

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

July 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  
CHAPITA WELLS UNIT #546-2F  
SW/NW, SEC. 2, T9S, R22E  
UINTAH COUNTY, UTAH  
LEASE NO.: ML-3077  
STATE OF UTAH 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

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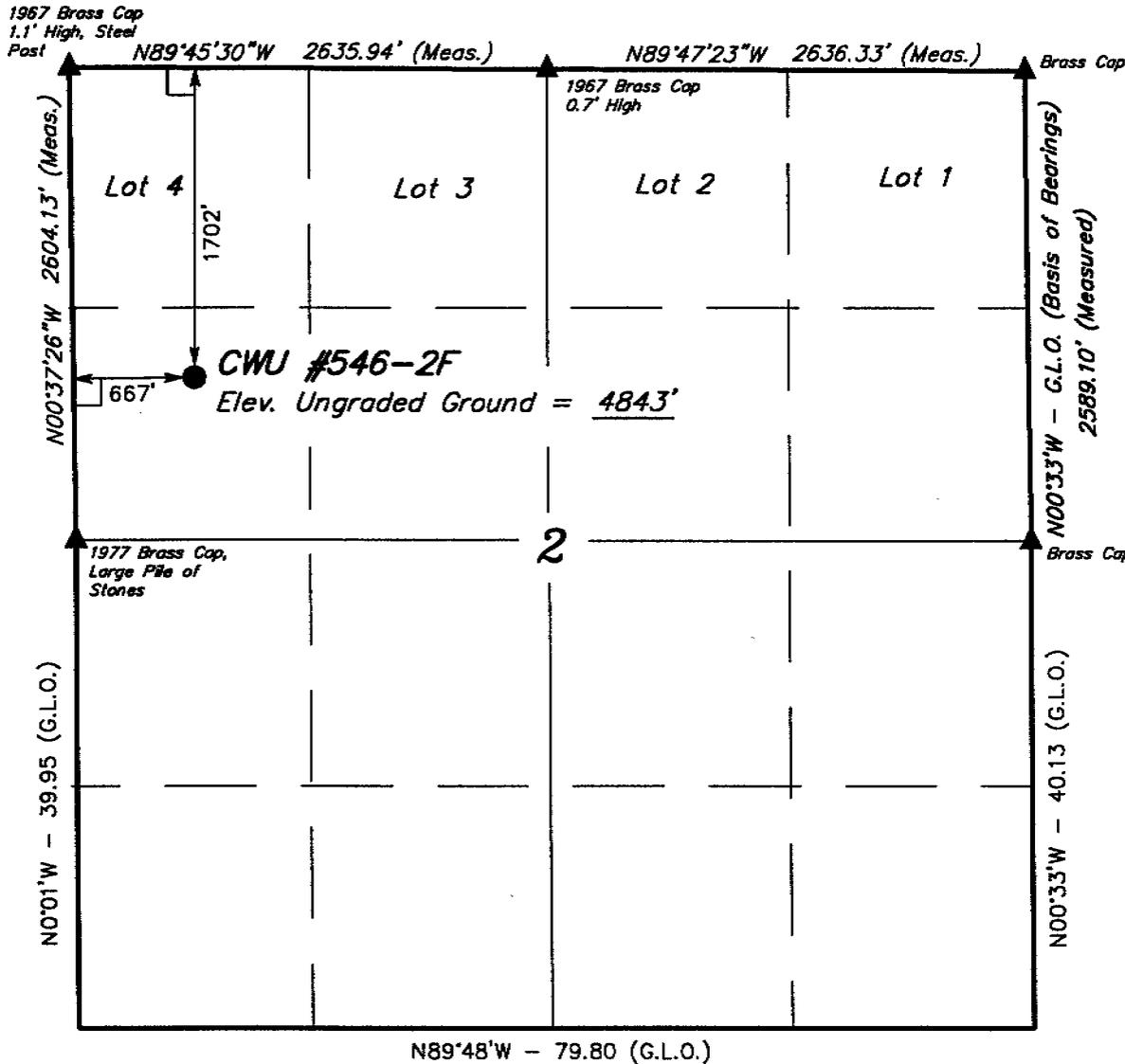
**ENRON OIL & GAS CO.**

**T9S, R22E, S.L.B.&M.**

Well location, CWU #546-2F, located as shown in the SW 1/4 NW 1/4 of Section 2, T9S, R22E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE NORTHEAST CORNER OF SECTION 2, T9S, R22E, S.L.B.&M. TAKEN FROM THE RED WASH SW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4829 FEET.



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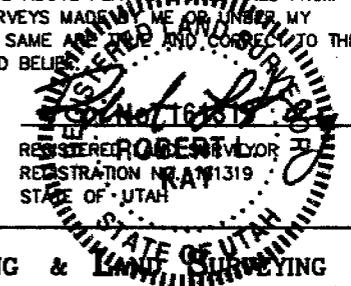
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SCALE

**CERTIFICATE**

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



<b>UINTAH ENGINEERING &amp; SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 8-11-99	DATE DRAWN: 8-30-99
PARTY D.A. W.W. C.B.T.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE ENRON OIL & GAS CO.	

**LEGEND:**

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED. (Brass Caps)

Latitude = 40°04'30"  
Longitude = 109°24'50"

**EIGHT POINT PLAN**

**CHAPITA WELLS UNIT #546-2F**

**SW/NW, SEC. 2, T9S, R22E**

**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	1904		
Oil Shale	1904		
Base "M" Marker	4682		
Wasatch	5105		
Peters Point	5105	GAS	
Chapita Wells	5715	GAS	
Buck Canyon	6345	GAS	

EST. TD 6465

Anticipated BHP 2900 PSI

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

**4. CASING PROGRAM:**

<b><u>HOLE SIZE</u></b>	<b><u>INTERVAL</u></b>	<b><u>LENGTH</u></b>	<b><u>SIZE</u></b>	<b><u>WEIGHT</u></b>	<b><u>GRADE</u></b>	<b><u>THREAD</u></b>	<b><u>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' - 6465'	6465'	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.

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**EIGHT POINT PLAN**

**CHAPITA WELLS UNIT #546-2F**

**SW/NW, SEC. 2, T9S, R22E**

**UINTAH COUNTY, UTAH**

**5. MUD PROGRAM**

<u>INTERVAL</u>	<u>MUD TYPE</u>	<u>MUD WT.</u>
0' - 220'	Air	NA
240' - 4000'	Air/Mist & Aerated Water	NA
4000' - TD	Air/3% KCL water or KCL substitute	8.4-8.8 PPG

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 4550'

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.

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**EIGHT POINT PLAN**

**CHAPITA WELLS UNIT #546-2F**

**SW/NW, SEC. 2, T9S, R22E**

**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)

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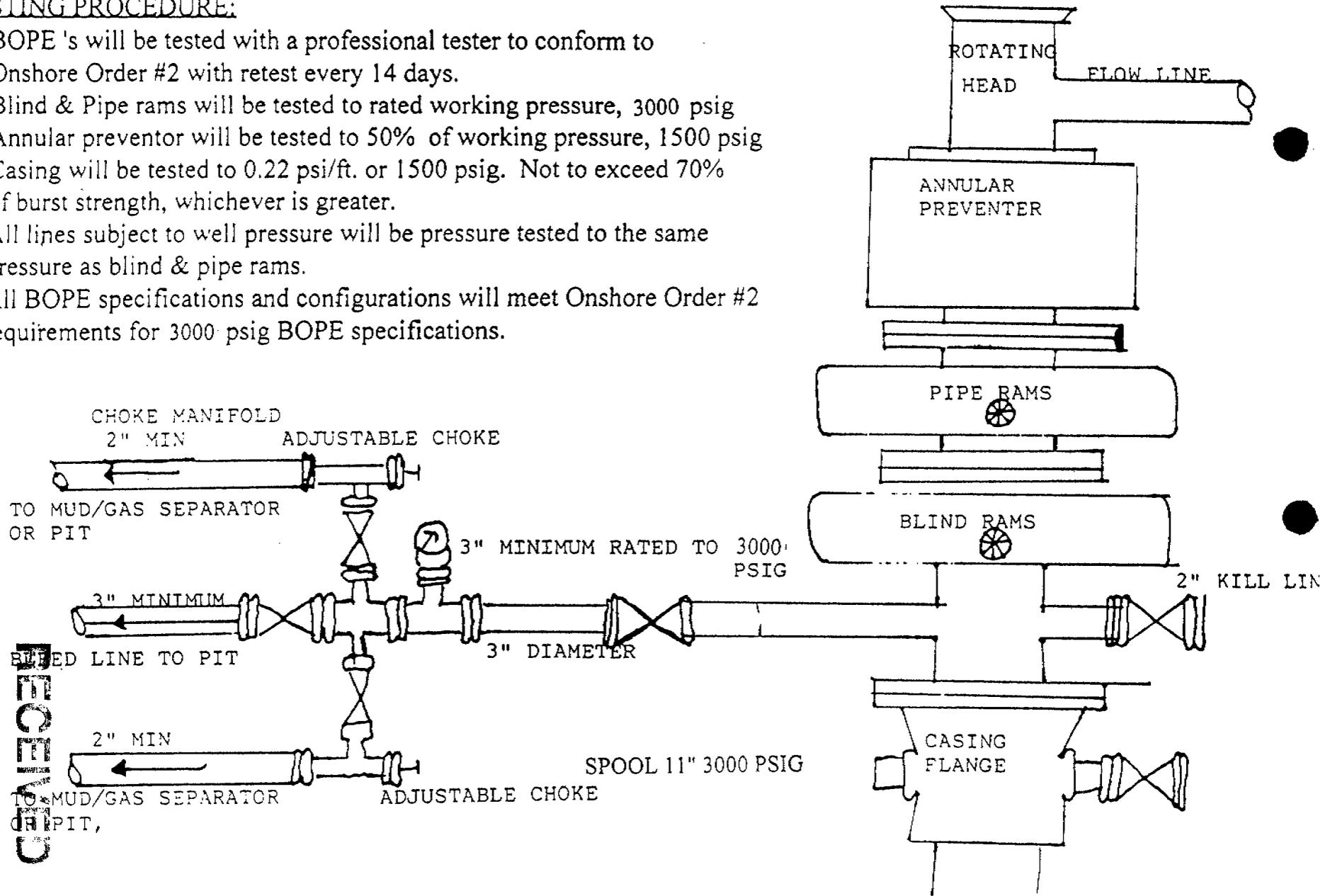
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# 3000 PSIG DIAGRAM

