

**RECEIVED**

JAN 24 2000

**DIVISION OF  
OIL, GAS AND MINING**

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

January 10, 2000

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

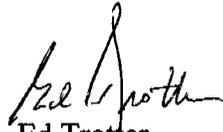
**RE: APPLICATION FOR PERMIT TO DRILL  
OLD SQUAWS CROSSING UNIT II #108-27  
NE/NE, SEC. 27, T10S, R19E  
UINTAH COUNTY, UTAH  
LEASE NO.: U-49518  
FEDERAL LANDS**

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



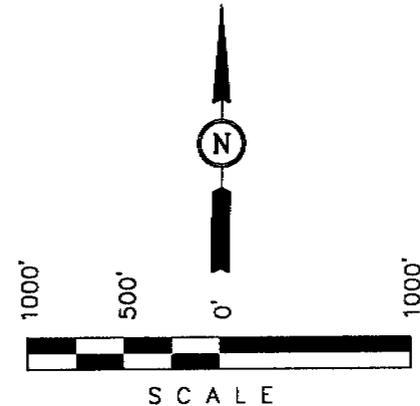
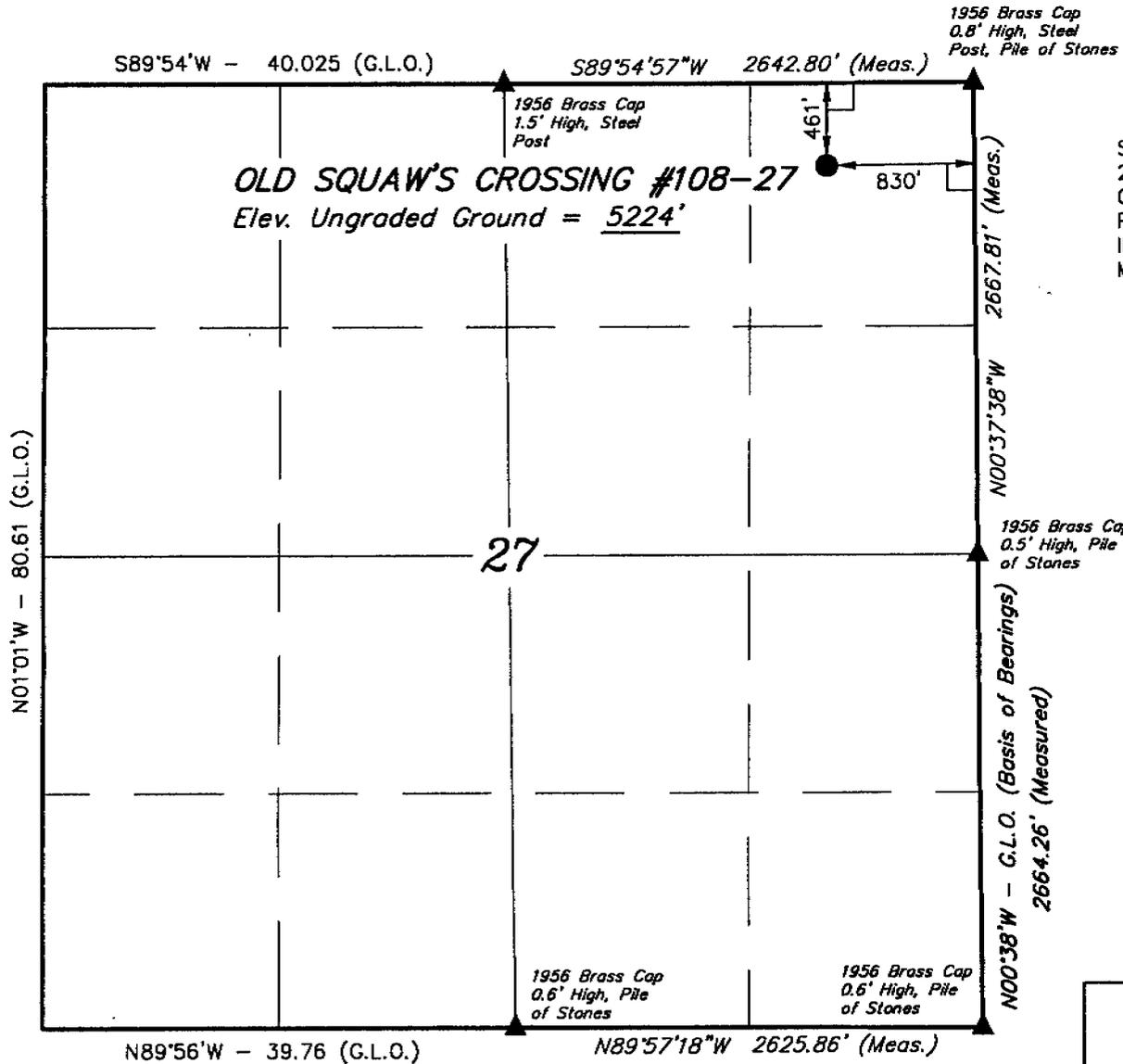
**EOG RESOURCES, INC.**

**T10S, R19E, S.L.B.&M.**

Well location, OLD SQUAW'S CROSSING #108-27, located as shown in the NE 1/4 NE 1/4 of Section 27, T10S, R19E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 27, T10S, R19E, S.L.B.&M. TAKEN FROM THE MOON BOTTOM QUADRANGLE, UTAH, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5282 FEET.



**CERTIFICATE**

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

*Robert L. Joseph*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161519  
 STATE OF UTAH

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

**LEGEND:**

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

Latitude = 39°55'27"  
 Longitude = 109°45'40"

SCALE 1" = 1000'	DATE SURVEYED: 11-24-99	DATE DRAWN: 12-1-99
PARTY D.K. L.J. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN**

**OLD SQUAWS CROSSING UNIT II #108-27**  
**NE/NE, SEC. 27, T10S, R19E**  
**UINTAH COUNTY, UTAH**

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

<b>FORMATION</b>	<b>DEPTH</b>	<b>TYPE ZONES</b>	<b>MAXIMUM PRESSURE</b>
Green River	1063		
Oil Shale	1063		
"H" Marker	2708		
"J" Marker	3126		
Base "M" Marker	4056		
Wasatch	4490		
Peters Point	4490	GAS	
Chapita Wells	5205	GAS	
Buck Canyon	6010	GAS	
EST. TD	6365		Anticipated BHP 2800 PSI

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

**4. CASING PROGRAM:**

<b><u>HOLE SIZE</u></b>	<b><u>INTERVAL</u></b>	<b><u>LENGTH</u></b>	<b><u>SIZE</u></b>	<b><u>WEIGHT</u></b>	<b><u>GRADE</u></b>	<b><u>THREAD</u></b>	<b><u>MINIMUM SAFETY FACTOR</u></b>		
							<b><u>COLLAPSE</u></b>	<b><u>BURST</u></b>	<b><u>TENSILE</u></b>
11	0' - 220'	200' - 220'	8 5/8	24.0 #	J-55	ST&C	1370 PSI	2950 PSI	263,000#
or									
12 1/4	0' - 220'	200' - 220'	9 5/8	32.3 #	H-40	ST&C	1370 PSI	2270 PSI	254,000#
7 7/8	0' - 6365'	6365'	4 1/2	10.5 #	J-55	ST&C	4010 PSI	4790 PSI	146,000#

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

All casing will be new or inspected.

**EIGHT POINT PLAN**

**OLD SQUAWS CROSSING UNIT II #108-27**  
**NE/ME, SEC. 27, T10S, R19E**  
**UINTAH COUNTY, UTAH**

**5. MUD PROGRAM**

<b><u>INTERVAL</u></b>	<b><u>MUD TYPE</u></b>
0' - 220'	Air
240' - 4000'	Air/Mist & Aerated Water
4000' - TD	Air/3% KCL water or KCL substitute

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

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

**6. VARIANCE REQUESTS:**

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

**7. EVALUATION PROGRAM:**

Logs: Schlumberger Platform Express  
AIT-GR-SP-CAL T.D. to base of surface casing  
FDC-CNL-GR-Cal-PE T.D. to 3900'

Cores: None Programmed  
DST: None Programmed

Completion: To be submitted at a later date.

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

**EIGHT POINT PLAN**

**OLD SQUAWS CROSSING UNIT II #108-27**  
**NE/NE, SEC. 27, T10S, R19E**  
**UINTAH COUNTY, UTAH**

**8. ABNORMAL CONDITIONS:**

None anticipated.

