

EOG Resources, Inc.
P.O. 1910
Vernal, UT 84078

January 21, 2003

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 214-33
SE/NW, SEC. 33, 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

JAN 28 2003

DIV. OF OIL, GAS & MINING

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

001

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. TYPE OF WORK DRILL REENTER

b. TYPE OF WELL Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator

EOG RESOURCES, INC.

3a. Address

P.O. BOX 1910, VERNAL, UT 84078

3b. Telephone Number: **(435)789-4120**

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface

1924' FNL & 1822' FWL 4437572Y SE/NW 40.08139
622656X -109.56142

At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*

6.8 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)

1822'

16. No. of acres in lease

1920

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

See Map C

19. Proposed depth

12,750'

17. Spacing Unit dedicated to this well

20. BLM/BIA Bond No. on file

#NM 2308

21. Elevations (show whether DF, KDB, RT, GL, etc.)

4726.0 FEET GRADED GROUND

22. Approx. date work will start*

UPON APPROVAL

23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|--|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see item 20 above). |
| 2. A Drilling Plan | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System lands, the SUPO shall be filed with the appropriate Forest Service Office. | 6. Such other site specific information and/or plans as may be required by the Authorized officer. |

25. Signature

Ed Trotter

Name (Printed/ Typed)

Ed Trotter

Date

January 21, 2003

Title

Agent

Approved by (Signature)

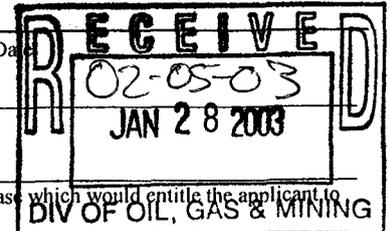
Bradley G. Hill

Name (Printed/Typed)

**BRADLEY G. HILL
ENVIRONMENTAL SCIENTIST III**

Title

Federal Approval of this Action is Necessary



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, are attached.

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.

*(Instructions on reverse)

CONFIDENTIAL

5. Lease serial No.

U-9613

6. If Indian, Allottee or Tribe name

UTE INDIAN TRIBE

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

CR-99

8. Lease Name and Well No.

NORTH DUCK CREEK 214-33

9. API Well No.

43-047-34878

10. Field and pool, or Exploratory

11. Sec., T., R., M., or BLK. And survey of area

SEC. 33, T8S, R21E, S.L.B.&M.

12. County or parish

UINTAH

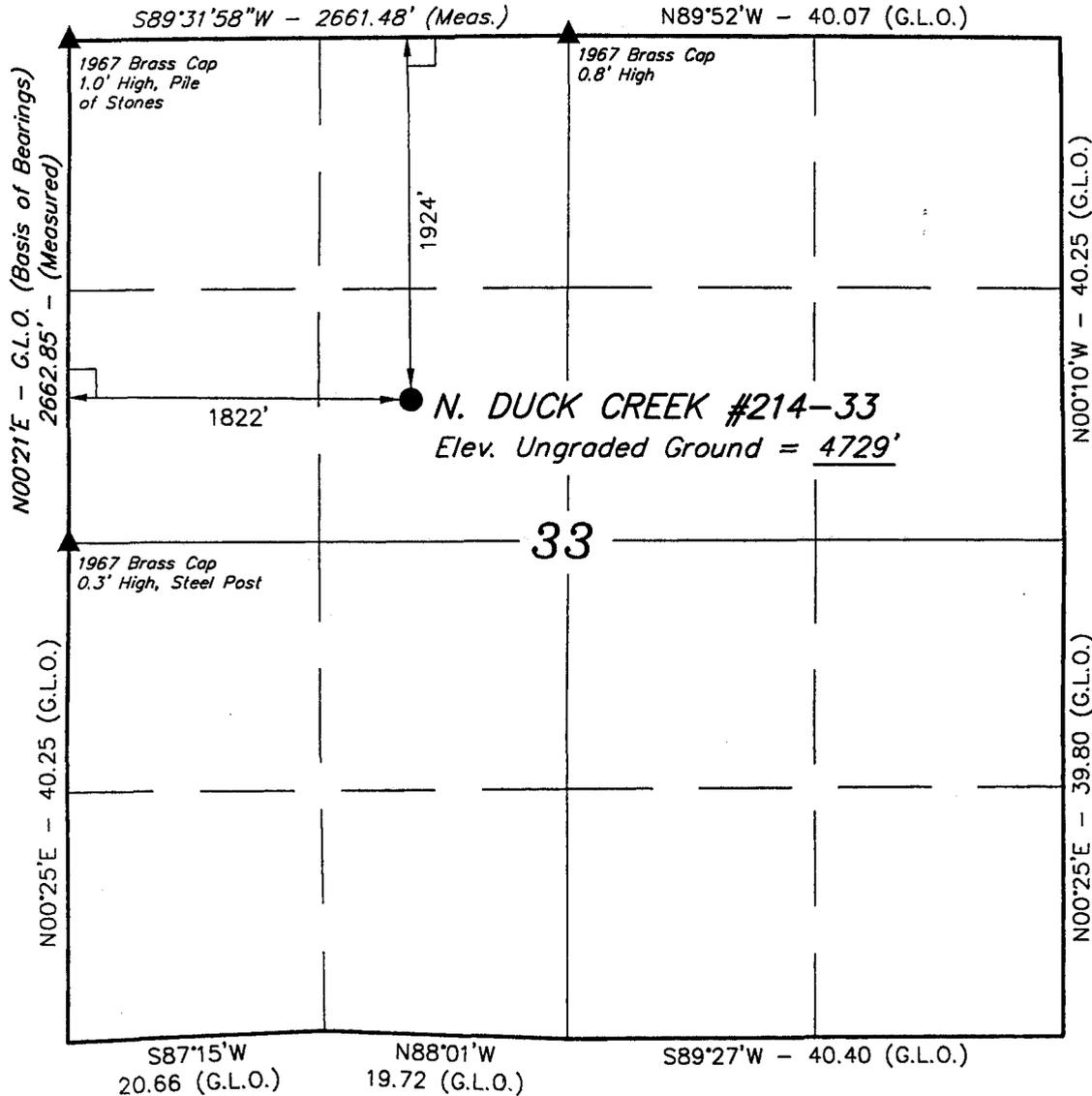
13. State

UTAH

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

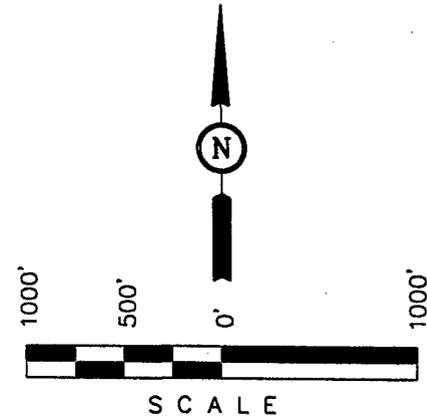
EOG RESOURCES, INC.

Well location, N. DUCK CREEK #214-33, located as shown in the SE 1/4 NW 1/4 of Section 33, T8S, R21E, S.L.B.&M. Uintah County, Utah.



BASIS OF ELEVATION

SPOT ELEVATION AT A ROAD INTERSECTION, IN THE SE 1/4 SE 1/4 OF SECTION 28, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UTAH COUNTY 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4784 FEET.



CERTIFICATE

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

REGISTERED LAND SURVEYOR
 No. 101319
 STATE OF UTAH
 KAY

LEGEND:

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

LATITUDE = 40°04'54"
 LONGITUDE = 109°33'43"

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

SCALE 1" = 1000'	DATE SURVEYED: 1-14-02	DATE DRAWN: 1-15-02
PARTY G.S. K.S. D.COX	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

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

FORMATION	DEPTH (KB)
Green River Oil Shale	2500'
Kicker Sand	3500'
Wasatch	5814'
Island	8748'
KMV Cret. Price River	9187'
KMV Lower Price River	10,655'
Sego	11,040'
KMV Castlegate	11,143'
Black Hawk Shale	11,400'
KMV Black Hawk	11,610'
Mancos 'B'	12,426'

EST. TD: 12,750'

Anticipated BHP 5600 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#
12 1/4"	500' - 3400' +/- KB	3400' +/-	9 5/8"	36.0 #	J-55	ST&C	2020 PSI	3520 PSI	394,000#
7 7/8"	3400' - TD +/-KB	12,750' +/-	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 (500-3400'):

Float Shoe (PDC drillable)

Float Collar (PDC drillable)

Cents.: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (15 total)

Have bottom of collar on jt. #1 tack-welded, thread-lock guide shoe and top of jt. #1.

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

FLOAT EQUIPMENT (CONTINUED):

Production Hole Procedure (3400'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Run marker collars at $\pm 11600'$ and $\pm 8600'$ (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 FS, top and bottom of FC, and top of 2nd joint.

NOTE: Differential back-pressure rating on internal valves in float equipment is 5000 psi, differential plug-bump pressure rating is 6500 psi. Body burst rating on float equipment is 9625 psi, body collapse rating is 9900 psi.

6. MUD PROGRAM

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

Air – Air Water Mist

Intermediate Hole Procedure (500-3400'):

Water (circulate through reserve pit) with Gel/LCM sweeps. 9.1-9.4 ppg mud may be required to control Trona water flows from the Green River Formation. Any mud weights exceeding 9.0 ppg will probably require coincidental additions of LCM to control losses in adjacent zones.

Production Hole Procedure (3400'-TD):

3400'-5600' Water (circulate through reserve pit) with Gel/LCM sweeps.

5600'-8400' Close in mud system. 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.

8400'-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: 15-17 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 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

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.

8. EVALUATION PROGRAM:

Logs: Schlumberger Platform Express TD – Surface Casing, with Di-pole Sonic from TD to surface in 1 run. 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 (CaCl₂) & 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 (CaCl₂) 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 spud rig.

Intermediate Hole Procedure (500'-3400')

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 ft³/sk., 24.5 gps water.

Tail: 410 sx. (50% excess volume) Class 'G' cement (coverage from 3400-2000') with 10% D53 (Gypsum), 1% S1 (CaCl₂) & 0.25 pps D29 (Cellophane flakes) mixed at 14.2 ppg, 1.61 ft³/sk., 7.9 gps water.

Cement (cont'd): 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 (3400' 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 circulation). Utilize all available pump rate and thin mud to below 40 vis prior to cementing. Set on

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

CEMENT Production Hole Procedure (3400' to TD)-(CONTINUED)

bottom if it starts getting sticky. Bump plug 1000 psi over FPP (not to exceed 10000 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), 0.15 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 14.0 ppg, 1.29 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 (500-3400')

Potential Problems: Lost circulation, minor amounts of gas, asphaltic, black oil and Trona water flows may be encountered in the Green River, beginning at 2500'. Monitor for and report any hydrocarbon shows and/or water zones. Although the Kicker Sand, containing potential water and gas flows requiring 9.0-9.7 ppg mud weights to control, is not predicted to come in until 3500' (100' 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 (3400'-TD)

Potential Problems: Moderate amounts of gas, oil and water have been encountered in the Kicker Sand on offset wells in Section 33, requiring fairly normal mud weights to control (9.0-9.7 ppg). Formation pressures in the Mesaverde, Black Hawk and Mancos productive zones could require up to 13.0 ppg mud weights to control. At the same time, research indicates that mud losses are possible throughout all of the 7-7/8" hole. Have a variety of LCM particle sizes on location in ample supply to cover your needs. In addition, sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

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

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, 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.

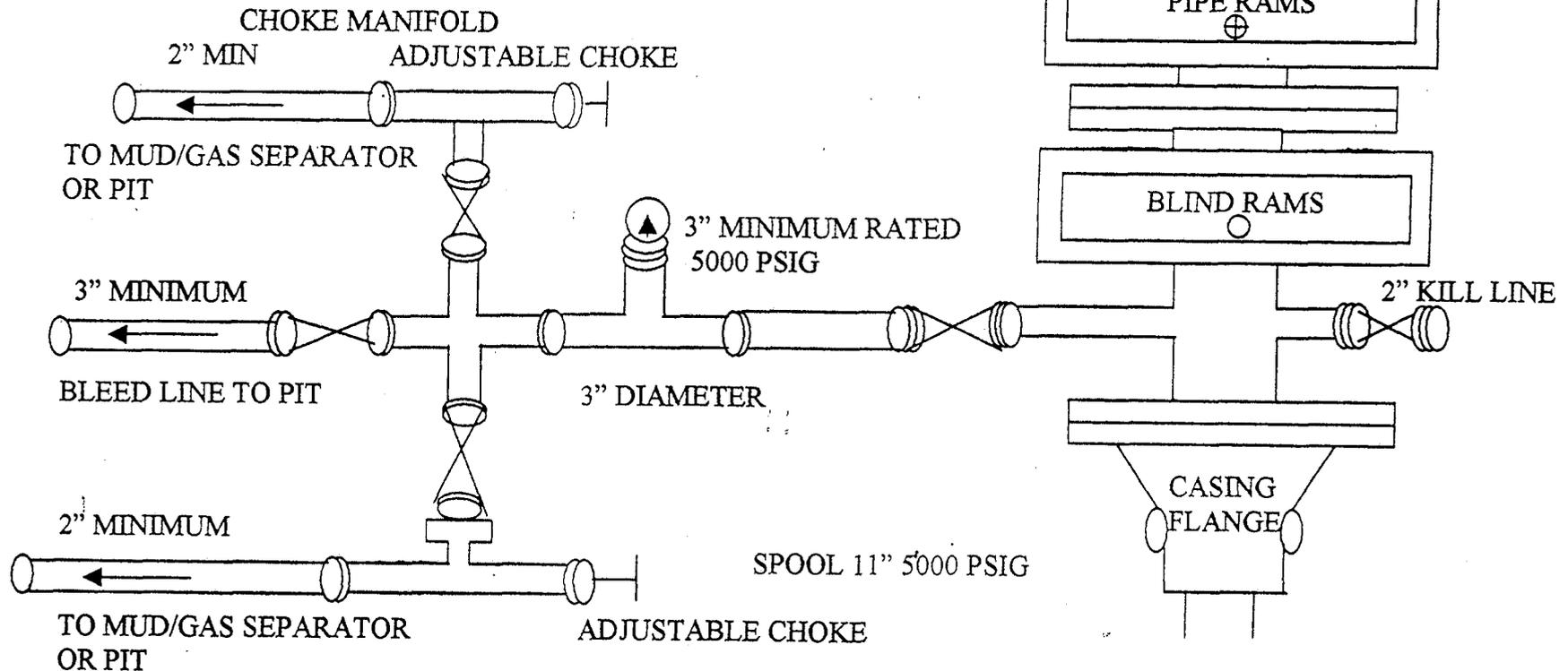
(Attachment: BOP Schematic Diagram)

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.



EOG RESOURCES, INC.
N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 3.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 37.8 MILES.

**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 214-33
Lease Number: U-9613
Location: 1924' FNL & 1822' FWL, SE/NW, Sec.33,
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 6.8 miles southeast of Ouray, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

2. PLANNED ACCESS ROAD

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

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

All travel will be confined to existing access road Right-of-Way. Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service Publication: Surface Operating Standards For Oil & Gas Exploration and Development, (1989).

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

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

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

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

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

- A. Abandoned wells – 1*
- B. Producing wells - 20*
- C. Shut in wells – 1*

(*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.
- 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 1800’ from proposed location to a point in the SW/NW of Section 33, 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 East 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 Northwest corner of the location. The flare pit will be located downwind of the prevailing wind direction on the North 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 along the West side, North of the access road.

Access to the well pad will be from the West.

Corner #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 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

PERMITTING AGENT

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

DRILLING OPERATIONS

Donald Presenkowski
EOG Resources, Inc.
P.O. Box 250
Big Piney, WY 83113
Telephone: (307)276-4865

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.

Date

Agent

EOG RESOURCES, INC.
N. DUCK CREEK #214-33
 LOCATED IN UTAH COUNTY, UTAH
 SECTION 33, T8S, R21E, S.L.B.&M.