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.



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

Company/Operator: EOG Resources, Inc.  
Well Name & Number: Chapita Wells Unit #546-2F  
Lease Number: ML-3077  
Location: 1702' FNL & 667' FWL, SW/NW, Sec. 2, T9S, R22E, S.L.B.&M.,  
Uintah County, Utah

Surface Ownership: STATE OF UTAH

**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.

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## 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 16.9 miles southeast of Ouray, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

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

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

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

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

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent

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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 - 17\*
  - G. Shut in wells - None
  - H. Injection wells - None
- (\*See attached TOPO map "C" for location)

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

A. **ON WELL PAD**

- 1. Tank batteries - None
- 2. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, separator, dehy, 210 Bbl condensate tank, meter house and attaching piping. See attached facility diagram.
- 3. Oil gathering lines - None
- 4. Gas gathering lines - A 4 1/2" 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 4 1/2" OD steel above ground natural gas pipeline will be laid approximately 278' from proposed location to a point in the NW/4 of Section 2, T9S, R22E, where it will tie into Questar Pipeline Co.'s existing line. Proposed pipeline crosses State of Utah administered lands within the Chapita Wells Unit, thus a Right-of-Way grant will be not be required.

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3. Proposed pipeline will be a 4 1/2" 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 side of the location.

5. LOCATION & TYPE OF WATER SUPPLY

- A. Water supply will be from the Ouray Municipal Water Plant at Ouray, Utah, and/or Target Trucking Inc.'s water source in the SW/SW, Section 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. 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. 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

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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.

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

**The reserve pit shall not 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 North side 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 on the East end of the location.

Access to the well pad will be from the East.

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

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

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

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

NA Corner # \_\_\_\_\_ will be rounded off to minimize excavation.

**FENCING REQUIREMENTS:**

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

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- 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.

**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.

**11. SURFACE OWNERSHIP**

Access road: State of Utah

Location: State of Utah

**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;

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-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 BIA specifications approximately \_\_\_\_\_ feet \_\_\_\_\_ of the location, as flagged on the onsite.

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

**OPERATIONS**

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

**PERMITTING**

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

**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.

7-10-2000

Date

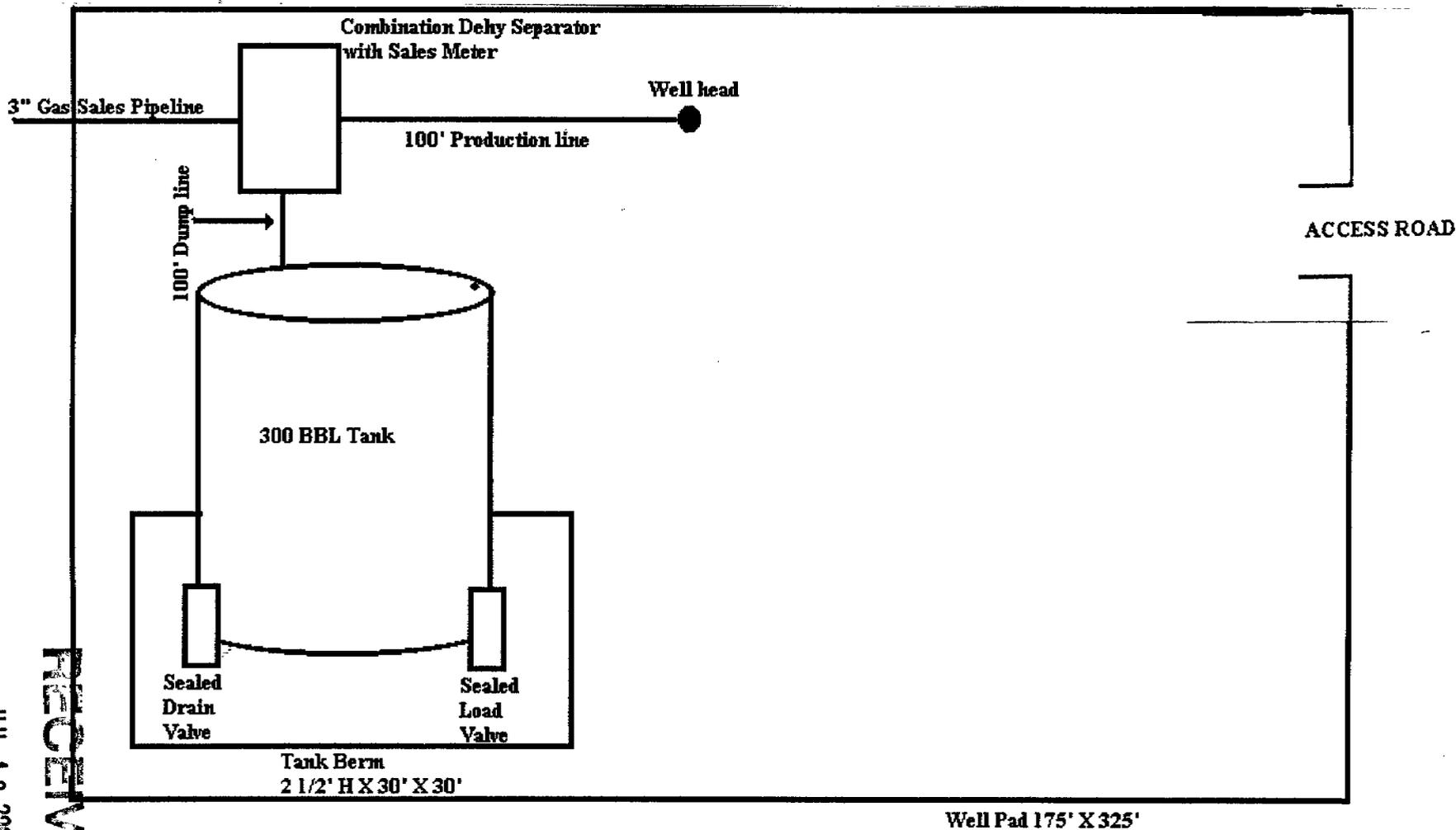
  
Agent

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**SITE FACILITY DIAGRAM**  
**CHAPITA WELLS UNIT #546-2F**  
**SECTION 2, T9S, R22E, SW/4 NW/4**  
**UINTAH COUNTY, UTAH**  
**LEASE NUMBER: ML-3077**  
(Site Security Plan is on file at EOG Resources, Inc.'s Vernal Office)



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ENRON OIL & GAS CO.

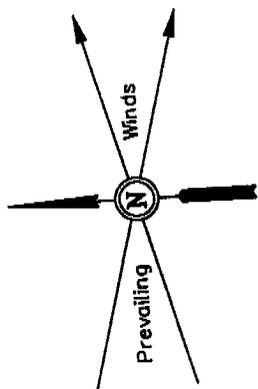
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LOCATION LAYOUT FOR

CWU #546-2F  
SECTION 2, T9S, R22E, S.L.B.&M.

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1702' FNL 667' FWL



F-1.6'  
El. 40.9'

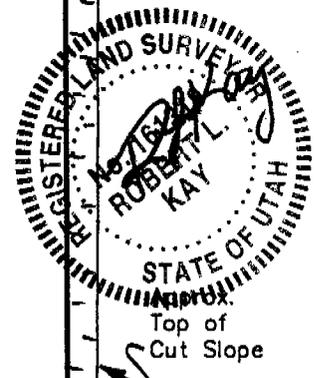
F-0.4'  
El. 42.1'

C-4.9'  
El. 47.4'

Topsail Stockpile

Sta. 3+25

SCALE: 1" = 50'  
DATE: 8-30-99  
Drawn By: C.B.T.



