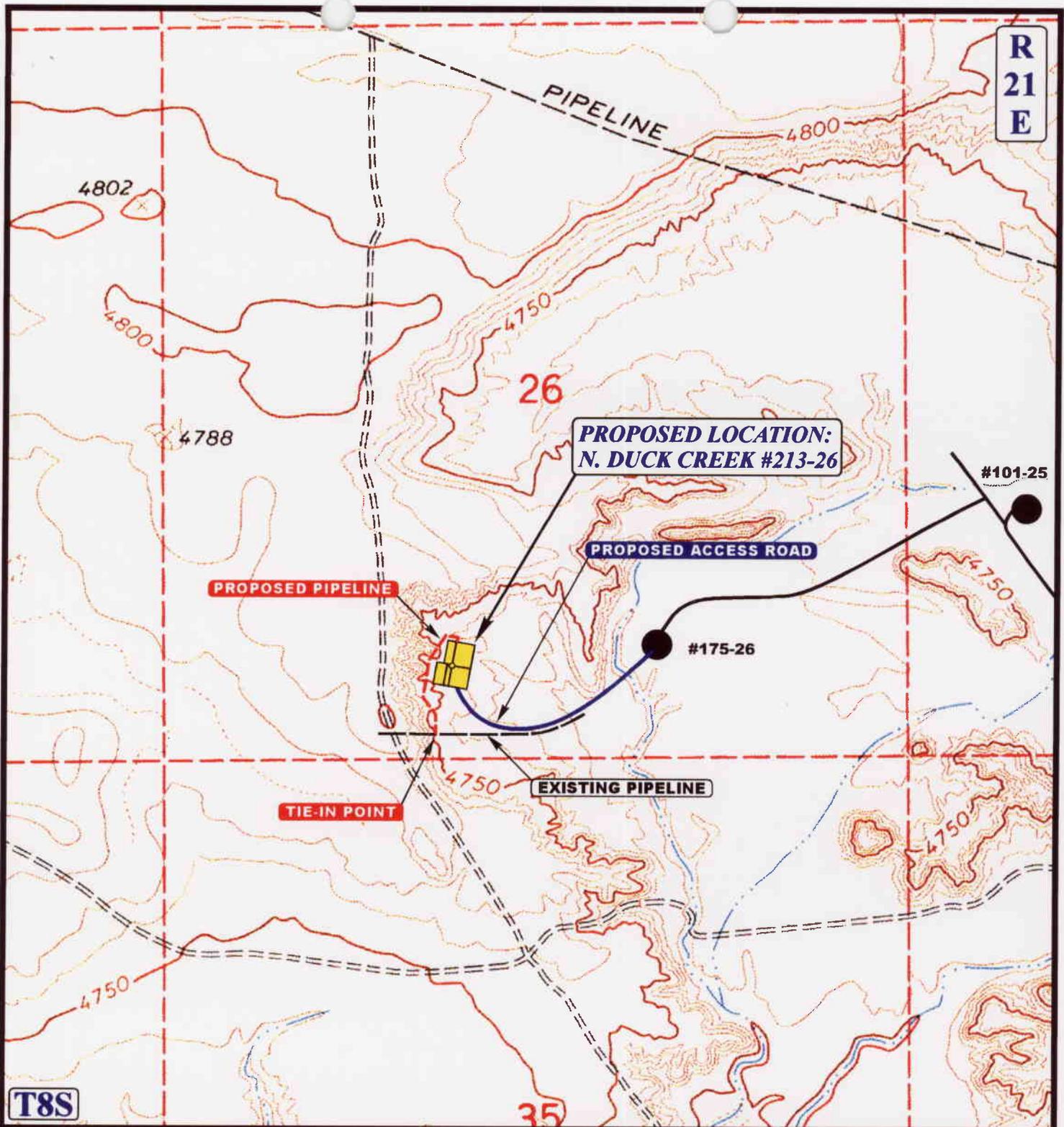


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP**  
1 28 02  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: P.M. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 920' +/-**

**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



**EOG RESOURCES, INC.**

**N. DUCK CREEK #213-26  
SECTION 26, T8S, R21E, S.L.B.&M.  
676' FSL 2081' FWL**



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

**TOPOGRAPHIC  
MAP**

<b>1</b>	<b>28</b>	<b>02</b>
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: P.M. REVISED: 00-00-00



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

002

APD RECEIVED: 06/03/2002

API NO. ASSIGNED: 43-047-34594

WELL NAME: N DUCK CREEK 213-26  
 OPERATOR: EOG RESOURCES INC ( N9550 )  
 CONTACT: ED TROTTER

PHONE NUMBER: 435-789-0790

PROPOSED LOCATION:

SESW 26 080S 210E  
 SURFACE: 0676 FSL 2081 FWL  
 BOTTOM: 0676 FSL 2081 FWL  
 UINTAH  
 NATURAL BUTTES ( 630 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: U-9613  
 SURFACE OWNER: 2 - Indian  
 PROPOSED FORMATION: WSTC

LATITUDE: 40.08876  
 LONGITUDE: 109.52229

RECEIVED AND/OR REVIEWED:

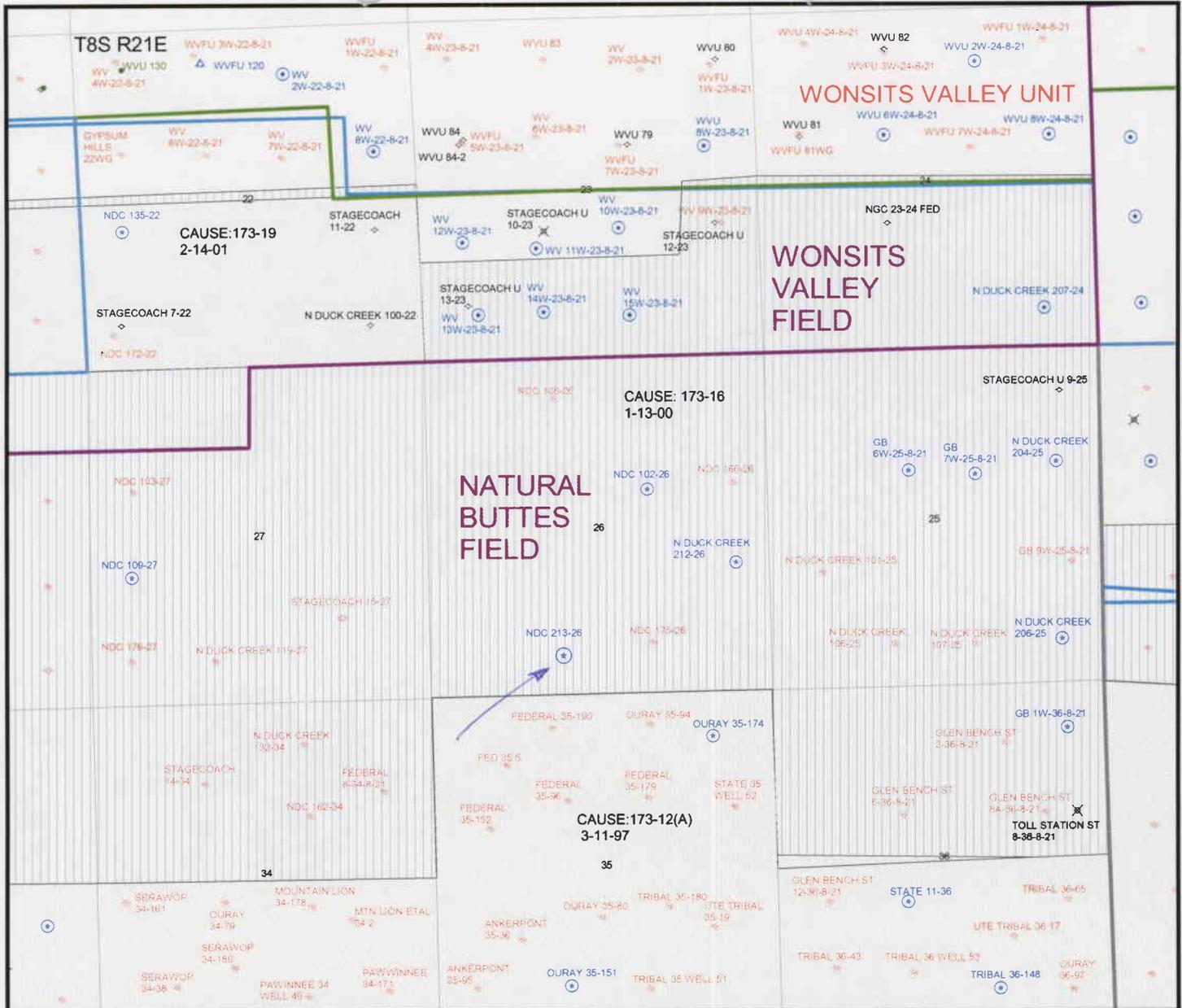
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. NM 2308 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-1501 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3.  
Unit \_\_\_\_\_
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 173-16 (8/320')  
Eff Date: 1-13-2000  
Siting: 400' Fr Unit boundary
- R649-3-11. Directional Drill

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

STIPULATIONS: 1- federal approved

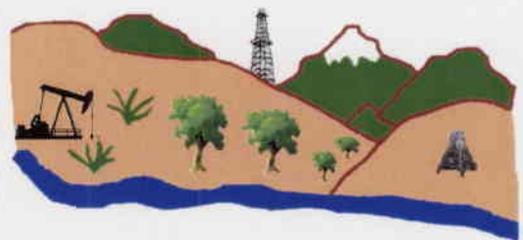


OPERATOR NAME: EOG RESOURCES (N9550)

Sec. 26 T8S R21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH SPACING: 173-16 / 8/320'  
1-13-2000



Field Status		Well Status		Unit Status	
	ABANDONED		Gas Injection		EXPLORATORY
	ACTIVE		Gas Storage		GAS STORAGE
	COMBINED		Location Abandoned		NF PP OIL
	INACTIVE		Location		NF SECONDARY
	PROPOSED		Plugged		PENDING
	STORAGE		Producing Gas		PI OIL
	TERMINATED		Producing Oil		PP GAS
	Township.shp		Shut-In Gas		PP GEOTHERML
	Sections		Shut-In Oil		PP OIL
			Temporarily Abandoned		SECONDARY
			Test Well		TERMINATED
			Water Injection		
			Water Supply		
			Water Disposal		

Utah Oil Gas and Mining



Prepared By: D. Mason  
Date: 19-June-2002

003



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)

June 25, 2002

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

Re: North Duck Creek 213-26 Well, 676' FSL, 2081' FWL, SE SW, Sec. 26, T. 8 South,  
R. 21 East, Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-34594.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza  
Associate Director

pb

Enclosures

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

**Operator:** EOG Resources, Inc.

**Well Name & Number** North Duck Creek 213-26

**API Number:** 43-047-34594

**Lease:** U-9613

**Location:** SE SW                      **Sec.** 26                      **T.** 8 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

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.

**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

5. Lease designation and serial number  
U-9613

6. If Indian, Allottee or Tribe name  
UTE INDIAN TRIBE

7. Unit Agreement Name

8. Farm or lease name, well no.  
NORTH DUCK CREEK 213-26

9. API Well No.  
NORTH DUCK CREEK 213-26

10. Field and pool, or wildcat  
WASATCH

11. Sec., T., R., M., or BLK. and survey or area  
SEC. 26, T8S, R21E

12. County or parish  
UINTAH

13. State  
UTAH

2. Name of Operator  
EOG RESOURCES, INC.

3. Address and Telephone Number  
P.O. BOX 1815, VERNAL, UT 84078 (435)789-0790

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface: 676' FSL & 2081' FWL SE/SW  
 At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office  
13.72 MILES SOUTHEAST OF OURAY, UTAH

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any)  
676'

16. No. of acres in lease  
1920

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.

19. Proposed depth  
7200'

20. Rotary or cable tools  
ROTARY

21. Elevations (show whether DF, RT, GR, etc.)  
FEET GRADED GROUND

22. Approx. date work will start  
UPON APPROVAL

23. 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%
or 12 1/4"	9 5/8"	32.30#	200 - 220'	CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"	4 1/2"	10.50#	7200'	50/50 POXMIX + 2% GEL + 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
- BOP SCHEMATIC
- SURFACE USE AND OPERATING PLAN
- LOCATION PLAT
- LOCATION LAYOUT
- TOPOGRAPHIC MAPS "A", "B", AND "C"
- GAS SALES PIPELINE—MAP "D"

**CONFIDENTIAL**

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

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DIVISION OF OIL, GAS AND MINING

Pc: UTAH DIVISION OF OIL, GAS, AND MINING  
BUREAU OF INDIAN AFFAIRS

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 5-30-2002

(This space for Federal or State office use)

**NOTICE OF APPROVAL**

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
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 08/25/2002

**CONDITIONS OF APPROVAL ATTACHED**

02MK0018A

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: EOG Resources Inc.

Well Name & Number: NORTH DUCK CREEK 213-26

API Number: 43-047-34594

Lease Number: U - 9613

Location: SESW Sec. 26 T.08S R. 21E

Agreement: N/A

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DIVISION OF  
OIL, GAS AND MINING

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.

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 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 shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint. Surface casing setting depths are based on ground level elevations only.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the Green River formation, identified at 2,218 ft. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

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OIL, GAS AND MINING

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.

A cement bond log (CBL) will be run from the production casing shoe to top of the cement 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. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the 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.

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.

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OIL, GAS AND MINING

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(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).

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 batter

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OIL, GAS AND MINING

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 and tested for meter accuracy 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 approvals are necessary, please contact one of the following individuals:

Ed Forsman, Petroleum Engineer	(435) 828-7874
Kirk Fleetwood, Petroleum Engineer	(435) 789-4170
BLM FAX Machine	(435) 781-4410

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DIVISION OF  
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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DIVISION OF  
OIL, GAS AND MINING

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

EOG Resources, Inc. (EOG) will assure the Ute Tribe that any/all contractors and subcontractors have acquired a current Tribal Business License and have updated "Access Permits" prior to construction. All EOG personnel, contractors and subcontractors will have these permits in their vehicles at all times. Companies that have not complied with this COA will be in violation of the Ute Tribal Business License Ordinance, and will be subject to fines and penalties.

EOG employees, representatives, and/or authorized personnel (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 approved applicable APDs and/or ROW permits/authorizations on their person(s) during all phases of construction.

EOG will notify the Ute Tribe and Bureau of Indian Affairs (BIA) in writing of any requested modification of APDs or Rights-Of Way (ROW). EOG shall receive written notification of authorization or denial of the requested modification. Without authorization, EOG will be subject to fines and penalties.

The Ute Tribe Energy & Minerals Department shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday. A Tribal Technician is to routinely monitor construction. EOG shall make arrangements with the Ute Energy & Minerals Department for all monitoring that will exceed regular working hours for Tribal Technicians. A qualified Archaeologist accompanied by a Tribal Technician will monitor any trenching required for the construction of the pipeline. EOG is to inform contractors to maintain construction of the pipelines within approved right of ways.