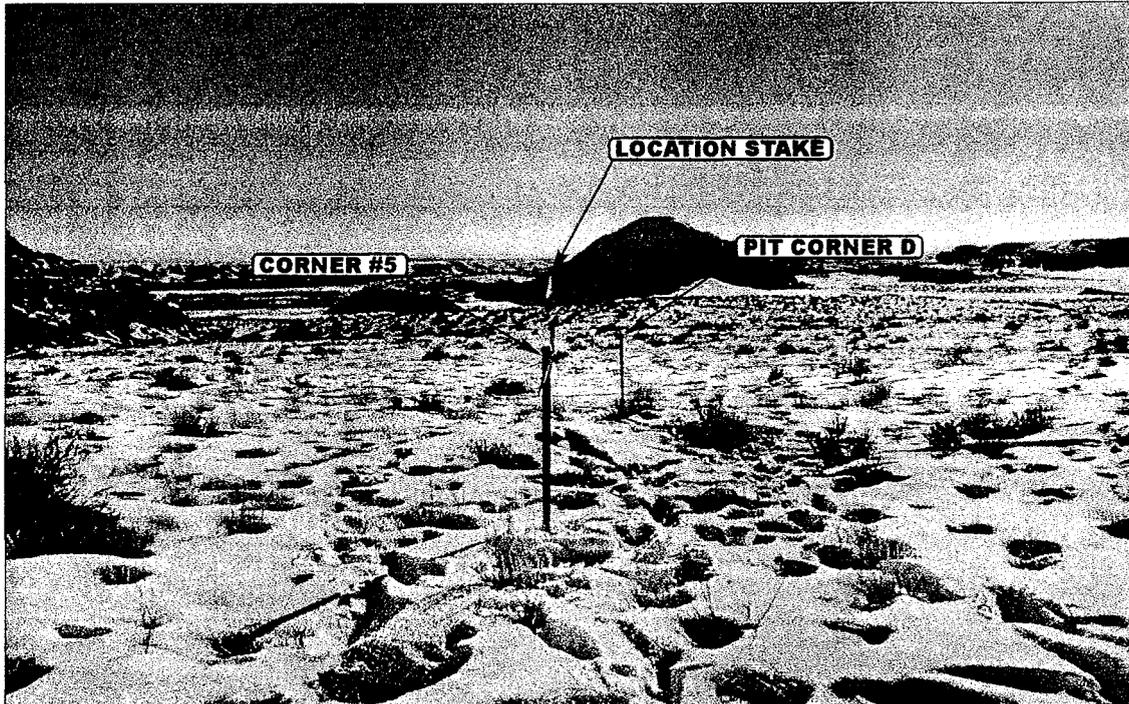


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

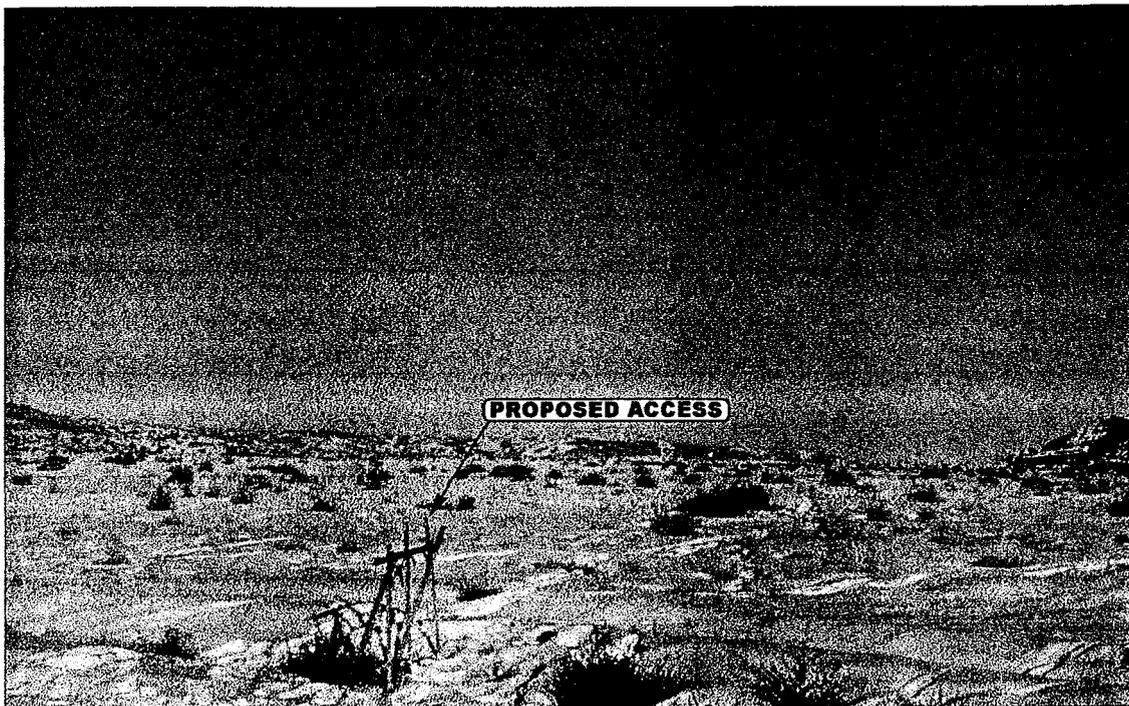


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY

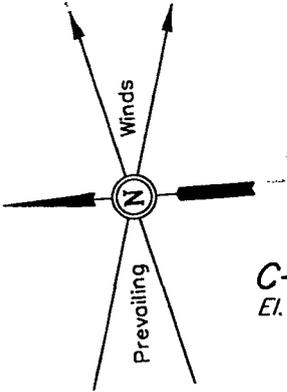


UELS Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	1	18	02	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: P.M.	REVISED: 00-00-00		

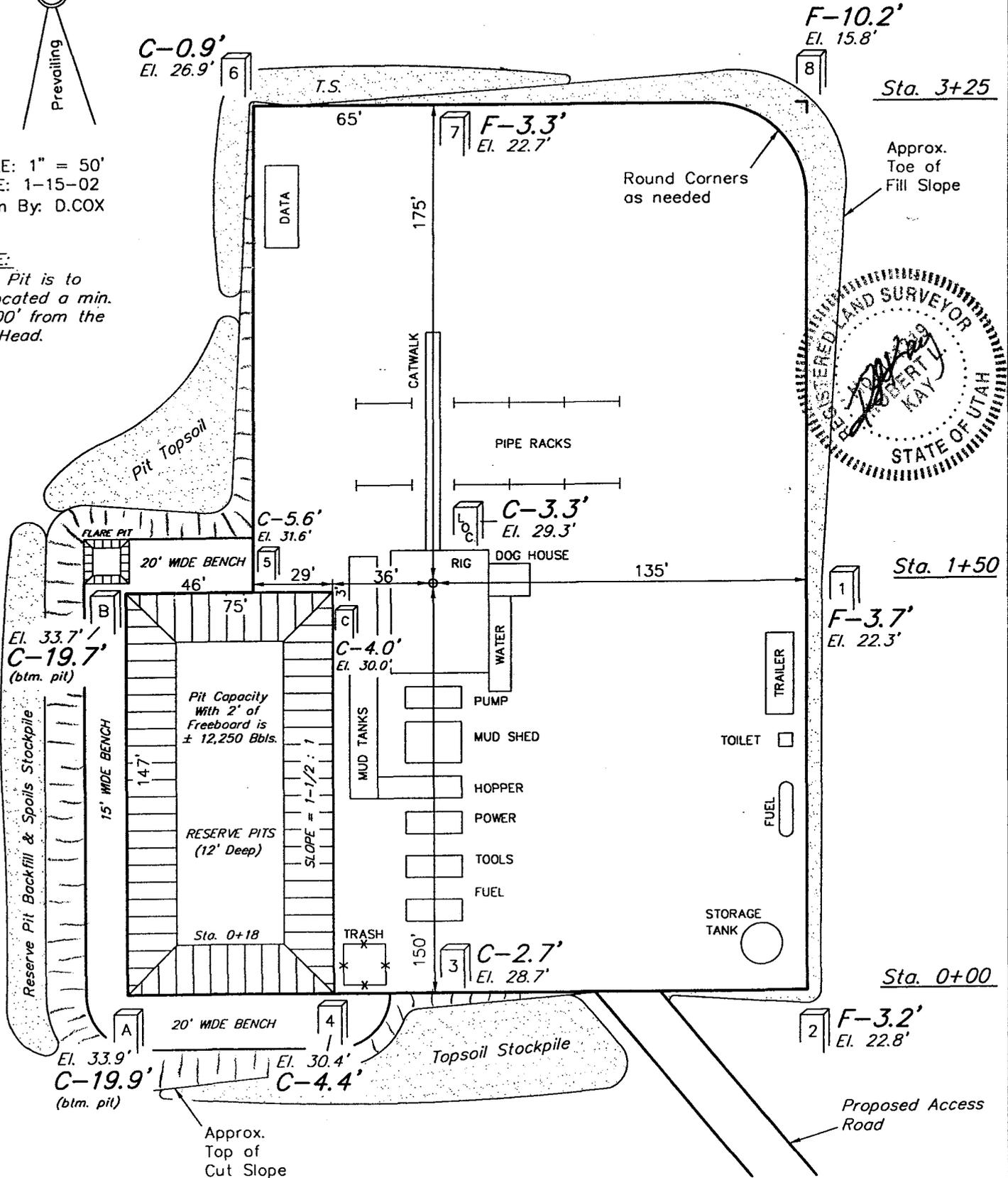
EOG RESOURCES, INC.

LOCATION LAYOUT FOR
 N. DUCK CREEK #214-33
 SECTION 33, T8S, R21E, S.L.B.&M.
 1924' FNL 1822' FWL



SCALE: 1" = 50'
 DATE: 1-15-02
 Drawn By: D.COX

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



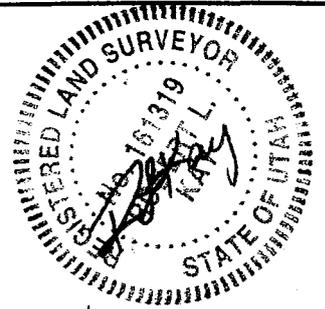
Elev. Ungraded Ground at Location Stake = 4729.3'
 Elev. Graded Ground at Location Stake = 4726.0'

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

EOG RESOURCES, INC.

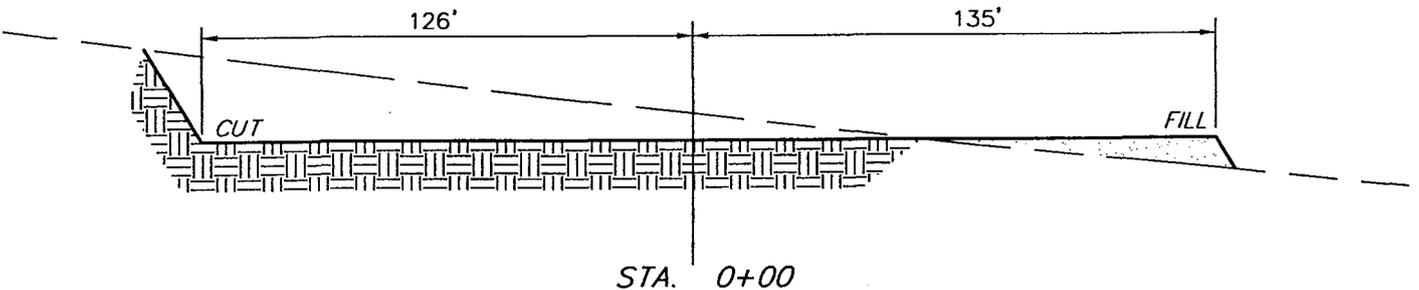
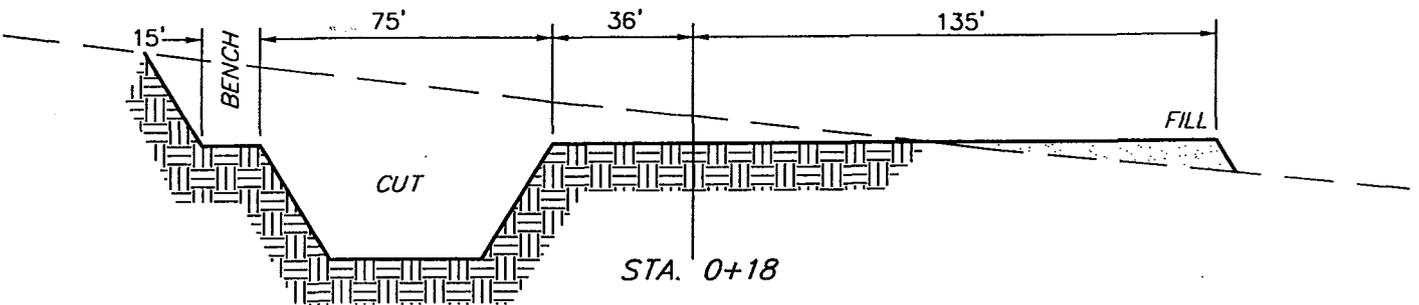
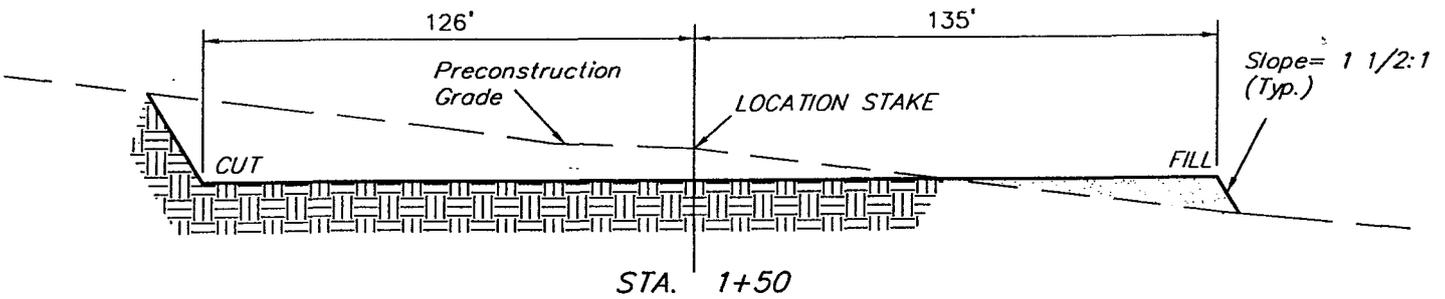
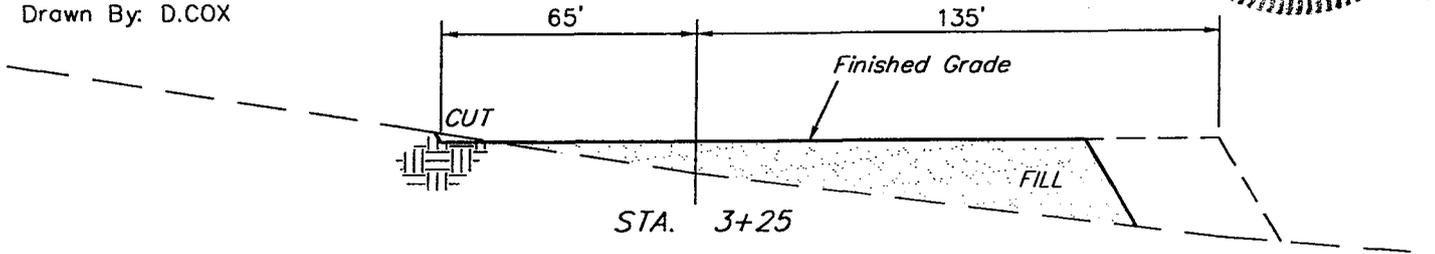
TYPICAL CROSS SECTIONS FOR

N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.
1924' FNL 1822' FWL



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

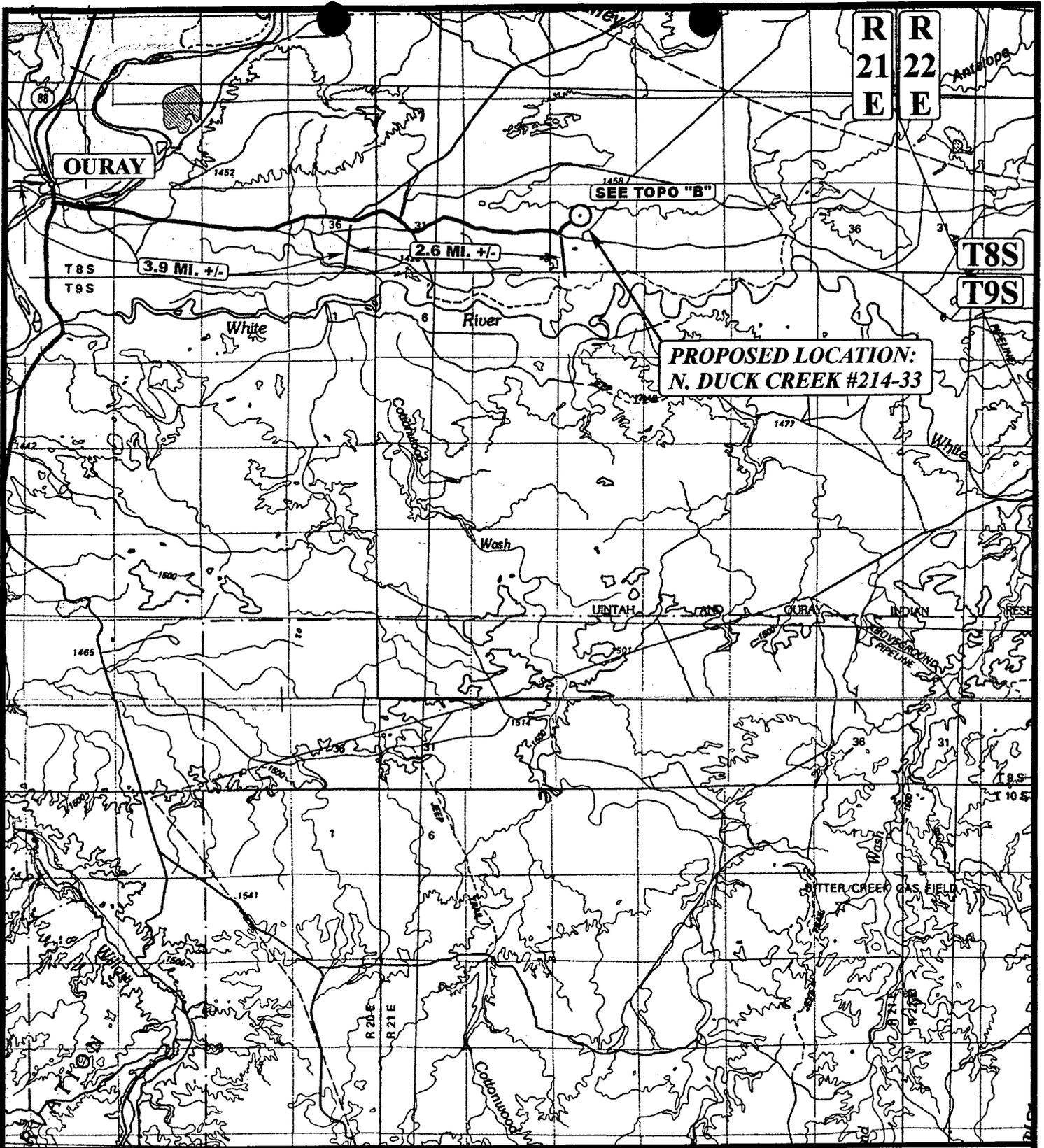
DATE: 1-15-02
Drawn By: D.COX



APPROXIMATE YARDAGES

(6") Topsoil Stripping = 2,860 Cu. Yds.
Remaining Location = 8,000 Cu. Yds.
TOTAL CUT = 10,860 CU.YDS.
FILL = 6,020 CU.YDS.