NOTE:

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

El. 37.2'  
C-2.7'  
(btm. pit)

Approx. Toe of Fill Slope

F-3.8'  
El. 38.7'

F-2.6'  
El. 39.9'

C-0.7'  
El. 43.2'

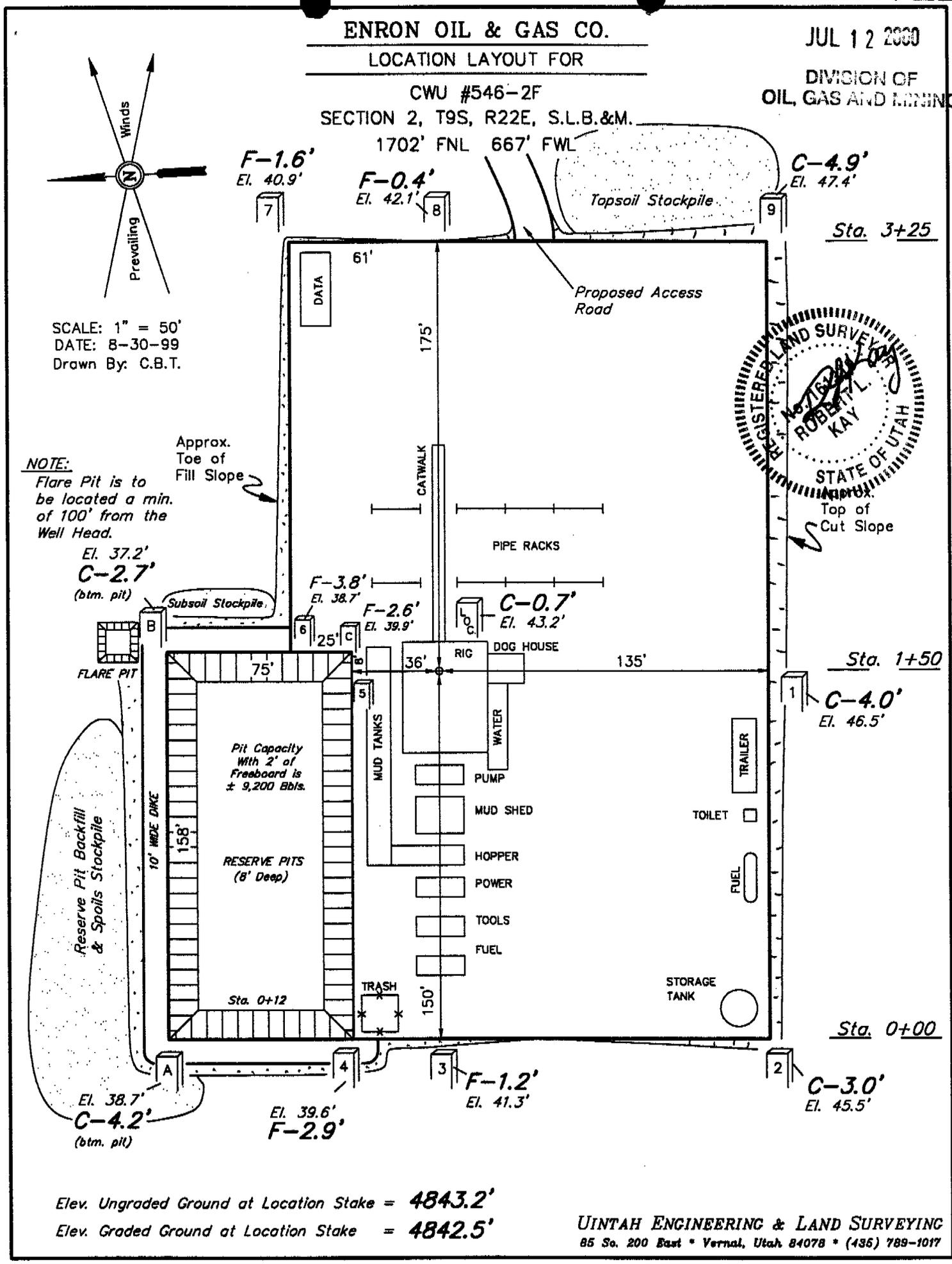
Sta. 1+50

C-4.0'  
El. 46.5'

Sta. 0+00

Elev. Ungraded Ground at Location Stake = 4843.2'  
Elev. Graded Ground at Location Stake = 4842.5'

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



# ENRON OIL & GAS CO.

## TYPICAL CROSS SECTIONS FOR

CWU #546-2F

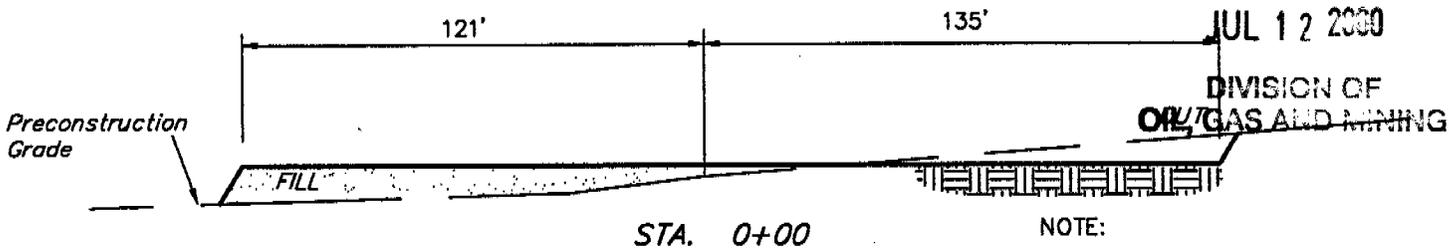
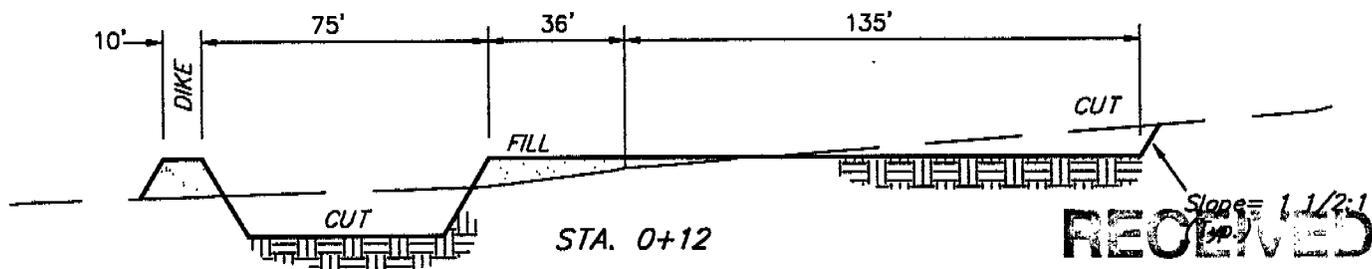
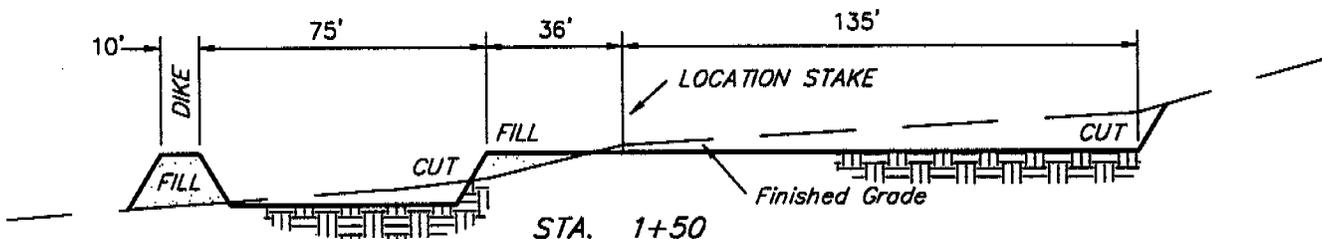
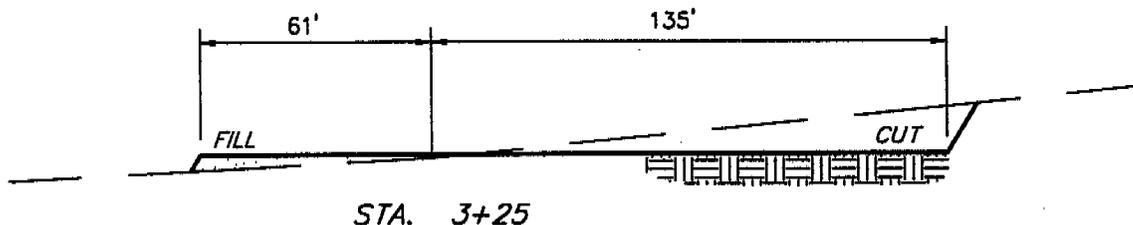
SECTION 2, T9S, R22E, S.L.B.&M.