A corridor ROW, 30 feet wide and 207 feet long, shall be granted for the pipeline and an adjacent ROW, 30 feet wide and 1338 feet long, shall be granted for the access road. The constructed travel width of the access road will be limited to 18 feet. Upon authorization by the Ute Tribe Energy & Minerals Department, the road ROW may be wider where sharp curves; deep cuts and fills occur; or, where intersections with other roads are required. Road base gravel will be used where sandy soils make travel and access for drilling operations hazardous or difficult. Berms, diversion ditches, cattleguards and culverts will be constructed where required.

Upon completion of the pertinent APD and ROWs, EOG will notify the Ute Tribe Energy & Minerals Department for a Tribal Technician to verify the Affidavit of Completion. Upon completion of each pipeline in the corridor an adequate description of the pipeline will be filed with the Ute Tribe Energy & Minerals Department.

Production waters, oil, and other byproducts shall not be placed on access roads or the well pad.

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DIVISION OF  
OIL, GAS AND MINING

At any locations where the produced water is hauled for drilling purposes, the reserve pits must have adequate liners or clay soils and the produced water may not be injected down the annulus of a well location after drilling has been completed.

All vehicular traffic, personnel movement, construction and restoration operations will be confined to the areas examined and approved and to the existing roadways and/or evaluated access routes.

EOG will implement "Safety and Emergency Plan" and ensure plan compliance.

EOG shall stop construction activities and notify personnel from the Ute Tribe Energy & Minerals Department and BIA if cultural remains including paleontologic resources (vertebrate fossils) are exposed or identified during construction. The Ute Tribe Department of Cultural Rights and Protection and the BIA will provide mitigation measures prior to allowing construction.

EOG employees and/or authorized personnel (subcontractors) will not be allowed to collect artifacts and paleontologic fossils. No significant cultural resources shall be disturbed.

EOG will control noxious weeds on the well site and ROWs. EOG will be responsible for noxious weed control if weeds spread from the project area onto adjoining land.

Reserve pits will be lined with an impervious synthetic liner. A fence will be constructed around the reserve pit until it is backfilled. 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 feet below the surface of the soil.

A closed system will be used during production. This means that production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites.

Surface pipelines will be constructed to lay on the soil surface. The pipeline ROW will not be bladed or cleared of vegetation without authorization of the BIA. Surface pipelines shall be welded in place at well sites or on existing and proposed access roads and pulled into place with suitable equipment. Vehicles shall not use pipeline ROWs as access roads unless specifically authorized.

Buried pipelines shall be buried a minimum of 3 feet below the soil surface. After construction is completed the disturbed area shall be contoured to blend into the natural landscape and be reseeded between September 15 and November 1 of the year following construction with perennial vegetation seed mixture provided by the BIA or Ute Tribe.

Before the site is abandoned, EOG 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.

Soil erosion will be mitigated by reseeded all disturbed areas.

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AUG 27 2002

DIVISION OF  
OIL, GAS AND MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

005

**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.  
**U-9613**

6. If Indian, Allottee or Tribe Name  
**UTE INDIAN TRIBE**

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
**NORTH DUCK CREEK 213-26**

2. Name of Operator  
**EOG RESOURCES, INC.**

9. API Well No.  
**43-047-34594**

3. Address and Telephone No. **(435)789-4120**  
**P.O. BOX 1910, VERNAL, UT 84078**

10. Field and Pool, or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**676' FSL, 2081' FWL, SE/SW**  
**SECTION 26, T8S, R21E**

11. County or Parish, State  
**UINTAH COUNTY, 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"/> Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Recomplete
<input type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> New Construction	<input type="checkbox"/> Temporarily Abandon
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Other

13. Describe Proposed or Completed Operations (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 recomplate 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 recomplate in a new interval, a form 3160-4 shall be filed once testing is 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. requests authority to drill the subject well to an estimated TD of 12,500 feet. See attachments for revised drilling programs and BOP diagram.**

**Federal Approval of this Action is Necessary**

**Approved by the Utah Division of Oil, Gas and Mining**  
Date: 12-11-02  
By: [Signature]

**RECEIVED**  
DEC 09 2002  
DIV. OF OIL, GAS & MINING

**COPY SENT TO OPERATOR**  
Date: 12-11-02  
Initials: LHO

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed) **Ed Trotter**  
Signature [Signature]

Title \_\_\_\_\_ Agent \_\_\_\_\_  
Date 12-5-02

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
Office \_\_\_\_\_

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.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 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.

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

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

<b>FORMATION</b>	<b>DEPTH (KB)</b>
Green River Oil Shale	2021
Kicker Sand	3300
'M' Marker	5514
Wasatch Peters Point	5529
Chapita Wells	6234
Buck Canyon	6979
Island	8538
KMV Cret. Price River	8977
KMV Lower Price River	10,445
Sego	10,830
KMV Castlegate	10,933
Black Hawk Shale	11,200
KMV Black Hawk	11,400
Mancos	11,945
Mancos 'B'	12,216

EST. TD: 12,500

Anticipated BHP 5400 PSI

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

**4. 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>RATING FACTOR</u></b>		
							<b><u>COLLAPSE</u></b>	<b><u>BURST</u></b>	<b><u>TENSILE</u></b>
17 1/2"	0' - 500' +/- GL	500' +/-	13 3/8"	48.0 #	H-40	ST&C	770 PSI	1730 PSI	322,000#
12 1/4"	500' - 3150' +/- KB	3150' +/-	9 5/8"	36.0 #	J-55	ST&C	2020 PSI	3520 PSI	394,000#
7 7/8"	3150' - TD +/-KB	12,500' +/-	4 1/2"	11.6 #	HC P-110	LT&C	8650 PSI	10,690 PSI	279,000#

All casing will be new or inspected.

**5. Float Equipment:**

**Surface Hole Procedure (0-500' Below GL):**

Guide Shoe (Float shoe if required for weight capacity to run casing on spud rig)

Wooden wiper plug

Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

Have bottom of first collar tack-welded, guide shoe and top of first collar thread-locked.

**Intermediate Hole Procedure (500-3150'):**

Float Shoe (PDC drillable)

Float Collar (PDC drillable)

## EIGHT POINT PLAN

### NORTH DUCK CREEK 213-26 SE/SW, SEC. 26, T8S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH

Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)  
Have bottom of collar on jt. #1 tack-welded, thread-lock guide shoe and top of jt. #1.

#### Production Hole Procedure (3150'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Run marker collars at ±11500' and ±8300' (alter depth if needed to avoid placing across any potentially-productive intervals). Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above Island top (50 total). Thread lock

## 6. MUD PROGRAM

#### Surface Hole Procedure (0-500' below GL):

Air – Air Water Mist

#### Intermediate Hole Procedure (500-3150'):

Water (circulate through reserve pit) with Gel/LCM sweeps. 9.1-9.4 ppg mud with sufficient LCM content may be required to control Trona water flows from the Green River Formation.

#### Production Hole Procedure (3150'-TD):

3150'-5200' Water (circulate through reserve pit) with Gel/LCM sweeps. Should Kicker Sand present well control problems that cannot be handled by drilling through the gas buster and/or choke, close in pits and weight up as required with mud system set forth below from 5200-8100'.

5200'-8100' Close in mud system (if not already done so for the Kicker Sand) . Mud up with 6 ppb Diammonium Phosphate (DAP). Drill with DAP water and BARACAT for flocculation. Sweep hole periodically w/ Zeo-gel (or barolift) / LCM sweeps to clean the hole and seal loss zones. Add additional LCM as hole dictates. Mud weight and vis as needed, water loss – no control.

8100'-TD Discontinue BARACAT. Mud up with zeogel and PAC-R. Maintain 6 ppb DAP. Do not mix caustic or lime. Maintain 7.5-8.5 pH. Weight up system and add vis as hole conditions require. Run LCM sweep periodically to seal off loss zones or more often as hole dictates. Water loss: 12-15 cc's. Expect increasing gas shows requiring heavier mud weights from top of Island onward. Treat CO2 contamination with Desco and Baracor 95.

## 7. 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).

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

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.

**8. EVALUATION PROGRAM:**

Logs: Schlumberger Platform Express TD – Surface Casing, with Di-pole Sonic from TD to surface in 1 run. FMI and rotary sidewall cores as needed and based upon results from first log run.

**9. CEMENT PROGRAM:**

**Surface Hole Procedure (0-500' Below GL)**

**Lead:** 600 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

**Top Out:** Top out with Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Install 6' x 4' cellar ring, drill rat and mouse holes, RDMO Rocker spud rig.

**Intermediate Hole Procedure (500-3150')**

**Test proposed slurry with actual mix water in advance. (Schlumberger)**

**Lead:** 180 sx. (50% excess volume) Class 'G' lead cement (coverage from 2000-500') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 340 sx. (50% excess volume) Class 'G' cement (coverage from 3150-2000') with 10% D53 (Gypsum), 2% S1 (CaCl<sub>2</sub>) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft<sup>3</sup>/sk., 7.9 gps water.

Bump plug with fresh water. Do not pump over ½ of shoe volume past calculated displacement. Note and record final lift pressure and plug bump pressure.

**Production Hole Procedure (3150' to TD)**

**Test proposed slurry with actual mix water in advance (Schlumberger).**

Use openhole log caliper volume **plus 10% excess on lead slurry and 5% excess on middle and tail slurries** to calculate cement volumes. Attempt to bring lead cement 200' into base of intermediate casing, middle slurry to 400' above top of Wasatch and tail slurry over bottom 800' of production string. Reciprocate pipe ±45' while conditioning hole and cementing (unless well has had problems with lost

## EIGHT POINT PLAN

### NORTH DUCK CREEK 213-26 SE/SW, SEC. 26, T8S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH

circulation). Utilize all available pump rate and thin mud to below 40 vis prior to cementing. Set on bottom if it starts getting sticky. Bump plug 1000 psi over FPP (not to exceed 6000 psi) with fresh water. Utilize top plug only.

**Lead:** 35:65 Poz G w/ 4% D20 (Bentonite), 2% D174 (Extender), 0.2% D65 (Dispersant), 0.2% D46 (Antifoamer), 0.75% D112 (Fluid Loss Additive), 0.2% D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 13.0 ppg, 1.75 cu. ft./sk., 9.19 gps water.

**Middle:** 50:50 Poz G w/ 2% D20 (Bentonite), 0.1% D46 (Antifoamer), 0.15% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 cu. ft./sk., 5.9 gps water.

**Tail:** 50:50 Poz G w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

#### 10. ABNORMAL CONDITIONS:

##### INTERMEDIATE HOLE (500-3150')

**Potential Problems:** Possible lost circulation and minor amounts of gas will be present. Asphaltic, black oil and Trona water flows may be encountered in the Green River, beginning at 2021'. Monitor for and report any hydrocarbon shows and/or water zones. Although the Kicker Sand, containing potential water and gas flows requiring 10.0 ppg mud weights to control, is not predicted to come in until 3300' (150' below planned intermediate casing shoe), be alert for any volume gains in the intermediate hole in case it is encountered shallower than expected.

##### PRODUCTION HOLE (3150'-TD)

**Potential Problems:** Although none of the wells drilled to date in Section 26 reported any significant water or gas flows from the Kicker Sand (predicted to come in at 3300' in the NDC 213-26), several wells drilled in neighboring Section 25 did encounter considerable amounts of gas and water from this zone.

#### 11. STANDARD REQUIRED EQUIPMENT:

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

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**12. 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.

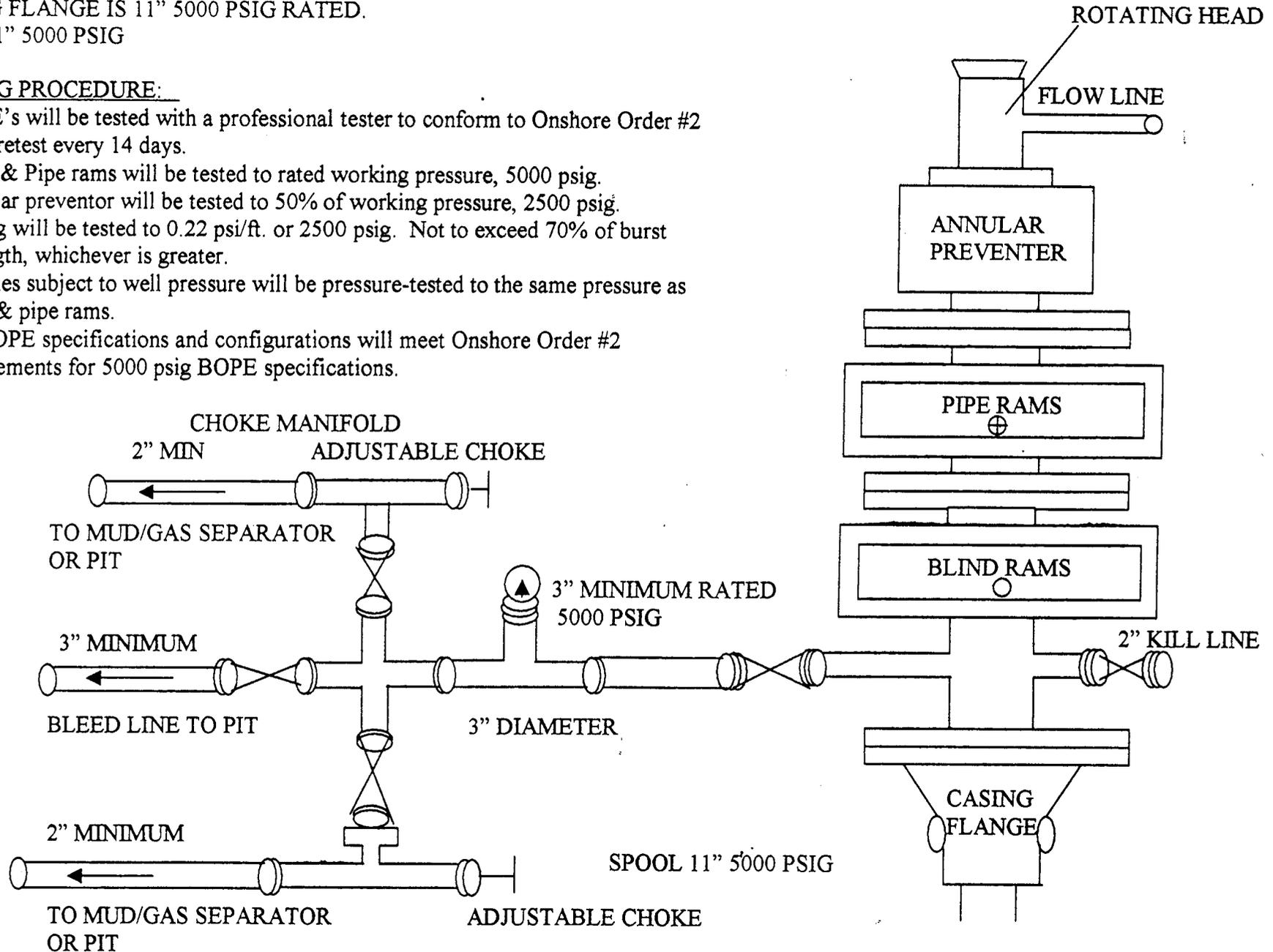
(Attachment: BOP Schematic Diagram)

### 5000 PSIG DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 5000 PSIG RATED.  
CASING FLANGE IS 11" 5000 PSIG RATED.  
BOPE 11" 5000 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, 5000 psig.
3. Annular preventor will be tested to 50% of working pressure, 2500 psig.
4. Casing will be tested to 0.22 psi/ft. or 2500 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 5000 psig BOPE specifications.