EXCESS MATERIAL AFTER 5% COMPACTION = 4,520 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,520 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 0 Cu. Yds.



LEGEND:

○ PROPOSED LOCATION

EOG RESOURCES, INC.

**N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.
1924' FNL 1822' FWL**



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



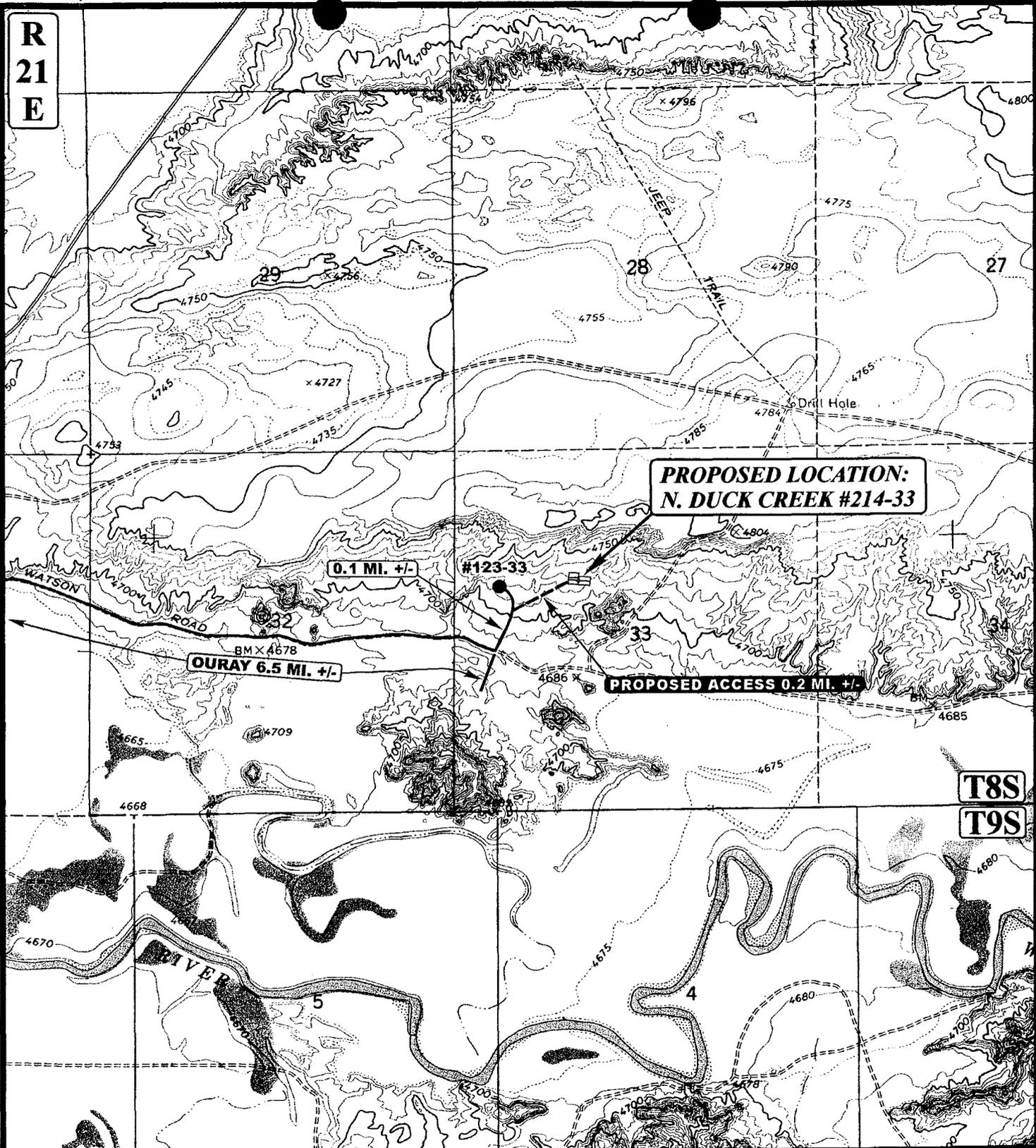
**TOPOGRAPHIC
MAP**

1	18	02
MONTH	DAY	YEAR

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



R
21
E



**PROPOSED LOCATION:
N. DUCK CREEK #214-33**

0.1 MI. +/-

#123-33

OURAY 6.5 MI. +/-

PROPOSED ACCESS 0.2 MI. +/-

T8S
T9S

LEGEND:

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD



EOG RESOURCES, INC.

**N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.
1924' FNL 1822' FWL**

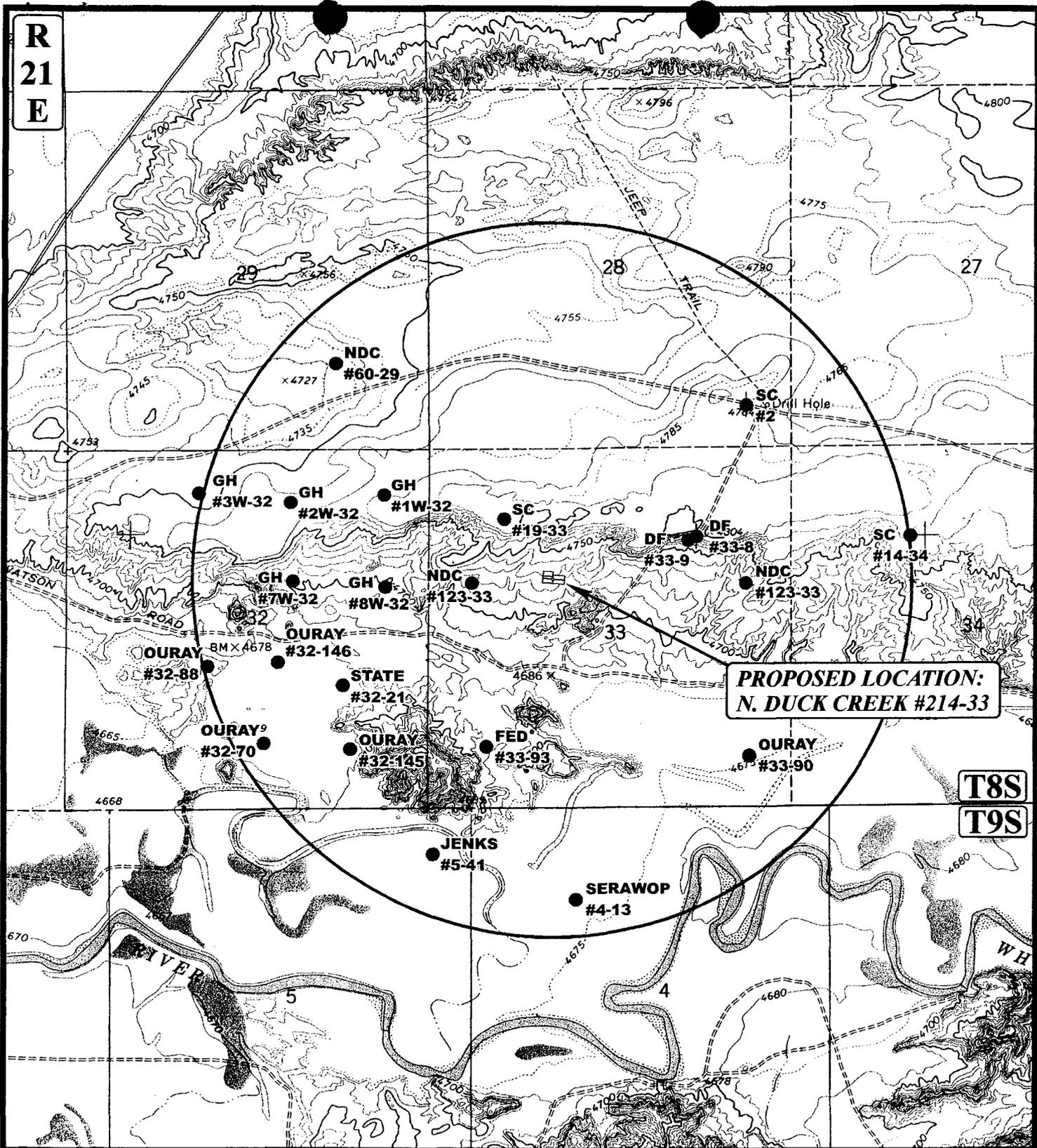


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC	1	18	02
MAP	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: P.M.		REVISED: 00-00-00



R
21
E



**PROPOSED LOCATION:
N. DUCK CREEK #214-33**

T8S
T9S

LEGEND:

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



EOG RESOURCES, INC.

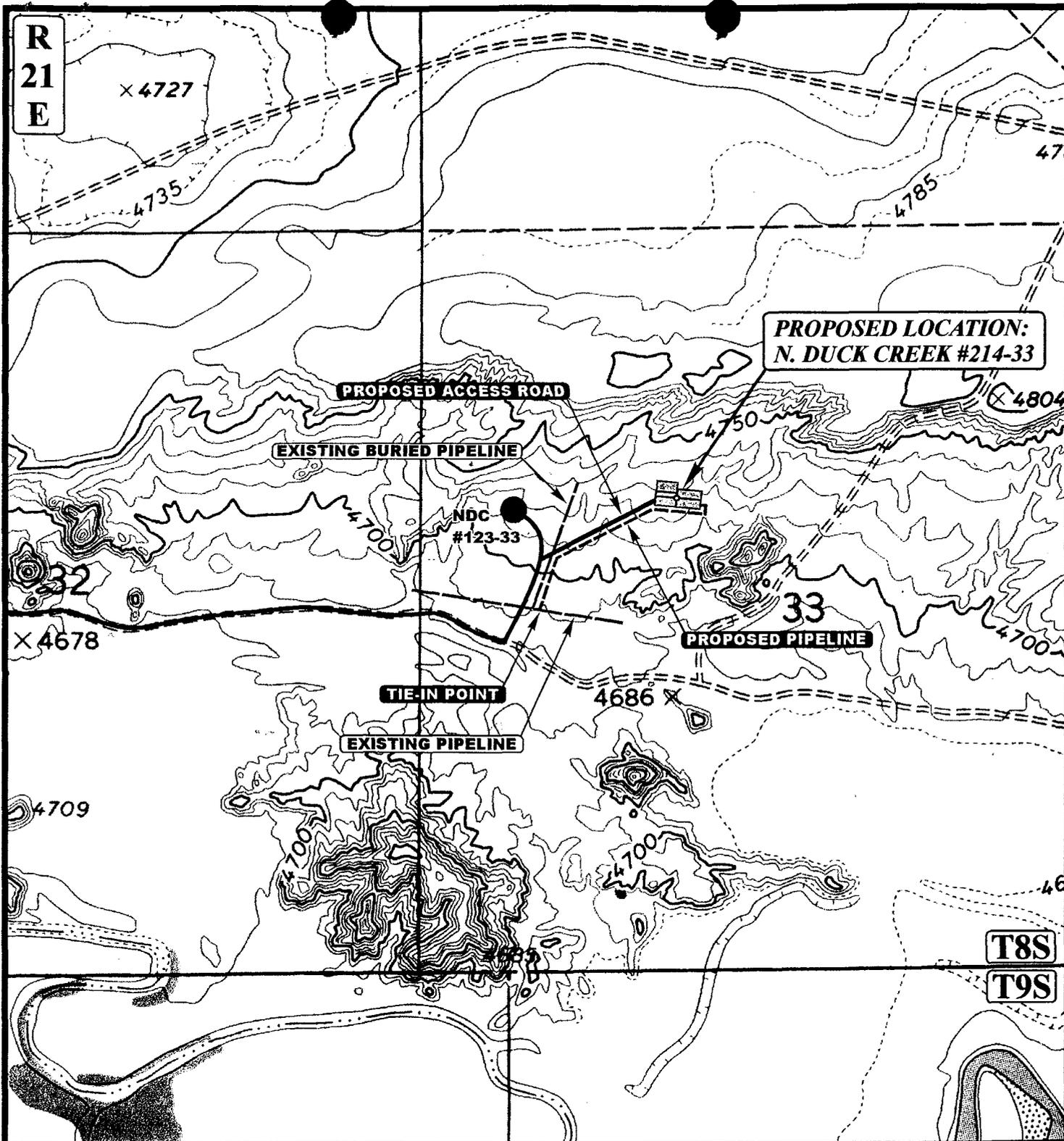
**N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.
1924' FNL 1822' FWL**



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

TOPOGRAPHIC	1	18	02
MAP	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: P.M.		REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 1,800' +/-

LEGEND:

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



EOG RESOURCES, INC.

**N. DUCK CREEK #214-33
SECTION 33, T8S, R21E, S.L.B.&M.
1924' FNL 1822' FWL**

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

TOPOGRAPHIC 1 18 02
 MONTH DAY YEAR
MAP
 SCALE: 1" = 1000' DRAWN BY: P.M. REVISED: 00-00-00

D
TOPO

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 01/28/2003

API NO. ASSIGNED: 43-047-34878

WELL NAME: N DUCK CREEK 214-33
OPERATOR: EOG RESOURCES INC (N9550)
CONTACT: ED TROTTER

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:
SENW 33 080S 210E
SURFACE: 1924 FNL 1822 FWL
BOTTOM: 1924 FNL 1822 FWL
UINTAH
NATURAL BUTTES (630)

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

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

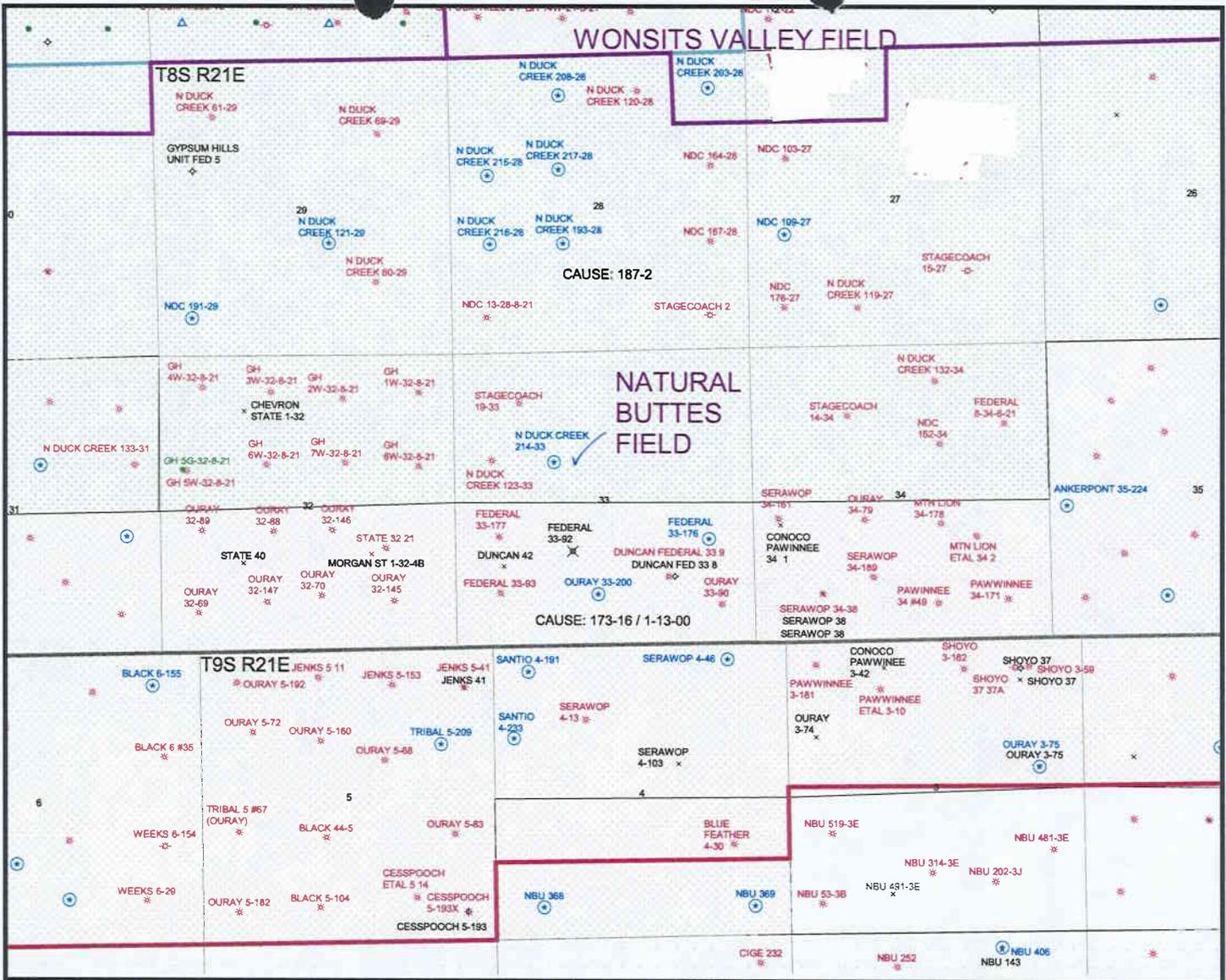
LATITUDE: 40.08139
LONGITUDE: 109.56142

RECEIVED AND/OR REVIEWED:
 Plat
 Bond: Fed[1] Ind[] Sta[] Fee[]
(No. NM 2308)
N Potash (Y/N)
N Oil Shale 190-5 (B) or 190-3 or 190-13
 Water Permit
(No. 49-1501)
N RDCC Review (Y/N)
(Date: _____)
NA 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: 173-12
Eff Date: 1-13-00
Siting: 460' fr boundary & 920' fr other wells.
____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: 1-federal approval



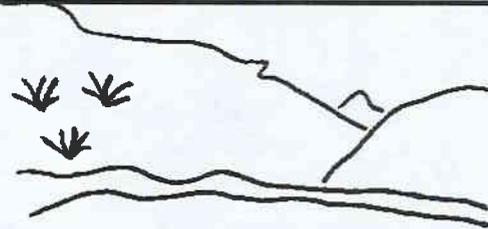
OPERATOR: EOG RESOURCES (N9550)

SEC. 33 T8S, R21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-16 / 1-13-00



Utah Oil Gas and Mining

WELLS

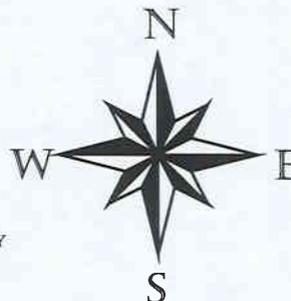
- ⤴ GAS INJECTION
- GAS STORAGE
- × LOCATION ABANDONED
- ⊕ NEW LOCATION
- ⬠ PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- × TEMP. ABANDONED
- TEST WELL
- ▲ WATER INJECTION
- WATER SUPPLY
- ⤴ WATER DISPOSAL

UNIT STATUS

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

FIELD STATUS

- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- COUNTY BOUNDARY
- SECTION LINES
- TOWNSHIP LINES



PREPARED BY: DIANA MASON
DATE: 31-JANUARY-2003



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

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
(801) 538-5340 telephone
(801) 359-3940 fax
(801) 538-7223 TTY
www.nr.utah.gov

Michael O. Leavitt
Governor

Robert L. Morgan
Executive Director

Lowell P. Braxton
Division Director

February 5, 2003

EOG Resources, Inc.
P O Box 1910
Vernal, UT 84078

Re: North Duck Creek 214-33 Well, 1924' FNL, 1822' FWL, SE NW, Sec. 33, 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 43-047-34878.

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 214-33
API Number: 43-047-34878
Lease: U-9613

Location: SE NW **Sec.** 33 **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

005

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. TYPE OF WORK DRILL REENTER
b. TYPE OF WELL Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
EOG RESOURCES, INC.

3a. Address
P.O. BOX 1910, VERNAL, UT 84078

3b. Telephone Number: **(435)789-4120**

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface
1924' FNL & 1822' FWL SE/NW
At proposed prod. Zone

14. Distance in miles and direction from nearest town or post office*
6.8 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) **1822'**
16. No. of acres in lease **1920**

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft. **See Map C**
19. Proposed depth **12,750'**

21. Elevations (show whether DF, KDB, RT, GL, etc.) **4726.0 FEET GRADED GROUND**
22. Approx. date work will start* **UPON APPROVAL**

24. Attachments

5. Lease serial No.
U-9613

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

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

8. Lease Name and Well No.
NORTH DUCK CREEK 214-33

9. API Well No.

10. Field and pool, or Exploratory

11. Sec., T., R., M., or BLK. And survey of area
SEC. 33, T8S, R21E, S.L.B.&M.

12. County or parish
UINTAH

13. State
UTAH

17. Spacing Unit dedicated to this well

20. BLM/BIA Bond No. on file
#NM 2308

23. Estimated duration

RECEIVED
APR 30 2003
DIV OF OIL, GAS & MINING

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System lands, the SUPO shall be filed with the appropriate Forest Service Office.
- Bond to cover the operations unless covered by an existing bond on file (see item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the Authorized officer.

25. Signature *Ed Trotter* Name (Printed/Typed) **Ed Trotter** Date **January 21, 2003**

Title **Agent**
Approved by (Signature) *[Signature]* Name (Printed/Typed) Date **04/14/2003**
Title **Assistant Field Manager** Office
Mineral Resources

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, are attached.

NOTICE OF APPROVAL

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.

*(Instructions on reverse)

CONDITIONS OF APPROVAL ATTACHED

RE-POST 11/23/02

02MK0022A

CONDITIONS OF APPROVAL
APPLICATION FOR PERMIT TO DRILL

Company/Operator: EOG Resources, Inc.

Well Name & Number: NDC 214-33

Lease Number: U-9613

API Number: 43-047-34878

Location: SE₁W₄ Sec. 33 T.8S R. 21E

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

CONDITIONS OF APPROVAL

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

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

2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **5M** 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.

The variances requested in section 6 of the 8 point drilling plan are granted with the following conditions:

If a mist system is being utilized then the requirement for a deduster shall be waived.

Where the location and rig layout allows, the bloopie line shall be straight and extend 100' from the wellbore. This requirement will be waived only in the case where the location is too small to accommodate it.

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.

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft of casing string length or 1500 psi, whichever is greater but not to exceed 70% of the minimum internal yield.

If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

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

5. Coring, Logging and Testing Program

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

Please submit to this office, in LAS format, an electronic copy of all logs run on this well. This submission will replace the requirement for submittal of paper logs to the BLM.

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.

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. Written notification of such must be submitted to this office 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 emergencies, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days

following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

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

All off-lease storage, off-lease measurement, or commingling 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, you must contact one of the following individuals:

Ed Forsman, Petroleum Engineer	(435) 828-7874
Kirk Fleetwood, Petroleum Engineer	(435) 828-7875
BLM FAX Machine	(435) 781-4410

EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

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

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

Refinery wastes

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

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

**SURFACE 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 1253 feet long, shall be granted for the new access road. Another corridor ROW, 30 feet wide and 1253 feet long, shall be granted for the proposed pipeline. 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, cattle guards 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.

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 paleontology 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 paleontology 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.

006

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

5. LEASE DESIGNATION AND SERIAL NUMBER:
U-9613

SUNDRY NOTICES AND REPORTS ON WELLS

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

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:

1. TYPE OF WELL
OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
NORTH DUCK CREEK 214-33

2. NAME OF OPERATOR:
EOG RESOURCES, INC.

9. API NUMBER:
4304734878

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: 1924' FNL, 1822' FWL COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 33 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 checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input checked="" 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 checked="" 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 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.

See attached revised 8 Point Plan

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 06-02-03
By: *[Signature]*

COPY SENT TO OPERATOR
Date: 6-3-03
Initials: CHD

NAME (PLEASE PRINT) Ed Trotter TITLE Agent
SIGNATURE *[Signature]* DATE 5/21/2003

(This space for State use only)

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MAY 29 2003
DIV. OF OIL, GAS & MINING

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

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

FORMATION	DEPTH (KB)
Green River Oil Shale	2500'
Kicker Sand	3500'
Wasatch	5814'
Island	8748'
KMV Cret. Price River	9187'
KMV Lower Price River	10,655'
Sego	11,040'
KMV Castlegate	11,143'
Black Hawk Shale	11,400'
KMV Black Hawk	11,610'
Mancos 'B'	12,426'

EST. TD: 12,750'

Anticipated BHP 5600 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>
12 1/4"	0-300' +/- KB	300' +/-	9 5/8"	36.0 #	J-55	ST&C	2020 PSI	3520 PSI	394,000#
8 3/4"	300'-5800'+-KB	5800'+-	7"	23#	J-55	LT&C	3270 PSI	4360 PSI	313,000#
7 7/8"	3400' - TD +/-KB	12,750' +/-	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 (0-300' 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 (300-5800'):

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

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

FLOAT EQUIPMENT (CONTINUED):

Production Hole Procedure (5800'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Run marker collars at $\pm 11600'$ and $\pm 8600'$ (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 FS, top and bottom of FC, and top of 2nd joint.

NOTE: Differential back-pressure rating on internal valves in float equipment is 5000 psi, differential plug-bump pressure rating is 6500 psi. Body burst rating on float equipment is 9625 psi, body collapse rating is 9900 psi.

6. MUD PROGRAM

Surface Hole Procedure (0-300' below GL):

Air – Air Water Mist

Intermediate Hole Procedure (300-5800'):

Water (circulate through reserve pit) with Gel/LCM sweeps. 9.1-9.4 ppg mud may be required to control Trona water flows from the Green River Formation. Any mud weights exceeding 9.0 ppg will probably require coincidental additions of LCM to control losses in adjacent zones.

3400'-5600' Water (circulate through reserve pit) with Gel/LCM sweeps.

5600'-8400' Close in mud system. 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.

Production Hole Procedure (5800'-TD):

5600'-8400' Close in mud system. 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.

8400'-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: 15-17 cc's. Expect increasing gas shows requiring heavier mud weights from top of Island onward. Treat CO2 contamination with Desco and Baracor 95.

EIGHT POINT PLAN

CONFIDENTIAL

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

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).
- 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.

8. EVALUATION PROGRAM:

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

9. CEMENT PROGRAM:

Surface Hole Procedure (0-300' Below GL):

220 sx. Class 'G' cement + 2% S001 + 0.25 pps D29, 15.58 ppg, 1.18 cuft/sk, 5.22 gal/sk

Intermediate Hole Procedure (300'-5800')

120 sx. 50:50 Poz Class G + 10% D44 + 2% D20, 14.1 ppg, 1.35 cuft/sk, 6.24 gal/sk

Production Hole Procedure (5800' to TD)

Lead: 65sx 35:65 Poz Class G + 2% D174 + 4% D20 + 0.75 D112 + 0.2% D46 + 0.15% D13 + 0.25 pps D29, 13.0 ppg, 1.74 cuft/sk, 9.05 gal/sk

Tail: 485 sx 50:50 Poz Class G + 0.1% D46 + 2% D20+ 0.75% D800 + 0.2% D167 + 0.2% D65 + 35% D66, 14.1ppg, 1.71 cuft/sk, 7.73 gal/sk

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (300-5800')

Potential Problems: Lost circulation, minor amounts of gas, asphaltic, black oil and Trona water flows may be encountered in the Green River, beginning at 2500'. Monitor for and report any hydrocarbon shows and/or water zones. Although the Kicker Sand, containing potential water and gas flows requiring 9.0-9.7 ppg mud weights to control, is not predicted to come in until 3500' (100' below planned intermediate casing shoe), be alert for any volume gains in the intermediate hole in case it is encountered shallower than expected.

EIGHT POINT PLAN

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NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

ABNORMAL CONDITIONS (Continued):

PRODUCTION HOLE (5800'-TD)

Potential Problems: Moderate amounts of gas, oil and water have been encountered in the Kicker Sand on offset wells in Section 33, requiring fairly normal mud weights to control (9.0-9.7 ppg). Formation pressures in the Mesaverde, Black Hawk and Mancos productive zones could require up to 13.0 ppg mud weights to control. At the same time, research indicates that mud losses are possible throughout all of the 7-7/8" hole. Have a variety of LCM particle sizes on location in ample supply to cover your needs. In addition, sloughing shales and keyseat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in the Price River (Mesaverde).

11. STANDARD REQUIRED EQUIPMENT:

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

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)

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DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATIONName of Company: EOG RESOURCES INCWell Name: N DUCK CREEK 214-33Api No: 43-047-34878 Lease Type: FEDERALSection 33 Township 08S Range 21E County UINTAHDrilling Contractor DALL COOK'S RIG # AIR**SPUDDED:**Date 05/29/03Time 10:00 AMHow ROTARY**Drilling will commence:** _____Reported by ED TROTTERTelephone # 1-435-789-4120Date 05/29/2003 Signed: CHD

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. 9550
FAX: EARLENE RUSSELL
(801) 359-3940

ENTITY ACTION FORM - FORM 6

F-347
P.01/01
T-108

307276335

From-EOG - BIG PINEY, WY.

Jun-10-03 05:42am

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
B	99999	13801	43-047-33823	NORTH DUCK CREEK 121-29	NWSE	29	8S	21E	UINTAH	6/4/2003	6/11/03
WSTE CONFIDENTIAL											
B	99999	13802	43-047-34072	NORTH DUCK CREEK 191-29	SWSW	29	8S	21E	UINTAH	5/31/2002	6/11/03
WSTE CONFIDENTIAL											
B	99999	13803	43-047-34878	NORTH DUCK CREEK 214-33	SENW	33	8S	21E	UINTAH	5/29/2003	6/11/03
CR-99- m NCS CONFIDENTIAL											

ACTIONS CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

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

Katy Carlson

 Signature
 Regulatory Analyst
 Title

6/9/2003

 Date

Phone No. (307) 276-4842

(3/89)

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 JUN 10 2003
 DIV OF OIL, GAS & MINING

e

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

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1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. NORTH DUCK CREEK 214-33
2. Name of Operator EOG RESOURCES, INC. Contact: KATY CARLSON E-Mail: Kathleen_Carlson@EOGResources.com		9. API Well No. 43-047-34878
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 NORTH DUCK CREEK/WASATCH
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T8S R21E SENW 1924FNL 1822FWL		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 type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Well Spud
	<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 12-1/4" surface hole at the subject location 5/29/2003. The contractor was Dall Cook's Air Drilling. Ed Forsman of the Vernal BLM office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 5/29/2003.

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JUN 11 2003
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #22985 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) <i>Katy Carlson</i>	Date 06/09/2003

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.

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EOG RESOURCES, Slot #1
 SEC.33-T8S-R21E,
 Uinta County, Utah

(PWB)
 Wellpath: DUCK CREEK NORTH 2-14-33
 (PWP#1)
 Date Printed: 21-Jul-2003



INTEQ

Wellbore		
Name	Created	Last Revised
DUCK CREEK NORTH 2-14-33 (PWB)	18-Jul-2003	21-Jul-2003

Well		
Name	Government ID	Last Revised
NORTH DUCK CREEK 214-33		21-Jul-2003

Slot						
Name	Grid Northing	Grid Easting	Latitude	Longitude	North	East
Slot #1	-87596.6060	2544263.6724	N40 4 34.2857	W109 33 19.3626	1924.00S	1822.00E

Installation				
Name	Easting	Northing	Coord System Name	North Alignment
SEC.33-T8S-R21E	2542398.916	-85713.415	UT-N on NORTH AMERICAN DATUM 1927 datum	True

Field				
Name	Easting	Northing	Coord System Name	North Alignment
UINTA COUNTY	2182665.537	7204275.347	UT83-CF on NORTH AMERICAN DATUM 1983 datum	True

Created By

Comments

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Datum #1 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 20.00 degrees
 Bottom hole distance is 161.01 Feet on azimuth 117.36 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by Baker Hughes INTEQ

EOG RESOURCES, Slot #1
 SEC.33-T8S-R21E,
 Uinta County, UTAH

(PWB)
 Wellpath: DUCK CREEK NORTH 2-14-33
 (PWP#1)
 Date Printed: 21-Jul-2003



INTEQ

Wellpath Report								
MD[ft]	Inc[deg]	Dir[deg]	TVD[ft]	North[ft]	East[ft]	Dogleg [deg/100ft]	Vertical Section[ft]	
5835.00	0.40	166.30	5824.52	121.29S	125.92E	0.00	-70.91	Tie on
5885.00	0.20	155.30	5874.52	121.54S	126.00E	0.41	-71.12	End of Drop/Turn
5943.00	0.20	155.30	5932.52	121.72S	126.08E	0.00	-71.26	KOP
6354.44	6.03	18.96	6343.22	101.93S	133.41E	1.50	-50.16	End of Build/Turn
6434.75	6.03	18.96	6423.05	93.96S	136.15E	0.00	-41.73	End of Hold
6836.44	0.00	20.00	6824.00	74.00S	143.00E	1.50	-20.63	End of Drop/Turn & Target
12012.44	0.00	20.00	12000.00	74.00S	143.00E	0.00	-20.63	T.D. & End of Hold

All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Datum #1 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 20.00 degrees
 Bottom hole distance is 161.01 Feet on azimuth 117.36 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by Baker Hughes INTEQ

EOG RESOURCES, Slot #1
 SEC.33-T8S-R21E,
 UINTA COUNTY, UTAH

(PWB)
 Wellpath: DUCK CREEK NORTH 2-14-33
 (PWP#1)
 Date Printed: 21-Jul-2003



INTEQ

Comments				
MD(ft)	TVD(ft)	North(ft)	East(ft)	Comment
11050.00	11037.54	74.00S	143.00E	CASTLEGATE

Casings									
Name	Top MD(ft)	Top TVD(ft)	Top North(ft)	Top East(ft)	Shoe MD(ft)	Shoe TVD(ft)	Shoe North(ft)	Shoe East(ft)	Wellbore
7.000in Intermediate casing	0.00				5843.00	5832.52	121.34S	125.93E	DUCK CREEK NORTH 2-14-33 (PWB)

Targets										
Name	North(ft)	East(ft)	TVD(ft)	Latitude	Longitude	Easting	Northing	Last Revised		
214-33	60.00S	178.00E	10000.00	N40 4 33.6927	W109 33 17.0728	2544443.0	-87652.62	21-Jul-2003		
SIDETRACK TRGT	74.00S	143.00E	7000.00	N40 4 33.5544	W109 33 17.5231	2544408.3	-87667.44	21-Jul-2003		

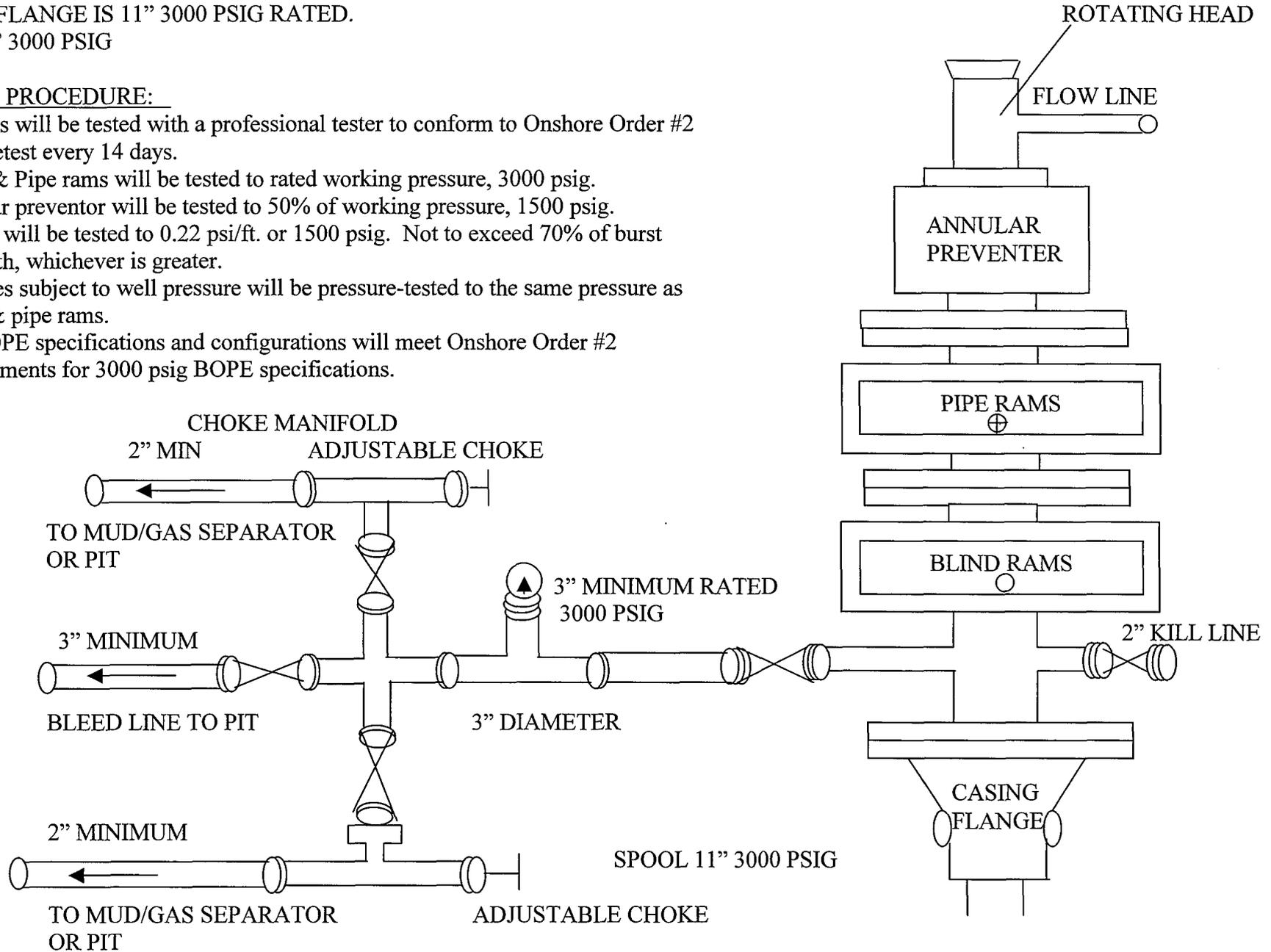
All data is in Feet unless otherwise stated
 Coordinates are from Slot MD's are from Rig and TVD's are from Rig (Datum #1 0.00ft above Mean Sea Level)
 Vertical Section is from 0.00N 0.00E on azimuth 20.00 degrees
 Bottom hole distance is 161.01 Feet on azimuth 117.36 degrees from Wellhead
 Calculation method uses Minimum Curvature method
 Prepared by Baker Hughes INTEQ

3000 PSIG DIAGRAM

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

TESTING PROCEDURE:

1. BOPE's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 3000 psig.
3. Annular 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.



010

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: U-9613
2. NAME OF OPERATOR: EOG RESOURCES, INC.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: P.O. BOX 1910 CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1924' FNL, 1822' FWL		8. WELL NAME and NUMBER: NORTH DUCK CREEK 214-33
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENW 33 8S 21E S		9. API NUMBER: 4304734878
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 checked="" 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 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.
See attachments for revised drilling program and BOP diagram

NAME (PLEASE PRINT) Ed Trotter TITLE Agent
SIGNATURE [Signature] DATE 7/25/2003

(This space for State use only) **Accepted by the Utah Division of Oil, Gas and Mining**
Date: 9/16/03
By: [Signature] (See Instructions on Reverse Side)

Federal Approval Of This Action Is Necessary

RECEIVED
SEP 09 2003
DIV. OF OIL, GAS & MINING

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

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

FORMATION	DEPTH (KB)
Green River Oil Shale	2,500'
Kicker Sand	3,500'
Wasatch	5,814'
Island	8,748'
KMV Price River	9,187'
KMV Price River Lower	10,655'
Sego	11,040'
KMV Castlegate	11,143'
Black Hawk Shale	11,600'
KMV Black Hawk	11,610'
Mancos 'B'	12,426'

EST. TD: 12,750'

Anticipated BHP 5600 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>
12 1/4"	0-314' +/- KB	314' +/-	9 5/8"	36.0 #	J-55	ST&C	2020 PSI	3520 PSI	394,000#
8 3/4"	314'-5843'+-KB	5843'+-	7"	23#	J-55	ST&C	3270 PSI	4360 PSI	313,000#
6 1/2"	5843' - TD +/-KB	12,750' +/-	4 1/2"	11.6 #	HC P-110	LT&C	7560 PSI	10,690 PSI	279,000#

All casing will be new or inspected.

5. Float Equipment:

Surface Hole Procedure (0-314' Below GL):

Guide Shoe

Insert Baffle

Wooden wiper plug

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

Intermediate Hole Procedure (314-5843'):

(PDC drillable)

Float Collar (PDC drillable)

Centralizers: 1-5' above shoe, top of jts. #2 and #3 then every 5th joint to surface. (15 total)

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

FLOAT EQUIPMENT (CONTINUED):

Production Hole Procedure (5843'-TD):

FS, 1 joint of casing, FC, and balance of casing to surface. Run 11.6#, P-110 burst rating or equivalent marker collars or short casing joints at $\pm 11,600'$ and $\pm 8,600'$ (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 FS, top and bottom of FC, and top of 2nd joint.

6. MUD PROGRAM:

Surface Hole Procedure (0-314' below GL):

Air – Air Water Mist

Intermediate Hole Procedure (314-5843'):

Spud – 5000': Circulate fresh water through reserve pit and add Crystal Drill. Sweep with Barazan D and Barolift.

5000' - 9000': Close in pits and add 6 ppb DAP. Add Crystal Drill to keep water clear. Add NaCl water for weight. Sweep with Barazan D and Barolift

9000' – TD: Close in pits and add 6 ppb DAP. Add Crystal Drill to keep water clear. Add barite for weight. Add sea mud for viscosity as needed. Sweep with Barazan D and Barolift

Production Hole Procedure (5843'-TD):

Spud – 5000': Circulate fresh water through reserve pit and add Crystal Drill. Sweep with Barazan D and Barolift.

5000' - 9000': Close in pits and add 6 ppb DAP. Add Crystal Drill to keep water clear. Add NaCl water for weight. **Sweep with Barazan D and Barolift or recommended MWD friendly sweeps.**

9000' – TD: Close in pits and add 6 ppb DAP. Add Crystal Drill to keep water clear. Add barite for weight. Add sea mud for viscosity as needed. **Sweep with Barazan D and Barolift or recommended MWD friendly sweeps.**

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).

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

VARIANCE REQUESTS (Continued):

- 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.

8. EVALUATION PROGRAM:

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

9. CEMENT PROGRAM:

Surface Hole Procedure (0-314' Below GL):

Lead: 220 sx. (100% excess volume) Class 'G' cement with 2% S001 (CaCl₂) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.18 cu. ft./sk., 5.22 gps water.

Top Out: Top out with Class 'G' cement with 2% S1 (CaCl₂) in mix water, 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps via 1" tubing set at 25' if needed.

Intermediate Hole Procedure (314'-5843')

Lead: 150 sks. (50% excess volume) Class 'G' lead cement (coverage from 4,800' – 1,000') 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 cu.ft./sk., 24.54 gps water.

Tail: 120 sks. (50% excess volume) 59:50 Poz Class "G" cement (coverage from 5,800' – 4,800') with 10% D44 (BWOW), 2% D20 mixed at 14.1 ppg, 1.35 cu.ft./sk., 6.24 gps water.

Production Hole Procedure (5843' to TD)

Lead: 65 sks. 35:65 Poz: Class "G" w/ 4% D20 (Bentonite), + 2% D174 + 0.75% D112 + 0.2% D46 + 0.15% D13 + 0.25 pps D29, mixed at 13.0 ppg, 1.74 cu.ft./sk., 9.05 gps water.

Tail: 485 sks 50:50 Poz: Class "G" w/ 2% D20 (Bentonite), + 0.1% D46 + 0.075% D800 + 0.2% D167 + 0.2% D65 + 35% D66, mixed at 14.1 ppg, 1.71 cu.ft./sk., 7.73 gps water.

10. ABNORMAL CONDITIONS:

INTERMEDIATE HOLE (314-5843')

Potential Problems: Lost circulation, asphaltic, black oil and Trona water flows may be encountered in the Green River, beginning at 2,500'.

EIGHT POINT PLAN

NORTH DUCK CREEK 214-33
SE/NW, SEC. 33, T8S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH

ABNORMAL CONDITIONS (Continued):

PRODUCTION HOLE (5843'-TD)

Potential Problems: Sloughing shale's and key seat development are possible in the Wasatch Formation. CO2 contamination in the mud is possible in Price River (Mesa Verde).

11. STANDARD REQUIRED EQUIPMENT:

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

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)

CONFIDENTIAL

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:

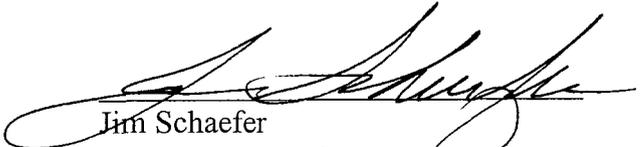
**NORTH DUCK CREEK 214-33
1924' FNL - 1822' FWL (SE/NW)
SECTION 33, T8S, R21E
UINTAH COUNTY, UTAH**

EOG Resources, Inc., Questar Exploration and Production Company, QEP Uinta Basin Inc., III Exploration Company, III Exploration II, LP, Bowers Oil & Gas, Inc. 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.

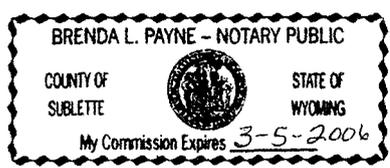
On the 14th day of October, 2003, he placed in the United States mail, with postage prepaid, a copy of the attached Application for Commingling in one wellbore for the subject well.

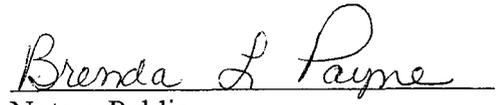
Said envelope which contained these instruments was addressed to the Utah Division of Oil, Gas & Mining, Bureau of Land Management, Questar Exploration and Production Company, QEP Uinta Basin Inc., III Exploration Company, III Exploration II, LP, Bowers Oil & Gas, Inc. and Westport Oil & Gas Company,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

Further this affiant saith not.

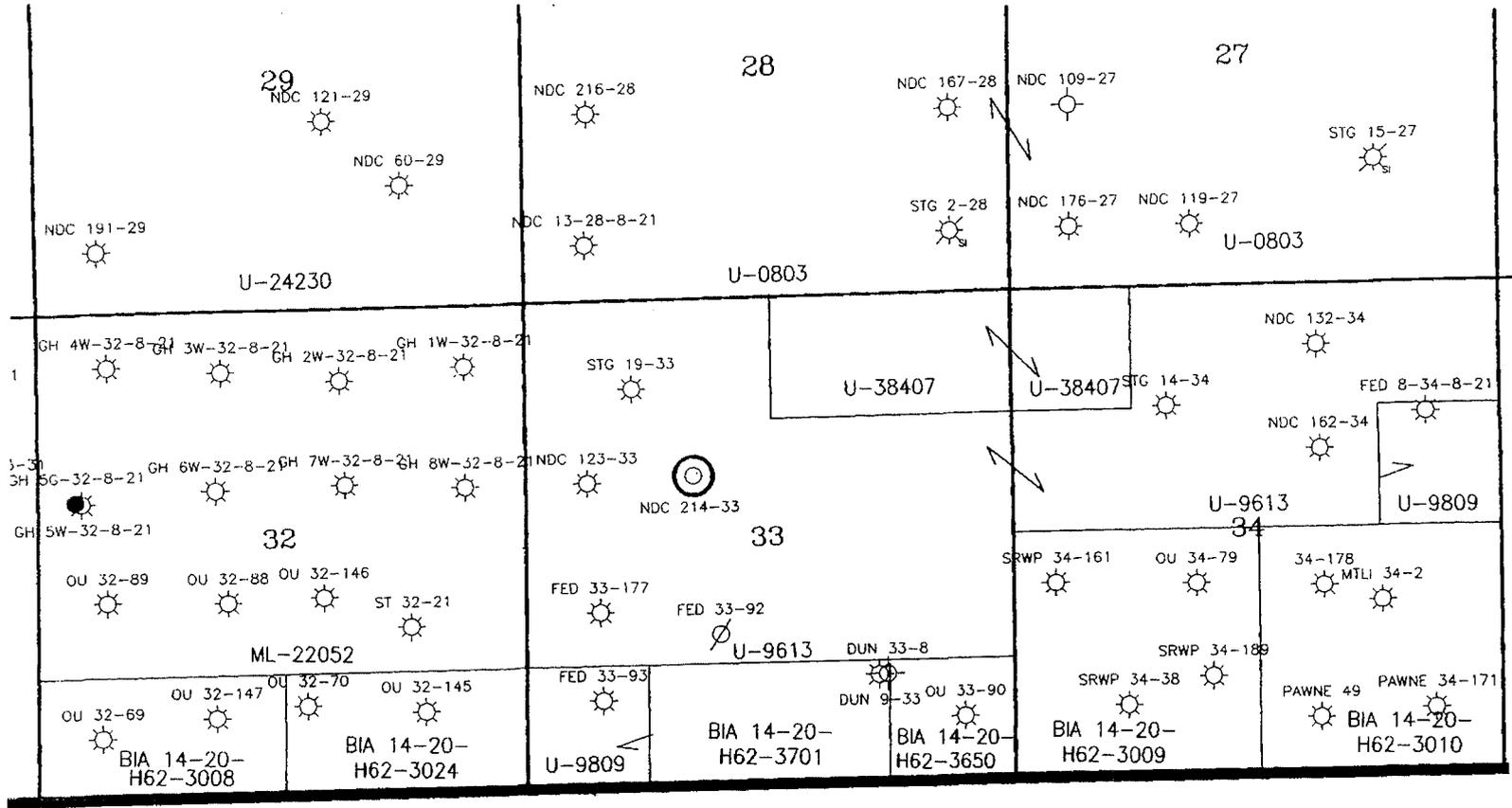

Jim Schaefer
Division Production Manager

Subscribed and sworn to before me this 14th day of October, 2003.



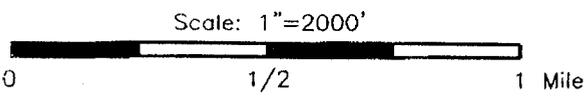

Notary Public

R 21 E



T 8 S

○ North Duck Creek 214-33





Denver Division

EXHIBIT "A"

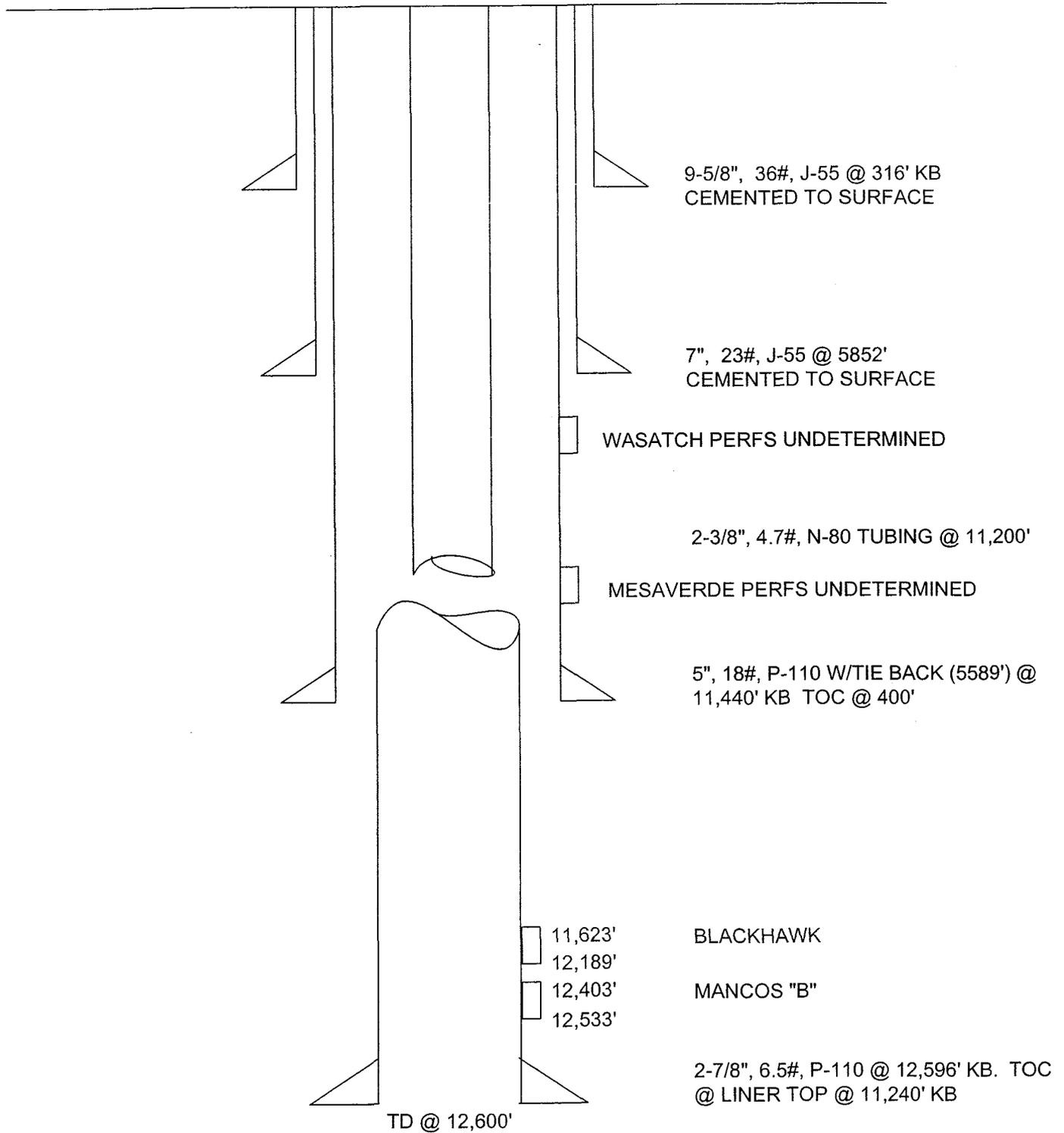
NORTH DUCK CREEK 214-33
Commingleing Application
Utah County, Utah

Scale: 1" = 2000'	Map ID page_ndc214-33	Author commingled TLM	Date: 9-25-0
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WELLBORE

NORTH DUCK CREEK 214-33
SE/NW, SECTION 33, T8S, R21E
UINTAH COUNTY, UTAH



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:
UTU 9613

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

7. Unit Agreement Name:

8. Well Name and Number:
NORTH DUCK CREEK 214-33

9. API Well Number:
43-047-34878

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: **1924' FNL - 1822' FWL (SE/NW)**
County: **UINTAH**
State: **UTAH**
QQ, Sec., T., R., M.: **SECTION 33, T8S, R21E**

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment*	<input type="checkbox"/> New construction
<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Change of Plans (as	<input type="checkbox"/> Recompletion	<input type="checkbox"/> change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Shoot or Acidize	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut -Off
<input type="checkbox"/> Multiple completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other	COMMINGLING
<input type="checkbox"/> Other			

Approximate date work will start _____ Date of work completion _____

COMPLETIONS OR RECOMPLETIONS AND LOG form 8
* Must be accompanied by a cement verification report.

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 including the Blackhawk and Mancos "B" sands 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 including the Blackhawk and Mancos "B" sands will be commingled in the wellbore and produced through open ended 2-3/8" tubing landed above the 2-7/8" liner top.

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.

RECEIVED
OCT 16 2003

13. Name & Signature: *[Signature]* Date: **10/24/03**
By: *[Signature]* Title: **Regulatory Analyst** Date: **10/14/2003**

Federal Approval Of This Action Is Necessary

Case No. 173-20

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

012

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
U 9613

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: SENW 1924FNL 1822FWL
 At top prod interval reported below: SENW 1924FNL 1822FWL
 At total depth: SENW 1924FNL 1822FWL

6. If Indian, Allottee or Tribe Name: UTE INDIAN TRIBE
 7. Unit or CA Agreement Name and No.
 8. Lease Name and Well No. NORTH DUCK CREEK 214-33
 9. API Well No. 43-047-34878
 10. Field and Pool, or Exploratory: NATURAL BUTTES/MANCOS
 11. Sec., T., R., M., or Block and Survey or Area: Sec 33 T8S R21E Mer SLB
 12. County or Parish: UINTAH 13. State: UT
 14. Date Spudded: 05/29/2003 15. Date T.D. Reached: 09/21/2003 16. Date Completed: D & A Ready to Prod. 10/30/2003
 17. Elevations (DF, KB, RT, GL)*: 4726 GL
 18. Total Depth: MD 12600 TVD
 19. Plug Back T.D.: MD 12563 TVD 20. Depth Bridge Plug Set: MD TVD
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each): RST & CBL Rec 1-13-04
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

CONFIDENTIAL

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.250	9.625 J55	36.0	0	316		160			
8.750	7.000 J55	23.0	0	5852		420			
6.250	5.000 P110	18.0	0	11440		348			
4.125	2.875 P110	6.5	0	12597		90			

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	11200							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MANCOS	12384	12600	12403 TO 12533	0.380	40	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
12403 TO 12533	72,828 GAL GELLED WATER & 202,240# 20/40 SAND.

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
10/30/2003	11/02/2003	24	→	0.0	218.0	0.0			FLOWERS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
8/64	SI	490.0	→	0	218	0		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
			→						PERIOD EXPIRED
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						ON 11-30-04

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #24776 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
 ** DRAFT **

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DIV. OF OIL, GAS & MINING

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
GREEN RIVER	2500	5814	SHALE	WASATCH	5689
WASATCH	5814	8748	SANDSTONE	NORTH HORN	7681
ISLAND	8748	9187	SANDSTONE	MESAVERDE	9161
KMV PRICE RIVER	9187	10655	SANDSTONE	MID PRICE RIVER	9802
LOWER PRICE RIVER	10655	11040	SANDSTONE	LOW PRICE RIVER	10614
SEGO	11040	11143	SANDSTONE	CASTLEGATE	11194
KMV CASTLEGATE	11143	11610	SANDSTONE	BLACKHAWK	11615
KMV BLACK HAWK	11610	12426	SANDSTONE	MANCOS	12149
MANCOS "B"	12426	12750	SANDSTONE	MANCOS "B"	12384

RECEIVED

NOV 12 2003

DIV. OF OIL, GAS & MINING

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 #24776 Verified by the BLM Well Information System.
For EOG RESOURCES, INC., will be sent to the Vernal

Name (please print) KATY CARLSON

Katy Carlson

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/07/2003

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.

** DRAFT **

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

CONFIDENTIAL

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-9613
2. Name of Operator EOG RESOURCES, INC.		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE
3a. Address P.O. BOX 250 BIG PINEY, WY 83113		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 307.276.4833		8. Well Name and No. NORTH DUCK CREEK 214-33
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T8S R21E SENW 1924FNL 1822FWL 40.08139 N Lat, 109.56142 W Lon		9. API Well No. 43-047-34878
		10. Field and Pool, or Exploratory NATURAL BUTTES
		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 type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Surface Commingling
	<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 recompleat 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 recompleat 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. commingled production in the Wasatch and Mesaverde formations including the Blackhawk in the referenced wellbore as follows:

- Set composite bridge plug above Mancos "B" @ 12,250'. Perforated Lower Blackhawk from 11,920-22', 11,935-37', 11,951-53', 11,964-67', 11,980-81', 12,014-15', 12,185-87' w/4 SPF. Fracture stimulated w/1271 bbls gelled water and 192,120# 20/40 sand.
- Set composite frac plug @ 11,860'. Perforated Upper Blackhawk from 11,830-31', 11,810-11', 11,748-49', 11,731-32', 11,711-12', 11,699-700', 11,678-79', 11,647-50', 11,623-24' w/3 SPF. Fracture stimulated w/1309 bbls gelled water and 201,836# 20/40 sand. Bridge plug above Mancos formation left in place.
- Well returned to sales @ 11:30 a.m., 1/26/04 through Questar Sales Meter # 5921.
TEST: 1/15/04 1051 MCF & 5 BC & 45 BW in 24 hrs on 10/64" choke FCP 2700 psig.

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

Electronic Submission #27543 verified by the BLM Well Information System
For EOG RESOURCES, INC., sent to the Vernal

Name (Printed/Typed) ALFREDA SCHULZ	Title SR. REGULATORY ASSISTANT
Signature (Electronic Submission)	Date 02/04/2004

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.

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED
FEB 06 2004
DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

014

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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. U-9613	
2. Name of Operator EOG RESOURCES, INC		6. If Indian, Allottee or Tribe Name UTE INDIAN TRIBE	
3a. Address P. O. BOX 250 BIG PINEY, WY 83113		7. If Unit or CA/Agreement, Name and/or No.	
3b. Phone No. (include area code) Ph: 307.276.4833		8. Well Name and No. NORTH DUCK CREEK 214-33	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T8S R21E SENW 1924FNL 1822FWL 40.08139 N Lat, 109.56142 W Lon		9. API Well No. 43-047-34878	
		10. Field and Pool, or Exploratory NATURAL BUTTES	
		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 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 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 proposes to recomplete the referenced well as per the attached recompletion program.

RECEIVED
SEP 22 2004
DIV. OF OIL, GAS & MINING

COPY SENT TO OPERATOR
Date: 9-24-04
Initials: CHD

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #36333 verified by the BLM Well Information System For EOG RESOURCES, INC, sent to the Vernal

Name (Printed/Typed) ALFREDA SCHULZ	Title SR. REGULATORY ASSISTANT
Signature (Electronic Submission)	Date 09/20/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Federal Approval Of This Action Is Necessary
Accepted by the Utah Division of Oil, Gas and Mining		
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.

Date: 9/24/04
By: [Signature]

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

House 123-20

**PRICE RIVER RECOMPLETION
PROGRAM
North Duck Creek 214-33**

CONFIDENTIAL

1. MIRUSU. Kill well with treated water. NU 10M# BOPE. POOH with 2-3/8" tubing.
2. RUWL. Set Weatherford 10K composite bridge plug @ 10966'±. Perforate Lower Price River intervals from 10728'-10936' as shown using a 3-1/8" HSC ported casing gun. RDWL.
3. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
4. RUWL. Set Weatherford 10K composite frac plug @ 10704'±. Perforate MPR intervals from 10462'-10674' as shown. RDWL.
5. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
6. RUWL. Set Weatherford 10K composite frac plug @ 10421'±. Perforate MPR intervals from 10157'-10391' as shown. RDWL.
7. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
8. RUWL. Set Weatherford 10K composite frac plug @ 10134'±. Perforate MPR intervals from 9906'-10104' as shown. RDWL.
9. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger.
10. RUWL. Set Weatherford 10K composite frac plug @ 9872'±. Perforate MPR intervals from 9766'-9842' as shown. RDWL.
11. RU Schlumberger. Frac down casing per attached procedure. RD Schlumberger. Flow back immediately. Following flowback, RIH w/tbg and 4-1/8" bit. Drill out composite frac plugs. POOH w/tbg and lay down bit and sub. RIH w/tbg and land near btm of PR perfs. ND BOPE. NU 10M psig tree. Swab/flow test.
12. RDMOSU. Place well on production.

PREPARED BY:

PAUL PENDLETON, AREA PRODUCTION MANAGER

APPROVED BY:

KEN BOEDEKER, DIVISION ENGINEERING MANAGER

CONFIDENTIAL

Frac Procedure (STAGE #4)

NDC 214-33

Lower Price River Perfs: 10728'-10936'

Frac down casing w/1170 bbls YF125ST & YF118ST(excluding flush) and 168,000# 20/40 sand as follows: (Treat @ 45-50 BPM. Mark flush @ 4 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	FLUID	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad *	YF125ST	120	120			
1 ppg *	YF125ST	100	220	4,200	4,200	20/40 Sand
2 ppg *	YF125ST	150	370	12,600	16,800	20/40 Sand
3 ppg	YF118ST	200	570	25,200	42,000	20/40 Sand
4 ppg	YF118ST	200	770	33,600	75,600	20/40 Sand
5 ppg	YF118ST	200	970	42,000	117,600	20/40 Sand
6 ppg	YF118ST	200	1170	50,400	168,000	20/40 Sand
Flush	Slick	188	1358			

*Note: Add 10 g/m scale inhibitor to YF125ST stages.

CONFIDENTIAL

Frac Procedure (STAGE #5)
NDC 214-33
Middle Price River Perfs: 10462'-10674'

Frac down casing w/1170 bbls YF125ST & YF118ST(excluding flush) and 168,000# 20/40 sand as follows: (Treat @ 45-50 BPM. Mark flush @ 4 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	FLUID	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad *	YF125ST	120	120			
1 ppg *	YF125ST	100	220	4,200	4,200	20/40 Sand
2 ppg *	YF125ST	150	370	12,600	16,800	20/40 Sand
3 ppg	YF118ST	200	570	25,200	42,000	20/40 Sand
4 ppg	YF118ST	200	770	33,600	75,600	20/40 Sand
5 ppg	YF118ST	200	970	42,000	117,600	20/40 Sand
6 ppg	YF118ST	200	1170	50,400	168,000	20/40 Sand
Flush	Slick	184	1354			

*Note: Add 10 g/m scale inhibitor to YF125ST stages.

CONFIDENTIAL

Frac Procedure (STAGE #6)
NDC 214-33
Middle Price River Perfs: 10157'-10391'

Frac down casing w/1470 bbls YF125ST & YF118ST(excluding flush) and 237,300# 20/40 sand as follows: (Treat @ 45-50 BPM. Mark flush @ 4 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	FLUID	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad *	YF125ST	120	120			
1 ppg *	YF125ST	100	220	4,200	4,200	20/40 Sand
2 ppg *	YF125ST	150	370	12,600	16,800	20/40 Sand
3 ppg	YF118ST	200	570	25,200	42,000	20/40 Sand
4 ppg	YF118ST	200	770	33,600	75,600	20/40 Sand
5 ppg	YF118ST	350	1120	73,500	149,100	20/40 Sand
6 ppg	YF118ST	350	1470	88,200	237,300	20/40 Sand
Flush	Slick	178	1648			

*Note: Add 10 g/m scale inhibitor to YF125ST stages.

CONFIDENTIAL

Frac Procedure (STAGE #7)
NDC 214-33
Middle Price River Perfs: 9906'-10104'

Frac down casing w/1470 bbls YF125ST & YF118ST(excluding flush) and 237,300# 20/40 sand as follows: (Treat @ 45-50 BPM. Mark flush @ 4 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	FLUID	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad *	YF125ST	120	120			
1 ppg *	YF125ST	100	220	4,200	4,200	20/40 Sand
2 ppg *	YF125ST	150	370	12,600	16,800	20/40 Sand
3 ppg	YF118ST	200	570	25,200	42,000	20/40 Sand
4 ppg	YF118ST	200	770	33,600	75,600	20/40 Sand
5 ppg	YF118ST	350	1120	73,500	149,100	20/40 Sand
6 ppg	YF118ST	350	1470	88,200	237,300	20/40 Sand
Flush	Slick	174	1644			

*Note: Add 10 g/m scale inhibitor to YF125ST stages.

Frac Procedure (STAGE #8)

NDC 214-33

Middle Price River Perfs: 9766'-9842'

Frac down casing w/970 bbls YF125ST & YF118ST(excluding flush) and 130,200# 20/40 sand as follows: (Treat @ 40-45 BPM. Mark flush @ 6 ppg on inline densiometer. Slow rate to 10 BPM for final 5 bbls flush. Maximum pressure 8500 psig.)

STAGE	FLUID	VOL (bbls)	CUM. VOL. (bbls)	PROP (lbs)	CUM. PROP	TYPE PROP
Pad*	YF125ST	120	120			
1 ppg*	YF125ST	100	220	4,200	4,200	20/40 Sand
2 ppg*	YF125ST	150	370	12,600	16,800	20/40 Sand
3 ppg	YF118ST	150	520	18,900	35,700	20/40 Sand
4 ppg	YF118ST	150	670	25,200	60,900	20/40 Sand
5 ppg	YF118ST	150	820	31,500	92,400	20/40 Sand
6 ppg	YF118ST	150	970	37,800	130,200	20/40 Sand
Flush	Slick	171	1141			

*Note: Add 10 g/m scale inhibitor to YF125ST stages.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB 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)
**1924' FNL & 1822' FWL (SE/NW)
 Sec. 33-T8S-R21E 40.08139 LAT 109.56142 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 214-33

9. API Well No.
43-047-34878

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 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 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 was closed on 6/19/2006 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



Date

01/11/2007

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.

(Instructions on page 2)

RECEIVED

JAN 12 2007



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8
999 18TH STREET - SUITE 200
DENVER, CO 80202-2466
Phone 800-227-8917
<http://www.epa.gov/region08>

MAY 19 2007

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

David Gerbig
Operations Engineer
Newfield Production Company
1401 Seventeenth Street - Suite 1000
Denver, CO 80202

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

43-047-34881
8S 17E 24
RE: Additional Well to Humpback Area Permit
UIC Permit No. UT20852-00000
Well ID: UT20852-06748
Humpback Federal No. 9-24-8-17
Uintah County, Utah

Dear Mr. Gerbig:

The Newfield Production Company (Newfield) request to convert Humpback Federal No. 9-24-8-17 to a Green River Formation enhanced recovery injection well is hereby authorized by the Environmental Protection Agency (EPA) under the terms and conditions of the enclosed Authorization For Additional Well.

The addition of Humpback Federal No. 9-24-8-17, within the exterior boundary of the Uintah & Ouray Indian Reservation, is being made under the authority of 40 Code of Federal Regulations (CFR) §144.33 (c) and terms of the Humpback Area Permit, Underground Injection Control (UIC) Area Permit No. UT20852-00000. Unless specifically mentioned in the enclosed Authorization For Additional Well, the Humpback Federal No. 9-24-8-17 is subject to all terms and conditions of the UIC Area Permit UT20852-00000, as modified.



Please be aware that Newfield does not have authorization to begin injection operations into the well until all Prior to Commencing Injection requirements have been submitted and evaluated by the EPA, and Newfield has received written authorization from the Director to begin injection. Please note that the Permit limits injection to the gross interval within the Green River Formation between the depths of 4137 feet and the top of the Wasatch Formation, estimated to be 6514 feet.

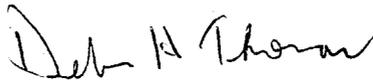
Prior to receiving authorization to inject, the EPA requires that Newfield submit for review and approval the following: (1) the results of a **Part I (Internal) mechanical integrity test (MIT)**, (2) a **pore pressure** calculation of the injection interval, (3) and a completed **EPA Form No. 7520-12** (Well Rework Record) with a new schematic diagram.

Within a 180-day Limited Authorization to Inject period, the permittee will submit the results of a successful **Part II (External) MIT**.

The initial Maximum Allowable Injection Pressure (MAIP) for Humpback Federal No. 9-24-8-7 was determined to be **1245 psig**. UIC Area Permit UT20852-00000 also provides the opportunity for the permittee to request a change in the MAIP based upon results of a Step-Rate Test that demonstrates that the formation breakdown pressure will not be exceeded.

If you have any questions, please call Emmett Schmitz at (303) 312-6174 or 1-800-227-8917 (Ext. 6174). Please submit the required data to the **ATTENTION: EMMETT SCHMITZ** at the letterhead address citing **MAIL CODE: 8P-W-GW** very prominently.

Sincerely,



for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

encl: Authorization For Conversion of An Additional Well
EPA Form No. 7520-12 (Well Rework Record)
Schematic Diagram Proposed Conversion: Humpback Federal 9-24-8-17
Schematic Diagram Proposed Plugging and Abandonment: Humpback Federal 9-24-8-17
Ground Water Section Guidance No. 37 (Part II External MIT)
Ground Water Section Guidance No. 39 (Part I Internal MIT)

cc: without enclosures

Maxine Natchees
Chairperson
Uintah & Ouray Business Committee
Ute Indian Tribe

Chester Mills
Superintendent
U.S. Bureau of Indian Affairs
Uintah & Ouray Indian Agency

cc: with enclosures

Lynn Becker
Director
Energy & Minerals Dept.
Ute Indian Tribe

Shaun Chapoose
Director
Land Use Dept.
Ute Indian Tribe

Michael Guinn
Vice President - Operations
Newfield Production Company
Myton, Utah

Gilbert Hunt
Associate Director
State of Utah
Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office
U.S. Bureau of Land Management
Vernal, Utah



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

999 18TH STREET - SUITE 200

DENVER, CO 80202-2466

Phone 800-227-8917

<http://www.epa.gov/region08>

AUTHORIZATION FOR ADDITIONAL WELL

UNDERGROUND INJECTION CONTROL (UIC) AREA PERMIT NO: UT20852-00000

The Final UIC Humpback Area Permit No. UT20852-00000, effective October 8, 1998, authorized enhanced recovery injection into the Garden Gulch and Douglas Creek Members of the Green River Formation. A Major Permit Modification No. 1, effective September 9, 2003, authorized injection for the purpose of enhanced oil recovery into multiple lenticular sand and carbonate units which are distributed throughout the Garden Gulch-Douglas Creek- Basal Carbonate Members of the Green River Formation.

On April 13, 2005, Newfield Production Company (Newfield) requested the Environmental Protection Agency (EPA) permit the following well as an Additional Well to the Humpback Area Permit.

Well Name:	<u>Humpback Federal No. 9-24-8-17</u>
EPA Well ID Number:	<u>UT20852-06748</u>
Location:	1901 ft FSL & 602 ft FEL NE SE Sec. 24 - T8S - R17E Uintah County, Utah.

Pursuant to 40 Code of Federal Regulations (CFR) §144.33, UIC Humpback Area Permit No. UT20852-00000 authorizes the permittee to construct and operate, convert, or plug and abandon additional enhanced recovery injection wells within the area permit. This well was determined to satisfy additional well criteria required by the Permit.

RECEIVED

JAN 24 2007

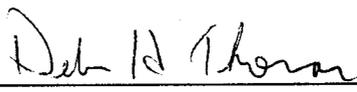
DIV. OF OIL, GAS & MINING



This well is subject to all provisions of UIC Humpback Area Permit No. UT20852-00000 and as modified. This Authorization shall expire one year after the Effective Date unless the permittee has converted the well to injection or submits a written request to extend this Authorization prior to the expiration date.

This Authorization is effective upon signature.

Date: JAN 18 2007


for **Stephen S. Tuber**

*Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

** The person holding this title is referred to as the Director throughout the Permit and Authorization*

WELL-SPECIFIC REQUIREMENTS

Well Name: Humpback Federal No. 9-24-8-17
EPA Well ID Number: UT20852-06748

Prior to commencing injection operations, the permittee shall submit the following information and receive written Authority to Inject from the Director: (II. C. Condition 2).

1. a successful Part I (Internal) Mechanical Integrity Test (MIT);
2. pore pressure calculation of the proposed injection zone;
3. completed Well Rework Record (EPA Form No. 7520-12) and schematic diagram.

Approved Injection Zone: **(II. C. Condition C. 4)**

Injection is approved between the top of the Green River Formation Garden Gulch Member (4137 feet) and the top of the Wasatch Formation (Estimated 6514 feet). The permittee has cited current Douglas Creek Member perforations proposed for enhanced recovery injection, i.e., gross 5217 feet - 6238 feet. The permittee is also authorized to perforate any additional intervals for enhanced recovery injection between the top of the Garden Gulch Member and the top of the Wasatch Formation during well conversion.

Determination of a Fracture Gradient: **(II. C. Condition 5. b. 1.)**

"Using sand fracture treatment data, the EPA will calculate the Maximum Allowable Injection Pressure (MAIP) for each treated (sand-frac) interval using the instantaneous shut-in pressure (ISIP) from that interval. The minimum injection pressure calculated shall be the initial maximum allowable injection pressure limit for that well."

Of the five (5) sand/frac treatments conducted on the Humpback Federal No. 9-24-8-17, the minimum calculated fracture gradient (FG) is 0.720 psi/ft; a value not in accord with lesser FG values derived from Step-Rate Tests (SRT) in Section 24 - T8S - R17E. The EPA will use the maximum Section 24 SRT fracture gradient value of 0.678 psi/ft for MAIP calculation.

Maximum Allowable Injection Pressure (MAIP): **(II. C. Condition 5)**

The initial MAIP is **1245 psig**, based on the following calculation and a cited "top perforation":

$$\begin{aligned} \text{MAIP} &= [\text{FG} - (0.433)(\text{SG})] D, \text{ where} \\ \text{FG} &= 0.678 \text{ psi/ft} \\ \text{SG} &= 1.015 \text{ (Per Newfield and approved by EPA)} \\ \text{D} &= 5217 \text{ feet (Top perforation depth)} \end{aligned}$$

$$\text{MAIP} = 1244 \text{ psig but increased to } \mathbf{1245 \text{ psig.}}$$

UIC Area Permit No. UT20852-00000 also provides the opportunity for the permittee to request a change of the MAIP based upon results of a Step-Rate Test that demonstrates the formation breakdown pressure will not be exceeded.

Well Construction and Corrective Action:

(II. A).

No Corrective Action is required.

Tubing and Packer:

(II. A. Condition 3).

2-7/8" injection tubing is approved. The packer shall be set at a depth no more than 100 ft above the top perforation.

Corrective Action for Wells in Area of Review: *No Corrective Action is required.* The following Green River oil wells, within the one-quarter (1/4) mile radius around the Humpback Federal No. 9-24-8-17, were evaluated to determine if any corrective action is necessary to prevent fluid movement into USDWs. Other than a weekly inspection of these location for surface injectate leakage, no corrective action is required.

Federal No. 12-19-8-18

NW SW Section 19 - T8S - R18E

Humpback No. 16-24-8-17

SE SE Section 24 - T8S - R17E

Demonstration of Mechanical Integrity:

(II. C. Condition 3).

A successful demonstration of **Part I (Internal)** Mechanical Integrity Test using a standard Casing-Tubing pressure test is required prior to injection and at least once every five (5) years thereafter.

Humpback Federal No. 9-24-8-17: As the EPA is not able to establish an effective cement barrier to significant upward movement of fluids through vertical channels adjacent to the Confining Zone, pursuant to 40 CFR 146.8 (a)(2), **the permittee shall conduct a Part II (External) Mechanical Integrity Test within a 180-day period of "Limited Authorization to Inject"**. A Part II (External) Mechanical Integrity Test shall be run at least once every five (5) years thereafter.

Demonstration of Financial Responsibility:

(II. F. Condition 1).

The applicant has demonstrated financial responsibility via an Annual Statement that has been reviewed and approved by the EPA. The Plugging and Abandonment cost has been estimated by the permittee to be \$33,500.

(II. E. Condition 2).

Plugging and Abandonment:

The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs, and in compliance with other federal, state and local regulation. Tubing, packer, and any downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50-foot surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging, the owner or operator shall submit Plugging Record (EPA Form 7520-13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Based on the proposed well completion, at a minimum, the following plugs are required:

PLUG NO. 1: Remove downhole apparatus from the well and perform necessary clean out; displace well fluid with plugging gel. Set a cast iron bridge plug (CIBP) no more than fifty (50) feet above the top perforation (5217 feet) with a minimum 20-foot cement plug on top.

PLUG NO. 2: Set a balanced cement plug 3300 feet to 3450 feet, i.e., approximately fifty (50) feet above the top of the Trona/Birds Nest interval (3342 feet) and fifty (50) feet below the base of the Mahogany Bench (3400 feet).

PLUG NO. 3: Set a minimum 100-foot cement plug across the top contact of the Green River Formation and the Uinta Formation, i.e., 2450 feet to 2550 feet.

PLUG NO. 4: Perforate 4 JSPF at 367 feet. Circulate Class "G" cement down the 5-1/2 inch casing to 367 feet, and up the 5-1/2 inch X 8-5/8 inch casings annulus to the surface.

Cut off surface and 5-1/2" casing at least 4 ft below ground level. Set P&A marker. Submit Sundry Notices and all necessary data as required by the EPA and other regulatory agencies.

Reporting of Noncompliance:

(III. E.)

- (a) Anticipated Noncompliance. The operator shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (b) Compliance Schedules. Reports of compliance or noncompliance with, or any progress on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than thirty (30) days following each schedule date.
- (c) Written Notice of any noncompliance which may endanger health or the environment shall be reported to the Director within five (5) days of the time the operator becomes aware of the noncompliance. The written notice shall contain a description of the noncompliance and its cause; the period of noncompliance including dates and times; if the noncompliance has not been corrected the anticipated time it is expected to continue; and steps taken or planned to prevent or reduce recurrence of the noncompliance.

Twenty-Four Hour Noncompliance Reporting:

(II. E.)

The operator shall report to the Director any noncompliance which may endanger health or environment. Information shall be provided, either orally or by leaving a message, within twenty-four (24) hours from the time the operator becomes aware of the circumstances by telephoning 1-800-227-8917 and asking for the EPA Region 8 UIC Program Compliance and Enforcement Director, or by contacting the Region 8 Emergency Operations Center at 303-293-1788 if calling from outside EPA Region 8. The following information shall be included in the verbal report:

- (a) Any monitoring or other information which indicates that any contaminant may cause an endangerment to a USDW.
- (b) Any noncompliance with a Permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Oil Spill and Chemical Release Reporting:

(II. E.)

The operator shall comply with all other reporting requirements related to oil spills and chemical releases or other potential impacts to human health or the environment by contacting the **National Response Center (NRC) 1-800-424-8802 or 202-267-2675**, or through the NRC website at **<http://www.nrc.uscg.mil/index.htm>**.

Other Noncompliance:

(II. E.)

The operator shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted.

Other Information:

(II. E.)

Where the operator becomes aware that he failed to submit any relevant facts in the Permit application, or submitted incorrect information in a Permit application, or in any report to the Director, the operator shall submit such correct facts or information within two (2) weeks of the time such information became known to him.

WELL-SPECIFIC CONSIDERATIONS

Well Name: **Humpback Federal No. 9-24-8-17**

EPA Well ID Number: **UT20852-06748**

Current Status: The Humpback Federal No. 9-24-8-17 is a producing Douglas Creek Member oil well currently waiting on EPA authorization to complete/convert to a Class II Green River Formation enhanced recovery injection well.