1702' FNL 667' FWL



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

DATE: 8-30-99  
Drawn By: C.B.T.



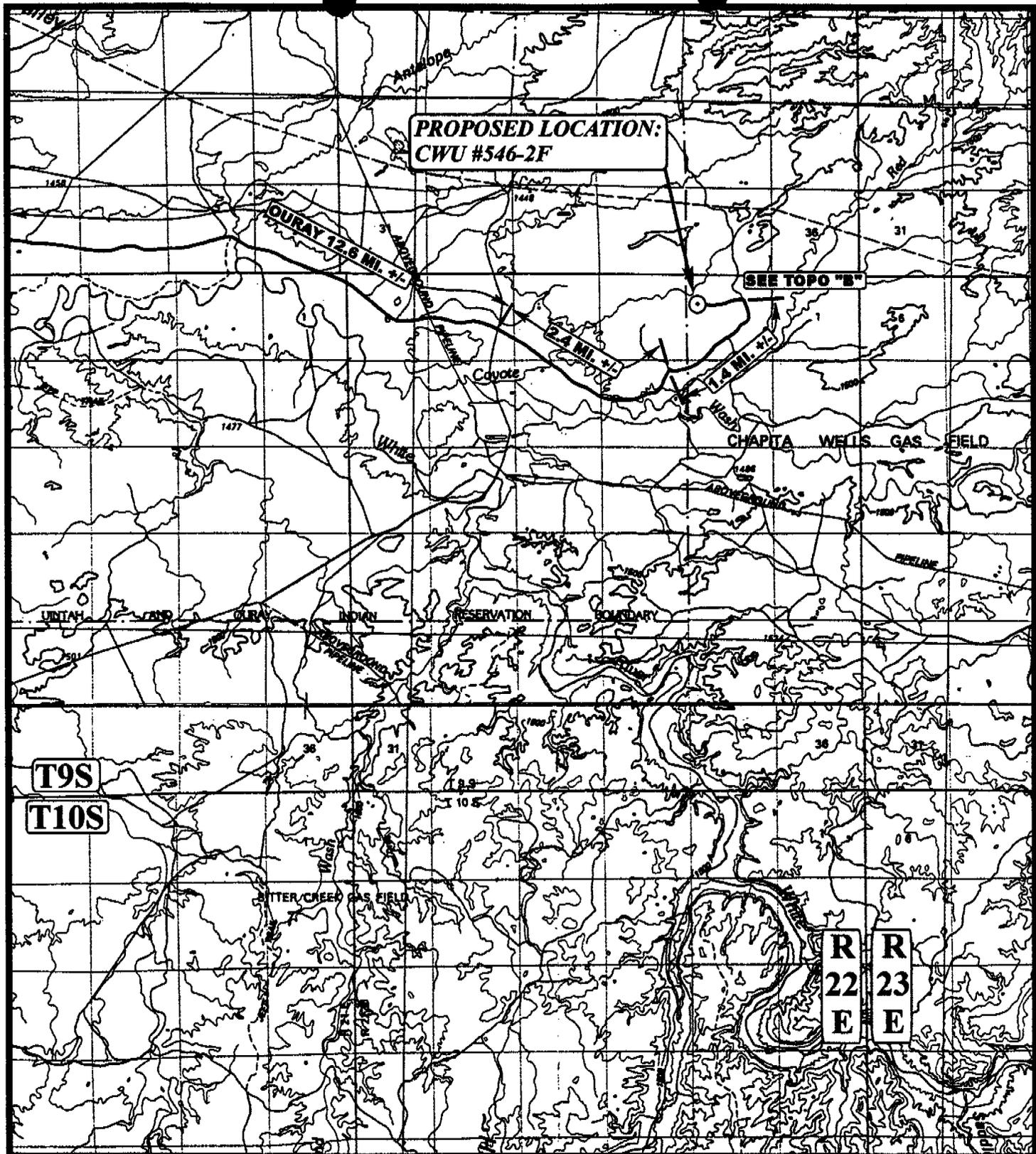
NOTE:  
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,330 Cu. Yds.  
Remaining Location = 3,700 Cu. Yds.  
**TOTAL CUT = 5,030 CU.YDS.**  
**FILL = 2,210 CU.YDS.**

EXCESS MATERIAL AFTER 5% COMPACTION = 2,700 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,700 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
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**PROPOSED LOCATION:  
CWU #546-2F**

**SEE TOPO "B"**

**T9S**

**T10S**

**R 22 E  
R 23 E**

**LEGEND:**

⊙ PROPOSED LOCATION

N

**ENRON OIL & GAS CO.**

**CWU #546-2F  
SECTION 2, T9S, R22E, S.L.B.&M.  
1702' FNL 667' FWL**

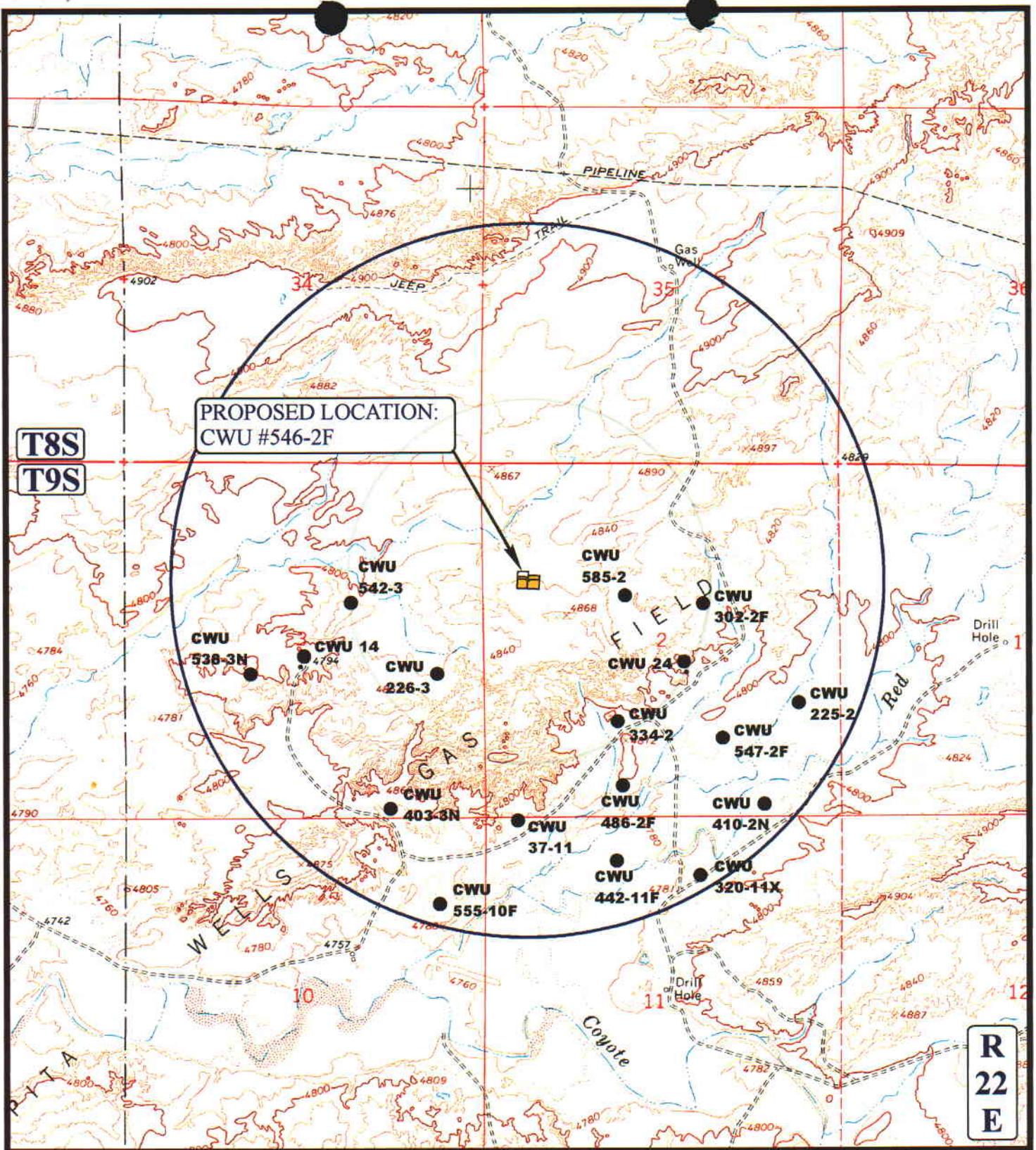


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **8 1998**  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.G. REVISED: 00-00-00