**DIVISION OF OIL, GAS AND MINING****SPUDDING INFORMATION**Name of Company: EOG RESOURCES INCWell Name: N DUCK CREEK 213-26Api No: 43-047-34594 Lease Type: FEDERALSection 26 Township 08S Range 21E County UINTAHDrilling Contractor STUBBS & STUBBS RIG# 111**SPUDDED:**Date 12/23/02Time 10:00 AMHow DRY**Drilling will commence:** \_\_\_\_\_Reported by BOBBY COOPERTelephone # 1-435-790-2172Date 12/24/2002 Signed: CHD

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OMB No. 1004-0135  
Expires January 31, 2004

**007** **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.  
**U-9613**

6. If Indian, Allottee or Tribe Name  
**UTE INDIAN TRIBE**

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well  
 Oil Well     Gas Well     Other

8. Well Name and No.  
**NORTH DUCK CREEK 213-26**

2. Name of Operator  
**EOG RESOURCES, INC.**

9. API Well No.  
**43-047-34594**

3. Address and Telephone No.    **(435)789-4120**  
**P.O. BOX 1910, VERNAL, UT 84078**

10. Field and Pool, or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
**676' FSL, 2081' FWL, SE/SW  
SECTION 26, T8S, R21E**

11. County or Parish, State  
**UINTAH COUNTY, 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"/> Acidize	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Recomplete
<input type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> New Construction	<input type="checkbox"/> Temporarily Abandon
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Deepen	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Other

13. Describe Proposed or Completed Operations (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 recompleate 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 recompleation in a new interval, a form 3160-4 shall be filed once testing is 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. requests authority to drill the subject well to an estimated TD of 12,500 feet. See attachments for revised drilling programs and BOP diagram.**

**Federal Approval of this Action is Necessary**

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

**RECEIVED**  
DEC 13 2002  
DEC 16 2002  
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct  
 Name (Printed/Typed) **Ed Trotter**  
 Signature *[Signature]*

Title \_\_\_\_\_ Agent \_\_\_\_\_  
 Date **12-5-02**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by *[Signature]*  
 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.

**Petroleum Engineer 12/12/02**  
 Office \_\_\_\_\_

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, 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.

(Instructions on reverse)  
**OPERATOR**

**EIGHT POINT PLAN**  
**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

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

<b>FORMATION</b>	<b>DEPTH (KB)</b>
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Kicker Sand	3300
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Black Hawk Shale	11,200
KMV Black Hawk	11,400
Mancos	11,945
Mancos 'B'	12,216

EST. TD: 12,500

Anticipated BHP 5400 PSI

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

**4. CASING PROGRAM:**

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>RATING FACTOR</u>		
							<u>COLLAPSE</u>	<u>BURST</u>	<u>TENSILE</u>
17 1/2"	0' - 500' +/- GL	500' +/-	13 3/8"	48.0 #	H-40	ST&C	770 PSI	1730 PSI	322,000#
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7 7/8"	3150' - TD +/-KB	12,500' +/-	4 1/2"	11.6 #	HC P-110	LT&C	8650 PSI	10,690 PSI	279,000#

All casing will be new or inspected.

**5. Float Equipment:**

**Surface Hole Procedure (0-500' Below GL):**

- Guide Shoe (Float shoe if required for weight capacity to run casing on spud rig)
- Wooden wiper plug
- Centralizers: 1 - 5-10' above shoe, every collar for next 3 joints (4 total).
- Have bottom of first collar tack-welded, guide shoe and top of first collar thread-locked.

**Intermediate Hole Procedure (500-3150'):**

- Float Shoe (PDC drillable)
- Float Collar (PDC drillable)

## EIGHT POINT PLAN

### NORTH DUCK CREEK 213-26 SE/SW, SEC. 26, T8S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH

Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5<sup>th</sup> joint to surface. (15 total)  
Have bottom of collar on jt. #1 tack-welded, thread-lock guide shoe and top of jt. #1.

#### Production Hole Procedure (3150'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Run marker collars at  $\pm 11500'$  and  $\pm 8300'$  (alter depth if needed to avoid placing across any potentially-productive intervals). Centralize 5' above shoe on joint #1, top of joint #2, then every 2nd joint to 400' above Island top (50 total). Thread lock

## 6. MUD PROGRAM

#### Surface Hole Procedure (0-500' below GL):

Air – Air Water Mist

#### Intermediate Hole Procedure (500-3150'):

Water (circulate through reserve pit) with Gel/LCM sweeps. 9.1-9.4 ppg mud with sufficient LCM content may be required to control Trona water flows from the Green River Formation.

#### Production Hole Procedure (3150'-TD):

3150'-5200' Water (circulate through reserve pit) with Gel/LCM sweeps. Should Kicker Sand present well control problems that cannot be handled by drilling through the gas buster and/or choke, close in pits and weight up as required with mud system set forth below from 5200-8100'.

5200'-8100' Close in mud system (if not already done so for the Kicker Sand) . Mud up with 6 ppb Diammonium Phosphate (DAP). Drill with DAP water and BARACAT for flocculation. Sweep hole periodically w/ Zeo-gel (or barolift) / LCM sweeps to clean the hole and seal loss zones. Add additional LCM as hole dictates. Mud weight and vis as needed, water loss – no control.

8100'-TD Discontinue BARACAT. Mud up with zeogel and PAC-R. Maintain 6 ppb DAP. Do not mix caustic or lime. Maintain 7.5-8.5 pH. Weight up system and add vis as hole conditions require. Run LCM sweep periodically to seal off loss zones or more often as hole dictates. Water loss: 12-15 cc's. Expect increasing gas shows requiring heavier mud weights from top of Island onward. Treat CO2 contamination with Desco and Baracor 95.

## 7. 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).

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

- 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.

**8. EVALUATION PROGRAM:**

Logs: Schlumberger Platform Express TD – Surface Casing, with Di-pole Sonic from TD to surface in 1 run. FMI and rotary sidewall cores as needed and based upon results from first log run.

**9. CEMENT PROGRAM:**

**Surface Hole Procedure (0-500' Below GL)**

**Lead:** 600 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

**Top Out:** Top out with Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Install 6' x 4' cellar ring, drill rat and mouse holes, RDMO Rocker spud rig.

**Intermediate Hole Procedure (500-3150')**

**Test proposed slurry with actual mix water in advance. (Schlumberger)**

**Lead:** 180 sx. (50% excess volume) Class 'G' lead cement (coverage from 2000-500') with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 340 sx. (50% excess volume) Class 'G' cement (coverage from 3150-2000') with 10% D53 (Gypsum), 2% S1 (CaCl<sub>2</sub>) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft<sup>3</sup>/sk., 7.9 gps water.

Bump plug with fresh water. Do not pump over ½ of shoe volume past calculated displacement. Note and record final lift pressure and plug bump pressure.

**Production Hole Procedure (3150' to TD)**

**Test proposed slurry with actual mix water in advance (Schlumberger).**

Use openhole log caliper volume **plus 10% excess on lead slurry and 5% excess on middle and tail slurries** to calculate cement volumes. Attempt to bring lead cement 200' into base of intermediate casing, middle slurry to 400' above top of Wasatch and tail slurry over bottom 800' of production string. Reciprocate pipe ±45' while conditioning hole and cementing (unless well has had problems with lost

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

circulation). Utilize all available pump rate and thin mud to below 40 vis prior to cementing. Set on bottom if it starts getting sticky. Bump plug 1000 psi over FPP (not to exceed 6000 psi) with fresh water. Utilize top plug only.

**Lead:** 35:65 Poz G w/ 4% D20 (Bentonite), 2% D174 (Extender), 0.2% D65 (Dispersant), 0.2% D46 (Antifoamer), 0.75% D112 (Fluid Loss Additive), 0.2% D13 (Retarder), 0.25 pps D29 (cellophane flakes), mixed at 13.0 ppg, 1.75 cu. ft./sk., 9.19 gps water.

**Middle:** 50:50 Poz G w/ 2% D20 (Bentonite), 0.1% D46 (Antifoamer), 0.15% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 cu. ft./sk., 5.9 gps water.

**Tail:** 50:50 Poz G w/ 2% D20 (Bentonite), 35.0% D-66 (Silica), 0.1% D46 (Antifoamer), 0.075% D800 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.53 cu. ft./sk., 7.0 gps water.

**10. ABNORMAL CONDITIONS:**

**INTERMEDIATE HOLE (500-3150')**

**Potential Problems:** Possible lost circulation and minor amounts of gas will be present. Asphaltic, black oil and Trona water flows may be encountered in the Green River, beginning at 2021'. Monitor for and report any hydrocarbon shows and/or water zones. Although the Kicker Sand, containing potential water and gas flows requiring 10.0 ppg mud weights to control, is not predicted to come in until 3300' (150' below planned intermediate casing shoe), be alert for any volume gains in the intermediate hole in case it is encountered shallower than expected.

**PRODUCTION HOLE (3150'-TD)**

**Potential Problems:** Although none of the wells drilled to date in Section 26 reported any significant water or gas flows from the Kicker Sand (predicted to come in at 3300' in the NDC 213-26), several wells drilled in neighboring Section 25 did encounter considerable amounts of gas and water from this zone.

**11. STANDARD REQUIRED EQUIPMENT:**

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

**EIGHT POINT PLAN**

**NORTH DUCK CREEK 213-26**  
**SE/SW, SEC. 26, T8S, R21E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**12. 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.

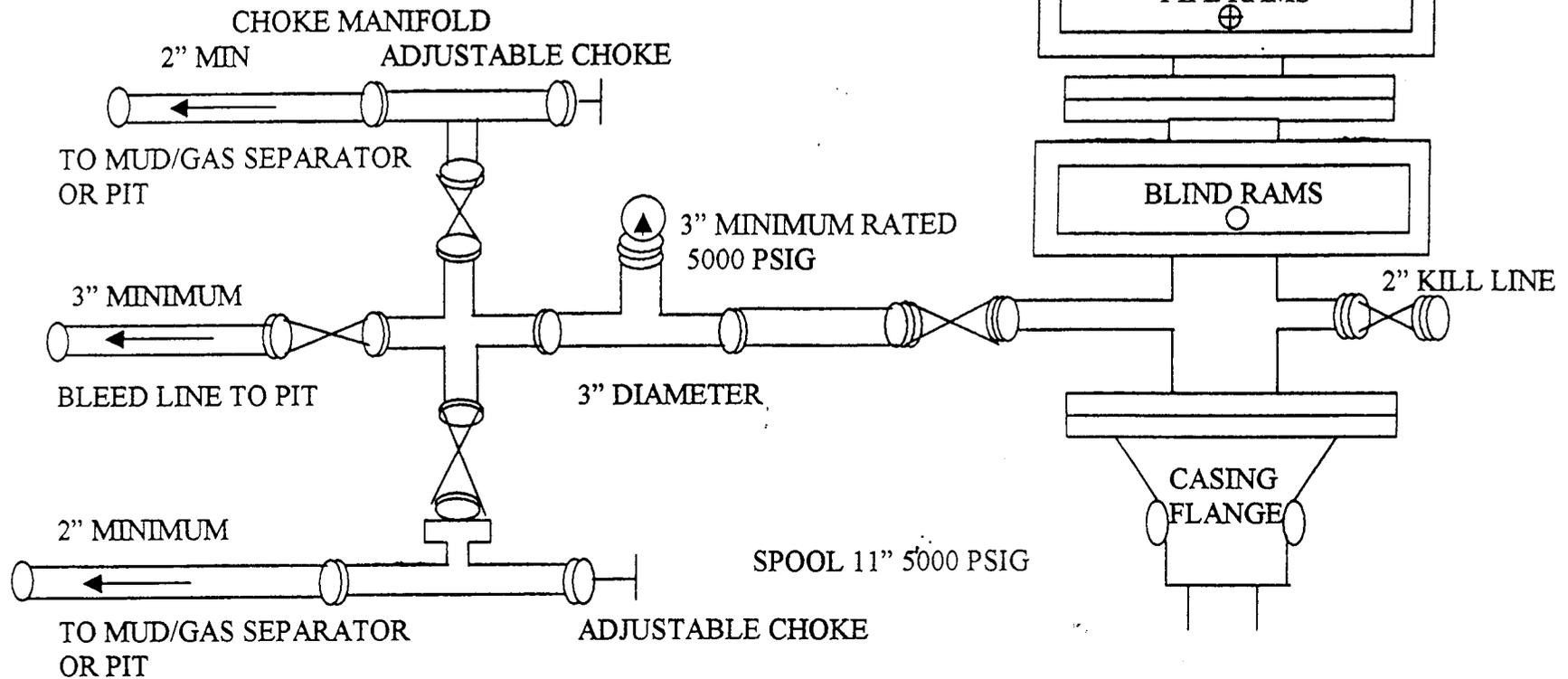
(Attachment: BOP Schematic Diagram)

### 5000 PSIG DIAGRAM

ANNULAR PREVENTOR AND BOTH RAMS ARE 5000 PSIG RATED.  
CASING FLANGE IS 11" 5000 PSIG RATED.  
BOPE 11" 5000 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, 5000 psig.
3. Annular preventer will be tested to 50% of working pressure, 2500 psig.
4. Casing will be tested to 0.22 psi/ft. or 2500 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 5000 psig BOPE specifications.



008

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	13696	43-047-34594	NORTH DUCK CREEK 213-26	SESW	26	8S	21E	UINTAH	12/23/2002	12-30-02
CONFIDENTIAL											
B	99999										
A	99999										

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.