**9. STANDARD REQUIRED EQUIPMENT:**

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

**10. HAZARDOUS CHEMICALS:**

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

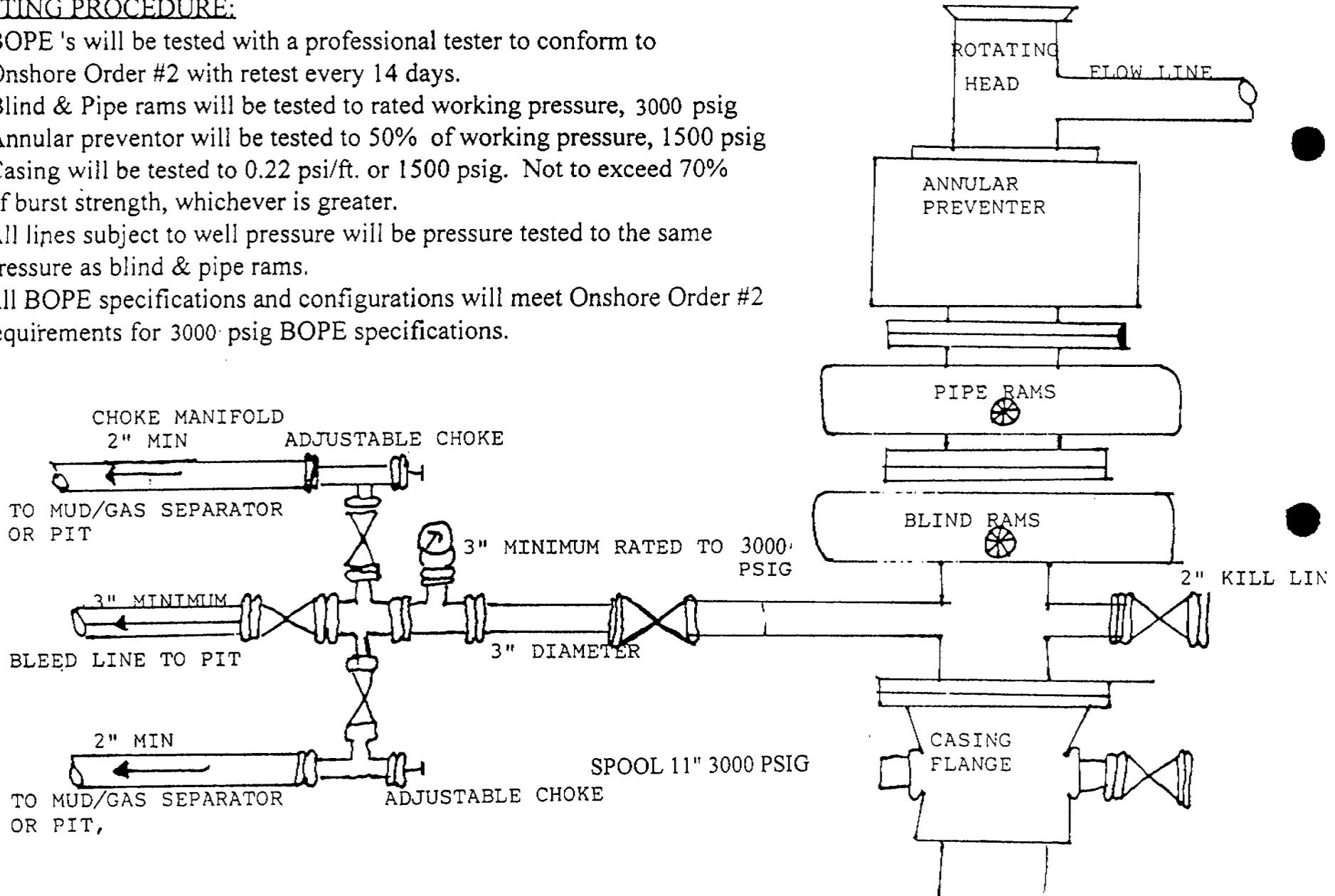
(Attachment: BOP Schematic Diagram)

## 3000 PSIG DIAGRAM

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

### TESTING PROCEDURE:

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



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

Company/Operator: EOG Resources, Inc.  
Well Name & Number: Old Squaws Crossing Unit II #108-27  
Lease Number: U-49518  
Location: 461' FNL & 830' FEL, NE/NE, Sec. 27, T10S, R19E,  
S.L.B.&M.U.S.B.&M., Uintah County, Utah  
Surface Ownership: Federal

**NOTIFICATION REQUIREMENTS**

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

Location Completion - prior to moving on the drilling rig.

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

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

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

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

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

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 21.4 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 200 feet 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.

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

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

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

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

- A. Water wells - None
  - B. Abandoned wells - None
  - C. Temporarily abandoned wells - None
  - D. Disposal wells - None
  - E. Drilling wells - None
  - F. Producing wells - 13\*
  - G. Shut in wells - None
  - H. Injection wells - None
- (\*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, combo separator-dehy unit with meter, 300 Bbl vertical or 200 Bbl low profile, condensate tank, and attaching piping. See attached facility diagram.
- 3. Oil gathering lines - None
- 4. Gas gathering lines - A 3" gathering line will be buried from dehy to the edge of the location.
- 5. Injection lines - None
- 6. Disposal lines - None
- 7. Surface pits - None

B. OFF WELL PAD

- 1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
- 2. **A 3" OD steel above ground natural gas pipeline will be laid approximately 442' from proposed location to a point in the NE/4 of Section 27, T10S, R19E, where it will tie into Questar Pipeline Co.'s existing line. Proposed pipeline crosses Federal lands within the Old Squaws Crossing II Unit, thus a Right-of-Way grant will not 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.

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

**5. LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from 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 Federal Land.
- C. No mineral materials will be required.

**7. METHODS OF HANDLING WASTE DISPOSAL**

**A. METHODS AND LOCATION**

- 1. Cuttings will be confined in the reserve pit.
- 2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Vernal sewage disposal plant.
- 3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
- 4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
- 5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

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

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

**On BLM administered land:**

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

**The reserve pit shall be lined.**

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

8. **ANCILLARY FACILITIES**

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

9. **WELLSITE LAYOUT**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.
- D. The approved seed mixture for this location is:  
**Western Wheatgrass-4 pounds per acre**  
**Shad Scale- 4 pounds per acre**  
**Four Wing Salt Bush- 4 pounds per acre**

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

**The stockpiled pit topsoil will be stored separate from the location topsoil at corner "A". The stockpiled location topsoil will be stored on the North end as shown on the location layout plat. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture for this location and then walked down with a cat.**

Access to the well pad will be from the North.

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

X **A soil compacted earthen berm shall be constructed on the South end of the location between corners 7 & 9 to direct water around location.**

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

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

X Corner #2 & 7 will be rounded off to minimize excavation.

#### **FENCING REQUIREMENTS:**

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

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

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

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BLM or SMA

specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is to be regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently mounted on concrete bases. Prior to a new road, crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, 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 stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

### **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 BLM will attach the appropriate surface rehabilitation conditions of approval.  
time of abandonment.

## **11. SURFACE OWNERSHIP**

Access road: Federal

Location: Federal

## **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.

**Additional Surface Stipulations**

N/A No construction or drilling activities shall be conducted between \_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_.

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within a 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately \_\_\_\_\_ feet \_\_\_\_\_ of the location, as flagged on the onsite.

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

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

All lease or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to Lessees. EOG Resources, Inc. is fully

responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

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

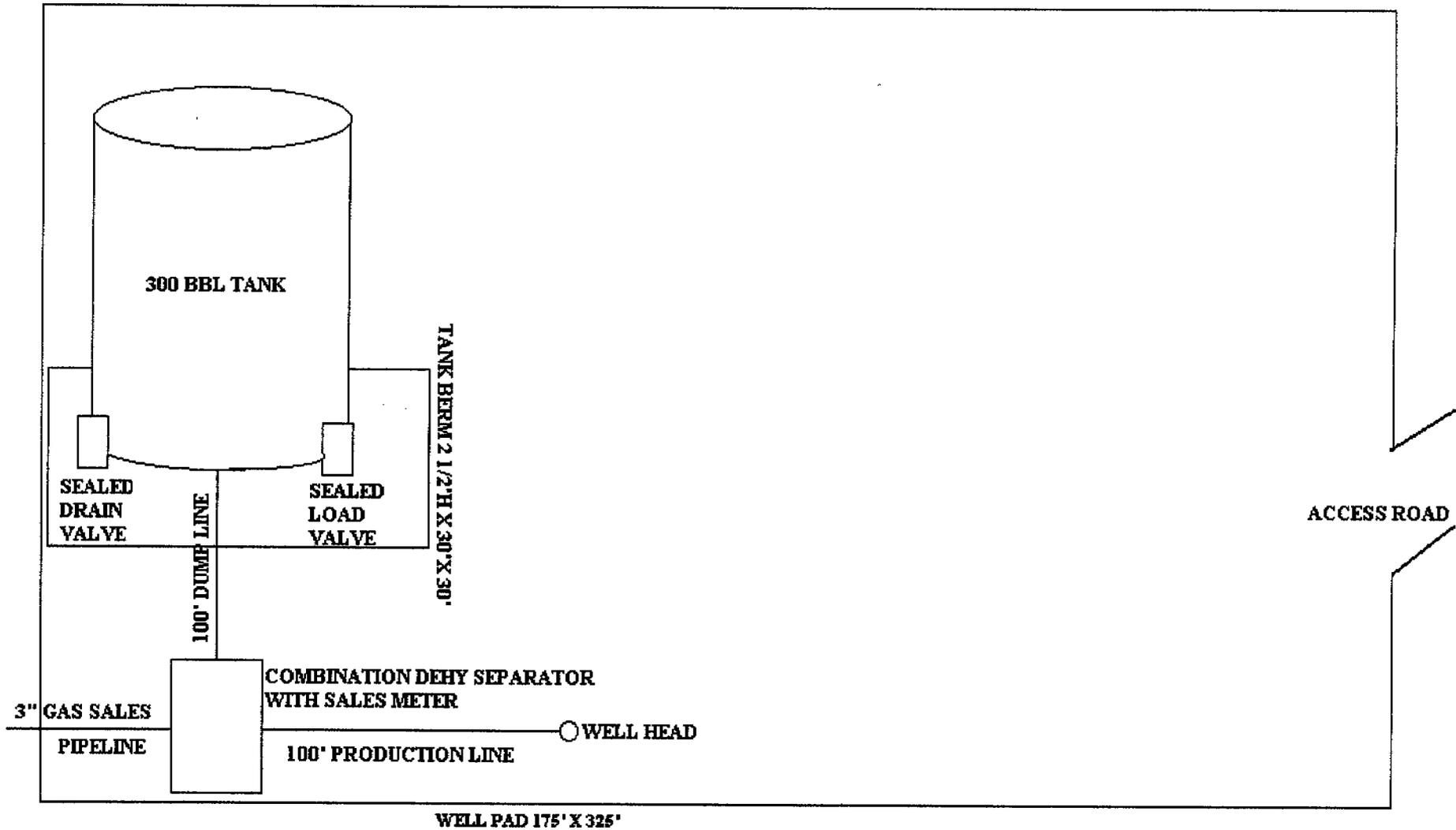
**Certification**

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.