PROPOSED LOCATION:  
CWU #546-2F

T8S  
T9S

R  
22  
E

**LEGEND:**

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

**ENRON OIL & GAS CO.**

**CWU #546-2F**  
SECTION 2, T9S, R22E, S.L.B.&M.  
1702' FNL 667' FWL



**Uintah Engineering & Land Surveying**  
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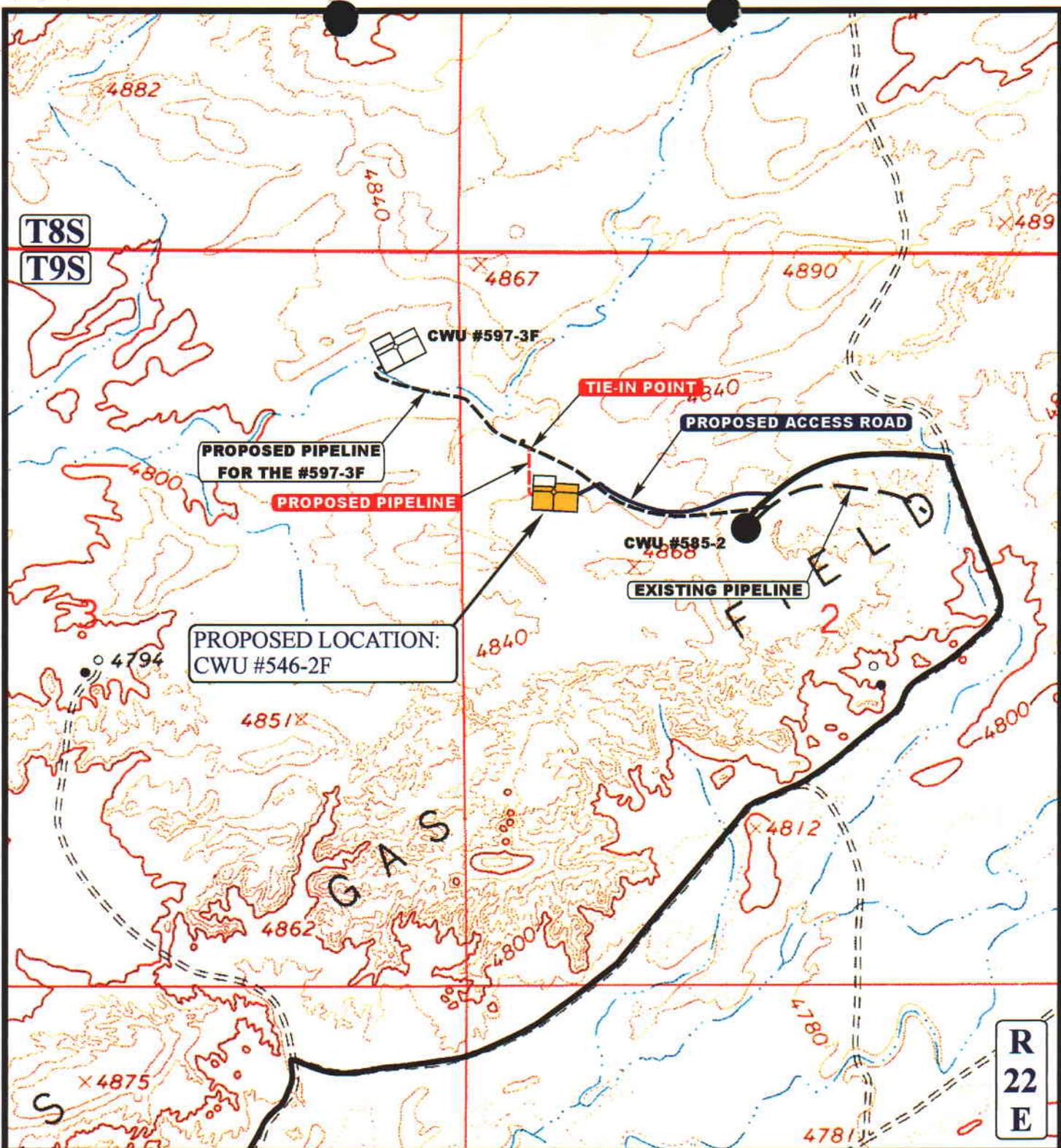


**TOPOGRAPHIC  
MAP**

**8 19 99**  
MONTH DAY YEAR

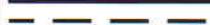
SCALE: 1" = 2000' DRAWN BY: C.G. REVISED: 00-00-00





**APPROXIMATE TOTAL PIPELINE DISTANCE = 278' +/-**

**LEGEND:**

-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED ACCESS



**ENRON OIL & GAS CO.**

**CWU #546-2F  
SECTION 2, T9S, R22E, S.L.B.&M.  
1702' FNL 667' FWL**

**TOPOGRAPHIC** **8** **1999**  
**MAP** MONTH DAY YEAR  
SCALE: 1" = 1000' DRAWN BY: C.G. REVISED: 00-00-00

**D**  
TOPO

**UEIS**

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

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

APD RECEIVED: 07/12/2000

API NO. ASSIGNED: 43-047-33634
--------------------------------

WELL NAME: CWU 546-2F  
 OPERATOR: EOG RESOURCES INC ( N9550 )  
 CONTACT: ED TROTTER, AGENT

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:

SWNW 02 090S 220E  
 SURFACE: 1702 FNL 0667 FWL  
 BOTTOM: 1702 FNL 0667 FWL  
 UINTAH  
 NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	<i>RJK</i>	8-9-00
Geology		
Surface		

LEASE TYPE: 3-State  
 LEASE NUMBER: ML-3077  
 SURFACE OWNER: 3-State

PROPOSED FORMATION: WSTC

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[3] Fee[]  
(No. JP-0921 )
- 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 Chapita Wells
- R649-3-2. General  
Siting: \_\_\_\_\_
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: 179-8  
Eff Date: 8-10-99  
Siting: 460' fr Unit Boundary
- R649-3-11. Directional Drill

COMMENTS: Need for site 7/25/00

STIPULATIONS: ① STATEMENT OF BASIS  
② OIL SHALE  
③ Blooie line variances may not be granted by OOGM. Contact UOSH at 530-6901 regarding this matter.



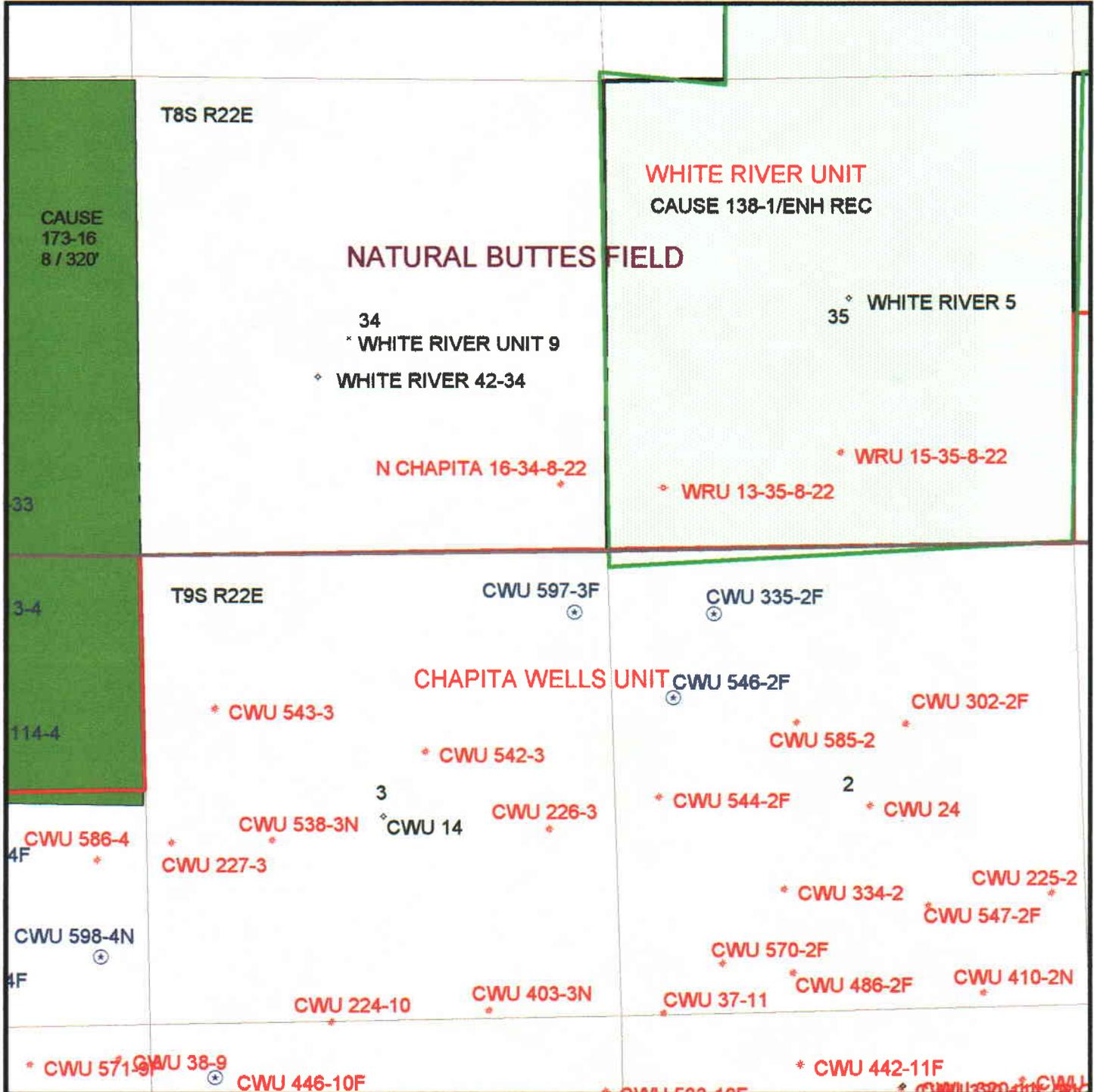
Utah Oil Gas and Mining

OPERATOR: EOG RESOURCES (N9550)