*Katy Carlson*  
 \_\_\_\_\_  
 Signature  
 Regulatory Analyst  
 Title

12/30/2002  
 \_\_\_\_\_  
 Date

Phone No. (307) 276-4842  
 \_\_\_\_\_

(3/89)

RECEIVED

F-354 P-01/01 T-075 P-01/01 3072763335 From-EOG - Big PINEY, WY. Dec-30-02 11:02am

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB NO. 1004-0135

Expires: November 30, 2000

009

**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.  
U 9613

6. If Indian, Allottee or Tribe Name  
UTE INDIAN TRIBE

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

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

8. Well Name and No.  
NORTH DUCK CREEK 213-26

9. API Well No.  
43-047-34594

10. Field and Pool, or Exploratory  
NORTH DUCK CREEK/MESAVERDE

11. County or Parish, and State  
UINTAH COUNTY, UT

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
EOG RESOURCES, INC. Contact: KATY CARLSON  
E-Mail: Kathleen\_Carlson@EOGResources.com

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

3b. Phone No. (include area code)  
Ph: 307.276.4842

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 26 T8S R21E SESW 676FSL 2081FWL

**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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" 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 checked="" type="checkbox"/> Other Well Spud
	<input type="checkbox"/> Change Plans	<input 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	

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

EOG Resources Inc. spud 17-1/2" surface hole at the subject location 12/23/2002. The contractor was Stubs & Stubs. Ed Forsman of the Vernal office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 12/23/2002.

**RECEIVED**

**JAN 06 2003**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #17168 verified by the BLM Well Information System For EOG RESOURCES, INC., will be sent to the Vernal**

Name (Printed/Typed) KATY CARLSON

Title REGULATORY ANALYST

Signature (Electronic Submission) *Katy Carlson*

Date 12/30/2002

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By \_\_\_\_\_

Title

Date

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

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.

**\*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\* DRAFT \*\***



011

Form 3160-4  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
U 9613

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.  
UTE INDIAN TRIBE

8. Lease Name and Well No.  
NORTH DUCK CREEK 213-26

9. API Well No.  
43-047-34594

10. Field and Pool, or Exploratory  
NORTH DUCK CREEK/MESAVERDE

11. Sec., T., R., M., or Block and Survey  
or Area Sec 26 T8S R21E Mer SLB

12. County or Parish  
UINTAH

13. State  
UT

17. Elevations (DF, KB, RT, GL)\*  
4738 GL

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

b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
Other \_\_\_\_\_

2. Name of Operator  
EOG RESOURCES, INC.

Contact: KATY CARLSON  
E-Mail: Kathleen\_Carlson@EOGResources.com

3. Address P.O. BOX 250  
BIG PINEY, WY 83113

3a. Phone No. (include area code)  
Ph: 307.276.4842

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

At surface SESW 676FSL 2081FWL 40.08906 N Lat, 109.52303 W Lon

At top prod interval reported below SESW 676FSL 2081FWL 40.08906 N Lat, 109.52303 W Lon

At total depth SESW 676FSL 2081FWL 40.08906 N Lat, 109.52303 W Lon

14. Date Spudded  
12/23/2002

15. Date T.D. Reached  
03/11/2003

16. Date Completed  
 D & A  Ready to Prod.  
04/03/2003

18. Total Depth: MD 12710 TVD

19. Plug Back T.D.: MD 12643 TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
✓CBL/CCL/VDL/GR - 3-29-03

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	502		240			
12.250	9.625 J-55	36.0	0	3956		760			
7.875	4.500 HC P-11	11.6	0	12688		2570			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	11640							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	11409	11600	11409 TO 11600	0.038	22	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
11409 TO 11600	43,212 GALS GELLED WATER & 191,320# 20/40 SAND

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 5-3-04

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
04/03/2003	04/15/2003	24	→	10.0	263.0	13.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
12/64	SI 600	1400.0	→	10	263	13		PGW	

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
			→						RECEIVED
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						APR 21 2003

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

ELECTRONIC SUBMISSION #20709 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

DEPT OF OIL GAS & MINING

\*\* DRAFT \*\*

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.)  
SOLD

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
M MARKER	5514	5541	SANDSTONE	WASATCH	5586
WASATCH	5541	6234	SANDSTONE	NORTH HORN	7533
CHAPITA WELLS	6234	6979	SANDSTONE	ISLAND	8147
BUCK CANYON	6979	7484	SANDSTONE	KMV PRICE RIVER	8695
NORTH HORN	7484	8075	SANDSTONE	KMV PRICE RIVER	8994
ISLAND	8075	8787	SANDSTONE	MIDDLE PRICE RIVER	9415
KMV PRICE RIVER	8787	10321	SANDSTONE	LOWER PRICE RIVER	10296
KMV PRICE RIVER	10321	10842	SANDSTONE	SEGO	10718
SEGO	10842	10943	SANDSTONE	CASTLEGATE	10810
KMV CASTLEGATE	10943	11378	SANDSTONE	BASE CASTLEGATE SAND	11158
KMV BLACK HAWK	11378	11940	SANDSTONE	BLACK HAWK	11399
MANCOS	11940	12125	SHALE	MANCOS	11940
MANCOS B	12125	12625	SANDSTONE	MANCO B	12116
				BASE MANCOS B	12285

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 #20709 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 04/17/2003

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.

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

012

5. LEASE DESIGNATION AND SERIAL NUMBER:  
U-9613

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
UTE INDIAN TRIBE

7. UNIT or CA AGREEMENT NAME:

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

1. TYPE OF WELL OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
NORTH DUCK CREEK 213-26

2. NAME OF OPERATOR:  
EOG RESOURCES, INC.

9. API NUMBER:  
43-047-34594

3. ADDRESS OF OPERATOR:  
P.O. BOX 1910 CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 789-4120

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 676' FSL, 2081' FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 26 8S 21E S

STATE: UTAH

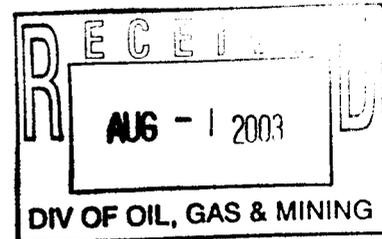
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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

Operator reports the following procedure changes which occurred during the drilling of the subject well.

- The well was drilled to a Total Depth of 12,625 feet (Formation--Mesa Verde)
- The 9 5/8" Intermediate Casing was ran to a depth of 3,956 KB and an additional 240 sx of tail cement was pumped.
- Ater lost circulation occurred during cementing of Intermediate casing, the following was pumped down the 13 3/8" X 9 5/8" Annulus:  
200 SX of 10-2 RFC w/10% D-53, 2% SI, and 0.25 PPS D-29. Mixed @ 14.2 PPG, yield 1.63 CF/SX, 58 BBLS of slurry.  
Tailed in w/200 SX of Hi-Lift "G" w/12% D20, 1% D79, 0.25% D112, 0.2% D46, 5% D44 and 0.25 PPS D-29.



NAME (PLEASE PRINT) Ed Trotter

TITLE Agent

SIGNATURE *Ed Trotter*

DATE 1/31/2003

(This space for State use only)

COPY SENT TO OPERATOR  
Date: 8-6-03  
Initials: CHD

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 08-04-03  
By: *[Signature]*

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

013

**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.  
U 9613

6. If Indian, Allottee or Tribe Name  
UTE INDIAN TRIBE

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

8. Well Name and No.  
NORTH DUCK CREEK 213-26

9. API Well No.  
43-047-34594

10. Field and Pool, or Exploratory Area  
NORTH DUCK CREEK/MESAVERDE

11. County or Parish, State  
UINTAH, 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)  
676' FSL - 2081' FWL (SE/SW)  
SECTION 26, T8S, R21E

**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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" 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 checked="" type="checkbox"/> Other <u>CONTINUED</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>COMPLETION</u>
	<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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EOG Resources, Inc. completed additional intervals in the Mesaverde formation as follows:

1. Perforated Lower Price River from 10,347-49', 10,393-95', 10,431-32', 10,457-59' & 10,557-59'. Fracture stimulated w/55,258 gals gelled water & 191,250# 20/40 sand.
2. Perforated Middle Price River from 10,035-36', 10,043-44', 10,069-70', 10,102-03', 10,123-25', 10,152-53', 10,166-68', 10,232-34', 10,268-69' & 10,278-81'. Fracture stimulated w/53,902 gals gelled water & 192,380# 20/40 sand.
3. Returned well to production 8/15/2003.

TEST: 8/19/2003, 424 MCFD, 30 BC, 50 BW in 24 hours on a 12/64" choke, FTP 900 psig, CP 1600 psig.

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

KATY CARLSON

Title REGULATORY ANALYST

Signature

Date AUGUST 20, 2003

**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

RECEIVED

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.

AUG 22 2003

DIV. OF OIL, GAS & MINERAL

(Continued on next page)

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.*

014

**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)  
 676' FSL - 2081' FWL (SE/SW)  
 SECTION 26, T8S, R21E

5. Lease Serial No.  
 U 9613

6. If Indian, Allottee or Tribe Name  
 UTE INDIAN TRIBE

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

8. Well Name and No.  
 NORTH DUCK CREEK 213-26

9. API Well No.  
 43-047-34594

10. Field and Pool, or Exploratory Area  
 NORTH DUCK CREEK/MESAVERDE

11. County or Parish, State  
 Uintah, 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"/> 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 checked="" type="checkbox"/> Other <u>CONTINUED</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>COMPLETION</u>
	<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 recomplate 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 recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EOG Resources, Inc. proposes to continue completion of the subject well as follows:

- Set BP @ 8700'.
- Perforate the Wasatch Island formation from 8588-94', 8600-02', 8605-07' and 8611-13'. Fracture stimulate w/595 bbls gelled water & 82,900# 20/40 sand.
- Perforate Wasatch North Horn from 7658-61', 7664-68' and 7676-78'. Fracture stimulate w/570 bbls gelled water & 75,600# 20/40 sand.
- Perforate Wasatch Bc formation from 7094-7102', 7125-28' and 7146-47'. Fracture stimulate w/470 bbls gelled water & 64,020# 20/40 sand.
- Perforate Wasatch Cl & Cj formation from 6724-28', 6733-35', 6741-43' and 6802-04'. Fracture stimulate w/435 bbls gelled water & 89,250# 20/40 sand.
- Perforate Wasatch Ca formation from 6262-68', 6276-78' and 6314-16'. Fracture stimulate w/410 bbls gelled water & 80850# 20/40 sand.
- Return well to production.

COPY SENT TO OPERATOR  
 Date: 10-22-03  
 Initials: CHD

RECEIVED  
 OCT 16 2003

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

Title REGULATORY ANALYST DIV. OF OIL, GAS & MINING

Signature *Katy Carlson*

Date OCTOBER 13, 2003

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by (Signature)

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.

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 in any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Accepted by the Utah Division of Oil, Gas and Mining  
 Date: 10/24/03

Federal Approval Of This Action Is Necessary

# COMPLETION PROGRAM

## Addendum

North Duck Creek 213-26  
676' FSL & 2081' FWL (SE/SW)  
Section 26, T8S, R21E  
Uintah County, Utah

October 7, 2003  
EOG WI: 50%  
NRI: 42.25%  
API# 43-047-34594  
AFE# 302090

### WELL DATA:

ELEVATION: 4726' GL KB: 4741 (15' KB)  
TOTAL DEPTH: 12,710' KB PBTB: 12,643' KB (Float Collar)  
CASING: 13-3/8", 48#, H-40 set @ 502' KB. Cemented w/240 sx Class "G" to surface.  
9-5/8", 36#, J-55 set @ 3956' KB. Cemented w/180 sx Hi-Lift & 580 sx 10/1 RFC.  
4-1/2", 11.6#, HC P-110 set @ 12,688'. Cemented w/670 sx 35/65 Pozmix & 1900 sx 50/50 Pozmix. (Marker joints @ 8172' & 11,368').  
TUBING: Notched collar, 1 jt. 2 3/8" 4.7# N80 tubing, XN nipple, 355 jts. 2 3/8" 4.7# N80 tubing. Landed @ 11640'KB.

EXISTING PERFS	SPF/Phasing	INTERVAL	FRAC #
11409-12', 11476-78', 11507-08', 11517-18', 11565-66', 11574-75', 11598-11600'	2/180°	Blackhawk	1
10347-49', 10393-95', 10431-32', 10457-59', 10557-59'	3/120°	Lower Price River	2
10035-36', 10043-44', 10069-70', 10102-03', 10123-25', 10152-53', 10166-68', 10232-34', 10268-69', 10278-81'	2/180°	Middle Price River	3

PROPOSED PERFS	SPF/Phasing	INTERVAL	FRAC #
8588-94', 8600-02', 8605-07', 8611-13'	2/180°	Island	4
7658-61', 7664-68', 7676-78'	3/120°	North Horn	5
7094-7102', 7125-28', 7146-47'	2/180°	Bc	6
6724-28', 6733-35', 6741-43', 6802-04'	2/180°	Cl & Cj	7
6262-68', 6276-78', 6314-16'	3/120°	Ca	8

### PROCEDURE:

1. MIRUSU. Kill well w/treated water. ND tree. NU 10M psig BOPE. POH.
2. RUWL. Set 10K composite plug @ 8700'±. Test BP to 4000 psig. Perforate Island intervals as shown using 3-1/8" HSC ported casing guns. RDWL.
3. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
4. RUWL. Set 10K composite frac plug @ 7720'±. Perforate North Horn intervals as shown. RDWL.

**COMPLETION PROGRAM**

**NDC 213-26**

**Addendum**

5. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
6. RUWL. Set 10K composite frac plug @ 7250'±. Perforate Bc intervals as shown. RDWL.
7. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
8. RUWL. Set 5K composite frac plug @ 6850'±. Perforate Cl & Cj intervals as shown. RDWL.
9. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
10. RUWL. Set 5K composite frac plug @ 6360'±. Perforate Ca intervals as shown. RDWL.
11. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
12. Flow back immediately. Following flowback, RIH w/3-7/8" mill. Clean out and drill out composite frac plugs. Leave composite plug @ 8700' in place. POH.
13. RIH w/production string. Land tubing below Island perfs. ND BOPE. NU tree. Swab/flow test.
14. RD MOSU. Place well on production.