1-19-2000  
Date

  
Agent

**SITE FACILITY DIAGRAM**  
**OLD SQUAWS CROSSING UNIT II #108-27**  
**SECTION 27, T10S, R19E, NE/4NE/4**  
**UNITAH COUNTY, UTAH**  
**FEDERAL LEASE NUMBER U- 49518**  
*(Site Security Plan is on file at EOG Resources, Inc.'s Vernal Office)*

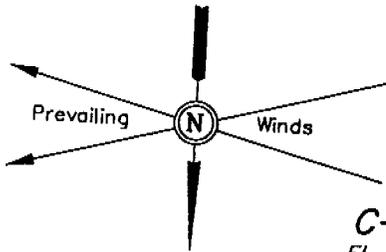
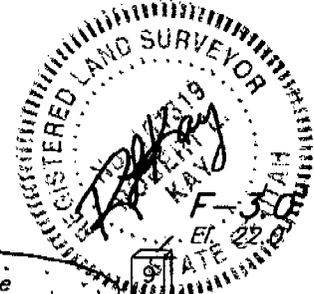


EOG RESOURCES, INC.

LOCATION LAYOUT FOR

OLD SQUAW'S CROSSING #108-27  
SECTION 27, T10S, R19E, S.L.B.&M.

461' FNL 830' FEL



C-11.9'  
El. 36.9'

C-5.6'  
El. 30.6' Topsoil Stockpile

Sta. 3+25

SCALE: 1" = 50'  
DATE: 12-1-99  
Drawn By: C.B.T.

Approx. Top of Cut Slope

NOTE:  
EARTHWORK CALCULATIONS REQUIRES A FILL OF 1.4' AT THE LOCATION STAKE FOR BALANCE. ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED BY AASHTO METHOD T-99.

Approx. Toe of Fill Slope

NOTE:

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

El. 41.7'  
C-24.7'  
(btm. pit)  
FLARE PIT

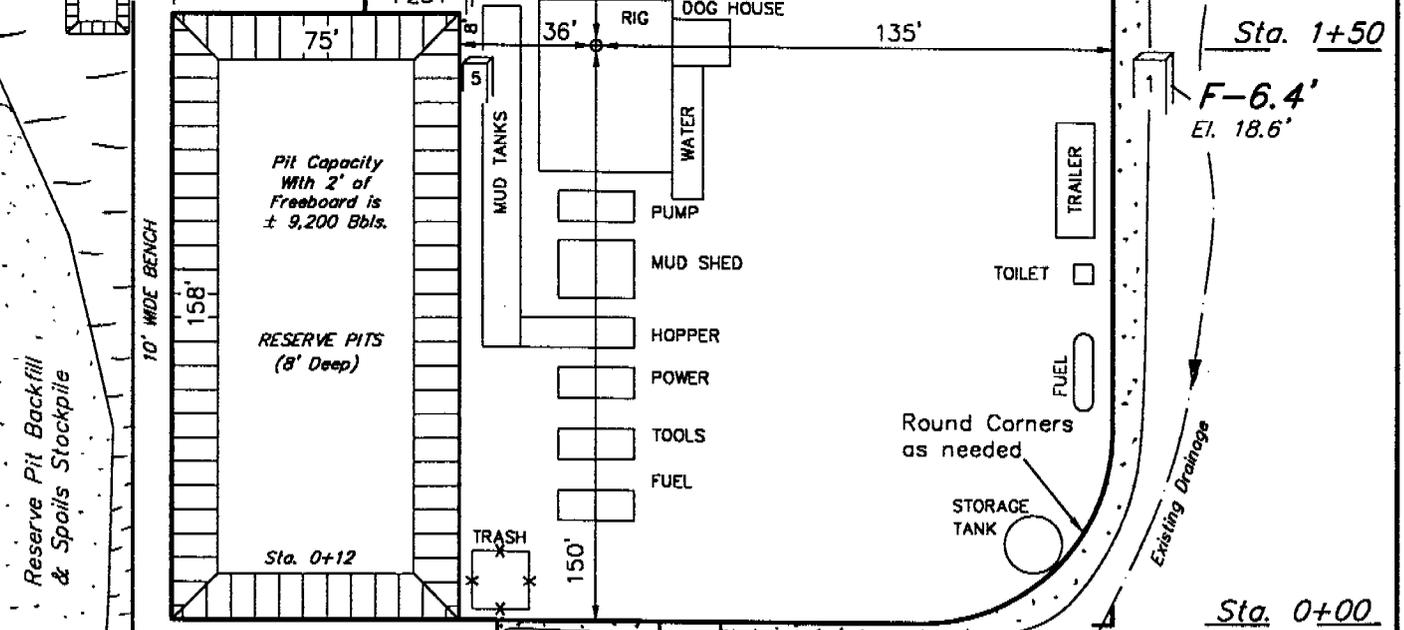
C-5.6'  
El. 30.6'

C-2.7'  
El. 27.7'

F-1.4'  
El. 23.6'

Sta. 1+50

F-6.4'  
El. 18.6'



El. 28.3'  
C-11.3'  
(btm. pit)

El. 24.0'  
F-1.0'

F-2.4'  
El. 22.6'

F-7.0'  
El. 18.0'

Elev. Ungraded Ground at Location Stake = 5223.6'  
Elev. Graded Ground at Location Stake = 5225.0'

Proposed Access Road

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

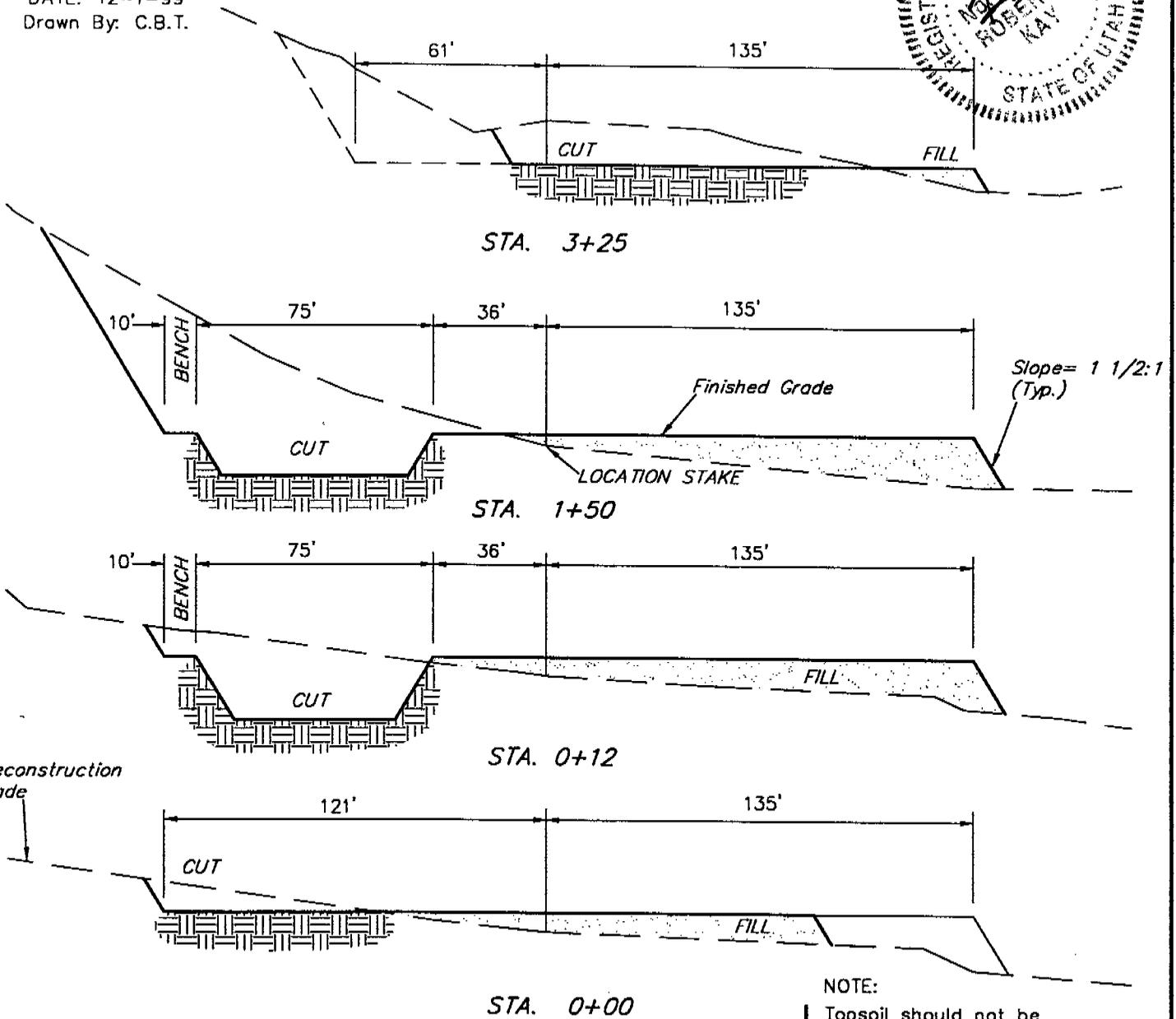
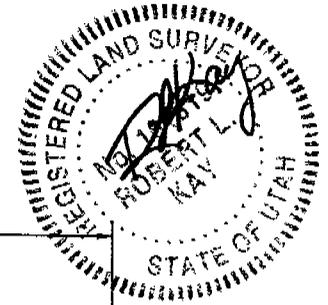
EOG RESOURCES, INC.