FIELD: NATURAL BUTTES (630)

SEC. 2 & 3, T9S, R22E,

COUNTY: UINTAH UNIT: CHAPITA WELLS  
CAUSE: 179-8



DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS

Operator Name: ENRON OIL & GAS CO.

Well Name & Number: CWU 546-2F

API Number: 43-047-33634

Location: 1/4,1/4 SW/NW Sec. 2 T. 9S R. 22E

**Geology/Ground Water:**

**Enron has proposed setting 200-220 feet of surface casing at this location. The depth to the base of the moderately saline ground water is estimated to be at 1300 feet. A search of Division of Water Rights records indicates no water wells are located within a 10,000 foot radius of the center of Section 2. The surface formation at this location is the Uinta Formation. The Uinta Formation is made up of interbedded sandstones and shales. The sandstones are not generally continuous over a large area and should not constitute a significant aquifer. The proposed surface casing should adequately protect any useable ground water.**

Reviewer: Brad Hill

Date: 8/1/2000

**Surface:**

**The pre-drill investigation of the surface was performed on 7/25/2000. Site is on state land. SITLA was notified of this investigation on 7/17/2000. They did not have a representative present. Site is a legal location per general state siting rule. This site appears to be the best spot for a location in the immediate area. Ground has very little natural cover.**

Reviewer: David W. Hackford

Date: 7/27/00

**Conditions of Approval/Application for Permit to Drill:**

None

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

OPERATOR: ENRON OIL & GAS CO.  
WELL NAME & NUMBER: CWU 546-2F  
API NUMBER: 43-047-33634  
LEASE: STATE \_\_\_\_\_ FIELD/UNIT: CHAPITA WELLS UNIT  
LOCATION: 1/4, 1/4 SW/NW SEC: 2 TWP: 9S RNG: 22E  
667' F W L 1702' F N L  
LEGAL WELL SITING: Board Spaced area requiring  
460 Setback from unit boundary.  
GPS COORD (UTM): 12635221E 4436460N  
SURFACE OWNER: STATE OF UTAH

PARTICIPANTS: ED TROTTER (ENRON), DAVID HACKFORD (DOGM).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY:**

SITE IS IN AN AREA OF ROLLING HILLS WITH SHALLOW DRAWS DRAINING TO THE NORTHWEST. COYOTE WASH IS 0.5 MILES TO THE SOUTH.

**SURFACE USE PLAN:**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING. HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WOULD BE 325' BY 246' AND ACCESS ROAD WOULD BE 250 FEET.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: SEE ATTACHED MAP FROM GIS DATABASE

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: ALL PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. GAS PIPELINE WILL RUN DUE NORTH FOR 200' AND TIE INTO LINE RUNNING TO THE CWU 597-3F.

SOURCE OF CONSTRUCTION MATERIAL: ALL CONSTRUCTION MATERIAL WILL BE BORROWED FROM SITE DURING CONSTRUCTION OF LOCATION.

ANCILLARY FACILITIES: NONE WILL BE REQUIRED.

**WASTE MANAGEMENT PLAN:**

DRILLED CUTTINGS WILL BE SETTLED INTO RESERVE PIT. LIQUIDS FROM PIT WILL BE ALLOWED TO EVAPORATE. FORMATION WATER WILL BE CONFINED TO STORAGE TANKS. SEWAGE FACILITIES, STORAGE AND DISPOSAL WILL BE HANDLED BY COMMERCIAL CONTRACTOR. TRASH

WILL BE CONTAINED IN TRASH BASKETS AND HAULED TO AN APPROVED  
LAND FILL.

**ENVIRONMENTAL PARAMETERS:**

AFFECTED FLOODPLAINS AND/OR WETLANDS: NONE

FLORA/FAUNA: NATIVE GRASSES, GREASEWOOD, PRICKLY PEAR, CHEAT  
GRASS, SHADSCALE; RODENTS, COYOTES, SONGBIRDS, RAPTORS,  
PRONGHORN.

SOIL TYPE AND CHARACTERISTICS: LIGHT BROWN SANDY CLAY.

EROSION/SEDIMENTATION/STABILITY: VERY LITTLE NATURAL  
EROSION. SEDIMENTATION AND STABILITY ARE NOT A PROBLEM AND  
LOCATION CONSTRUCTION SHOULDN'T CAUSE ANY INCREASE IN  
STABILITY OR EROSION PROBLEMS.

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

**RESERVE PIT:**

CHARACTERISTICS: 158' BY 75' AND 8' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached):   
A LINER WILL BE NOT REQUIRED FOR RESERVE PIT.

**SURFACE RESTORATION/RECLAMATION PLAN:**

AS PER S.I.T.L.A.

**SURFACE AGREEMENT: AS PER S.I.T.L.A.**

**CULTURAL RESOURCES/ARCHAEOLOGY: SITE HAS BEEN INSPECTED BY JIM  
TRUESDALE, AN INDEPENDENT ARCHAEOLOGIST. A COPY OF HIS  
REPORT WILL BE PLACED ON FILE.**

**OTHER OBSERVATIONS/COMMENTS:**

THE PRE-DRILL INVESTIGATION TOOK PLACE ON A HOT SUMMER DAY.

**ATTACHMENTS:**

PHOTOS OF SITE WILL BE PLACED ON FILE.

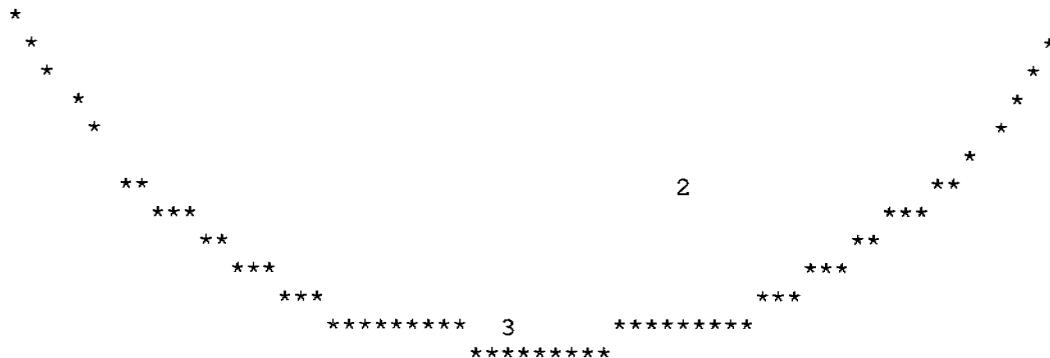
DAVID W. HACKFORD  
DOGM REPRESENTATIVE

7/25/00 10:30 AM  
DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and On-site Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
<b>Distance to Groundwater (feet)</b>		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>0</u>
<b>Distance to Surf. Water (feet)</b>		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
<b>Distance to Nearest Municipal Well (feet)</b>		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	15	<u>0</u>
<b>Distance to Other Wells (feet)</b>		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
<b>Native Soil Type</b>		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
<b>Fluid Type</b>		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	15	
TDS >10000 or Oil Base	20	
Mud Fluid containing high levels of hazardous constituents		<u>5</u>
<b>Drill Cuttings</b>		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
<b>Annual Precipitation (inches)</b>		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
<b>Affected Populations</b>		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
<b>Presence of Nearby Utility Conduits</b>		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>
<b>Final Score</b>		<u>15</u>





UTAH DIVISION OF WATER RIGHTS  
 NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO	POINT OF DIVERSION DESCRIPTION
				DIAMETER DEPTH YEAR LOG	NORTH EAST CNR SEC TWN RNG B&M
0	49 1430	.0000	.25	Section 34 Reservoir	S 391 W 598 N4 34 8S 22E SL
				USA Bureau of Land Management	PRIORITY DATE: 06/29/19 Vernal
1	43 680	.0000	.00	Tributary to Lake Canyon Strea	N 300 W 2100 E4 35 8S 22E SL
				First National Land Reserve Corporation	PRIORITY DATE: 10/18/18 West Valley City
2	49 647	.0000	.30	Southwest Cayote Wash Reservoir	N 600 E 2350 W4 11 9S 22E SL
				USA Bureau of Land Management	PRIORITY DATE: 00/00/18 Salt Lake City
3	49 648	.0000	.25	Southwest Cayote Wash Reservoir	N 1200 W 600 SE 10 9S 22E SL
				USA Bureau of Land Management	PRIORITY DATE: 00/00/18 Salt Lake City











Well name:	<b>8-00 EOG CWU 546-2F</b>		
Operator:	<b>EOG</b>	Project ID:	43-047-33634
String type:	Production		
Location:	Uintah Co.		