**PREPARED BY:**

  
\_\_\_\_\_  
**JIM SCHAEFER, DIVISION PRODUCTION MANAGER**

**APPROVED BY:**

  
\_\_\_\_\_  
**C. C. PARSONS, DIVISION OPERATIONS MANAGER**

**Frac Procedure**

NDC 213-26

Island Perfs: 8588'-8613'

Frac down casing w/595 bbls borate x-linked, gelled water (excluding flush) and 81,900# 20/40 sand as follows: (Treat @ 20-25 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	GEL	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad	35# (40 bbls linear, 80 bbls XL)	120	120			
1 ppg	35#	50	170	2100	2100	20/40 Sand
2 ppg	35#	50	220	4200	6300	20/40 Sand
3 ppg	35#	50	270	6300	12600	20/40 Sand
4 ppg	35#	100	370	16800	29400	20/40 Sand
5 ppg	35#	100	470	21000	50400	20/40 Sand
6 ppg	35#	125	595	31500	81900	20/40 Sand
Flush	Slick	132	727			

**Frac Procedure**

NDC 213-26

North Horn Perfs: 7658-7678'

Frac down casing w/570 bbls borate x-linked, gelled water (excluding flush) and 75,600# 20/40 sand as follows: (Treat @ 20-25 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	GEL	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad	35# (40 bbls linear, 80 bbls XL)	120	120			
1 ppg	35#	50	170	2100	2100	20/40 Sand
2 ppg	35#	50	220	4200	6300	20/40 Sand
3 ppg	35#	50	270	6300	12600	20/40 Sand
4 ppg	35#	100	370	16800	29400	20/40 Sand
5 ppg	35#	100	470	21000	50400	20/40 Sand
6 ppg	35#	100	570	25200	75600	20/40 Sand
Flush	Slick	117	687			

**Frac Procedure**

NDC 213-26

Bc Perfs: 7094-7147'

Frac down casing w/470 bbls borate x-linked, gelled water (excluding flush) and 64,050# 20/40 sand as follows: (Treat @ 25 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	GEL	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad	35# (40 bbls linear, 80 bbls XL)	120	120			
1 ppg	35#	25	145	1050	1050	20/40 Sand
2 ppg	35#	25	170	2100	3150	20/40 Sand
3 ppg	35#	50	220	6300	9450	20/40 Sand
4 ppg	35#	50	270	8400	17850	20/40 Sand
5 ppg	35#	100	370	21000	38850	20/40 Sand
6 ppg	35#	100	470	25200	64050	20/40 Sand
Flush	Slick	117	587			

**Frac Procedure**

NDC 213-26

C1 &amp; Cj Perfs: 6724-6804'

Frac down casing w/435 bbls borate x-linked, gelled water (excluding flush) and 89,250# 20/40 sand as follows: (Treat @ 30 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	GEL	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad	30# (20 bbls linear, 40 bbls XL)	60	60			
1 ppg	30#	25	85	1050	1050	20/40 Sand
2 ppg	30#	25	110	2100	3150	20/40 Sand
3 ppg	30#	50	160	6300	9450	20/40 Sand
4 ppg	30#	50	210	8400	17850	20/40 Sand
6 ppg	30#	50	260	12600	30450	20/40 Sand
8 ppg	30#	175	435	58800	89250	20/40 Sand
Flush	Slick	103	538			

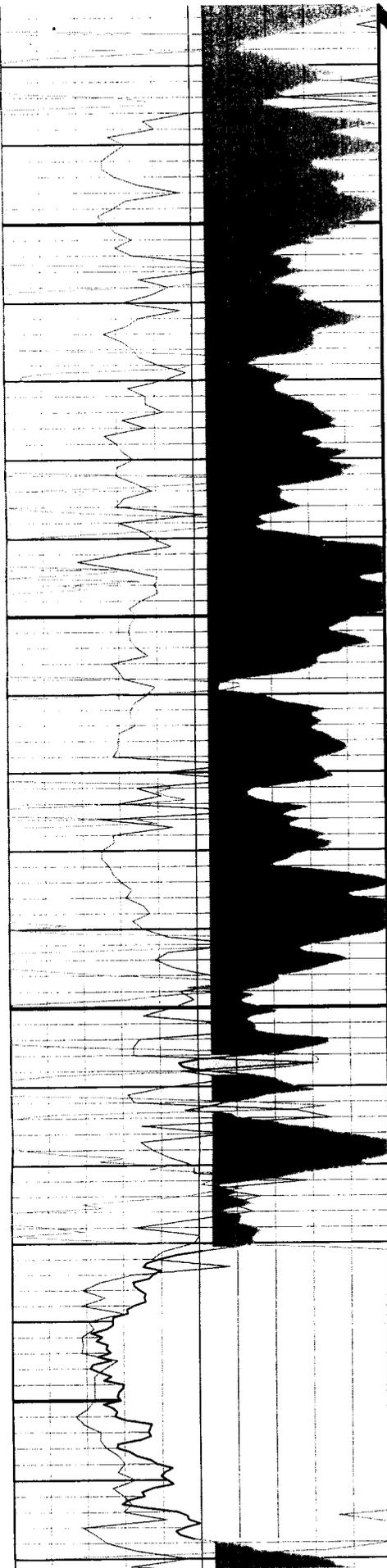
**Frac Procedure**

NDC 213-26

Ca Perfs: 6262-6316'

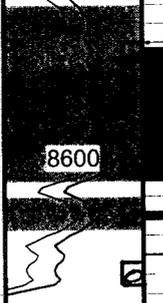
Frac down casing w/410 bbls borate x-linked, gelled water (excluding flush) and 80,850# 20/40 sand as follows: (Treat @ 25-30 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	GEL	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad	30# (20 bbls linear, 40 bbls XL)	60	60			
1 ppg	30#	25	85	1050	1050	20/40 Sand
2 ppg	30#	25	110	2100	3150	20/40 Sand
3 ppg	30#	50	160	6300	9450	20/40 Sand
4 ppg	30#	50	210	8400	17850	20/40 Sand
6 ppg	30#	50	260	12600	30450	20/40 Sand
8 ppg	30#	150	410	50400	80850	20/40 Sand
Flush	Slick	96	506			



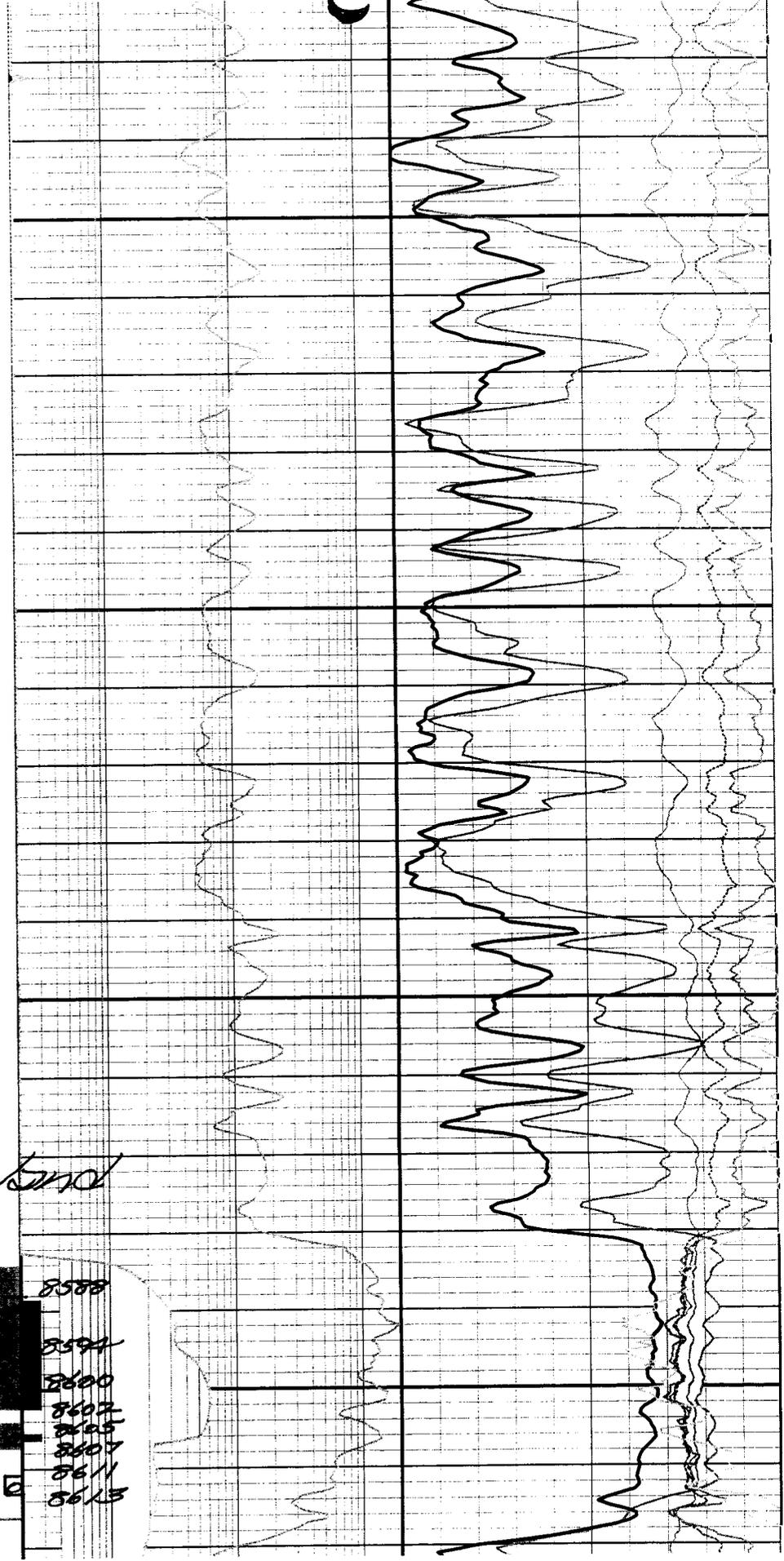
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*75/5nd*



8600

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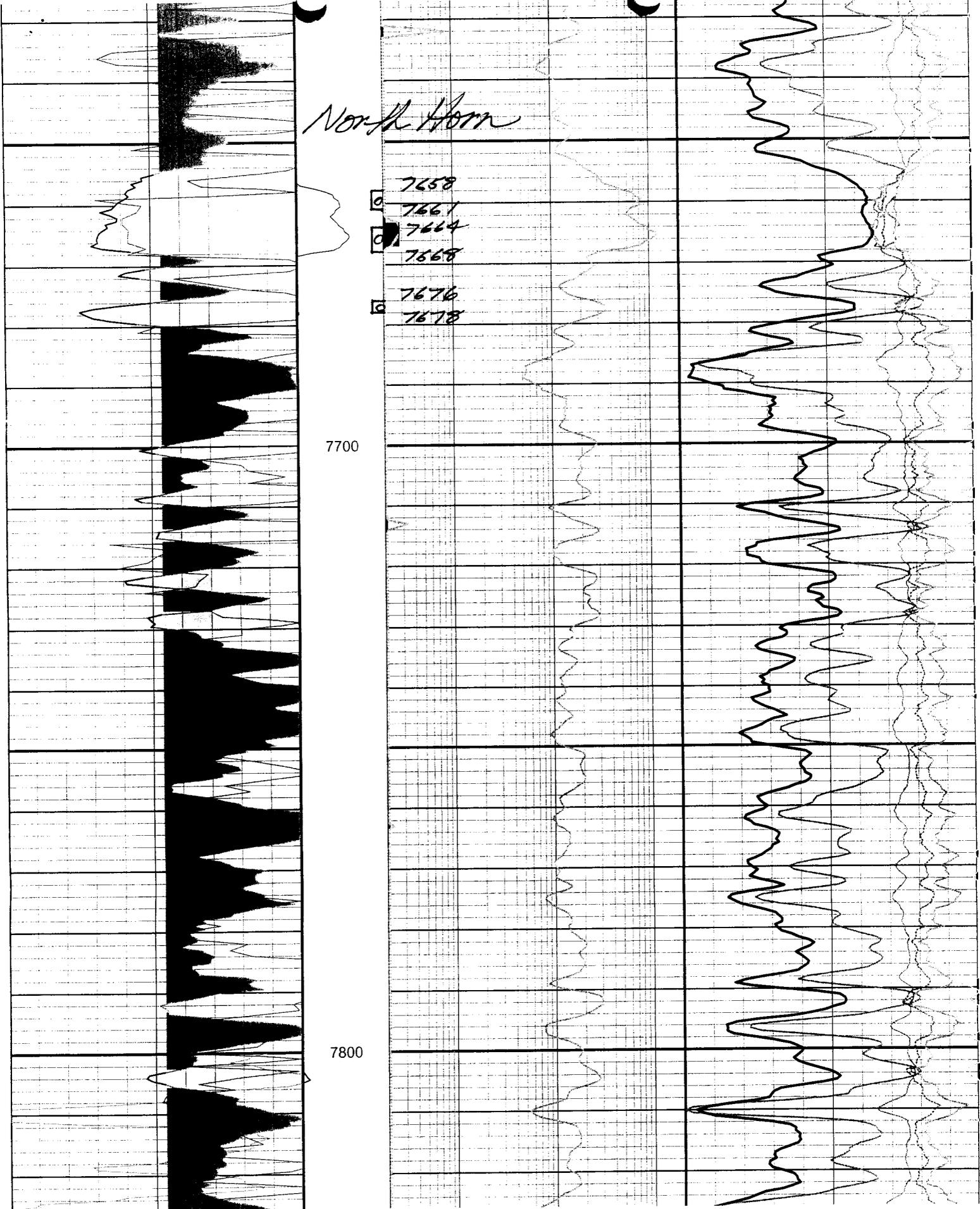