Underground Sources of Drinking Water (USDWs): USDWs in the Humpback Area Permit generally occur within the Uinta Formation. According to the "*Base of Moderately Saline Ground Water in the Uinta Basin, Utah, State of Utah Technical Publication No. 92,*" the **base** of moderately saline ground water may be found at approximately 150 feet below ground surface.

<http://NRWRT1.NR.STATE.UT.US>: (**Water Rights...Queries...POD**). Within the one-quarter (1/4) mile Area-of-Review (AOR) around the Humpback Federal No. 9-24-8-17 there are no reservoirs, streams, springs, domestic or agricultural water wells.

Composition of Source, Formation, and Injectate Water: (Total Dissolved Solids [TDS])

- TDS of the Douglas Creek Member - Green River Formation water: 10,523 mg/l. Specific Gravity: 1.008. (Analysis: 2/3/05).
- TDS of Johnson Water District Reservoir source water: 674 mg/l. Specific Gravity: 1.002. (Analysis: 1/10/05).

The **injectate** is primarily water from the Johnson Water District reservoir blended with minimal volumes of Humpback Unit produced Green River water.

Per a December 20, 2006 agreement between the EPA and Newfield, the EPA will not require an "injectate" water analysis submittal with the Permit application as long as the "injectate" total dissolved solids does not exceed a Specific Gravity (SG) of 1.015. Therefore by this agreement, the EPA will use a standard Specific Gravity value of 1.015 when calculating the maximum allowable surface injection pressure (MAIP).

Confining Zone:

The Confining Zone is one-hundred (100) feet of shale between the depths of 4037 feet and 4137 feet (KB) which directly overlies the Garden Gulch Member of the Green River Formation.

Injection Zone:

(II. C. 4.)

The Injection Zone is an approximate 2377-foot section of multiple lenticular sand units interbedded with shale, marlstone and limestone from the top of the Garden Gulch Member at 4137 ft (KB) to the top of the Wasatch Formation (estimated to be 6514 feet KB). All formation and formation Member tops are based on correlation to the Federal No.1-26-8-17 Type Log (UT20702-04671), NE NW Sec. 26 - T8S - R17E.

Well Construction:

(II. A. 1.)

There is no 80% bond index cement bond across the Confining Zone annulus.

Surface Casing: 8-5/8" casing is set at 307 (KB) in a 12-1/4" hole, using 150 sacks of cement which was circulated to the surface.

Longstring: 5-1/2" casing is set at 6487 feet (KB) in a 7-7/8" hole and secured with 850 sacks of cement. Calculated top of cement (TOC) by EPA: 985 feet.

Perforations: Gross Perforations: 5217 feet to 6238 feet.

Step-Rate Test (SRT):

(II. C. 2. d.)

A Step-Rate Test may be required to confirm that the initial maximum authorized injection pressure (MAIP), based on sand/frac treatments, is appropriate to ensure that pressure during injection will not initiate new fractures or propagate existing fractures in the confining zone.

Wells in Area of Review (AOR):

The permittee shall observe the surface location of all wells cited within the one-quarter (1/4) mile AOR around the Humpback Federal No. 9-24-8-17 on a weekly basis. Should such injectate contamination be observed at the surface, the permittee shall immediately suspend injection into the Humpback Federal No. 9-24-8-17. The Humpback Federal No. 9-24-8-17 will stay suspended until the noncompliance has been resolved. Renewed injection shall be authorized by letter from the Director.

Humpback Federal 9-24-8-17

Spud Date: 7/22/03
 Put on Production: 8/3/04
 GL: 5007' KB: 5019'

Initial Production: BOPID,
 MCFD, BWPID

Proposed Injection Wellbore Diagram

SURFACE CASING

C/S/G SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24# *Base U90Ws 450'*
 LENGTH: 7 jts. (306.98')
 DEPTH LANDED: 316.98' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cement, est 1.5 bbls cement to surf.

PRODUCTION CASING

C/S/G SIZE: 5-1/2"
 GRADE: J-55 *Green River 2499'*
 WEIGHT: 15.5# *Trona/Birds Nest 3342'*
 LENGTH: 152 jts. (6488.6') *Mahogany Bench 3381'*
 DEPTH LANDED: 6486.6' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 400 sxs Prem. Late II mixed & 450 sxs 50/50 POZ.
 CEMENT TOP AT: 395'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#
 NO. OF JOINTS: 191 jts (6177.85')
 TUBING ANCHOR: 6190.35' KB
 NO. OF JOINTS: 1 jts (29.84')
 SEATING NIPPLE: 2-7/8" (1.10')
 SN LANDED AT: 6222.99' KB
 NO. OF JOINTS: 2 jts (65.13')
 TOTAL STRING LENGTH: BOT @ 6289.67' W/12.5' KB

FRAC JOB

7/28/04 6227'-6238' Frac CP4 sands as follows:
 29,777# 20/40 sand in 352 bbls Lightning 17
 Frac fluid. Treated @ avg press of 1889 psi
 w/avg rate of 24.8 BPM. ISIP 1800 psi. Calc
 flush: 6224 gal. Actual flush: 6216 gal.

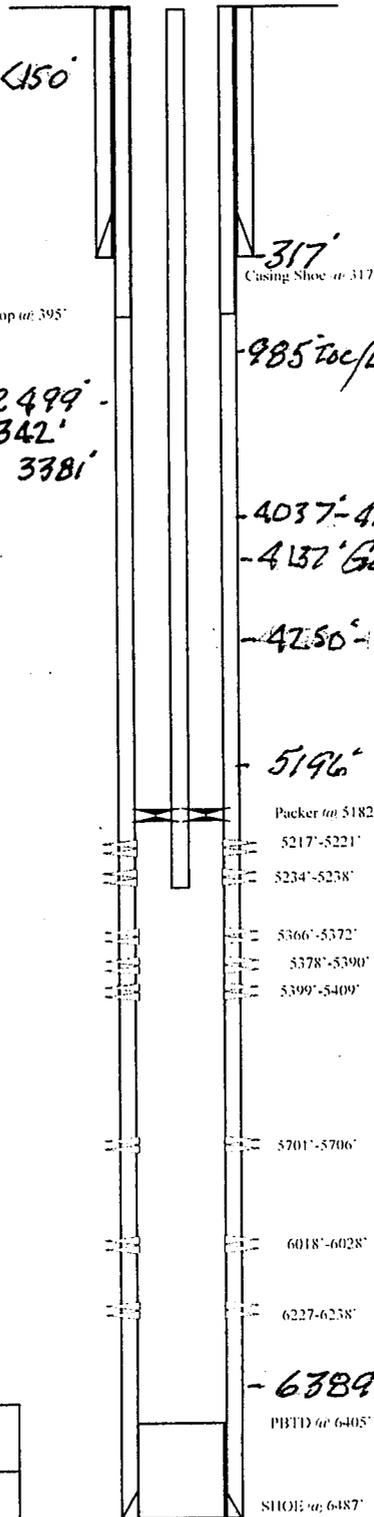
7/28/04 6018'-6028' Frac CP1 sands as follows:
 49,411# 20/40 sand in 435 bbls Lightning 17
 Frac fluid. Treated @ avg press of 1800 psi
 w/avg rate of 24.8 BPM. ISIP 1950 psi. Calc
 flush: 6016 gal. Actual flush: 6014 gal.

7/28/04 5701'-5706' Frac A3 sands as follows:
 16,045# 20/40 sand in 257 bbls Lightning 17
 Frac fluid. Treated @ avg press of 2100 psi
 w/avg rate of 24.8 BPM. ISIP 2000 psi. Calc
 flush: 5699 gal. Actual flush: 5699 gal.

7/28/04 5366'-5409' Frac C sands as follows:
 149,708# 20/40 sand in 999 bbls Lightning 17
 Frac fluid. Treated @ avg press of 1300 psi
 w/avg rate of 24.7 BPM. ISIP 1700 psi. Calc
 flush: 5364 gal. Actual flush: 5405 gal.

7/29/04 5217'-5238' Frac D2 sands as follows:
 22,755# 20/40 sand in 274 bbls Lightning 17
 Frac fluid. Treated @ avg press of 1433 psi
 w/avg rate of 24.7 BPM. ISIP 1600 psi. Calc
 flush: 5215 gal. Actual flush: 5124 gal.

Tubing Leak. Update rod details



PERFORATION RECORD

Date	Depth Range	ISIP	Holes
7/20/04	6227'-6238'	4 JSIP	44 holes
7/28/04	6018'-6028'	4 JSIP	40 holes
7/28/04	5701'-5706'	4 JSIP	20 holes
7/28/04	5399'-5409'	4 JSIP	40 holes
7/28/04	5378'-5390'	4 JSIP	48 holes
7/28/04	5366'-5372'	4 JSIP	24 holes
7/28/04	5234'-5238'	4 JSIP	16 holes
7/28/04	5217'-5221'	4 JSIP	16 holes

NEWFIELD

Humpback Federal 9-24-8-17
 1901' FSL & 602' FEL
 NE/SE Section 24-T8S-R17E
 Uintah Co, Utah
 API #43-047-34881; Lease #UTU-74870

Est 6514 Wasatch

Humpback Federal 9-24-8-17

Spud Date: 7/22/03
 Put on Production: 8/3/04
 GI: 5007 KB: 5019'

Initial Production: BOPID,
 MCFD, BWPID

Proposed P & A
 Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"
 GRADE: J-55
 WEIGHT: 24#
 LENGTH: 2 jts. (306.98')
 DEPTH LANDED: 316.98' KB
 HOLE SIZE: 12-1/4"
 CEMENT DATA: 150 sxs Class "G" cmt. est. 1.5 bbls cmt to surf.

Base USDN ~ 150'

Circulate 115 sxs Class G Cement down 5-1/2" casing and up the 5-1/2" x 8-5/8" annulus

PRODUCTION CASING

CSG SIZE: 5-1/2"
 GRADE: J-55
 WEIGHT: 18.5#
 LENGTH: 152 jts. (6488.6')
 DEPTH LANDED: 6486.6' KB
 HOLE SIZE: 7-7/8"
 CEMENT DATA: 400 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.
 CEMENT TOP AT: 395'

*set a minimum 100 feet
 cement plug 2450' - 2550'*

*set 2 balanced
 cement plug 50' above trap and 50'
 below Monogony Bench
 80% bond 4250' - 478'*

Cement Top @: 395'

Casing Shoe @: 317'

Perforate 4 JSPF @: 367'

- 985' TOC/EPA
- 2499' Green River
- Tron 2/ Birds Nest 3342'
- Monogony Bench 3381'
- 4037' - 4137' Confining Zone
- 4037' Garden Gulch

100' (12 sxs) Class G Cement plug on top of CIBP

CIBP @: 5122'

5196' Douglas Creek

5217'-5221'

5234'-5238'

5366'-5372'

5378'-5390'

5390'-5409'

5701'-5706'

6018'-6028'

6227'-6238'

6389' Basel Carbonate

PRID @: 6408'

SHOE @: 6487'

TD @: 6495'

NEWFIELD
Humpback Federal 9-24-8-17 1901' FSL & 602' FFL NE/SE Section 24-T8S-R17E Uintah Co, Utah API #43-047-34881; Lease #UUTU-74870



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VIII

999 18th STREET - SUITE 300
DENVER, COLORADO 80202-2466

SUBJECT: GROUND WATER SECTION GUIDANCE NO. 37
Demonstrating Part II (external) Mechanical Integrity
for a Class II injection well permit.

FROM: Tom Pike, Chief
UIC Direct Implementation Section

TO: All Section Staff
Montana Operations Office

During the review for a Class II injection well permit, consideration must be given to the mechanical integrity (MI) of the well. MI demonstrates that the well is in sound condition and that the well is constructed in a manner that prevents injected fluids from entering any formation other than the authorized injection formation.

A demonstration of MI is a two part process:

PART I - INTERNAL MECHANICAL INTEGRITY is an assurance that there are no significant leaks in the casing/tubing/packer system.

PART II - EXTERNAL MECHANICAL INTEGRITY demonstrates that after fluid is injected into the formation, the injected fluids will not migrate out of the authorized injection interval through vertical channels adjacent to the wellbore.

A Class II injection well may demonstrate Part II MI by showing that injected fluids remain within the authorized injection interval. This may be accomplished as follows:

- 1) Cement bond log showing 80% bond through the an appropriate interval (Section Guidance 34),
- 2) Radioactive tracer survey conducted according to a EPA-approved procedure, or
- 3) Temperature survey conducted according to a EPA-approved procedure (Section Guidance 38).

For each test option above, the operator of the injection well should submit a plan for conducting the test. The plan will then be approved (or modified and approved) by EPA. EPA's pre-approval of the testing method will assure the operator that the

test is conducted consistent with current EPA guidance, and that the test will provide meaningful results.

Part II MI may be demonstrated either before or after issuing the Final Permit. However, if Part II is to be demonstrated after the Final Permit is issued, a provision in the permit will require the demonstration of Part II MI. The well will also be required to pass Part II MI prior to granting authorization to inject.

Radioactive tracer surveys and temperature surveys require that the well be allowed to inject fluids as part of the procedure. In these cases, a well that has shown no other demonstration of Part II MI will be allowed to inject only that volume of fluid that is necessary to conduct the appropriate test.

After the results of the test proves that the well has passed Part II MI, the well will be given authorization to begin full injection operations.

If any of the tests show a lack of Part II MI, the well will be repaired and retested, or plugged (See Headquarters Guidance #76).

Mechanical Integrity Test

Casing or Annulus Pressure Mechanical Integrity Test

U.S. Environmental Protection Agency
Underground Injection Control Program, UIC Direct Implementation Program 8P-W-GW
999 18th Street, Suite 500 Denver, CO 80202-2466

EPA Witness: _____ Date: ____/____/____

Test conducted by: _____

Others present: _____

Well Name: _____	Type: ER SWD	Status: AC TA UC
Field: _____		
Location: _____	Sec: ____ T ____ N/S R ____ E/W	County: _____ State: ____
Operator: _____		
Last MIT: ____/____/____	Maximum Allowable Pressure: _____	PSIG

Is this a regularly scheduled test? Yes No

Initial test for permit? Yes No

Test after well rework? Yes No

Well injecting during test? Yes No If Yes, rate: _____ bpd

Pre-test casing/tubing annulus pressure: _____ psig

MIT DATA TABLE	Test #1	Test #2	Test #3
TUBING PRESSURE			
Initial Pressure	psig	psig	psig
End of test pressure	psig	psig	psig
CASING / TUBING ANNULUS PRESSURE			
0 minutes	psig	psig	psig
5 minutes	psig	psig	psig
10 minutes	psig	psig	psig
15 minutes	psig	psig	psig
20 minutes	psig	psig	psig
25 minutes	psig	psig	psig
30 minutes	psig	psig	psig
minutes	psig	psig	psig
minutes	psig	psig	psig
RESULT	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

Does the annulus pressure build back up after the test? Yes No

UTAH DIVISION OF OIL, GAS AND MINING

NOTICE OF REPORTING PROBLEMS

Operator: EOG Resources, Inc. Account: N9550 Today's Date: 09/16/2008

Problems:

- Late Report(s)
- Inaccurate Report(s)
- Incomplete Report(s)
- Other: No Subsequent Report

Failure to submit reports in a timely, accurate, and complete manner may result in the issuance of a Notice of Violation by the Division of Oil, Gas and Mining, and may result in the Division pursuing enforcement action as outlined in Rule R649-10, Administrative Procedures, and Section 40-6-11 of the Utah Code.

To avoid compliance action, these reporting problems should be resolved within 7 days.

Send reports to:

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

Fax to:

(801) 359-3940 *43 047 34878*
N Duck Creek 214-33
8S 21E 33

Type of Report	Month(s) of Problem Report		
<input type="checkbox"/> Production – Form 10 <input type="checkbox"/> Disposition – Form 11 <input type="checkbox"/> Gas Plant – Form 13 <input type="checkbox"/> Enhanced Recovery – UIC Form 2 <input type="checkbox"/> Injection – UIC Form 3 <input type="checkbox"/> Other _____			
Type of Report	Well Name(s)	API Number(s)	Drilling Commenced
<input type="checkbox"/> Spud Notice – Form 9 <input type="checkbox"/> Drilling Reports – Form 9 <input type="checkbox"/> Well Completion Report – Form 8 <input checked="" type="checkbox"/> Other <u>Subsequent Sundry</u>	<input checked="" type="checkbox"/> List Attached		

Description of Problem:

Operator has submitted sundry of intents on the following wells that have been approved by DOGM. Per Rule 649-3-23, a subsequent report shall be submitted on Form 9, Sundry Notice, with in 30 days after completion. The report should show workover results, well status, work completion date, new perforation depths, etc.

If you have questions or concerns regarding this matter, please contact Rachel Medina at (801) 538-5260 .

cc: Compliance File
 RAM
 Well File
 CHD