TYPICAL CROSS SECTIONS FOR

OLD SQUAW'S CROSSING #108-27  
SECTION 27, T10S, R19E, S.L.B.&M.  
461' FNL 830' FEL

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

DATE: 12-1-99  
Drawn By: C.B.T.

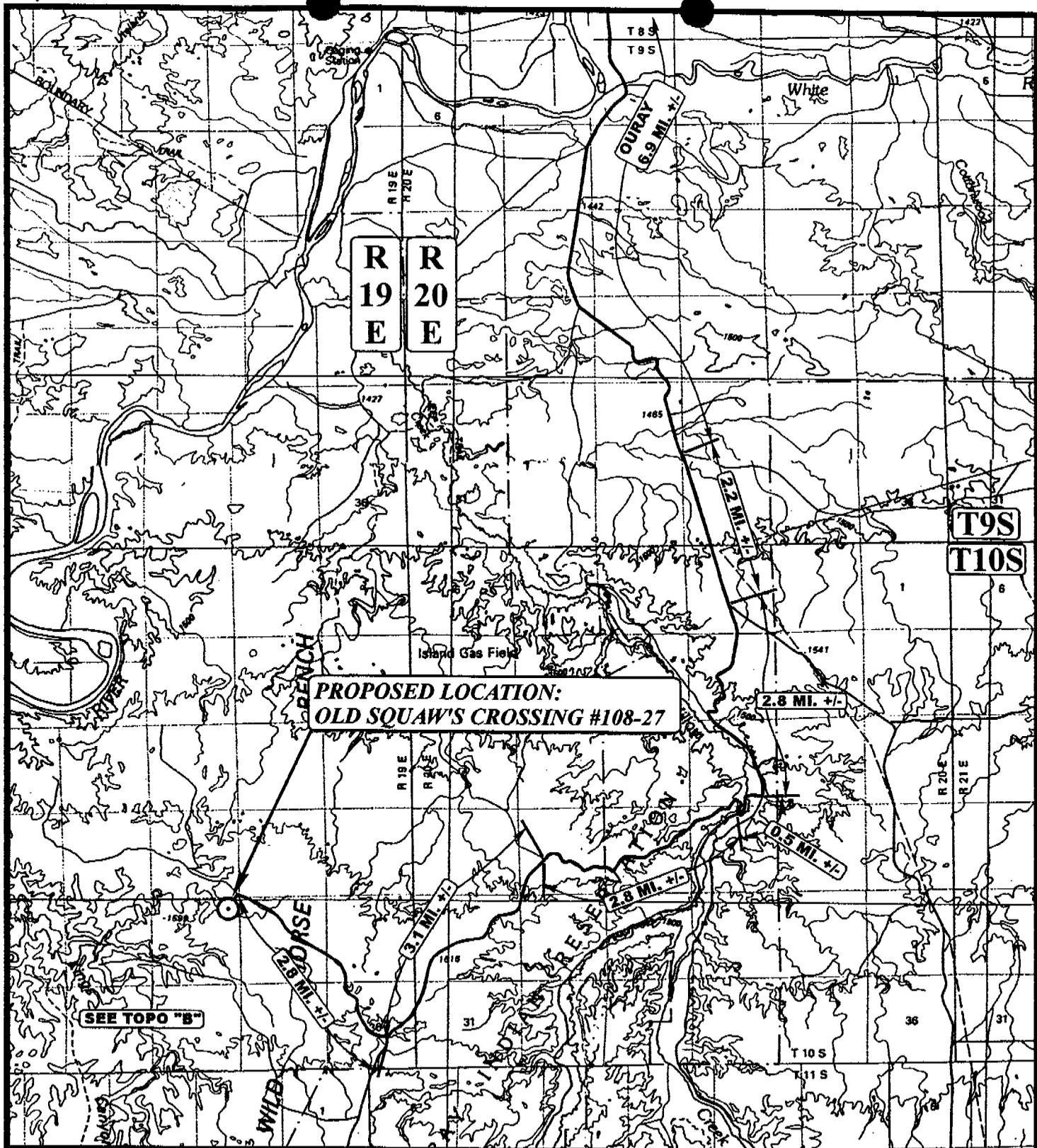


NOTE:  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	1,390 Cu. Yds.
Remaining Location	=	8,530 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>9,920 CU.YDS.</b>
<b>FILL</b>	<b>=</b>	<b>6,790 CU.YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	=	2,770 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	2,760 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	10 Cu. Yds.