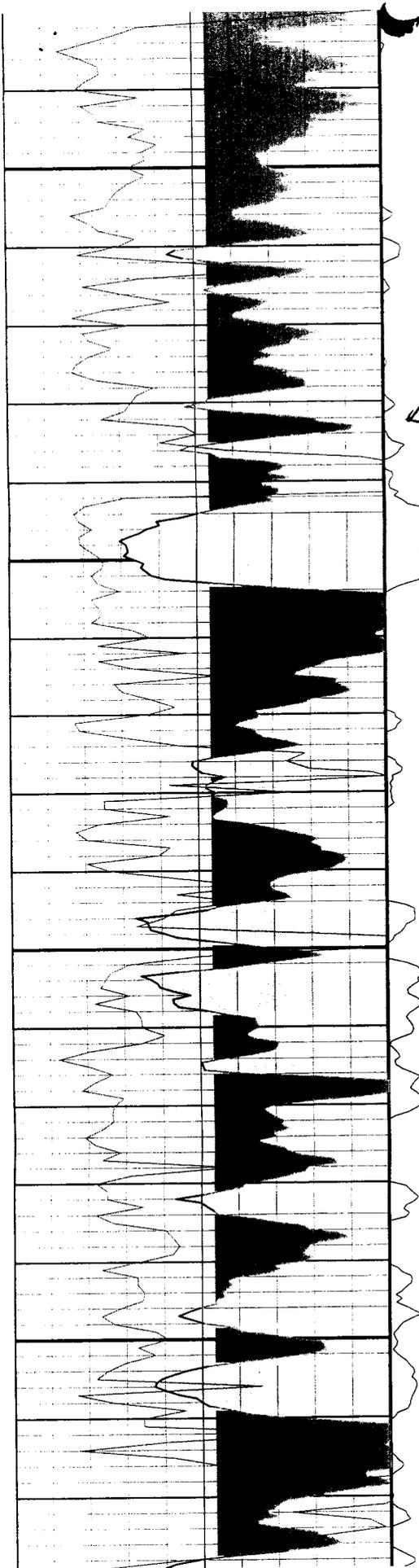
*North Horn*

- 7658
- 7661
- 7664
- 7668
  
- 7676
- 7678

7700

7800

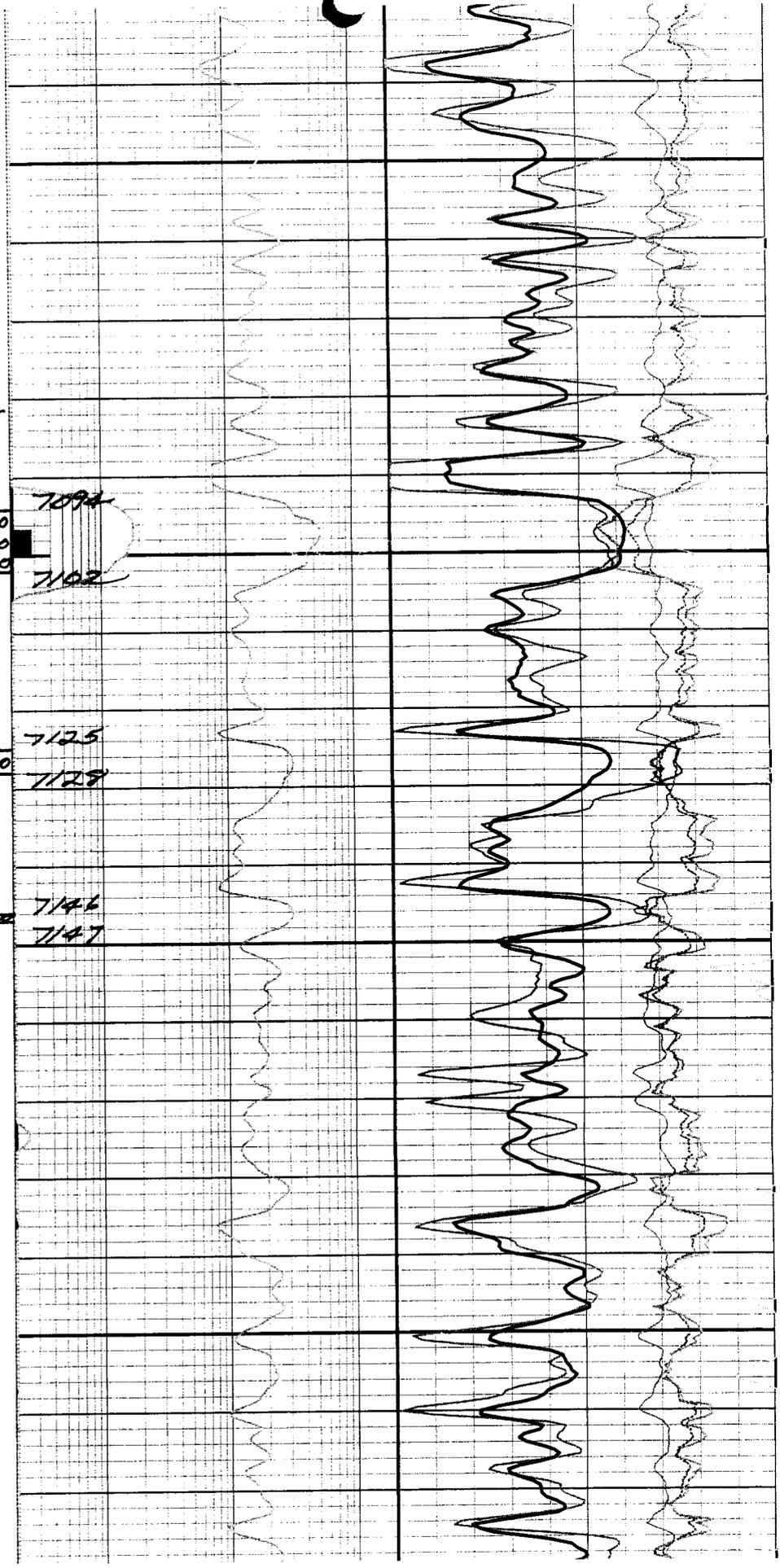
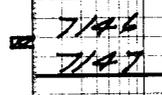
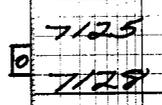


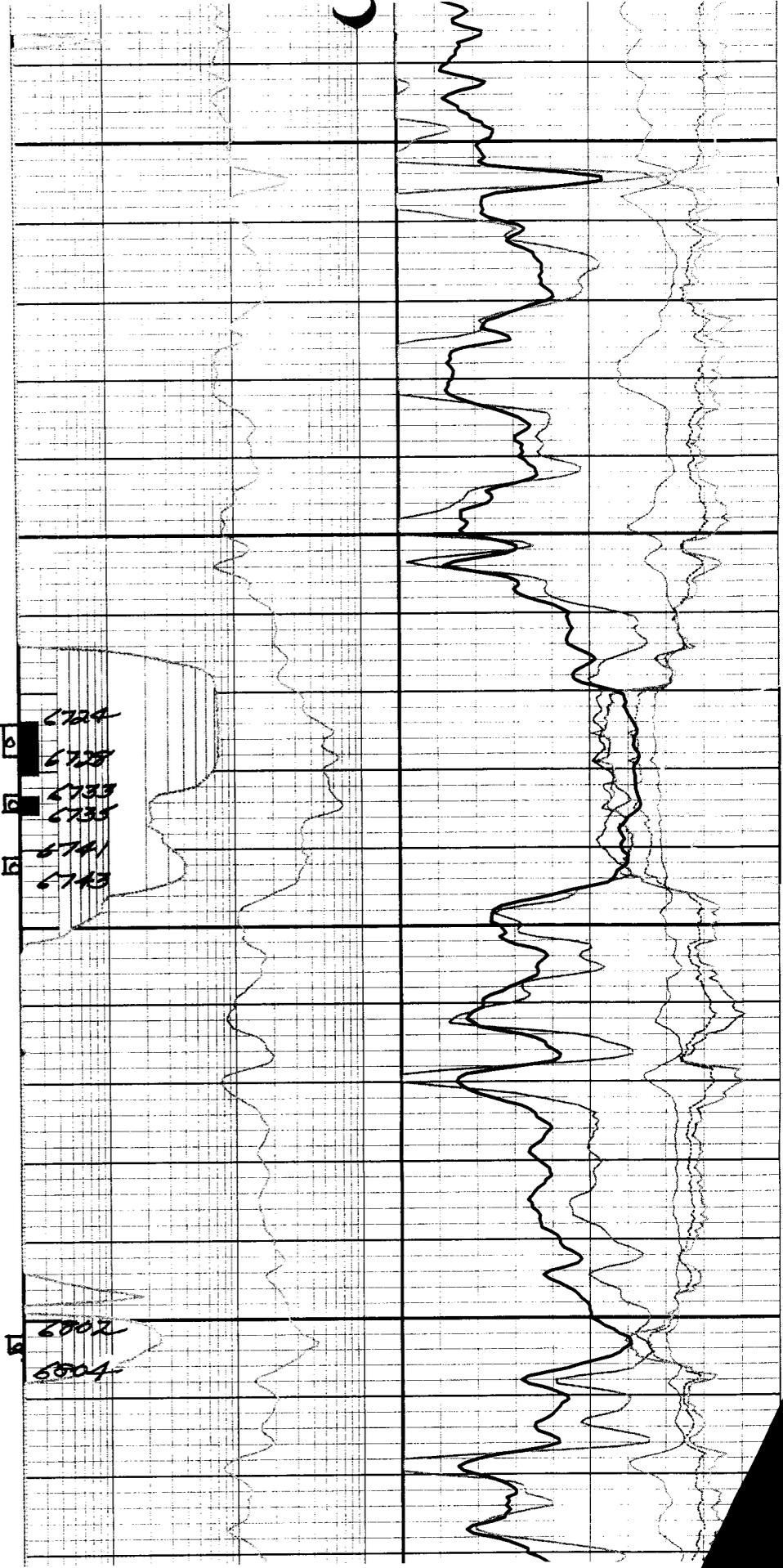
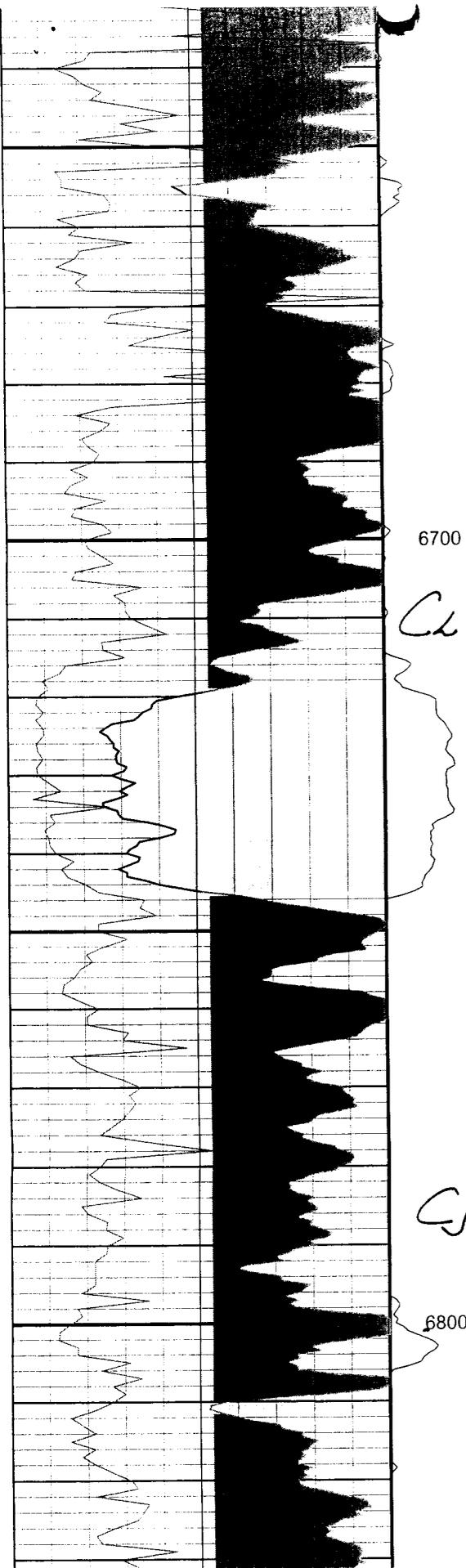


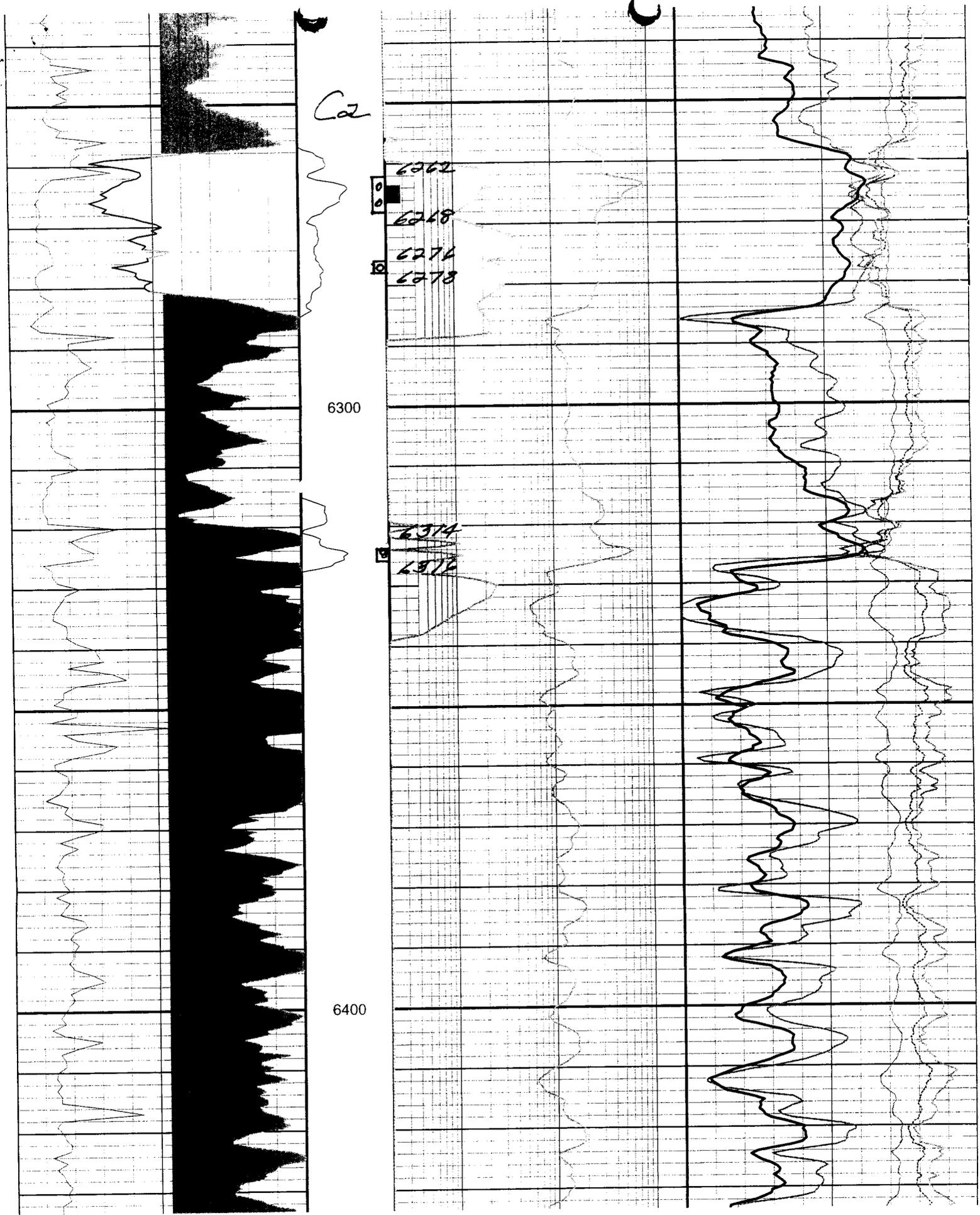
*Bc*

7100

7200







Ca2

6300

6400

2989

8729

7129

8729

6374

7129

015

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING

CONFIDENTIAL

SUNDRY NOTICES AND REPORTS OF WELLS

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

5. Lease Designation and Serial Number:

U 9613

6. If Indian, Allottee or Tribe Name:

UTE INDIAN TRIBE

7. Unit Agreement Name:

8. Well Name and Number:

NORTH DUCK CREEK 213-26

9. API Well Number:

43-047-34594

10. Field and Pool, or Wildcat:

NATURAL BUTTES

1. Type of Well: Oil  Gas  Other   
2. Name of Operator: EOG RESOURCES, INC.  
3. Address and Telephone Number: P.O. BOX 250  
(307) 276-3331 BIG PINEY, WYOMING 83113

4. Location of Well  
Footage's: 676' FSL - 2081' FWL SE/SW  
QQ, Sec., T., R., M.: SECTION 26, T8S, R21E

County: UINTAH  
State: UTAH

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

NOTICE OF INTENT

(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans (as
- Conversion to Injection
- Fracture Treat
- Multiple completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate date work will start \_\_\_\_\_

SUBSEQUENT REPORT

(Submit Original Form Only)

- Abandonment\*
- Casing Repair
- change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New construction
- Pull or Alter Casing
- Shoot or Acidize
- Vent or Flare
- Water Shut -Off

COMMINGLING

Date of work completion \_\_\_\_\_

COMPLETIONS OR RECOMPLETIONS AND LOG form 8

\* Must be accompanied by a cement verification report.