**Design parameters:**

**Collapse**

Mud weight: 8.600 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 166 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 220 ft

Cement top: 272 ft

**Burst**

Max anticipated surface pressure: 0 psi  
 Internal gradient: 0.447 psi/ft  
 Calculated BHP 2,888 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.  
 Neutral point: 5,637 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6465	4.5	10.50	J-55	ST&C	6465	6465	3.927	135.1
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	2888	4010	1.39	2888	4790	1.66	59	132	2.23 J

Prepared by: RJK  
 Utah Dept. of Natural Resources

Date: August 9, 2000  
 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 6465 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:  
 Operator: **EOG**  
 String type: **Surface**  
 Location: **Uintah Co.**

**8-00 EOG CWU 546-2F**

Project ID:  
 43-047-33634

**Design parameters:**

**Collapse**

Mud weight: 8.400 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 0 psi  
 Internal gradient: 0.442 psi/ft  
 Calculated BHP: 97 psi  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 193 ft

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 78 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 220 ft

Cement top: Surface

Non-directional string.

**Re subsequent strings:**

Next setting depth: 6,300 ft  
 Next mud weight: 8.500 ppg  
 Next setting BHP: 2,782 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 6,300 ft  
 Injection pressure: 6,300 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	220	9.625	32.30	H-40	ST&C	220	220	8.876	13.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	96	1370	14.27	97	2270	23.37	6	254	40.77 J

Prepared by: RJK  
 Utah Dept. of Natural Resources

Date: August 9, 2000  
 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 220 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

# 8-00 EOG CWU 546-2F

## Casing Schematic

Surface

9-5/8"  
MW 8.4  
Frac 19.3

TOC @  
272.  
Surface  
220. MD

TOC @  
0  
Surface 25%

*Cement Tops at  
1/2 hole washout*

*30%*

4-1/2"  
MW 8.6

Production  
6465. MD



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

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

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

August 10, 2000

EOG Resources Inc  
PO Box 1815  
Vernal, UT 84078

Re: Chapita Wells Unit 546-2F Well, 1702' FNL, 667' FWL, SW NW, Sec. 2, T. 9 South,  
R. 22 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 43-047-33634.

Sincerely,

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

John R. Baza  
Associate Director

cc:

Enclosures

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

**Operator:** EOG Resources Inc  
**Well Name & Number** Chapita Wells Unit 546-2F  
**API Number:** 43-047-33634  
**Lease:** ML-3077

**Location:** SW NW Sec. 2 T. 9 South R. 22 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**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Robert Krueger at (801) 538-5274 (plugging)
- Carol Daniels at (801) 538-5284 (spud)

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. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. Blooie line variances may not be granted by DOGM. Contact Utah Occupational Safety and Health Division at 530-6901 regarding this matter.

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

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. Lease designation and serial number <b>ML-3077</b>
b. TYPE OF WELL Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone <input type="checkbox"/>		6. If Indian, Allottee or Tribe name <b>N/A</b>
2. Name of Operator <b>EOG RESOURCES, INC.</b>		7. Unit Agreement Name <b>CHAPITA WELLS UNIT</b>
3. Address and Telephone Number <b>P.O. BOX 1815, VERNAL, UT 84078 (435) 789-0790</b>		8. Farm or lease name, well no. <b>CHAPITA WELLS UNIT</b>
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface <b>1702' FNL &amp; 667' FWL SW/NW JUL 12 2000</b>		9. API Well no. <b>CWU 546-2F</b>
14. Distance in miles and direction from nearest town or post office <b>16.9 MILES SOUTHEAST OF OURAY, UTAH</b>		10. Field and pool, or wildcat <b>CWU/WASATCH</b>
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. Unit line, if any) <b>667'</b>	16. No. of acres in lease <b>640</b>	11. Sec., T., R., M., or BLK. and survey or area <b>SEC. 2, T9S, R22E</b>
18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.	19. Proposed depth <b>6465'</b>	12. County or parish <b>UINTAH</b>
21. Elevations (show whether DF, RT, GR, etc.) <b>4843 FEET GRADED GROUND</b>		13. State <b>UTAH</b>
		17. No. of acres assigned to this well <b>40</b>
		20. Rotary or cable tools <b>ROTARY</b>
		22. Approx. date work will start <b>AUGUST 2000</b>

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#	6465'	50/50 POXMIX; 1.3 Cu Ft/SX.

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

**CONFIDENTIAL**

EOG RESOURCES, INC. WILL BE THE DESIGNATED OPERATOR OF THE SUBJECT WELL BOND # JP 0921

AUG 22 2000

Pc: UTAH DIVISION OF OIL, GAS AND MINING

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 7-10-2000

(This space for Federal or State office use)

PERMIT NO. 43-047-33634 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:

**ACCEPTED BY BLM FOR  
UNIT PURPOSES ONLY**

APPROVED BY \_\_\_\_\_ DATE AUG 17 2000

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EOG RESOURCES COMPANY

Well Name: CWU 546-2F

Api No. 43-047-33634 LEASE TYPE: STATE

Section 02 Township 09S Range 22E County UINTAH

Drilling Contractor DAL COOK RIG # AIR

SPUDDED:

Date 09/06/2000

Time 9:00 AM

How DRY

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

Reported by ED TROTTER

Telephone # 1-435-789-4120

Date 09/08/2000 Signed: CHD

# RGC

CONFIDENTIAL

## RIVER GAS CORPORATION

UTAH OPERATIONS  
6825 South 5300 West  
P.O. Box 851  
Price, Utah 84501  
Bus. (435) 613-9777  
FAX (435) 613-9782

August 31, 2000

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

RE: Request for Approved APD's Expiration Date Extensions

Dear Mr. Baza:

River Gas Corporation (RGC) request an expiration date extension for the approved APD's listed on the attached sheet. A one year extension would allow RGC to drill and complete these wells that have not been drilled to date, due to surface use restrictions.

Thank you for your timely consideration of this request. Please feel free to contact me if you should have any questions regarding this matter.

Sincerely,



Jean Semborski  
Permit Specialist

cc: Cal Hurtt, RGC  
Greg Mueller, RGC-Corp.  
RGC Well Files

COPY SENT TO OPERATOR  
Date: 9-2-00  
Initials: CHD

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: 9/7/00  
By: [Signature]

RECEIVED

SEP 07 2000

DIVISION OF  
OIL, GAS AND MINING

8/31/00

**APD Expiration Date Extension List**

<u>API Number</u>	<u>Well Name</u>	<u>Present Expiration Date</u>
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**Carbon County**

43-007-30618	USA 18-181	10/04/2000
43-007-30611	USA 23-423	09/29/2000
43-007-30621	USA 34-434	10/04/2000
43-007-30630	USA 07-436	11/01/2000
43-007-30477	USA 22-186	09/10/2000
43-007-30609	USA 02-403	10/07/2000
43-007-30608	USA 02-404	10/07/2000
43-007-30607	USA 02-405	10/07/1999
43-007-30606	USA 02-406	10/07/2000
43-007-30627	USA 03-407	10/25/2000
43-007-30628	USA 03-414	10/25/2000
43-007-30617	USA 04-409	10/04/2000
43-007-30632	USA 05-410	12/15/2000
43-007-30633	USA 05-411	12/15/2000
43-007-30620	USA 26-424	10/04/2000
43-007-30515	USA 31-309	12/10/2000
43-007-30576	USA 12-322	08/05/2000

**Emery County**

43-015-30419	USA 10-363	10/04/2000
43-015-30425	USA 10-364	10/18/2000
43-015-30351	USA 11-313	12/24/2000
43-015-30281	USA 17-367	09/08/2000
43-015-30418	USA 01-425	09/29/2000

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 9/2/00

By: 