**LEGEND:**

⊙ PROPOSED LOCATION



**EOG RESOURCES, INC.**

**OLD SQUAW'S CROSSING #108-27**  
**SECTION 27, T10S, R19E, S.L.B.&M.**  
**461' FNL 830' FEL**

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

**TOPOGRAPHIC** **12** **1** **99**  
**MAP** MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00 **A**  
 TOPO

R  
19  
E

⊕ 3-124

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0.2 MI. +/-

PROPOSED ACCESS 200' +/-

PROPOSED LOCATION:  
OLD SQUAW'S CROSSING #108-27

OURAY 21.1 MI. +/-

oil well

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD



**EOG RESOURCES, INC.**

**OLD SQUAW'S CROSSING #108-27**  
**SECTION 27, T10S, R19E, S.L.B.&M.**  
**461' FNL 830' FEL**



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

**TOPOGRAPHIC**  
**MAP**

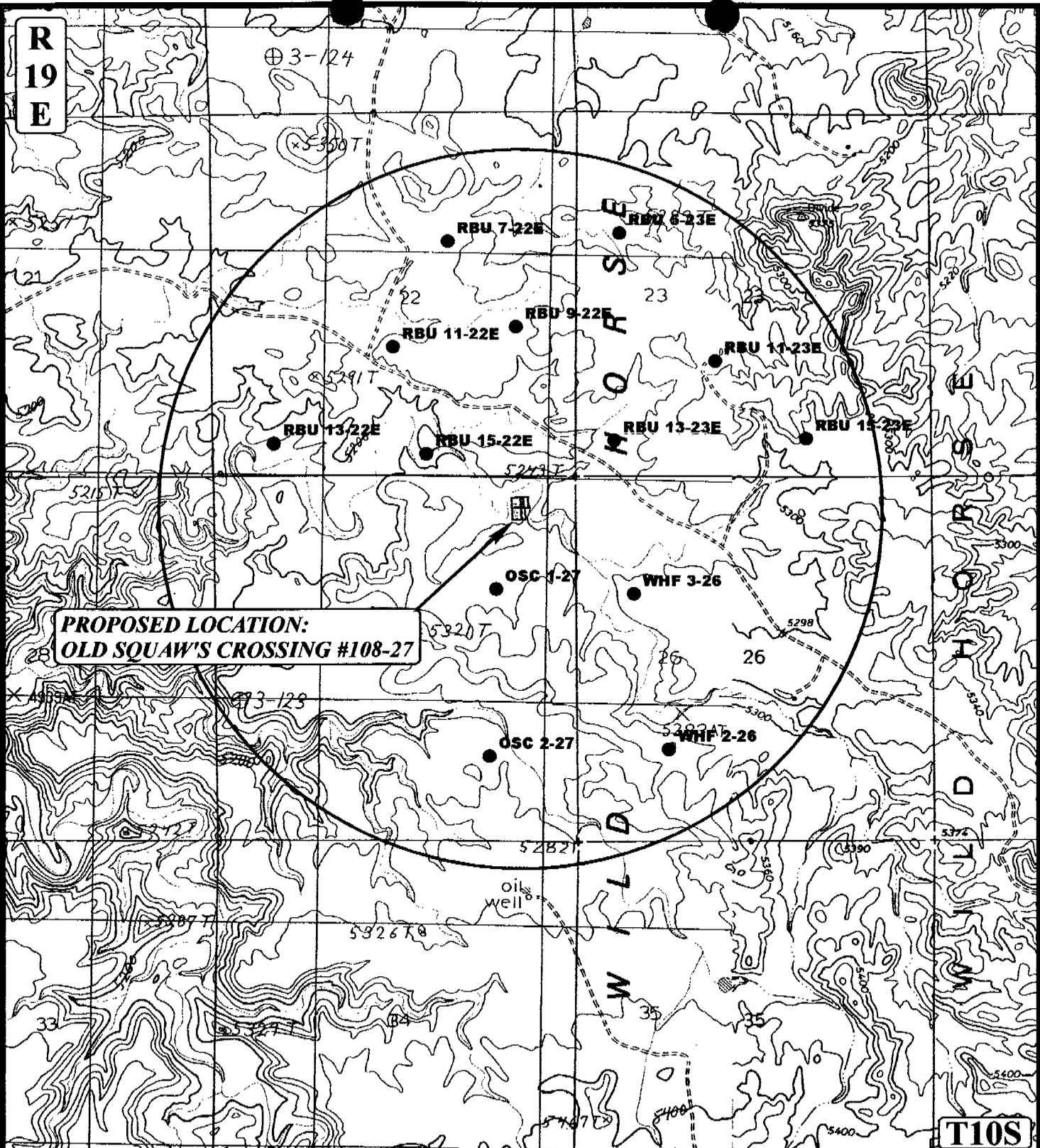
**12 2 99**  
MONTH DAY YEAR

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



R  
19  
E

T10S



**PROPOSED LOCATION:  
OLD SQUAW'S CROSSING #108-27**

**LEGEND:**

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

**EOG RESOURCES, INC.**

**OLD SQUAW'S CROSSING #108-27  
SECTION 27, T10S, R19E, S.L.B.&M.  
461' FNL 830' FEL**



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

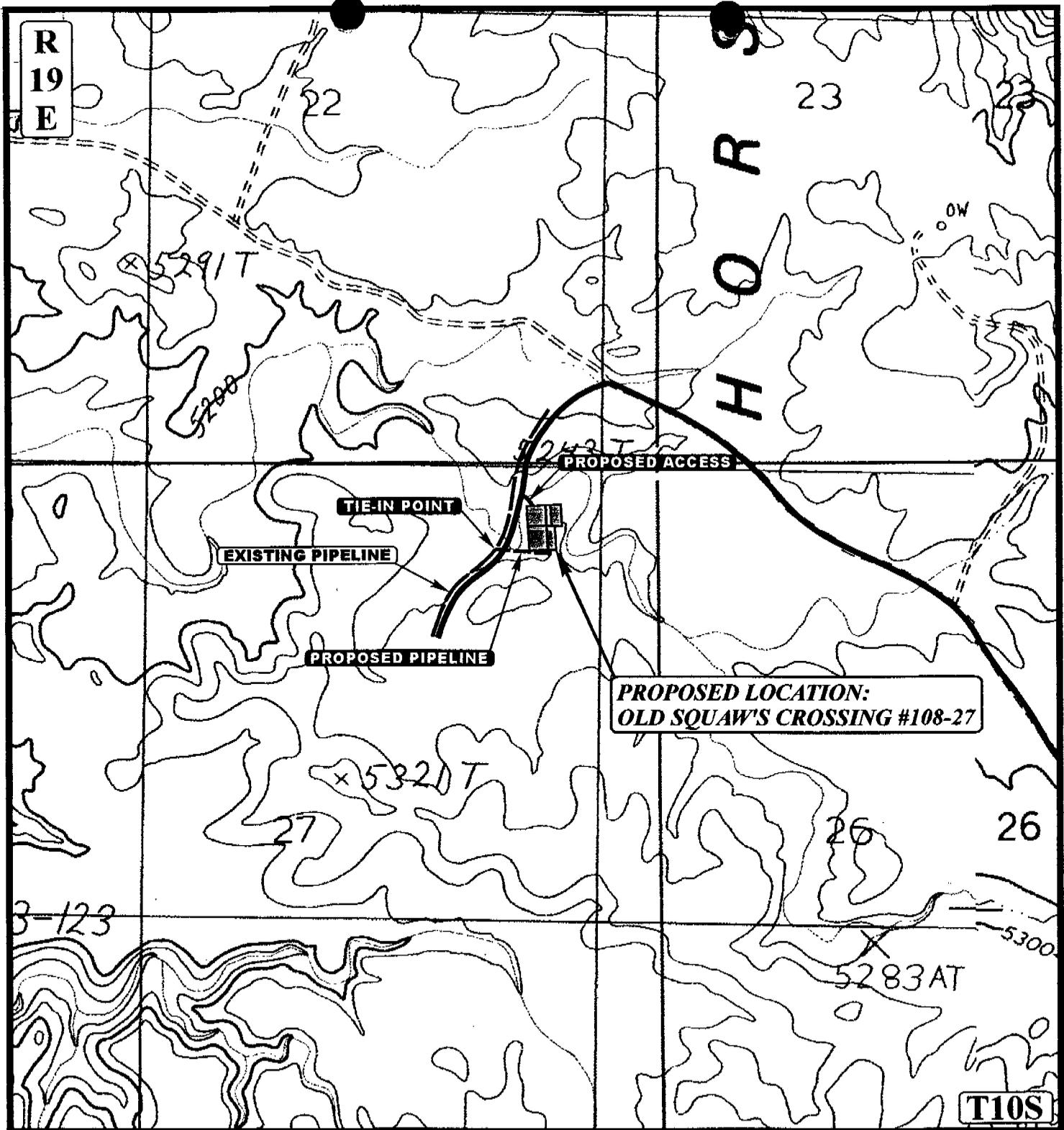


**TOPOGRAPHIC  
MAP**

**12 2 99**  
MONTH DAY YEAR

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





APPROXIMATE TOTAL PIPELINE DISTANCE = 442' +/-

**LEGEND:**

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

**EOG RESOURCES, INC.**

**OLD SQUAW'S CROSSING #108-27**  
**SECTION 27, T10S, R19E, S.L.B.&M.**  
**461' FNL 830' FEL**

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



**TOPOGRAPHIC** 12 2 99  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00

**D**  
**TOPO**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/24/2000

API NO. ASSIGNED: 43-047-33463
--------------------------------

WELL NAME: OSCU II 108-27  
 OPERATOR: EOG RESOURCES INC ( N9550 )  
 CONTACT: ED TROTTER, AGENT

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:  
 NENE 27 100S 190E  
 SURFACE: 0461 FNL 0830 FEL  
 BOTTOM: 0461 FNL 0830 FEL  
 UINTAH  
 NATURAL BUTTES ( 630 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: U-49518  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:  
 Flat  
 Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. NM 2308 )  
 Potash (Y/N)  
 Oil Shale (Y/N) \*190 - 5 (B)  
 Water Permit  
 (No. 49-1501 )  
 RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )  
 Fee Surf Agreement (Y/N)

LOCATION AND SITING:  
 R649-2-3. Unit Old Square Crossing II  
 R649-3-2. General  
 Siting: \_\_\_\_\_  
 R649-3-3. Exception  
 Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_  
 R649-3-11. Directional Drill

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

STIPULATIONS: ① FEDERAL APPROVAL  
 \_\_\_\_\_  
 \_\_\_\_\_



# Utah Oil Gas and Mining

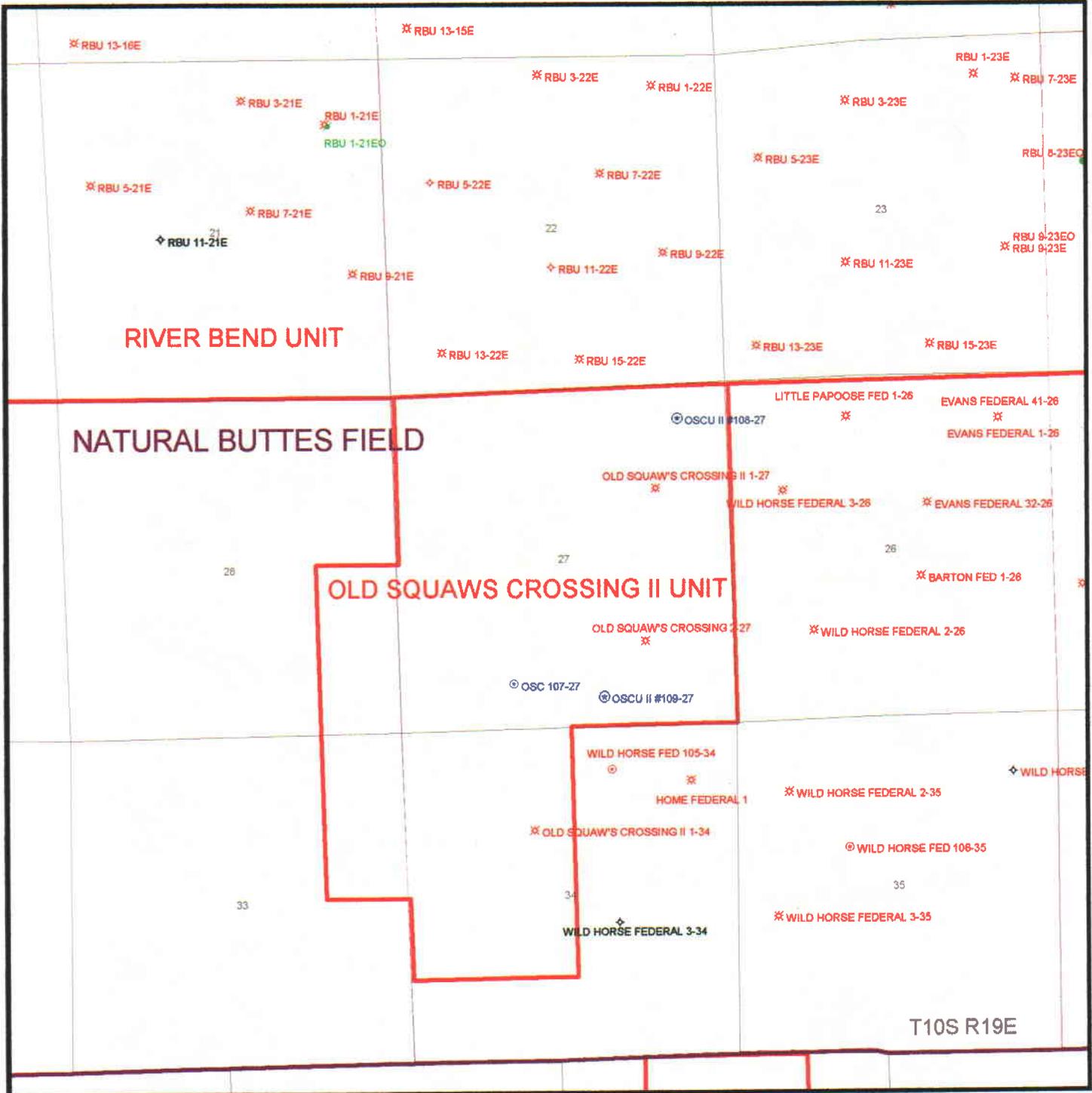
Serving the Industry, Protecting the Environment

OPERATOR: EOG RESOURCES INC. (N9550)

FIELD: NATURAL BUTTES (630)

SEC. 27, T 10 S, R 19 E,

COUNTY: UINTAH UNIT: OLC SQUAWS CROSSING II

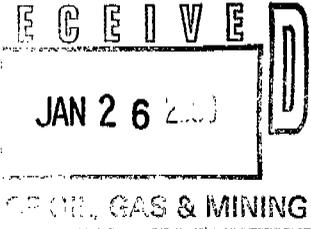


PREPARED  
DATE: 25-Jan-2000

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155



IN REPLY REFER TO:  
3160  
(UT-922)

January 26, 2000

### Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2000 Plan of Development Old Squaw Crossing  
II Unit Uintah County, Utah.

Pursuant to email between Lisha Cordova, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2000 within the Old Squaw Crossing II Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
43-047-33463	OSCU II 108-27	0461-FNL 0830-FEL 27 10S 19E
43-047-33464	OSCU II 109-27	0482-FSL 1992-FEL 27 10S 19E

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Old Squaw Crossing II  
Division of Oil Gas and Mining  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:1-26-0



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

Michael O. Leavitt  
Governor  
Kathleen Clarke  
Executive Director  
Lowell P. Braxton  
Division Director

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

January 27, 2000

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

Re: OSCU II 108-27 Well, 461' FNL, 830' FEL, NE NE, Sec. 27, T. 10 S, R. 19 E,  
Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-33463.

Sincerely,

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

John R. Baza  
Associate Director

jb

Enclosures

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

**Operator:** EOG Resources Inc.

**Well Name & Number:** OSCU II 108-27

**API Number:** 43-047-33463

**Lease:** U-49518

**Location:** NE NE      **Sec.** 27      **T.** 10 S.      **R.** 19 E.

### Conditions of Approval

1. General

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

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza at (801)538-5334.

3. Reporting Requirements

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

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

RECEIVED

Form 3160-3  
(July 1992)

FORM APPROVED  
OMB NO. 1004-0136

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 2 2000

APPLICATION FOR PERMIT TO DRILL OR DEEPEN  
DIVISION OF OIL, GAS AND MINING

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

2. Name of Operator  
EOG RESOURCES, INC.

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

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface  
461' FNL & 830' FEL NE/NE

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

15. Distance from proposed location to nearest property or lease line, ft.  
461'

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

21. Elevations (show whether DF, RT, GR, etc.)  
5225 FEET GRADED GROUND

5. Lease designation and serial number  
U-49518

6. If Indian, Allottee or Tribe name

7. Unit Agreement Name  
OLD SQUAWS CROSSING UNIT II

8. Farm or lease name, well no.  
OLD SQUAWS CROSSING UNIT II

9. API Well no.  
OSCU II #108-27

10. Field and pool, or wildcat  
OSCU II/WASATCH

11. Sec., T., R., M., or BLK. and survey or area  
SEC. 27, T10S, R19E

12. County or parish  
UINTAH

13. State  
UTAH

17. No. of acres assigned to this well

20. Rotary or cable tools  
ROTARY

22. Approx. date work will start  
FEBRUARY 2000

23. PROPOSED CASING AND CEMENTING PROGRAM					
SIZE OF HOLE	GRADE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"		8 5/8"	24#	200' - 220'	100-150 SX CLASS "G" + 2%
or 12 1/4"		9 5/8"	32.30#	200 - 220'	CaCl2 + 1/4 #/SX CELLOFLAKE.
7 7/8"		4 1/2"	10.50#	6365'	50/50 POXMIX + 2% GEL + 10% SALT TO 400' ABOVE ALL ZONES OF INTEREST (+10% EXCESS). LIGHT CEMENT (11PPG+) + LCM TO 200' ABOVE OIL SHALE OR FRESH WATER INTERVALS (+ 5% EXCESS).

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

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

Pc: UTAH DIVISION OF OIL, GAS, AND MINING

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

SIGNED [Signature] TITLE Agent DATE 1-19-2000

(This space for Federal or State office use)

PERMIT NO. **NOTICE OF APPROVAL** APPROVAL DATE \_\_\_\_\_

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE 1-31-00

CONDITIONS OF APPROVAL REFERENCED TO OPERATOR'S COPY

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: EOG Resources

Well Name & Number: OSCU II 108-27

API Number: 43-047-33463

Lease Number: U-49518

Location: NENE Sec. 27 T. 10S R. 19E

**NOTIFICATION REQUIREMENTS**

- Location Construction - at least forty-eight (48) hours prior to construction of location and access roads.
- Location Completion - prior to moving on the drilling rig.
- Spud Notice - at least twenty-four (24) hours prior to spudding the well.
- Casing String and Cementing - at least twenty-four (24) hours prior to running casing and cementing all casing strings.
- BOP and Related Equipment Tests - at least twenty-four (24) hours prior to initiating pressure tests.
- First Production Notice - within five (5) business days after new well begins, or production resumes after well has been off production for more than ninety (90) days.

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

## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

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

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

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

### A. DRILLING PROGRAM

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

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

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

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a 3M system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

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

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

3. Casing Program and Auxiliary Equipment

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

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

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the top of the shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

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

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

5. Coring, Logging and Testing Program

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

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

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

A cement bond log (CBL) will be run from the production casing shoe to **TOP OF CEMENT** and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. One copy of all logs, core descriptions, core analyses, well-test data, geologic

summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

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

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

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

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

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

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

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

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-5 (b.9. d.), and shall be submitted to the appropriate District Office within sixty (60) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-5 (b. 4).

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

7. Other Information

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

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

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

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

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

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

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

officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

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

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

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

Wayne Bankert (435) 789-4170  
Petroleum Engineer

Ed Forsman (435) 789-7077  
Petroleum Engineer

Jerry Kenczka (435) 781-1190  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

## EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES

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

- Unused fracturing fluids or acids
- Gas plant cooling tower cleaning wastes
- Painting wastes
- Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids
- Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste
- Refinery wastes
- Liquid and solid wastes generated by crude oil and tank bottom reclaimers
- Used equipment lubrication oils
- Waste compressor oil, filters, and blowdown
- Used hydraulic fluids
- Waste solvents
- Waste in transportation pipeline-related pits
- Caustic or acid cleaners
- Boiler cleaning wastes
- Boiler refractory bricks
- Incinerator ash
- Laboratory wastes
- Sanitary wastes
- Pesticide wastes
- Radioactive tracer wastes
- Drums, insulation and miscellaneous solids.

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

- The access road shall be crowned at between 2 to 3 %.
- When plowing snow during the winter months, the snow shall be plowed outside of the burrow ditches to prevent the snow melt from saturating the road during the spring.
- The location topsoil will be windrowed along the north end of the location between corner 2 and the access road, not on the south end of the location as shown on the cut sheet. The pit topsoil will be piled separately from the location topsoil on the hill east of pit corner A. **Topsoil is not to be used for dike construction or any other uses over the life of the well.**
- A compacted earthen berm will be constructed between corner 7 and 9 to divert run off water around the location.
- The reserve pit spoils will be piled on the north end of the pit rather than east of the pit as shown on the cut sheet.
- Since EOG is now hauling in all their dike material, it will not be necessary to leave a subsoil pile.
- The operator will control noxious weeds along rights-of-way for roads pipelines, well sites, or other applicable facilities. A list of noxious weeds may be obtained from the BLM, or the appropriate County Extension Office. On BLM administered land it is require that a Pesticide Use Proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations or at any other time without BLM authorization.
- All permanent facilities constructed or installed on location within six months (including pumping units) will be painted Carlsbad Canyon. Facilities required to comply with O.S.H.A. will be excluded.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EOG RESOURCES INC

Well Name: OSCU 108-27

Api No. 43-047-33463 Lease Type: FEDERAL

Section 27 Township 10S Range 19E County UINTAH

Drilling Contractor BILL MARTIN RIG # AIR

SPUDDED:

Date 03/16/2000

Time 1:00 PM

How DRY HOLE

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

Reported by ED TROTTER

Telephone # 1-435-789-4120

Date 03/17/2000 Signed: CHD

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

**SUNDRY NOTICE AND REPORTS ON WELLS**

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

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

<p>1. Type of Well</p> <p style="text-align: center;"> <input type="checkbox"/> Oil WELL     <input checked="" type="checkbox"/> Gas Well     <input type="checkbox"/> Other         </p> <p>2. Name of Operator <b>EOG Resources, Inc.</b></p> <p>3. Address and Telephone No. <b>P.O. BOX 250, BIG PINEY, WY 83113     (307) 276-3331</b></p> <p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>461' FNL - 830' FEL (NE/NE) SECTION 27, T10S, R19E</b></p>	<p>5. Lease Designation and Serial No. <b>U 49518</b></p> <p>6. If Indian, Alottee or Tribe Name</p> <p>7. If Unit or C.A., Agreement Designation <b>OLD SQUAWS CROSSING UNIT II</b></p> <p>8. Well Name and No. <b>OLD SQUAWS CROSSING UNIT II 108-27</b></p> <p>9. API Well No. <b>43-047-33463</b></p> <p>10. Field and Pool or Exploratory Area <b>OLD SQUAWS CROSSING UNIT II/WASATCH</b></p> <p>11. County                      State <b>UINTAH,                      UTAH</b></p>
---	--

**CONFIDENTIAL**

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

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

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

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

**EOG Resources, Inc. spudded 11" surface hole at the subject location 3/16/2000. The contractor was Bill Martin Drilling. Wayne Bankert of the Vernal BLM District office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 3/17/2000.**

**RECEIVED**

MAR 30 2000

DIVISION OF  
OIL, GAS AND MINING

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

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

SIGNED *Taty Carlson* TITLE Regulatory Analyst DATE 3/27/2000

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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

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

ENTITY ACTION FORM - FORM 6

T-197 P.01/02 F-980

307276935

From-EOG -

Apr-14-00 09:50am

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
A	99999	12713	43-047-33506	NORTH DUCK CREEK 120-28	NW/NE	28	8S	21E	UINTAH	03/28/00	
<p><b>CONFIDENTIAL</b> 000414 entity added</p>											
A	99999	12714	43-047-33507	NORTH DUCK CREEK 122-31	NW/NE	31	8S	21E	UINTAH	3/28/2000	
<p><b>CONFIDENTIAL</b> 000414 entity added.</p>											
B	99999	10687	43-047-33463	OLD SQUAWS CROSSING 108-27	NE/NE	27	10S	19E	UINTAH	03/17/00	
<p><b>CONFIDENTIAL</b> 000414 entity added. (WSTC) Old Squaws Unit</p>											
A	99999	12689	43-047-33419	WILD HORSE FED. 105-34	NW/NE	34	10S	19E	UINTAH	01/17/00	
<p><b>CONFIDENTIAL</b> 000215 entity added.</p>											

ACTIONS CODES (See instructions on back of form)

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

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

*Kate Carlson*  
 \_\_\_\_\_  
 Signature  
 Regulatory Analyst 4/14/2000  
 \_\_\_\_\_  
 Title Date  
 Phone No. (307) 276-3331  
 \_\_\_\_\_

(3/89)

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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

OPERATOR ACCT. NO. N 9550

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
A	599999	12688	43-047-33420	WILD HORSE FED. 106-35	SE/NW	35	10S	19E	UINTAH	01/14/00	
1 COMMENTS: <i>000215 Entity Added.</i>											
<b>CONFIDENTIAL</b>											
2 COMMENTS:											
3 COMMENTS:											
4 COMMENTS:											
5 COMMENTS:											

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)

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

4/14/2000  
 \_\_\_\_\_  
 Date

F-080

P. 02/02

T-197

3072763335

From-EOG - BIG PINEY, WY.

Apr-14-00 09:50am

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

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

**SUNDRY NOTICE AND REPORTS ON WELLS**

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

**SUBMIT IN TRIPLICATE**

**CONFIDENTIAL**

<p>1. Type of Well</p> <p style="text-align: center;">Oil                      Gas</p> <p style="text-align: center;"><input type="checkbox"/> WELL    <input checked="" type="checkbox"/> Well    <input type="checkbox"/> Other</p>	<p>5. Lease Designation and Serial No. <b>U 49518</b></p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or C.A., Agreement Designation <b>OLD SQUAWS CROSSING UNIT II</b></p> <p>8. Well Name and No. <b>OLD SQUAWS CROSSING UNIT II 108-27</b></p> <p>9. API Well No. <b>43-047-33463</b></p> <p>10. Field and Pool or Exploratory Area <b>OLD SQUAWS CROSSING UNIT II/WASATCH</b></p> <p>11. County                      State <b>UINTAH,                      UTAH</b></p>
<p>2. Name of Operator <b>EOG Resources, Inc.</b></p>	
<p>3. Address and Telephone No. <b>P.O. BOX 250, BIG PINEY, WY 83113      (307) 276-3331</b></p>	
<p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>461' FNL - 830' FEL (NE/NE) SECTION 27, T10S, R19E</b></p>	

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"/> SUBSEQUENT REPORT  <input type="checkbox"/> FINAL ABANDONMENT NOTICE	<table style="width:100%;"> <tr> <td style="width:33%; vertical-align: top;"> <input type="checkbox"/> ABANDONMENT  <input type="checkbox"/> RECOMPLETION  <input type="checkbox"/> PLUGGING BACK  <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> ALTERING CASING  <input checked="" type="checkbox"/> OTHER                             </td> <td style="width:33%; vertical-align: top;"> <input type="checkbox"/> CHANGE OF PLANS  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> NON-ROUTINE FRACTURING  <input type="checkbox"/> WATER SHUT-OFF  <input type="checkbox"/> CONVERSION TO INJECTION  <input type="checkbox"/> DISPOSAL OF PRODUCED WATER                             </td> </tr> </table> <p align="center"><small>(Note: Report results of multiple completion on Well Completions or Recompletion Report and Log Form.)</small></p>	<input type="checkbox"/> ABANDONMENT <input type="checkbox"/> RECOMPLETION <input type="checkbox"/> PLUGGING BACK <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> ALTERING CASING <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> NON-ROUTINE FRACTURING <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> CONVERSION TO INJECTION <input type="checkbox"/> DISPOSAL OF PRODUCED WATER
<input type="checkbox"/> ABANDONMENT <input type="checkbox"/> RECOMPLETION <input type="checkbox"/> PLUGGING BACK <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> ALTERING CASING <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CHANGE OF PLANS <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> NON-ROUTINE FRACTURING <input type="checkbox"/> WATER SHUT-OFF <input type="checkbox"/> CONVERSION TO INJECTION <input type="checkbox"/> DISPOSAL OF PRODUCED WATER		

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

EOG Resources, Inc. requests authorization for disposal of produced water from the referenced well to any of the following locations:

1. Natural Buttes Unit 21-20B SWD
2. Ace Disposal
3. EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit)

**RECEIVED**  
  
 MAY 08 2000  
  
 DIVISION OF  
**OIL, GAS AND MINING**

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

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

SIGNED *John Carlisle* TITLE Regulatory Analyst DATE 5/04/2000

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

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

Expires August 31, 1985

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

5. LEASE DESIGNATION AND SERIAL NO.

U 49518

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

OLD SQUAWS CROSSING II UNIT

8. FARM OR LEASE NAME

OLD SQUAWS CROSSING II UNIT

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

13. TYPE OF WELL:

OIL WELL  GAS WELL  DRY  OTHER

b. TYPE OF COMPLETION:

NEW WELL  WORK OVER  DEEPEN  PLUG BACK  DEEPEN  OTHER

2. NAME OF OPERATOR

EOG Resources, Inc.

3. ADDRESS OF OPERATOR

P.O. BOX 250 BIG PINEY, WYOMING 83113

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

At surface 461 FNL - 830' FEL (NE/NE)  
At top prod. interval reported below SAME  
At total depth SAME

9. WELL NO.

108-27

10. FIELD AND POOL, OR WILDCAT

OLD SQUAWS CROSSING II/WASATCH

11. SEC., T., R., M., OR BLOCK AND SURVEY

SECTION 27, T10S, R19E

12. COUNTY OR PARISH

UINTAH,

13. STATE

UTAH

14. PERMIT NO.

43-047-33463

DATE PERMIT ISSUED

1/27/2000

15. DATE SPUDDED

3/16/2000

16. DATE T.D. REACHED

4/02/2000

17. DATE COMPL. (Ready to prod.)

5/01/2000

18. ELEVATIONS (DF, RKB, RT, G, ETC.)\*

5240' KB

19. ELEV. CASINGHEAD

5225' PREP. GL.

20. TOTAL DEPTH, MD & TVD

6390'

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

6349'

22. IF MULTIPLE COMPLECTIONS, HOW MANY?

1

23. ROTARY TOOLS

ROTARY

CABLE TOOLS

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

WASATCH

5043' - 6038'

25. WAS DIRECTIONAL SURVEY MADE?

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN Dipole Sonic Imager, Compensated Neutron, GR, Dipole Sonic Imager, Compensated Neutron, Log Quality Control, Cement bond Log, Collar Locator, GR, Platform Express Logs, Array Induction w/Linear Correlation, GR & Compensated Neutron, Litho Density.

27. WAS WELL CORED?

NO

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24.0# J-55	218'	12-1/4"	100 sx Class "G" cement.	NONE
4-1/2"	10.5# J-55	6366'	7-7/8"	400 sx Hi-Lift & 500 sx 50/50 Pozmix.	NONE

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6276'	

31. PERFORATION RECORD (Interval, size and number)

Interval	Size	Number	SPF
Wasatch B-3 & C-13		6263-65' & 6033-38'	w/3 SPF
C-13		5752-58', 5766-68' & 5772-76'	w/3 SPF
C-11		5618-20', 5632-36' & 5649-76'	w/3 SPF
C-9		5418-20' & 5469-76'	w/3 SPF
P-8		5043-46', 5074-77', 5096-5100', 5103-06' & 5112-16'	w/2 SPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5752-5776'	18,018 gals gelled water & 82,500# 20/40 sand.
5618-5676'	17,304 gals gelled water & 82,000# 20/40 sand.
5418-5476'	17,850 gals gelled water & 83,000# 20/40 sand.
5043-5116'	18,396 gals gelled water & 97,520# 20/40 sand.

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)	WELL STATUS (Producing or shut-in)					
5/01/2000	FLOWING	PRODUCING					
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N FOR	OIL-BBL.	GAS-MCF.	WATER-BBL.	GAS-OIL RATIO
5/03/2000	24	16/64"		15 BC	1969 MCFD	2 BW	
FLOW-TUBING PRESS.	CASING PRESSURE	CALCULATED	OIL-BBL.	GAS-MCF.	WATER-BBL.	OIL GRAVITY-API (CORR.)	
FTP 1345 psig	CP 1430 psig		15 BC	1969 MCFD	2 BW		

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

SOLD

TEST WITNESSED BY

JAY ORR

35. LIST OF ATTACHMENTS

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

SIGNED *Jay Orr* TITLE Regulatory Analyst DATE 5/04/2000

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

## INSTRUCTIONS

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

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

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

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

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

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

**PRIVACY ACT**  
~~CONFIDENTIAL~~

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

**AUTHORITY:** 30 U.S.C. 181 et. seq., 25 U.S.C. et. seq., 43 CFR 3160

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

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

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

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

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

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

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

SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	TOP		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Green River	1120'	
				Base "M" Marker	3955'	
				"N" Limestone	4318'	
				Wasatch		
				Peter's Point	4473'	
				P-8	5042'	
				Chapita Wells	5197'	
				C-11	5618'	
				C-13	5747'	
				Buck Canyon	6100'	

**RECEIVED**  
 MAY 08 2000  
 DIVISION OF  
 OIL, GAS AND MINING

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
**CDW**

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**10/1/2011**

<b>FROM:</b> (Old Operator): N9550-EOG Resources, Inc. 1060 E Highway 40 Vernal, UT 84078  Phone: 1 (435) 781-9145	<b>TO:</b> ( New Operator): N3755-Koch Exploration Company, LLC. 9777 Pyramid Court, Suite 210 Englewood, CO 80112  Phone: 1 (303) 325-2561
---	--

**CA No.**

**Unit:**

**NORTH ALGER**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST - 10 WELLS								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 11/9/2011
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 11/9/2011
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/29/2011
- Is the new operator registered in the State of Utah: Business Number: 5078823-0161
- (R649-9-2)Waste Management Plan has been received on: Requested 12/19/2011
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 11/2/2011 BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: 10/24/2011
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: not yet
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 12/19/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 12/19/2011
- Bond information entered in RBDMS on: n/a
- Fee/State wells attached to bond in RBDMS on: n/a
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: COB000296
- Indian well(s) covered by Bond Number: n/a
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number n/a
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

**COMMENTS:** Five undrilled APDs are not being transferred at this time and may be rescinded in the future.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**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.  
Multiple Leases

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2.**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No. Natural Buttes
2. Name of Operator EOG Resources, Inc <b>N9550</b>		8. Well Name and No. Multiple Wells
3a. Address 1060 EAST HIGHWAY 40, VERNAL, UT 84078	3b. Phone No. (include area code) 435-781-9145	9. API Well No. See Attached
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) See Attached		10. Field and Pool or Exploratory Area Natural Buttes
		11. Country or Parish, State Uintah, Utah

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

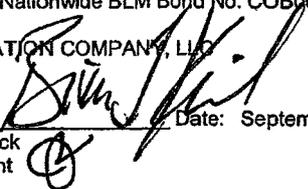
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Change of Operator</u>
	<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.)

EOG Resources, Inc. has assigned all of its right, title and interest in the wells described in the attached list (the "Subject Wells") to Koch Exploration Company, LLC and will relinquish and transfer operatorship of all of the Subject Wells to Koch Exploration Company, LLC on October 1, 2011.

As of October 1, 2011, Koch Exploration Company, LLC will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Koch Exploration Company, LLC's Nationwide BLM Bond No. COB000296.

KOCH EXPLORATION COMPANY, LLC    **N3755**

By:     Date: September 1, 2011  
Brian J. Kissick  
Vice President

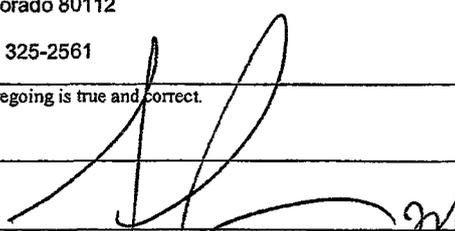
Address: 9777 Pyramid Court, Suite 210  
Englewood, Colorado 80112

Telephone Number: (303) 325-2561

**RECEIVED**

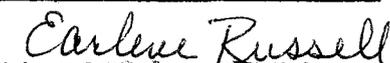
NOV 09 2011

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct.	
Name (Printed/Typed) J. Michael Schween	Title Agent and Attorney-in-Fact
Signature 	Date 09/01/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE APPROVED 12/19/2011**

Approved by

  
Earlene Russell  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make 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)



Change of Operator from EOG Resources, Inc (N9555)  
to Koch Exploration Company, LLC (N3755)  
NORTH ALGER UNIT

OSC II 1-27	27	100S	190E	4304731722	10687	Federal	GW	P	NORTH ALGER
OSC 2-27	27	100S	190E	4304731898	10687	Federal	GW	P	NORTH ALGER
OSCU II 108-27	27	100S	190E	4304733463	10687	Federal	GW	P	NORTH ALGER
OS CROSSING U II 109-27	27	100S	190E	4304736269	10687	Federal	GW	P	NORTH ALGER
OSCU II 123-27	27	100S	190E	4304736743	10687	Federal	GW	P	NORTH ALGER
OSCU II 122-27	27	100S	190E	4304737678	10687	Federal	GW	P	NORTH ALGER
OSCU II 124-27	27	100S	190E	4304737679	10687	Federal	GW	P	NORTH ALGER
OSCU II 116-27	27	100S	190E	4304737680	10687	Federal	GW	P	NORTH ALGER
OSCU II 126-34	34	100S	190E	4304738901	10687	Federal	GW	P	NORTH ALGER
OSCU II 125-34	34	100S	190E	4304738902	10687	Federal	GW	P	NORTH ALGER



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, UT 84145-0155  
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:  
3180 (UTU63094X)  
UT-922

OCT 24 2011

Morgan J. Connor  
Koch Exploration Company, LLC  
9777 Pyramid Court, Suite 210  
Englewood, CO 80112

Re: Successor Operator  
North Alger Unit  
Agreement No. UT080P49-86U697  
AFS No. 83686U697X  
Uintah County, Utah

Dear Mr. Connor:

On September 30, 2011, we received an indenture dated September 1, 2011, whereby EOG Resources, Inc. resigned as Unit Operator and Koch Exploration Company, LLC was designated as Successor Unit Operator for the North Alger Unit, Uintah County, Utah. The indenture was executed by both parties and the signatory parties (working interest owners) have complied with Sections 5 and 6 of the unit agreement.

The instrument is hereby approved effective October 24, 2011. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the North Alger Unit Agreement.

Your nationwide oil and gas bond, No. 82203357 (BLM Bond No. COB000296) will be used to cover unit operations.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate Federal offices, with one copy returned herewith.

Sincerely,

Roger L. Bankert  
Chief, Branch of Minerals

Enclosure

cc: UDOGM  
SITLA  
ONRR - Leona Reilly  
BLM FOM - Vernal

**RECEIVED**

NOV 07 2011

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