COPY SENT TO OPERATOR  
Date: 12-03-03  
Initials: CTD

12. Describe proposed or completed operations (Clearly state all details, and give pertinent dates. 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. requests authorization for commingling of production from the Wasatch and Mesaverde formations in the referenced wellbore. In the event allocation of production is necessary, the allocation will be based on proportionate net pay as calculated from open hole logs. As shown on the attached wellbore schematic, production from the Wasatch and Mesaverde formations will be commingled in the wellbore and produced through open ended 2-3/8" tubing landed below all perforations in the 4-1/2" production casing.

Also find attached a map showing the location of all wells on contiguous oil and gas leases or drilling units and an affidavit showing that this application has been provided to owners of all contiguous oil and gas leases or drilling units overlying the pool.

Accepted by the  
Utah Division of  
Oil, Gas and Mining

RECEIVED  
FEDERAL APPROVAL  
Action Is Necessary  
OCT 30 2003  
DIV. OF OIL, GAS & MINING

13. Name & Signature: *Betsy Carlson* Date: 12/3/03  
Title: Regulatory Analyst By: *[Signature]* Date: 10/23/2003

STATE OF UTAH )  
 )ss  
COUNTY OF UINTAH)

**AFFIDAVIT**

Jim Schaefer, of lawful age, being first duly sworn upon oath, deposes and says:  
He is the Division Production Manager of EOG Resources, Inc., of Big Piney, Wyoming. EOG Resources, Inc. is the operator of following described well:

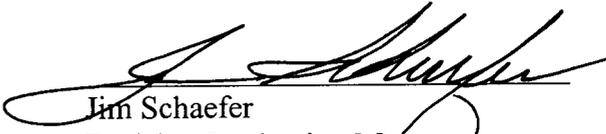
**NORTH DUCK CREEK 213-26  
676' FSL - 2081' FWL (SE/SW)  
SECTION 26, T8S, R21E  
UINTAH COUNTY, UTAH**

EOG Resources, Inc., Questar Exploration and Production Company, QEP Uinta Basin Incorporated, III Exploration Company, III Exploration II, LP and Westport Oil and Gas Company, L.P. are the only owners in the well and/or of all contiguous oil and gas leases or drilling units overlying the pool.

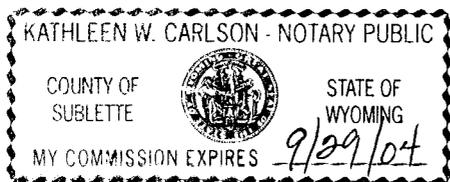
On the 23<sup>rd</sup> day of October, 2003, he placed in the United States mail, with postage prepaid, a copy of the attached Application for Commingling in one wellbore for the subject well.

Said envelope which contained these instruments was addressed to the Utah Division of Oil, Gas & Mining, Bureau of Land Management, Questar Exploration and Production Company, QEP Uinta Basin Incorporated, III Exploration Company, III Exploration II, LP and Westport Oil & Gas Company, L.P.

Further this affiant saith not.

  
Jim Schaefer  
Division Production Manager

Subscribed and sworn to before me this 23<sup>rd</sup> day of October, 2003.

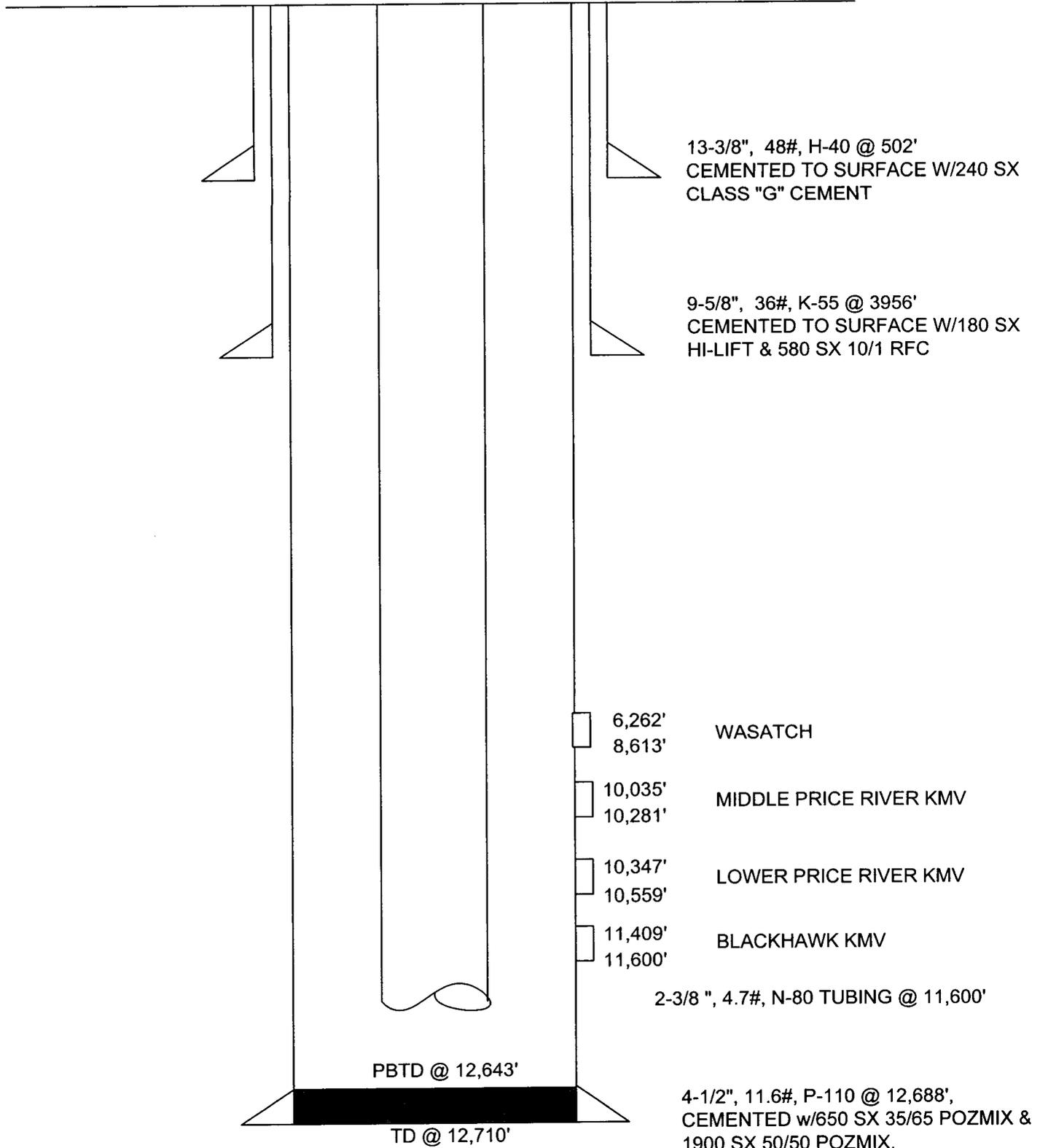


  
Notary Public

# WELLBORE

CONFIDENTIAL

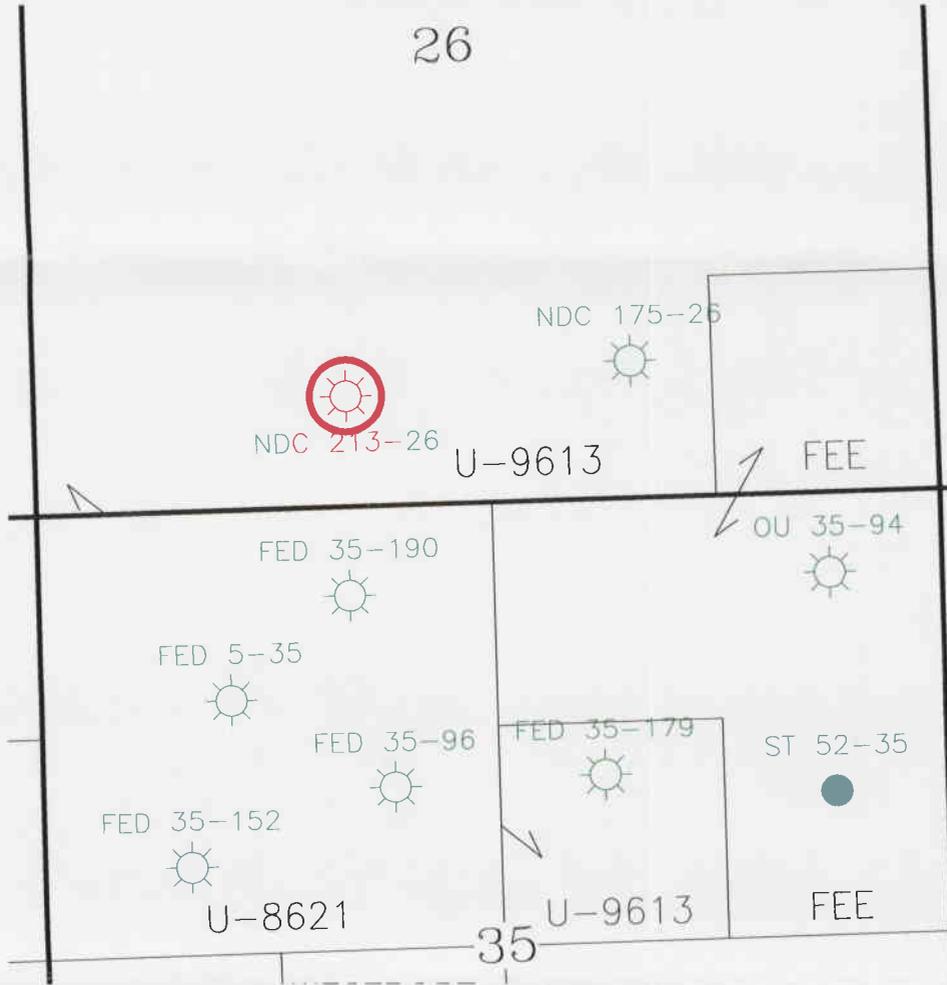
NORTH DUCK CREEK 213-26  
SE/SW, SECTION 26, T8S, R21E  
UINTAH COUNTY, UTAH



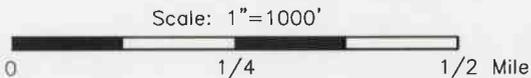
R 21 E

26

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8  
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○ North Duck Creek 213-26



Denver Division

**EXHIBIT "A"**

**NORTH DUCK CREEK 213-26**  
**Commingling Application**  
**Uintah County, Utah**

Scale: 1"= 1000'	Map ID page_ndc213_178	Author commingled TLM	Date: 10-7-03
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0135  
Expires: November 30, 2000

016

**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.  
U 9613

6. If Indian, Allottee or Tribe Name  
UTE INDIAN TRIBE

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

**CONFIDENTIAL**

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

8. Well Name and No.  
NORTH DUCK CREEK 213-26

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
EOG RESOURCES, INC. Contact: KATY CARLSON  
E-Mail: Kathleen\_Carlson@EOGResources.com

9. API Well No.  
43-047-34594

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

3b. Phone No. (include area code)  
Ph: 307.276.4842

10. Field and Pool, or Exploratory  
NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 26 T8S R21E SESW 676FSL 2081FWL

11. County or Parish, and State  
UINTAH COUNTY, UT

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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" 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 checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input 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	

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

EOG Resources, Inc. continued the completion of the subject well in the Wasatch formation as follows:

1. Perforated Island formation from 8588-94', 8600-02', 8605-07' & 8611-13'. Fracture stimulated w/24,997 gals gelled water & 81,146# 20/40 sand.
2. Perforated North Horn formation from 7658-61', 7664-68' & 7676-78'. Fracture stimulated w/25,097 gals gelled water & 75,734# 20/40 sand.
3. Perforated Bc formation from 7094-7102', 7125-28' & 7146-47'. Fracture stimulated w/19,922 gals gelled water & 64,426# 20/40 sand.
4. Perforated Cl & Cj formation from 6724-28', 6733-35', 6741-43' & 6802-04'. Fracture stimulated w/4,037 gals gelled water & 85,300# 20/40 sand.
5. Perforated Ca formation from 6262-68', 6276-78' & 6324-26'. Fracture stimulated w/17,322 gals gelled water & 78,784# 20/40 sand.

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

**Electronic Submission #24951 verified by the BLM Well Information System  
For EOG RESOURCES, INC., sent to the Vernal**

Name (Printed/Typed) KATY CARLSON

Title REGULATORY ANALYST

Signature

(Electronic Submission) *Katy Carlson*

Date 11/21/2003

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

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 \_\_\_\_\_

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL**

**RECEIVED**

**NOV 24 2003**

**DIV. OF OIL, GAS & MINING**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OM B No. 1004-0137  
Expires: March 31, 2007

**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.*

**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  
 600 17th Street, Suite 1000N, Denver, CO 80202

3b. Phone No. (include area code)  
 303-824-5526

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

676' FSL & 2081' FWL (SE/SW)  
 Sec. 26-T8S-R21E 40.089064 LAT 109.523031 LON

5. Lease Serial No.

U-9613

6. If Indian, Allottee or Tribe Name

Ute Indian Tribe

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

8. Well Name and No.

North Duck Creek 213-26

9. API Well No.

43-047-34594

10. Field and Pool, or Exploratory Area

Natural Buttes/Wasatch/MV/Mancos

11. County or Parish, State

Uintah County, Utah

**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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" 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 checked="" type="checkbox"/> Other Pit reclamation
	<input type="checkbox"/> Change Plans	<input 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	

13. 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 recomplate 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The reserve pit for the referenced location was closed on 5/7/2006 as per the APD procedure.

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

Mary A. Maestas

Title Regulatory Assistant

Signature

*Mary A. Maestas*

Date

01/08/2007

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

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.

Title

Date

Office

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.

**RECEIVED**

(Instructions on page 2)

**JAN 09 2007**

DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UTU9613</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>Ute Indian Tribe</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME:
		8. WELL NAME and NUMBER: <b>North Duck Creek 213-26</b>
1. TYPE OF WELL <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> OTHER _____	9. API NUMBER: <b>43-047-34594</b>	
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>	10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>	
3. ADDRESS OF OPERATOR: <b>1060 East Highway 40</b> CITY <b>Vernal</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-9111</b>	
4. LOCATION OF WELL FOOTAGES AT SURFACE <b>676 FSL - 2081 FWL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN <b>SESW 26 8S 21E S</b>		STATE: <b>UTAH</b>

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

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

The referenced well was recompleted opening additional pay in the Wasatch formation as per the attached well chronology report.

Returned to sales 10/19/2003 commingling in the Wasatch and Mesaverde formations.

**RECEIVED**  
**FEB 15 2008**  
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <b>Kaylene R. Gardner</b>	TITLE <b>Lead Regulatory Assistant</b>
SIGNATURE	DATE <b>2/14/2008</b>

(This space for State use only)

## WELL CHRONOLOGY REPORT

Report Generated On: 02-14-2008

<b>Well Name</b>	NDC 213-26	<b>Well Type</b>	PROD	<b>Division</b>	DENVER
<b>Field</b>	NORTH DUCK CREEK	<b>API #</b>	43-047-34594	<b>Well Class</b>	LOE
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	01-13-2003	<b>Class Date</b>	04-03-2003
<b>Tax Credit</b>	N	<b>TVD / MD</b>	12,500/ 12,500	<b>Property #</b>	050712
<b>Water Depth</b>	0	<b>Last CSG</b>	2.375	<b>Shoe TVD / MD</b>	0/ 0
<b>KB / GL Elev</b>	4,753/ 4,721				
<b>Location</b>	SECTION 26, T8S, R21E (SE/SW), 676' FSL & 2081' FWL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL & COMPLETE		
<b>Operator</b>	EOG RESOURCES, INC.	<b>WI %</b>	50.0	<b>NRI %</b>	42.25

AFE No 302090      AFE Total 1,539,000      DHC / CWC 958,000/ 581,000

Rig Contr CAZA      Rig Name CAZA #12      Start Date 06-04-2002      Release Date 03-14-2003

06-04-2002      Reported By

Daily Costs: Drilling \$0      Completion \$0      Daily Total \$0

Cum Costs: Drilling \$0      Completion \$0      Well Total \$0

MD 0      TVD 0      Progress 0      Days 0      MW 0.0      Visc 0.0

Formation :      PBTd : 0.0      Perf :      PKR Depth : 0.0

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA 676' FSL & 2081' FWL (SE/SW) SECTION 26, T8S, R21E UINTAH COUNTY, UTAH  TD: 12,500' MESAVERDE CAZA RIG #12 LEASE: U-9613 ELEVATION: 4726' GL, 4721' PREP GL, 4733' KB (12')  EOG BPO WI 50%, NRI 42.25%  SHENANDOAH OPERATING COMPANY, LLC WI 38.75% III EXPLORATION COMPANY WI 11.25%

12-09-2002      Reported By      B. L. COOPER

Daily Costs: Drilling \$0      Completion \$0      Daily Total \$0

Cum Costs: Drilling \$0      Completion \$0      Well Total \$0

MD 0      TVD 0      Progress 0      Days 0      MW 0.0      Visc 0.0

Formation :      PBTd : 0.0      Perf :      PKR Depth : 0.0

Activity at Report Time: LOCATION DATA

MD 12,710 TVD 12,626 Progress 0 Days 89 MW 0.0 Visc 0.0  
 Formation : BLACKHAWK,LPR PBTB : 12643.0 Perf : 10035-11,600 PKR Depth : 0.0

Activity at Report Time: ON SALES - FINAL REPORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED 355 MCF, 6 BC & 18 BW IN 24 HRS ON 12/64" CK, FTP 750 & CP 1300 PSIG. FINAL REPORT.

10-12-2003 Reported By GENE SEARLE

Daily Costs: Drilling	\$0	Completion	\$6,425	Daily Total	\$6,425
Cum Costs: Drilling	\$2,136,919	Completion	\$550,951	Well Total	\$2,687,870

MD 12,710 TVD 12,626 Progress 0 Days 82 MW 0.0 Visc 0.0  
 Formation : ISLAND PBTB : 12643.0 Perf : 8588-8613' PKR Depth : 0.0

Activity at Report Time: FRAC WASATCH

Start	End	Hrs	Activity Description
08:00	17:00	9.0	MIRU ROYAL WELL SERVICE. BLEW WELL DOWN. KILLED WELL W/50 BBLs TREATED WATER. POH. RU CUTTERS WL. SET 10K COMPOSITE PLUG @ 8704'. LOADED HOLE WITH TREATED WATER. TESTED BP TO 3500 PSIG.

PERFORATED ISLAND FROM 8588'-94', 8600'-02', 8605'-07' & 8611'-13' W/3-1/8" HSC PORTED CASING GUNS @ 2 SPF & 180? DEG. RDWL. SD FOR WEEKEND.

10-14-2003 Reported By GENE SEARLE

Daily Costs: Drilling	\$0	Completion	\$106,332	Daily Total	\$106,332
Cum Costs: Drilling	\$2,136,919	Completion	\$657,283	Well Total	\$2,794,202

MD 12,710 TVD 12,626 Progress 0 Days 83 MW 0.0 Visc 0.0  
 Formation : ISLAND PBTB : 12643.0 Perf : 6262-8613 PKR Depth : 0.0

Activity at Report Time: FRAC WASATCH

Start	End	Hrs	Activity Description
06:00	06:00	24.0	RU SCHLUMBERGER. SICP 1175 PSIG. FRAC ISLAND ZONE DOWN CASING W/1677 GALS WF35 PRE-PAD, 3320 GALS YF135 PAD, 20,000 GALS YF135 & 81,146# 20/40 SAND @ 1-6 PPG. MTP 4627 PSIG. MTR 26.7 BPM. ATP 3597 PSIG. ATR 24.9 PSIG. ISIP 2800 PSIG. RD SCHLUMBERGER.

RUWL. SET 10K COMPOSITE FRAC PLUG @ 7740'. PERFORATED NORTH HORN ZONE FROM 7658'-61', 7664'-68' & 7676'-78' W/3-1/8" HSC PORTED CASING GUNS @ 3 SPF & 120? PHASING. RDWL. RU SCHLUMBERGER. FRAC DOWN CASING W/2052 GALS WF35 PRE-PAD, 3991 GALS YF135 PAD, 19,044 GALS YF135 & 75,734# 20/40 SAND @ 1-6 PPG. MTP 3419 PSIG. MTR 26.2 BPM. ATP 2787 PSIG. ATR 23.6 BPM. ISIP 1900 PSIG. RD SCHLUMBERGER.

RUWL. SET 10K COMPOSITE FRAC PLUG @ 7250'. PERFORATED Bc ZONE FROM 7094'-7102', 7125'-28' & 7146'-47' @ 2 SPF & 180? PHASING. RDWL. RU SCHLUMBERGER. FRAC DOWN CASING W/1665 GALS WF35 PRE-PAD, 3324 GALS YF135 PAD, 14,933 GALS YF135 & 64,426# 20/40 SAND @ 1-6 PPG. MTP 2937 PSIG. MTR 25.8 BPM. ATP 2424 PSIG. ATR 22.9 BPM. ISIP 1640 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K COMPOSITE FRAC PLUG @ 6850'. PERFORATED Ci & Cj FROM 6724'-28', 6733'-35', 6741'-43' & 6802'-04' @ 2 SPF & 180? PHASING. RDWL. RU SCHLUMBERGER. FRAC Ci & Cj DOWN CASING W/823 GALS WF30 PRE-PAD, 1662 GALS YF130 PAD, 15520 GALS YF130 & 85,300# 20/40 SAND @ 1-8 PPG. MTP 3505 PSIG. MTR 31 BPM. ATP 2147 PSIG. ATR 27.4 BPM. ISIP 1380 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K COMPOSITE FRAC PLUG @ 6360'. PERFORATED Ca FROM 6262'-68', 6276'-78' & 6324'-26' @ 3 SPF & 120' PHASING. RDWL. RU SCHLUMBERGER. FRAC Ca DOWN CASING W/820 GALS WF30 PRE-PAD, 1670 GALS YF130 PAD, 14,832 GAL YF130 & 78,784# 20/40 SAND @ 1-8 PPG. MTP 2615 PSIG. MTR 31.7 BPM. ATP 1746 PSIG. ATR 27.7 BPM. ISIP 1460 PSIG. RD SCHLUMBERGER.

FLOWED 14 HRS ON 12/64" TO 24/64" CHOKES. FCP 1400 PSIG. 40-50 BFPH. LIGHT SAND & NO CONDENSATE. RECOVERED 1120 BLW. 2138 BLWTR.

<b>10-15-2003</b>		<b>Reported By</b>		GENE SEARLE							
<b>Daily Costs: Drilling</b>		\$0		<b>Completion</b>		\$6,050		<b>Daily Total</b>		\$6,050	
<b>Cum Costs: Drilling</b>		\$2,136,919		<b>Completion</b>		\$663,333		<b>Well Total</b>		\$2,800,252	
<b>MD</b>	12,710	<b>TVD</b>	12,626	<b>Progress</b>	0	<b>Days</b>	84	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation : ISLAND</b>		<b>PBTD : 12643.0</b>		<b>Perf : 6262-8613</b>		<b>PKR Depth : 0.0</b>					
<b>Activity at Report Time: FRAC WASATCH</b>											
<b>Start</b>	<b>End</b>	<b>Hrs</b>	<b>Activity Description</b>								
06:00	06:00	24.0	FLOWED 24 HRS ON 24/64" CHOKE. FCP 1500 PSIG, EST 3-5 BPH, EST 4500 MCFD. EST BLWR 675, EST BLWTR 1463.								

<b>10-16-2003</b>		<b>Reported By</b>		GENE SEARLE							
<b>Daily Costs: Drilling</b>		\$0		<b>Completion</b>		\$11,705		<b>Daily Total</b>		\$11,705	
<b>Cum Costs: Drilling</b>		\$2,136,919		<b>Completion</b>		\$675,038		<b>Well Total</b>		\$2,811,957	
<b>MD</b>	12,710	<b>TVD</b>	12,626	<b>Progress</b>	0	<b>Days</b>	85	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation : ISLAND</b>		<b>PBTD : 12643.0</b>		<b>Perf : 6262-8613</b>		<b>PKR Depth : 0.0</b>					
<b>Activity at Report Time: FRAC WASATCH</b>											
<b>Start</b>	<b>End</b>	<b>Hrs</b>	<b>Activity Description</b>								
06:00	20:00	14.0	FLOWED 1 HR ON 24/64" CHOKE. FCP 1500 PSIG. KILLED WELL WITH 100 BBL TREATED WATER. RIH WITH 3 7/8" BIT. TAGGED PLUG @ 6360'. RU POWER SWIVEL. DRILLED OUT PLUGS @ 6360', 6850', 7250' & 7740'. TAGGED FILL @ 8620'. CLEANED OUT TO 8680'. POH. RIH WITH PRODUCTION STRING. LANDED TUBING @ 8635' KB. ND BOPE & NU TREE. SIFN.								

TUBING DETAIL

2-3/8" NOTCHED COLLAR .41'  
 1 JT 2 3/8" X 4.7# N80 32.75'  
 XN NIPPLE 1.10'  
 263 JTS 2 3/8" X 4.7# N80 8588.15'  
 BELOW KB 13.00'  
 LANDED TUBING @ 8635.41' KB

NOTE: 10K COMPOSITE PLUG @ 8704' LEFT IN PLACE

<b>10-17-2003</b>		<b>Reported By</b>		GENE SEARLE							
<b>Daily Costs: Drilling</b>		\$0		<b>Completion</b>		\$3,720		<b>Daily Total</b>		\$3,720	
<b>Cum Costs: Drilling</b>		\$2,136,919		<b>Completion</b>		\$678,758		<b>Well Total</b>		\$2,815,677	
<b>MD</b>	12,710	<b>TVD</b>	12,626	<b>Progress</b>	0	<b>Days</b>	86	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation : WASATCH</b>		<b>PBTD : 12643.0</b>		<b>Perf : 6262-8613</b>		<b>PKR Depth : 0.0</b>					
<b>Activity at Report Time: RETURN TO SALES</b>											
<b>Start</b>	<b>End</b>	<b>Hrs</b>	<b>Activity Description</b>								

06:00 06:00 24.0 SITP 0 PSIG. SICP 1200 PSIG. MADE 1 SWAB RUN. IFL 1000 PSIG. WELL KICKED OFF. RDSU. FLOWED 4.5 HRS ON 32/64" CHOKE. FTP 900 PSIG. CP 1100 PSIG. EST 8-10 BPH. EST 4500 MCFD. TURNED WELL OVER TO PRODUCTION DEPARTMENT & RETURNED WELL TO SALES.

10-20-2003 Reported By JAY ORR

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
Cum Costs: Drilling \$2,136,919 Completion \$678,758 Well Total \$2,815,677
MD 12,710 TVD 12,626 Progress 0 Days 87 MW 0.0 Visc 0.0
Formation : WASATCH PBT D : 12643.0 Perf : 6262-8613 PKR Depth : 0.0

Activity at Report Time: ON SALES

Start End Hrs Activity Description

06:00 06:00 24.0 10/18/03 - FLOWED 821 MCF, 10 BC & 56 BW IN 19 HRS ON 12/64" CK, FTP 1900 & CP 2200 PSIG.

10/19/03 - FLOWED 1251 MCF, 11 BC & 35 BW IN 24 HRS ON 12/64" CK, FTP 1900 & CP 2200 PSIG.

10/20/03 - FLOWED 1297 MCF, 8 BC & 36 BW IN 24 HRS ON 12/64" CK, FTP 1900 & CP 2200 PSIG.

10-21-2003 Reported By JAY ORR

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
Cum Costs: Drilling \$2,136,919 Completion \$678,758 Well Total \$2,815,677
MD 12,710 TVD 12,626 Progress 0 Days 88 MW 0.0 Visc 0.0
Formation : WASATCH PBT D : 12643.0 Perf : 6262-8613 PKR Depth : 0.0

Activity at Report Time: ON SALES

Start End Hrs Activity Description

06:00 06:00 24.0 FLOWED 1342 MCF, 10 BC & 38 BW IN 24 HRS ON 12/64" CK, FTP 1900 & CP 2150 PSIG.

10-22-2003 Reported By JAY ORR

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
Cum Costs: Drilling \$2,136,919 Completion \$678,758 Well Total \$2,815,677
MD 12,710 TVD 12,626 Progress 0 Days 89 MW 0.0 Visc 0.0
Formation : WASATCH PBT D : 12643.0 Perf : 6262-8613 PKR Depth : 0.0

Activity at Report Time: ON SALES

Start End Hrs Activity Description

06:00 06:00 24.0 FLOWED 1585 MCF, 12 BC & 32 BW IN 24 HRS ON 12/64" CK, FTP 1920 & CP 2120 PSIG.

10-23-2003 Reported By JAY ORR

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
Cum Costs: Drilling \$2,136,919 Completion \$678,758 Well Total \$2,815,677
MD 12,710 TVD 12,626 Progress 0 Days 90 MW 0.0 Visc 0.0
Formation : WASATCH PBT D : 12643.0 Perf : 6262-8613 PKR Depth : 0.0

Activity at Report Time: ON SALES

Start End Hrs Activity Description

06:00 06:00 24.0 FLOWED 1340 MCF, 8 BO & 28 BW IN 24 HRS ON 12/64" CHOKE, TP 1900 PSIG & CP 2100 PSIG.

10-24-2003 Reported By JAY ORR

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0