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

FORM APPROVED

**CONFIDENTIAL**

Bureau No. 1004-0134

Expires September 30, 1990

**SUNDRY NOTICE AND REPORTS ON WELLS**

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

Use "APPLICATION FOR PERMIT --" for such proposals

**SUBMIT IN TRIPLICATE**

**1. Type of Well**

Oil Well  Gas Well  Other

**2. Name of Operator**

**EOG Resources, Inc.**

**3. Address and Telephone No.**

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

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

**1702' FNL - 667' FWL (SW/NW)  
SECTION 2, T9S, R22E**

**5. Lease Designation and Serial No.**

**ML 3077**

**6. If Indian, Allottee or Tribe Name**

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

**CHAPITA WELLS UNIT**

**8. Well Name and No.**

**CHAPITA WELLS UNIT 546-2F**

**9. API Well No.**

**43-047-33634**

**10. Field and Pool or Exploratory Area**

**CHAPITA WELLS/WASATCH**

**11. County**

**UINTAH,**

**State**

**UTAH**

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

**TYPE OF SUBMISSION**

NOTICE OF INTENT  
 SUBSEQUENT REPORT  
 FINAL ABANDONMENT NOTICE

**TYPE OF ACTION**

<input type="checkbox"/> ABANDONMENT	<input type="checkbox"/> CHANGE OF PLANS
<input type="checkbox"/> RECOMPLETION	<input type="checkbox"/> NEW CONSTRUCTION
<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	<input type="checkbox"/> SPUD DATE

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

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

**EOG Resources, Inc. spud 12-1/4" surface hole at the subject location 9/06//2000. The contractor was Dall Cook's Air Drilling. Ed Forsman of the Vernal BLM District office and Carol Daniels of the Utah Division of Oil, Gas & Mining were notified of spud 9/06/2000.**

**RECEIVED**

**OCT 27 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 *Katy Carlson* TITLE Regulatory Analyst DATE 10/24/2000

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY:

ENTITY ACTION FORM - FORM 6

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	LOCATION				COUNTY	SPUD DATE	EFFECTIVE DATE
					QQ	SEC.	TP	RG			
B	99999	4905	43-047-33637	CHAPITA WELLS UNIT 597-3F	LOT 1	3	9S	22E	UINTAH	9/21/2000	9-21-00
11-13-00 This well was submitted 9/15/2000 <b>CONFIDENTIAL</b>											
B	99999	4905	43-047-33630	CHAPITA WELLS UNIT 446-10F	NWNW	10	9S	22E	UINTAH	9/26/2000	9-26-00
11-13-00 <b>CONFIDENTIAL</b>											
B	99999	4905	43-047-33686	CHAPITA WELLS UNIT 600-4N	NESW	4	9S	22E	UINTAH	9/29/2000	9-29-00
11-13-00 <b>CONFIDENTIAL</b>											
B	99999	4905	43-047-33634	CHAPITA WELLS UNIT 546-2F	SWNW	2	9S	22E	UINTAH	9/06/2000	9-6-00
11-13-00 <b>CONFIDENTIAL</b>											
B	99999	4905	43-047-33355	CHAPITA WELLS UNIT 594-10F	SESE	10	9S	22E	UINTAH	9/13/2000	9-13-00
11-13-00 <b>CONFIDENTIAL</b>											

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.

*Ruby Carls*  
 \_\_\_\_\_  
 Signature  
 Regulatory Analyst 11/13/2000  
 \_\_\_\_\_  
 Title Date  
 Phone No. (307) 276-3331  
 \_\_\_\_\_

**CONFIDENTIAL**  
Expires August 31, 1985

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

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

5. LEASE DESIGNATION AND SERIAL NO  
**ML 3077**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
**CHAPITA WELLS UNIT**

8. FARM OR LEASE NAME  
**CHAPITA WELLS UNIT**

9. WELL NO.  
**546-2F**

10. FIELD AND POOL, OR WILDCAT  
**CHAPITA WELLS/WASATCH**

11. SEC., T., R., M., OR BLOCK AND SURVEY  
**SECTION 2, T9S, R22E**

12. COUNTY OR PARISH  
**UINTAH,**

13. STATE  
**UTAH**

14. PERMIT NO.  
**43-047-33634**

DATE PERMIT ISSUED  
**8/10/2000**

15. DATE SPUDDED  
**9/06/2000**

16. DATE T.D. REACHED  
**10/27/2000**

17. DATE COMPL. (Ready to prod.)  
**11/12/2000**

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\*  
**4858' KB**

19. ELEV. CASINGHEAD  
**4843' PREP. GL.**

20. TOTAL DEPTH, MD & TVD  
**6465'**

21. PLUG BACK T.D., MD & TVD  
**6446'**

22. IF MULTIPLE COMPLETIONS, HOW MANY?  
**1**

23. ROTARY TOOLS  
**ROTARY**

CABLE TOOLS

24. PRODUCING INTERVAL(S) OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)\*  
**WASATCH 5698' - 6326'**

25. WAS DIRECTIONAL SURVEY MADE?  
**NO**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**Dipole Sonic Imager, Compensated Neutron, GR & Cement Bond Log, GR - 11-13-00**

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	240'	12-1/4"	100 sx Class "G" cement.	NONE
4-1/2"	10.5# J-55	6465'	7-7/8"	400 sx Hi-Lift & 500 sx 50/50 Pozmix.	NONE

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-3/8"	6342'	

31. PERFORATION RECORD (Interval, size and number)				32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
WELL	SIZE	INTERVAL	SPF	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
Wasatch	C-13 (Cl)	6316-26'	w/3 SPF	6316-6326'	15,074 gals gelled water & 62,000# 20/40 sand.
	C-11 (Ch)	6135-37' & 6142-50'	w/3 SPF	6135-6150'	17,146 gals gelled water & 82,205# 20/40 sand.
	P-8 (Ph)	5698-5701', 5707-12' & 5716-18'	w/3 SPF	5698-5718'	19,426 gals gelled water & 94,126# 20/40 sand.

33. \* **PRODUCTION**

DATE FIRST PRODUCTION  
**11/12/2000**

PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)  
**FLOWING**

WELL STATUS (Producing or shut-in)  
**PRODUCING**

DATE OF TEST  
**11/13/2000**

HOURS TESTED  
**24**

CHOKE SIZE  
**16/64"**

PROD'N FOR  
**5 BC**

OIL-BBL.  
**1838 MCFD**

GAS-MCF.  
**22 BW**

WATER-BBL.

GAS-OIL RATIO

FLOW-TUBING PRESS.  
**FTP 1160 psig**

CASING PRESSURE  
**CP 1300 psig**

CALCULATED  
**5 BC**

OIL-BBL.  
**1838 MCFD**

GAS-MCF.  
**22 BW**

WATER-BBL.

OIL GRAVITY-API (CORR.)

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 *Dale Carlson* TITLE Regulatory Analyst DATE 11/14/2000

\*(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

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) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

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

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

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

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

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

SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; core intervals; and all open-hole 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	2163'	
				Base "M" Marker	4683'	
				"N" Limestone	4930'	
				Wasatch		
				Peter's Point	5107'	
				P-4 (Pb)	5259'	
				P-8 (Ph)	5695'	
				Chapita Wells	5730'	
				C-11 (Ch)	6123'	
				C-13 (Cl)	6314'	
				Buck Canyon	6480'	

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

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

**SUNDRY NOTICE AND REPORTS ON WELLS**

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

<p>1. Type of Well</p> <p>Oil <input type="checkbox"/> WELL      Gas <input checked="" type="checkbox"/> Well      Other <input type="checkbox"/></p>	<p>5. Lease Designation and Serial No. <b>ML 3077</b></p> <p>6. If Indian, Allottee or Tribe Name</p> <p>7. If Unit or C.A., Agreement Designation <b>CHAPITA WELLS UNIT</b></p> <p>8. Well Name and No. <b>CHAPITA WELLS UNIT 546-2F</b></p>
<p>2. Name of Operator <b>EOG Resources, Inc.</b></p>	<p>9. API Well No. <b>43-047-33634</b></p>
<p>3. Address and Telephone No. <b>P.O. BOX 250, BIG PINEY, WY 83113      (307) 276-3331</b></p>	<p>10. Field and Pool or Exploratory Area <b>CHAPITA WELLS/WASATCH</b></p>
<p>4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>1702' FNL - 667' FWL (SW/NW) SECTION 2, T9S, R22E</b></p>	<p>11. County                      State <b>UINTAH                      UTAH</b></p>

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT	<input type="checkbox"/> ABANDONMENT
<input type="checkbox"/> SUBSEQUENT REPORT	<input type="checkbox"/> RECOMPLETION
<input type="checkbox"/> FINAL ABANDONMENT NOTICE	<input type="checkbox"/> PLUGGING BACK
	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> ALTERING CASING
	<input 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

(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. requests authorization for disposal of produced water from the referenced well to any of the following locations:

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

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

**RECEIVED**  
NOV 20 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 Katy Carlow TITLE Regulatory Analyst DATE 11/14/2000

(This space for Federal or State office use)

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

CONDITIONS OF APPROVAL, IF ANY: