002

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

May 28, 2003

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

RE: APPLICATION FOR PERMIT TO DRILL
CHAPITA WELLS UNIT 649-2
NW/NE, SEC. 2, T9S, R22E
UINTAH COUNTY, UTAH
LEASE NO.: ML-3077
UTAH STATE 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



CWU 649-2 B

001

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

FORM 3

AMENDED REPORT ☐
(highlight changes)

# APPLICATION FOR PERMIT TO DRILL

| | |
|---|---|
| 5. MINERAL LEASE NO: ML-3077 | 6. SURFACE: State |
| 1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐ | 7. IF INDIAN, ALLOTTEE OR TRIBE NAME: |
| B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☒ MULTIPLE ZONE ☐ | 8. UNIT or CA AGREEMENT NAME: CHAPITA WELLS UNIT |
| 2. NAME OF OPERATOR: EOG RESOURCES, INC. | 9. WELL NAME and NUMBER: CHAPITA WELLS 649-2 |
| 3. ADDRESS OF OPERATOR: P.O. BOX 1910 CITY VERNAL STATE UT ZIP 84078 — PHONE NUMBER: (435) 789-4120 | 10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES |
| 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 486' FNL, 2063' FEL 4436639 Y 40.07093 636042 X -109.40468 AT PROPOSED PRODUCING ZONE: | 11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 9S 22E S |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 35.12 MILES SOUTHEAST OF VERNAL, UTAH | 12. COUNTY: UINTAH — 13. STATE: UTAH |
| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): 486' | 16. NUMBER OF ACRES IN LEASE: 640 — 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: |
| 18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) | 19. PROPOSED DEPTH: 6,825 — 20. BOND DESCRIPTION: JP-0921 |
| 21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 4854.0' GRADED GROUND | 22. APPROXIMATE DATE WORK WILL START: 7/30/2003 — 23. ESTIMATED DURATION: AUGUST 30, 2003 |

24. **PROPOSED CASING AND CEMENTING PROGRAM**

| SIZE OF HOLE | CASING SIZE, GRADE, AND WEIGHT PER FOOT | | | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT |
|---|---|---|---|---|---|
| 12 1/4" | 8 5/8" | J-55 | 24.0# | 220 | SEE 8 POINT PLAN |
| 7 7/8" | 4 1/2" | J-55 | 10.5# | 6,825 | SEE 8 POINT PLAN |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

CONFIDENTIAL

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
☑ COMPLETE DRILLING PLAN
☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

RECEIVED
JUN 04 2003
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) Ed Trotter — TITLE Agent

SIGNATURE Ed Trotter — DATE 5/28/2003

(This space for State use only)

API NUMBER ASSIGNED: 43-047-35024

APPROVAL:

Approved by the
Utah Division of
Oil, Gas and Mining
Date: 10-21-03
By:

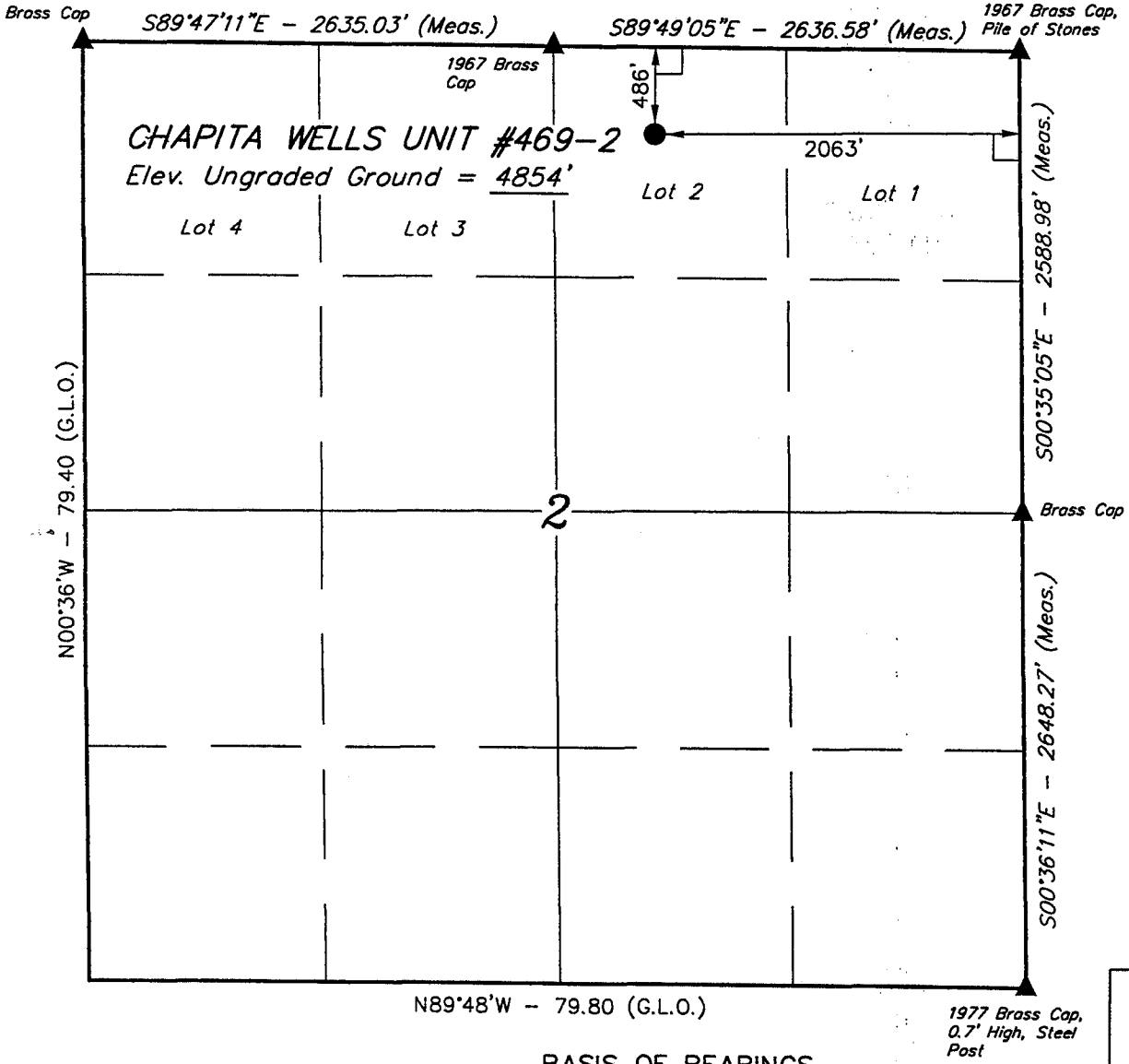
(11/2001)

(See Instructions on Reverse Side)

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

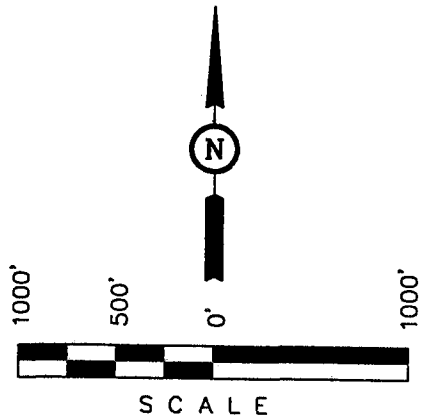
## EOG RESOURCES, INC.

Well location, CHAPITA WELLS UNIT #649-2, located as shown in the NW 1/4 NE 1/4 of Section 2, T9S, R22E, S.L.B.&M. Uintah County, Utah.




## BASIS OF ELEVATION

BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 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.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161318
STATE OF UTAH

## BASIS OF BEARINGS

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

(NAD 27)
LATITUDE = 40°04'15.07" (40.070853)
LONGITUDE = 109°24'16.55" (109.404597)

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.


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


| | | |
|---|---|---|
| SCALE: 1" = 1000' | DATE SURVEYED: 4-28-03 | DATE DRAWN: 4-30-03 |
| PARTY: S.H. J.R. C.G. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COOL | FILE: EOG RESOURCES, INC. | |

10/20/03 DKD

# EIGHT POINT PLAN

## CHAPITA WELLS UNIT 649-2
## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

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

| FORMATION | DEPTH (KB) |
|---|---|
| Green River (Top) | 2154 |
| Wasatch | 5132 |
| Chapita Wells | 5762 |
| Buck Canyon | 6437 |

EST. TD: 6825 Anticipated BHP 3000 PSI

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

### 4. CASING PROGRAM:

| | | | | | | | RATING FACTOR | | |
|---|---|---|---|---|---|---|---|---|---|
| HOLE SIZE | INTERVAL | LENGTH | SIZE | WEIGHT | GRADE | THREAD | COLLAPSE | BURST | TENSILE |
| 12 1/4" | 0' - 220'+/- KB | 220' +/- | 8 5/8" | 24.0 # | J-55 | ST&C | 1370 PSI | 2950 PSI | 244,000# |
| 7 7/8" | 220' – TD +/-KB | 6825' +/- | 4 1/2" | 10.5 # | J-55 | ST&C | 3310 PSI | 4790 PSI | 132,000# |

All casing will be new or inspected.

### 5. Float Equipment:

**Surface Hole Procedure (0-220' Below GL):**
Guide Shoe
Insert Baffle
Wooden wiper plug
Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).
Have bottom of first collar tack-welded, guide shoe and top of first collar thread-locked.

**Production Hole Procedure (220'-TD'):**
Texas-Pattern shoe, short casing shoe joint (±20'), Float Collar, and balance of casing to surface. Run short casing joint (less than 38') at ±4,100' (1000' above projected top of Wasatch). Centralize 5' above shoe on joint #1, top of joint #2, then every 4th joint to 4,700' (400' above Wasatch top - 15 total). Thread lock shoe, top and bottom of FC, and top of 2nd joint.

### 6. MUD PROGRAM

**Surface Hole Procedure (0-220' below GL):**
Air – Air Water Mist

**Production Hole Procedure (220'-TD):**
200'- 1700' Water (circulate through reserve pit). Anco-Drill sweeps for hole cleaning, Paper sweeps to seal off loss zones. Add LIME to reserve pit to keep clear.

**EIGHT POINT PLAN**

**CHAPITA WELLS UNIT 649-2**
**NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.**
**UINTAH COUNTY, UTAH**

**MUD PROGRAM (Continued):**
**Production Hole Procedure (220'-TD):**

1700-4900' Continue as above as far as possible. Should it become necessary to trip for a bit prior to reaching TD, either slug drillpipe and fill hole with brine or with 9.2 ppg mud (pre-mixed in rig mud tanks) to control gas. Once back on bottom after trip, turn flow back and recirculate through reserve pit to resume drilling ahead. Stay on as clear of fluid as long as possible. Try to control any fluid losses if drilling on clear fluid with paper LCM. Add LIME and Gyp if needed to control alkalinities.

4900'-TD Continue sweeping hole with Anco-Drill for hole cleaning. Again, should it become necessary to trip for a bit prior to reaching TD, either slug drillpipe and fill hole with brine or with 9.2 ppg mud (pre-mixed in rig mud tanks) to control gas. Once back on bottom after trip, turn flow back and recirculate through reserve pit to resume drilling ahead. Stay on as clear of fluid as long as possible. Increase Anco-Drill sweep frequency as you near TD in preparation to logging and running casing. Be alert at all times while drilling the Wasatch on water for any signs of hole sloughing (i.e. tight connections, fill, etc.). Should sloughing be detected, immediately mud up the hole. If mud-up becomes necessary to log, run casing, for hole sloughing or to control water and gas flows, mix Gel, Anco-Drill and Aqua-Pac if chloride content of mud will allow or SALT GEL and STARCH if chloride content is high. When mudding up, add 6% LCM (mixture of Cedar Fiber, Paper, Cottonseed Hulls and Sawdust) to control losses.

**7. VARIANCE REQUESTS:**

A. EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line (Where possible, a straight run blooie line will be used).

B. EOG Resources, Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line. (Not required on aerated water system).

B. EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be 75' in length.

**8. EVALUATION PROGRAM:**
Logs: No Open Hole logs

## EIGHT POINT PLAN

## CHAPITA WELLS UNIT 649-2
## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

### 9. CEMENT PROGRAM:

**Surface Hole Procedure (0-220' Below GL)**

**Lead:** 90 sx. (100% excess volume) Class 'G' cement with 2% S1 (CaCl2) & 0.25 pps D29 (cellophane flakes), mixed at 15.8 ppg, 1.15 cu. ft./sk., 4.95 gps water.

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

**Production Hole Procedure (220' to TD)**

**Lead:** 100 SX Class 'G' lead cement with 5% D44 (Salt), 12% D20 (Bentonite), 1% D79% (Extender), 0.25% D112 (Fluid Loss Additive), 0.2% D46 (Anti-Foamer) & 0.25 pps D29 (Cellophane flakes) mixed at 11.0 ppg, 3.91 ft3/sk., 9.2 gps water.

**Tail:** 1025 SX 50:50 Poz G w/ 2% D20 (Bentonite), 10% D44 (Salt), mixed at 14.1 ppg, 1.35 ft.3/sk., 5.0 gps water.

### 10. ABNORMAL CONDITIONS:

**PRODUCTION HOLE (200'-TD)**

**Potential Problems:** Lost circulation, asphaltic, black oil flows, large Trona water flows and gas flows may be encountered in the Green River, beginning at ±1700'. Monitor for and report any hydrocarbon shows and/or water zones. No other offset experienced these troubles. Be alert for any flows, volume gains and/or losses. While none of NBU 376-05E's immediate offsets encountered severe deviation problems, a few wells in the general region have experienced acute deviation (up to 18° inclination) beginning around 2000'.
This deviation problem has been determined to be associated with gilsonite-filled vertical faults, whose existence and extent are not able to be predicted beforehand. (Some area wells experienced an increase in hole angle to 3° from 2000-4700', then fell back to "normal" inclination). Other wells in the general area of the CWU 649-02 (all drilled with air/mist or aerated water) reported problems with sloughing formation in the Wasatch while attempting to mud up for logs or to run casing.

### 11. STANDARD REQUIRED EQUIPMENT:

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

## EIGHT POINT PLAN

## CHAPITA WELLS UNIT 649-2
## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

**12. HAZARDOUS CHEMICALS:**

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

(Attachment: BOP Schematic Diagram)

**From:** Ed Bonner
**To:** Mason, Diana
**Date:** 10/10/03 9:39AM
**Subject:** Well Clearances

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

EOG Resources
- Chapita Wells Unit 649-2
- Chapita Wells Unit 823-16
- Chapita Wells Unit 851-32
- Chapita Wells Unit 852-32
- Chapita Wells Unit 861-32
- Chapita Wells Unit 863-32
- North Chapita 197-32

Pannonian Energy
- Gate Canyon 41-20-11-15

Dominion Exploration
- HCU 5-32 F

If you have any questions regarding this matter please give me a call.

**CC:** Baza, John; Garrison, LaVonne; Hill, Brad; Hunt, Gil

# EIGHT POINT PLAN

## CHAPITA WELLS UNIT 649-2
## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

Amended 10/20/03 DKD

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## CHAPITA WELLS UNIT 649-2
## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

Amended 10/20/03 DKD

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## EIGHT POINT PLAN

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## NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.
## UINTAH COUNTY, UTAH

Amended 10/20/03 DKD

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**Tail:** 50:50 Poz G w/ 2% D20 (Bentonite), 10% D44 (Salt), mixed at 14.1 ppg, 1.35 cu. ft./sk., 5.0 gps water. 374 sks

### 10. ABNORMAL CONDITIONS:

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C. Stabbing Valve
D. Visual Mud Monitoring

**EIGHT POINT PLAN**

**CHAPITA WELLS UNIT 649-2**
**NW/NE, SEC. 2, T9S, R22E, S.L.B.&M.**
**UINTAH COUNTY, UTAH**

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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)

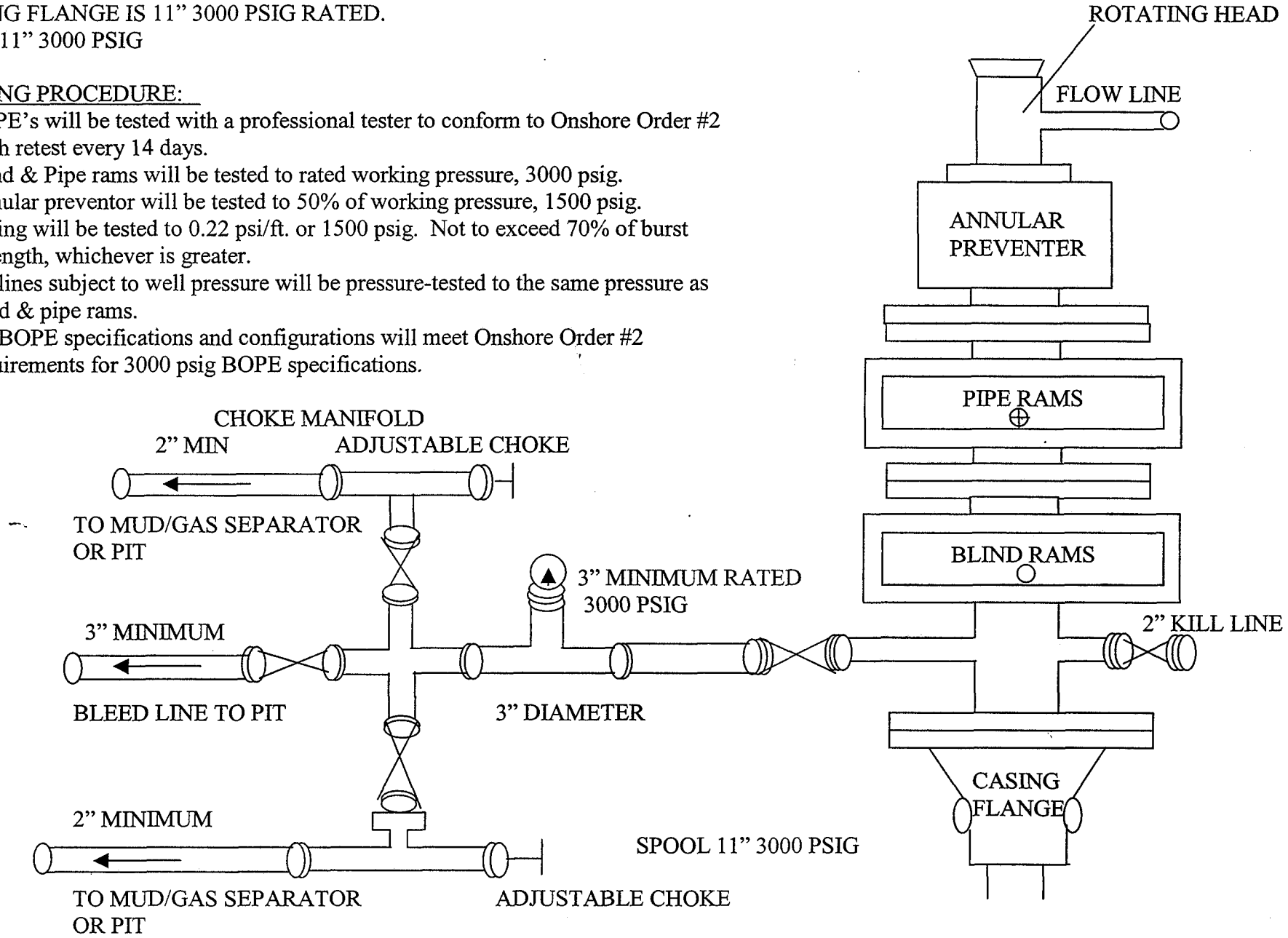
Amended 10/20/03 DRD

## 3000 PSIG DIAGRAM

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

TESTING PROCEDURE:

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



# EOG RESOURCES, INC.

## CHAPITA WELLS UNIT #649-2
## SECTION 2, T9S, R22E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 19.2 MILES ON STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 4.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY, THEN EASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN A EASTERLY DIRECTION APPROXIMATELY 100' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 35.1 MILES.

**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 649-2 |
| Lease Number: | ML-3077 |
| Location: | 486' FNL & 2063' FEL, NW/NE, 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.

## 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 35.12 miles southeast of Vernal, 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 100 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.
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. Diverting water off at frequent intervals by means of cutouts shall prevent erosion of drainage ditches by

run off water. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.
As operator, EOG Resources, Inc. shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

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

A. Abandoned wells – 3*
B. Producing wells - 18*
C. Shut in wells – 1*
(*See attached TOPO map "C" for location)

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

A. **ON WELL PAD**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of well head valves, separator, dehy, 210 Bbl condensate tank, meter house and attaching piping.
2. Gas gathering lines - A 3" gathering line will be buried from dehy to the edge of the location.

B. **OFF WELL PAD**

1. Proposed location of attendant off pad flowlines shall be flagged prior to archaeological clearance.
2. A 3" OD steel above ground natural gas pipeline will be laid approximately 1696' from proposed location to a point in the NE/NW 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.
3. Proposed pipeline will be a 3" OD steel, welded line laid on the surface.
4. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.

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

The production facilities will be placed on the East side of the location.

## 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 the Uintah County landfill.
   4. Produced wastewater will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. After the 90 day period, the produced water will be contained in a tank on location and then disposed of at one of the following three locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
   5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.

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

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

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

   The stockpiled topsoil will be stored on the between Corner #6 and the access road.

   Access to the well pad will be from the West.

   Corners #2 & #8 will be rounded off to minimize excavation.

**FENCING REQUIREMENTS:**

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

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

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

-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.

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

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

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

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

**Certification**

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

5-28-2003
Date

Agent

# EOG RESOURCES, INC.

## CHAPITA WELLS UNIT #649-2

**LOCATED IN UINTAH COUNTY, UTAH**
**SECTION 2, T9S, R22E, S.L.B.&M.**

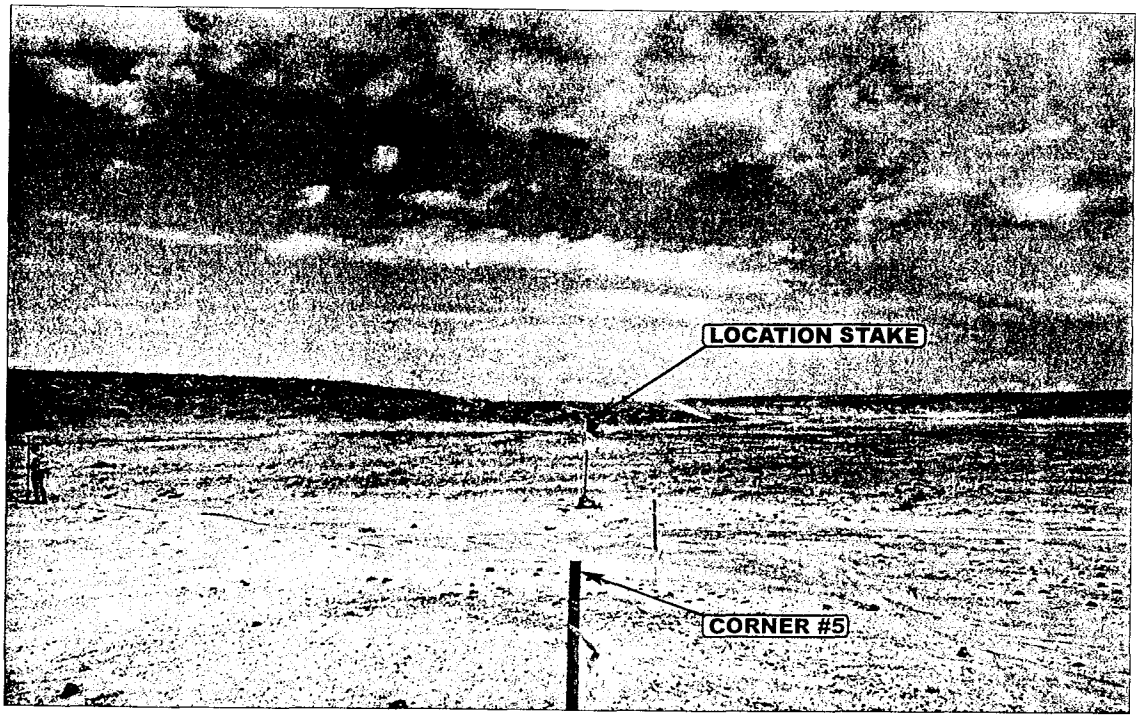



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY

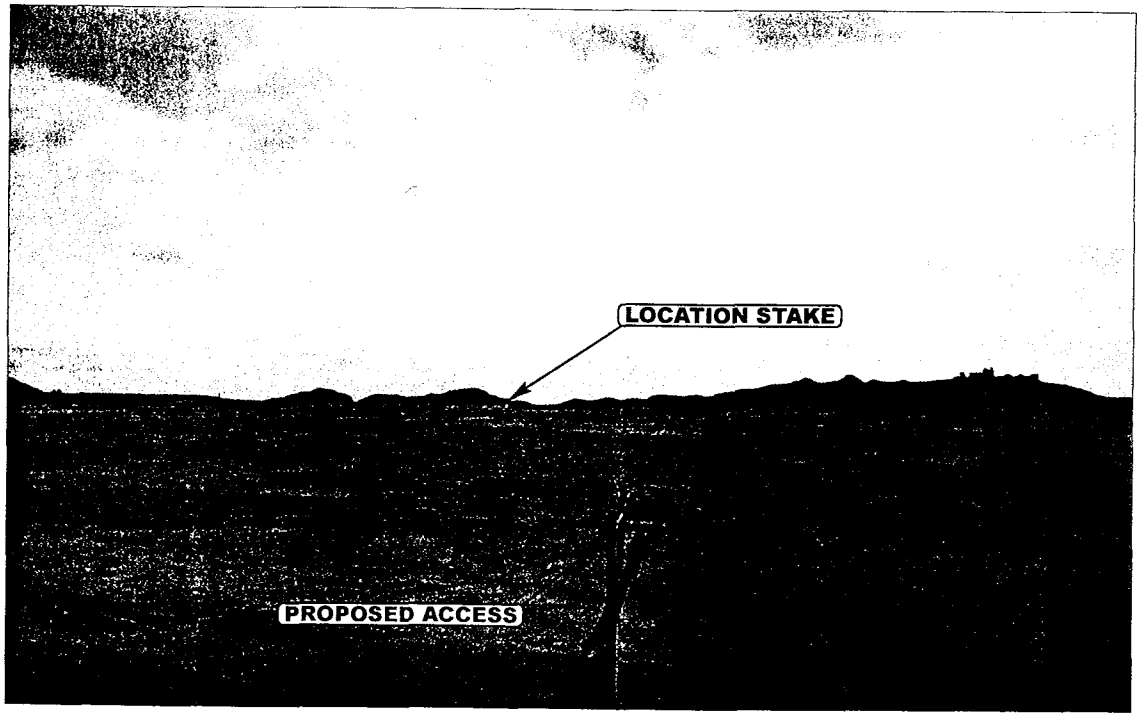



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY

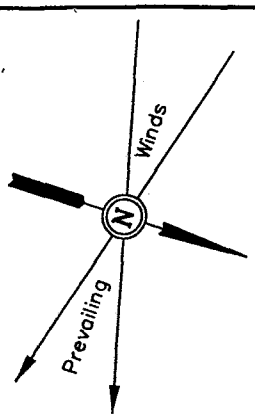
- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

| LOCATION PHOTOS | 5 MONTH | 1 DAY | 03 YEAR | PHOTO |
|---|---|---|---|---|
| TAKEN BY: S.H. | DRAWN BY: K.G. | REVISED: 00-00-00 | | |

# EOG RESOURCES, INC.

## LOCATION LAYOUT FOR

CHAPITA WELL UNIT #649-2
SECTION 2, T9S, R22E, S.L.B.&M.
480' FNL 2063' FEL




SCALE: 1" = 50'
DATE: 4-30-03
Drawn By: C.G.




REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

Elev. Ungraded Ground at Location Stake = 4853.9'
Elev. Graded Ground at Location Stake = 4854.0'


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

# EOG RESOURCES, INC.

TYPICAL CROSS SECTIONS FOR

CHAPITA WELL UNIT #649-2

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

480' FNL 2063' FEL

1" = 20'

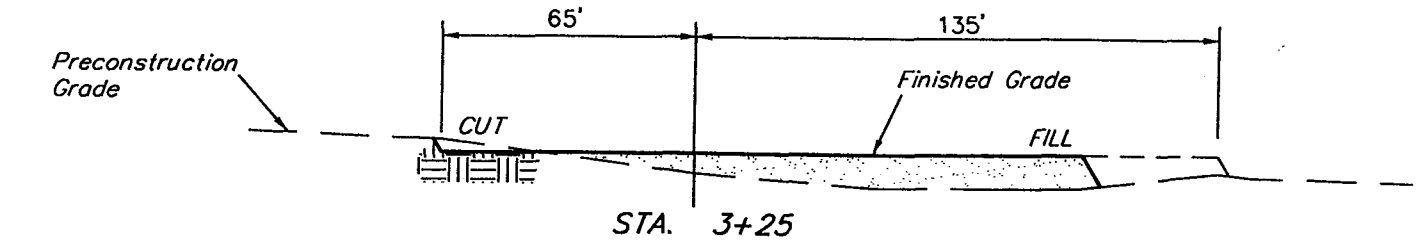
X-Section Scale

1" = 50'

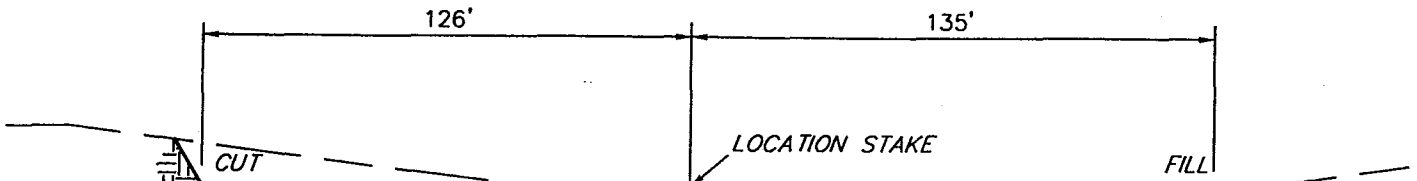
DATE: 4-30-03

Drawn By: C.G.

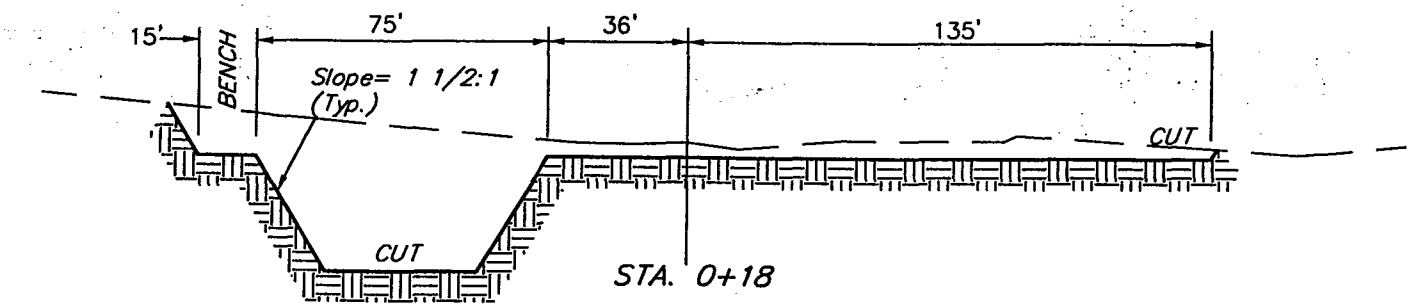
REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH



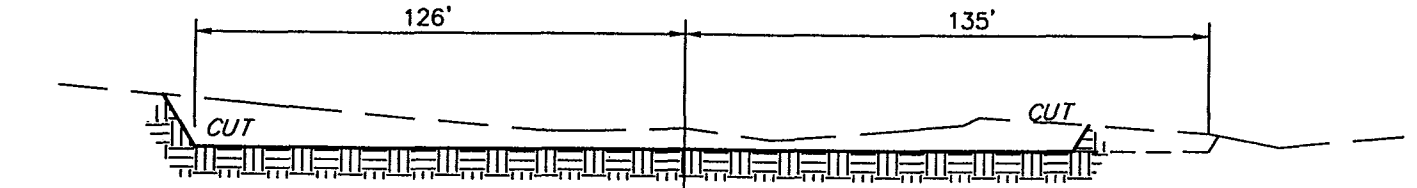

STA. 3+25




STA. 1+50




STA. 0+18




STA. 0+00

NOTE:

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

## APPROXIMATE YARDAGES

| | | | |
|---|---|---|---|
| (6") Topsoil Stripping | = 1,430 Cu. Yds. | EXCESS MATERIAL AFTER 5% COMPACTION | = 3,090 Cu. Yds. |
| Remaining Location | = 5,010 Cu. Yds. | Topsoil & Pit Backfill (1/2 Pit Vol.) | = 3,090 Cu. Yds. |
| TOTAL CUT | = 6,440 CU.YDS. | EXCESS UNBALANCE (After Rehabilitation) | = 0 Cu. Yds. |
| FILL | = 3,180 CU.YDS. | | |


UINTAH ENGINEERING & LAND SURVEYING

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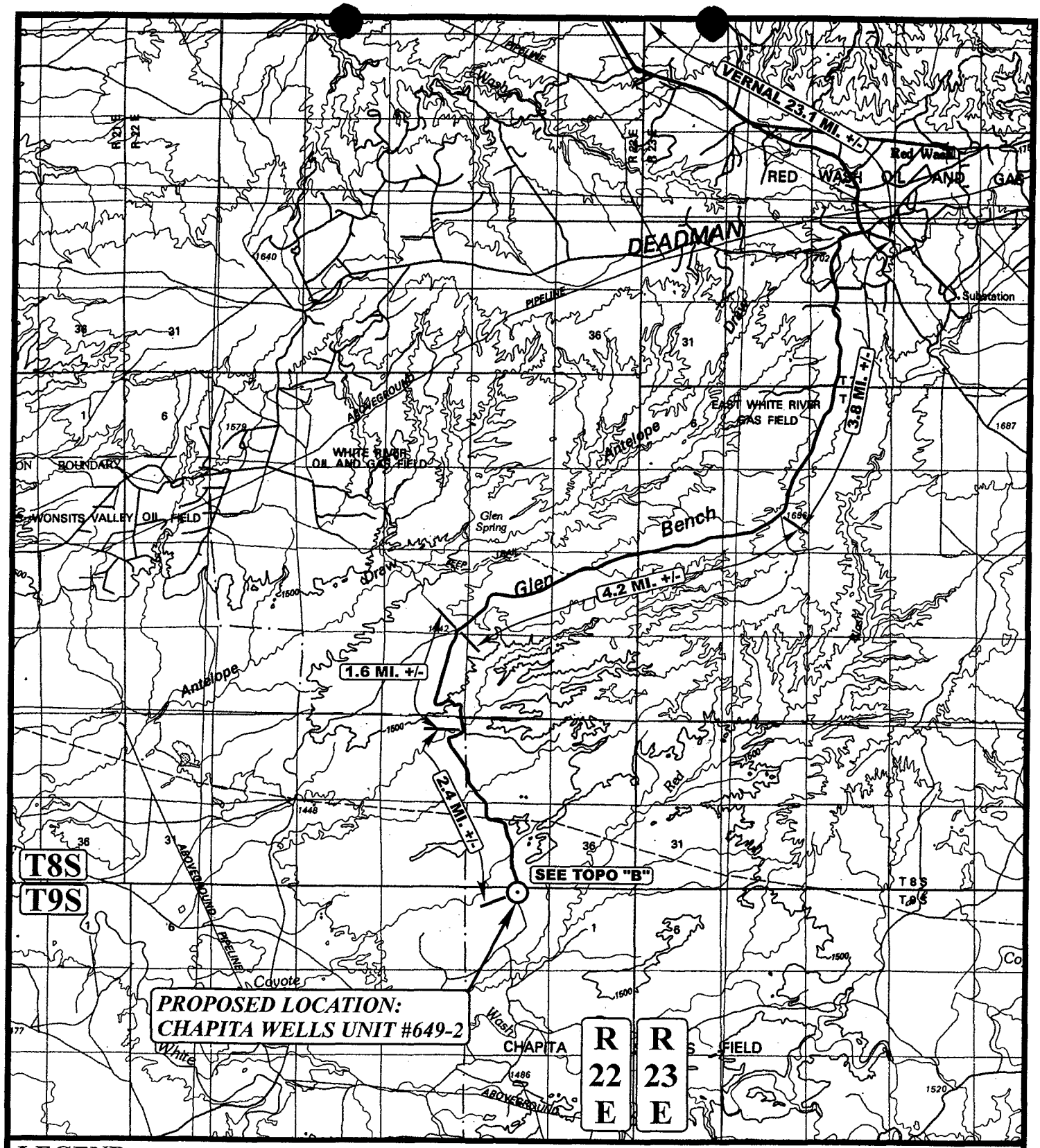



## LEGEND:

⊙ PROPOSED LOCATION

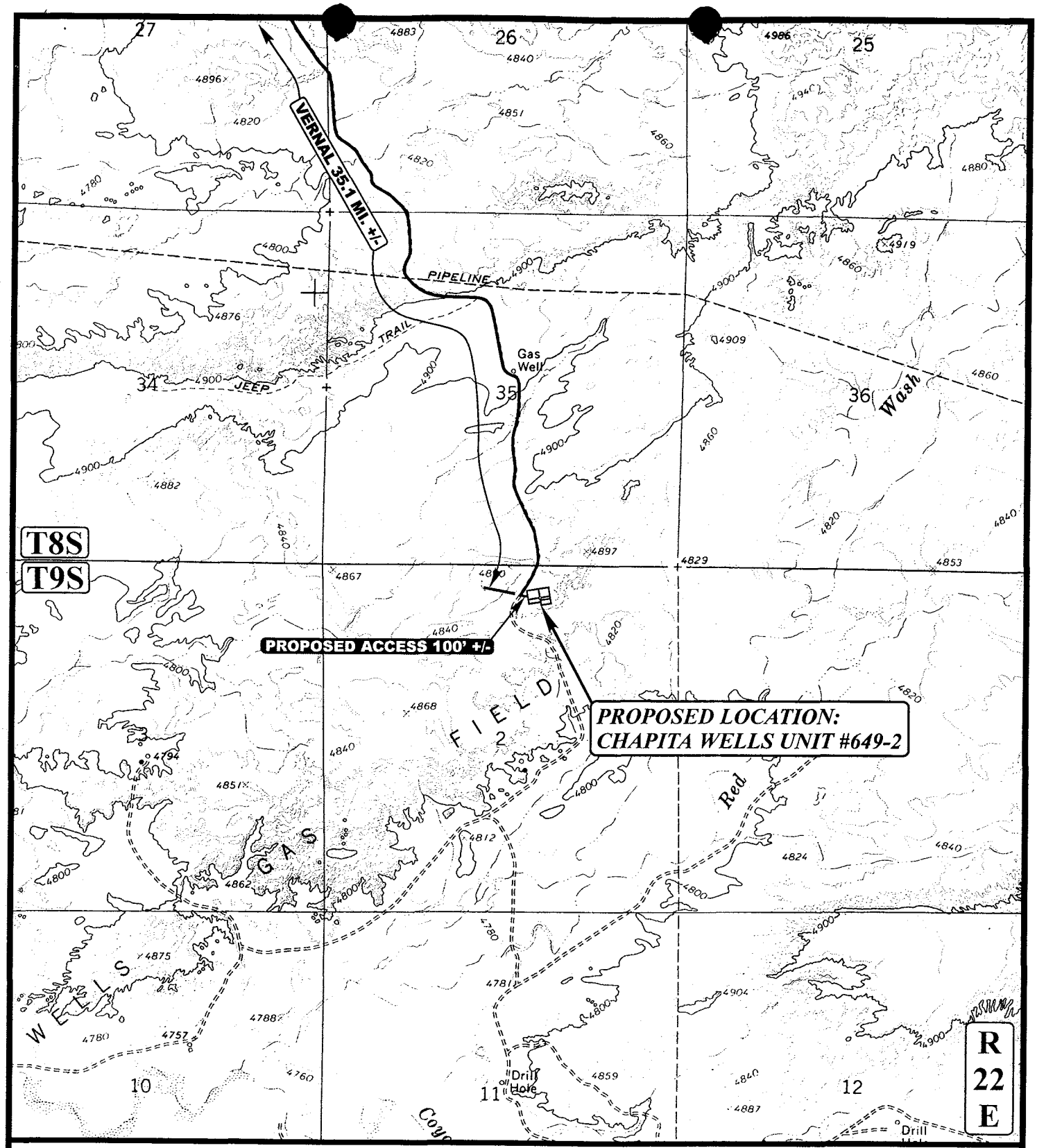
N

## EOG RESOURCES, INC.

CHAPITA WELLS UNIT #649-2
SECTION 2, T9S, R22E, S.L.B.&M.
48[illegible]' FNL 2063' FEL


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


| TOPOGRAPHIC MAP | 5 MONTH | 1 DAY | 03 YEAR | A TOPO |
|---|---|---|---|---|
| SCALE: 1:100,000 | DRAWN BY: K.G. | REVISED: 00-00-00 | | |




**LEGEND:**

PROPOSED ACCESS ROAD

EXISTING ROAD

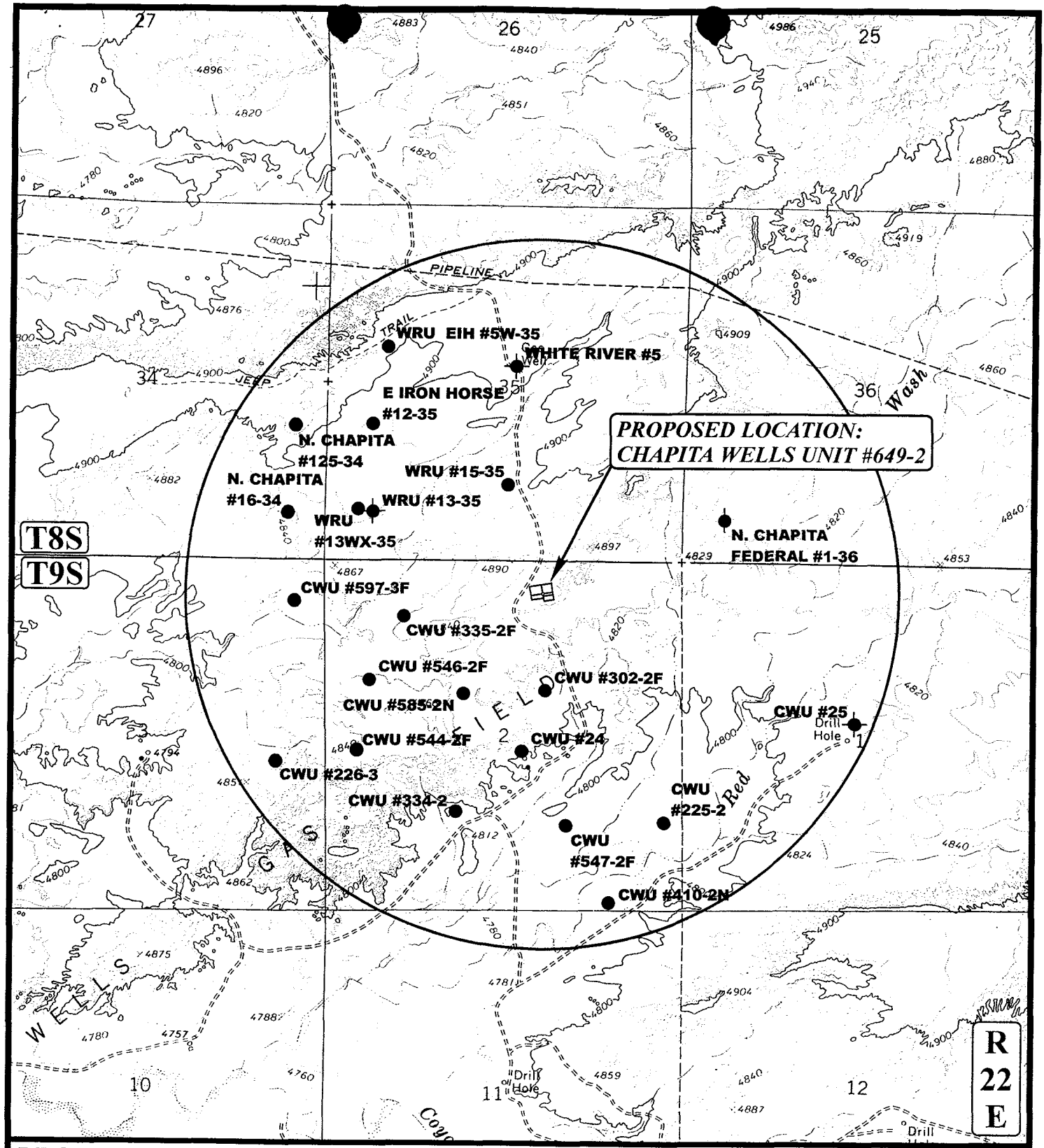
N

**EOG RESOURCES, INC.**

**CHAPITA WELLS UNIT #649-2**
**SECTION 2, T9S, R22E, S.L.B.&M.**
**480' FNL 2063' FEL**


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


| TOPOGRAPHIC MAP | 5 MONTH | 1 DAY | 03 YEAR | B TOPO |
|---|---|---|---|---|
| SCALE: 1" = 2000' | DRAWN BY: K.G. | REVISED: 00-00-00 | | |




## LEGEND:

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

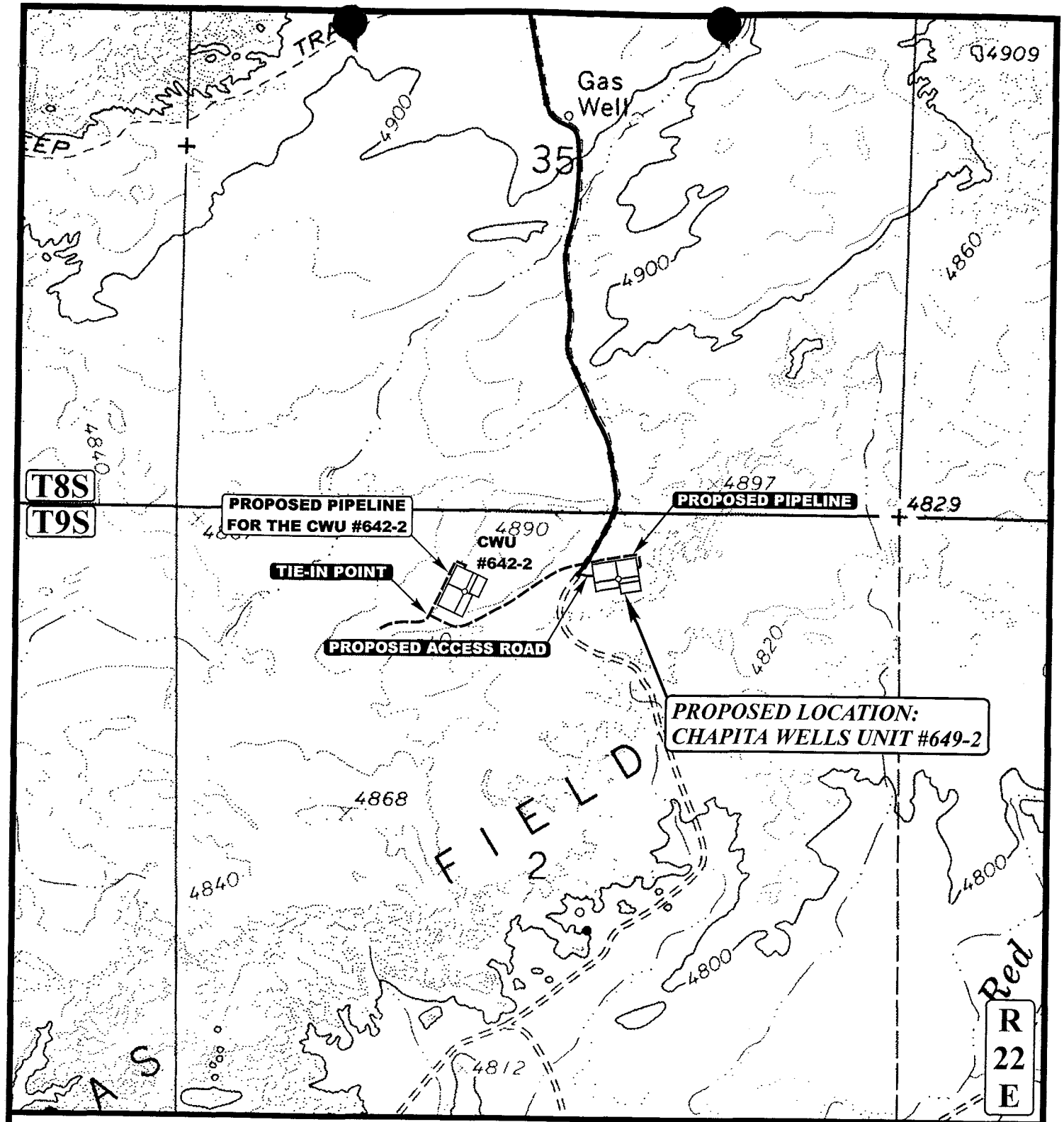
N

## EOG RESOURCES, INC.

CHAPITA WELLS UNIT #649-2
SECTION 2, T9S, R22E, S.L.B.&M.
480' FNL 2063' FEL


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


| TOPOGRAPHIC MAP | 5 MONTH | 1 DAY | 03 YEAR | C TOPO |
|---|---|---|---|---|
| SCALE: 1" = 2000' | DRAWN BY: K.G. | REVISED: 00-00-00 | | |




APPROXIMATE TOTAL PIPELINE DISTANCE = 1696' +/-

**LEGEND:**

EXISTING PIPELINE

PROPOSED PIPELINE

PROPOSED ACCESS

N

**EOG RESOURCES, INC.**

**CHAPITA WELLS UNIT #649-2**
**SECTION 2, T9S, R22E, S.L.B.&M.**
**482' FNL 2063' FEL**


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


| TOPOGRAPHIC MAP | 5 MONTH | 1 DAY | 03 YEAR | D TOPO |
|---|---|---|---|---|
| SCALE: 1" = 1000' | DRAWN BY: K.G. | REVISED: 00-00-00 | | |

003

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

APD RECEIVED: 06/04/2003

API NO. ASSIGNED: 43-047-35024

WELL NAME: CHAPITA WELLS 649-2
OPERATOR: EOG RESOURCES INC ( N9550 )
CONTACT: ED TROTTER

PHONE NUMBER: 435-789-4120

PROPOSED LOCATION:
NWNE 02 090S 220E
SURFACE: 0486 FNL 2063 FEL
BOTTOM: 0486 FNL 2063 FEL
UINTAH
NATURAL BUTTES ( 630 )

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

PROPOSED FORMATION: WSTC

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|---|---|---|
| Engineering | DKD | 10/20/03 |
| Geology | | |
| Surface | | |

LATITUDE: 40.07093
LONGITUDE: 109.40468

RECEIVED AND/OR REVIEWED:

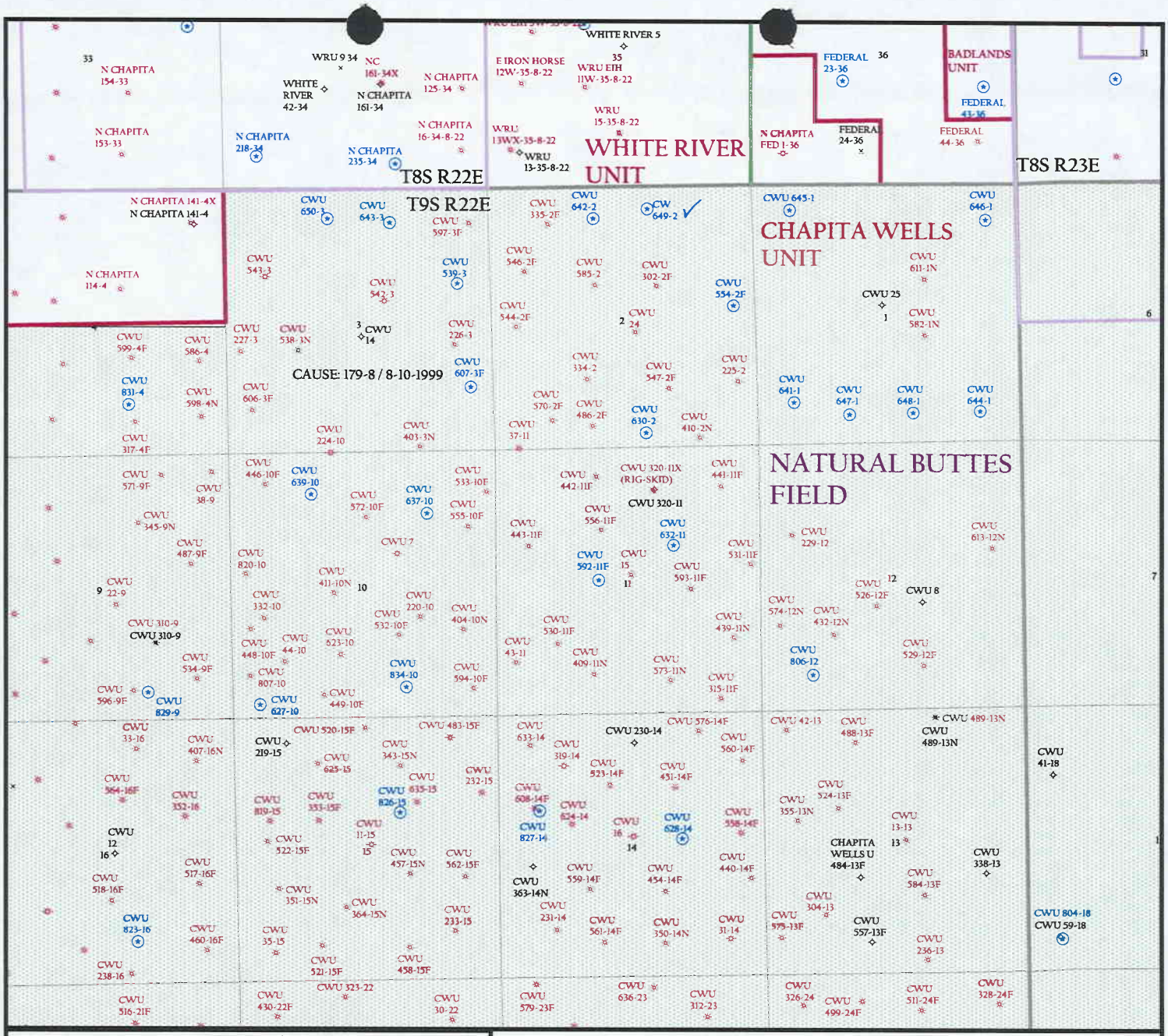
✓ Plat
✓ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. JP-0921 )
N Potash (Y/N)
Y Oil Shale 190-5 (B) or 190-3 or 190-13
✓ Water Permit
(No. 49-1501 )
N RDCC Review (Y/N)
(Date: )
NA Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3.
Unit CHAPITA WELLS
___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
___ R649-3-3. Exception
✓ Drilling Unit
Board Cause No: 179-8
Eff Date: 8-10-1999
Siting: 460' from Unit boundary
___ R649-3-11. Directional Drill

COMMENTS: Needs Presite (06-23-03)

STIPULATIONS: (1) STATEMENT OF BASIS
(2) OIL SHALE
(3) 4½" Prod. Csg. Cmt Stip to ± 1500' minimum above Trona Zone (COA#7)
(4) Surf. Csg. Cmt Stip




OPERATOR: EOG RESOURCES (N9550)

SEC. 2 T.9S, R.22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 179-9 / 8-10-1999

Utah Oil Gas and Mining

Wells
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

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

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

N W E S

PREPARED BY: DIANA MASON
DATE: 11-JUNE-2003

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)

June 13, 2003

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2003 Plan of Development Chapita Wells Unit, Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management. The following wells are planned for calendar year 2003 within the Chapita Wells Unit, Uintah County, Utah.

| Api Number | Well | Location |
|---|---|---|
| (Proposed PZ Wasatch) | | |
| 43-047-34994 | Chapita Wells U 642-2 | Sec. 2 T09S R22E 0601 FNL 2111 FWL |
| 43-047-35011 | Chapita Wells U 644-1 | Sec. 1 T09S R22E 0567 FSL 0833 FEL |
| 43-047-35024 | Chapita Wells U 649-2 | Sec. 2 T09S R22E 0486 FNL 2063 FEL |
| 43-047-35025 | Chapita Wells U 646-1 | Sec. 1 T09S R22E 0728 FNL 0628 FEL |
| 43-047-35026 | Chapita Wells U 647-1 | Sec. 1 T09S R22E 0604 FSL 1818 FWL |
| 43-047-35027 | Chapita Wells U 648-1 | Sec. 1 T09S R22E 0528 FSL 2170 FEL |
| 43-047-35028 | Chapita Wells U 645-1 | Sec. 1 T09S R22E 0507 FNL 0789 FWL |
| 43-047-35029 | Chapita Wells U 650-3 | Sec. 3 T09S R22E 0550 FNL 2080 FWL |
| 43-047-35012 | Chapita Wells U 643-3 | Sec. 3 T09S R22E 0694 FNL 1945 FEL |
| 43-047-35013 | Chapita Wells U 539-3 | Sec. 3 T09S R22E 1890 FNL 0602 FEL |
| (Proposed PZ Mancos) | | |
| 43-047-35014 | Chapita Wells U 831-4 | Sec. 4 T09S R22E 0988 FSL 1994 FEL |
| 43-047-35015 | Chapita Wells U 830-4 | Sec. 4 T09S R22E 0543 FSL 0785 FWL |
| 43-047-35016 | Chapita Wells U 834-10 | Sec. 10 T09S R22E 0572 FSL 1818 FEL |
| 43-047-35017 | Chapita Wells U 826-15 | Sec. 15 T09S R22E 1943 FNL 1947 FEL |
| 43-047-35018 | Chapita Wells U 825-23 | Sec. 23 T09S R22E 0645 FSL 1898 FEL |
| 43-047-35019 | Chapita Wells U 824-23 | Sec. 23 T09S R22E 0510 FSL 0542 FWL |

Please be advised that there is currently no participating area for the Mancos Formation within the Chapita Wells Unit.

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

/s/ Michael L. Coulthard

bcc: File - Chapita Wells Unit
Division of Oil Gas and Mining
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:6-13-3

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

**OPERATOR:** EOG RESOURCES INC.
**WELL NAME & NUMBER:** CHAPITA WELLS UNIT 649-2
**API NUMBER:** 43-047-35024
**LEASE:** ML-3077 **FIELD/UNIT:** NATURAL BUTTES
**LOCATION: 1/4,1/4** NW/NE **Sec:** 2 **TWP:** 9S **RNG:** 22E 2063' FEL 486' FNL
**LEGAL WELL SITING:** 460' from unit boundary.
**GPS COORD (UTM):** 12636049E 4436628N **SURFACE OWNER:** STATE OF UTAH.

**PARTICIPANTS**

DAVID W. HACKFORD (DOGM), ED TROTTER (EOG), FLOYD BARTLETT (DWR).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

SITE IS IN A VERY SHALLOW BOWL WITH LOW HILLS 300' NORTH OF SITE, 400' EAST OF SITE AND 200' SOUTH OF SITE. DRAINAGE IS TO THE WEST. THE WHITE RIVER IS THREE MILES TO THE SOUTHWEST. OURAY, UTAH IS 35.2 MILES TO THE NORTHWEST.

**SURFACE USE PLAN**

CURRENT SURFACE USE: WILDLIFE AND LIVESTOCK GRAZING, HUNTING.

PROPOSED SURFACE DISTURBANCE: LOCATION WILL BE 325' BY 246'. PROPOSED ACCESS IS 100 FEET.

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

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: NEW PRODUCTION FACILITIES WILL BE ON LOCATION AND ADDED AFTER DRILLING WELL. A GAS PIPELINE WILL FOLLOW ACCESS ROAD.

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

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: SALTBRUSH, SHADSCALE, NATIVE GRASSES. LESS THA 1% GROUND COVER: PRONGHORN, COYOTES, SONGBIRDS, RAPTORS, RODENTS, RABBITS.

SOIL TYPE AND CHARACTERISTICS: LIGHT GRAY CLAY WITH SOME SAND.

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

PALEONTOLOGICAL POTENTIAL: NONE OBSERVED.

**RESERVE PIT**

CHARACTERISTICS: 147' BY 75' AND 12' DEEP.

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

**SURFACE RESTORATION/RECLAMATION PLAN:**
AS PER S.I.T.L.A.

SURFACE AGREEMENT: **AS PER STATE OF UTAH**

CULTURAL RESOURCES/ARCHAEOLOGY: SITE HAS BEEN INSPECTED BY JIM TRUESDALE.

**OTHER OBSERVATIONS/COMMENTS**

THIS PREDRILL INVESTIGATION WAS CONDUCTED ON A WARM, SUNNY DAY WITH NO SNOW COVER.

**ATTACHMENTS**

PHOTOS OF THIS SITE WERE TAKEN AND PLACED ON FILE.

| | |
|---|---|
| DAVID W. HACKFORD | 6/23/03 10:00 AM |
| DOGM REPRESENTATIVE | DATE/TIME |

**Evaluation Ranking Criteria and Ranking Score**
**For Reserve and Onsite Pit Liner Requirements**

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

**Final Score** 10 (Level III Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.


JUN 23 2003


JUN 23 2003


JUN 23 2003


JUN 23 2003

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

**OPERATOR:** EOG RESOURCES, INC.
**WELL NAME & NUMBER:** CHAPITA WELLS UNIT 649-2
**API NUMBER:** 43-047-35024
**LOCATION:** 1/4,1/4 NW/NE Sec: 2 TWP: 9S RNG:22E 2063' FEL 486' FNL

**Geology/Ground Water:**

EOG proposes to set 220 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 1,800 feet. A search of Division of Water Rights records shows no water wells 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 discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The proposed surface casing should adequately protect any near surface aquifers.

**Reviewer:** Brad Hill **Date:** 06-24-03

**Surface:**

The predrill investigation of the surface was performed on 6/23/03. Surface and minerals for this well are owned by the State of Utah. S.I.T.L.A. and D.W.R. were notified of this investigation on 6/16/03. Floyd Bartlett represented the D.W.R. S.I.T.L.A. did not have a representative present. Mr. Bartlett had no concerns regarding the construction of this location or the drilling of this well. This site appears to be the best site in the immediate area for a location and well. There is scant vegetation (less than 1%) over the entire area the proposed location would cover.

**Reviewer:** David W. Hackford **Date:** 6/23/03

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

None.

| | |
|---|---|
| Well name: | **06-03 EOG Chapita Wells 649-2** |
| Operator: | **EOG** |
| String type: | Surface |
| Project ID: | 43-047-35024 |
| Location: | Uintah Co. |

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 123 psi
Internal gradient: 0.442 psi/ft
Calculated BHP 220 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 air weight.
Neutral point: 192 ft

**Environment:**

| | |
|---|---|
| H2S considered? | No |
| Surface temperature: | 65 °F |
| Bottom hole temperature: | 68 °F |
| Temperature gradient: | 1.40 °F/100ft |
| Minimum section length: | 220 ft |
| Cement top: | 79 ft |

Non-directional string.

**Re subsequent strings:**

| | |
|---|---|
| Next setting depth: | 6,825 ft |
| Next mud weight: | 9.200 ppg |
| Next setting BHP: | 3,262 psi |
| Fracture mud wt: | 19.250 ppg |
| Fracture depth: | 220 ft |
| Injection pressure | 220 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 ($ft^3$) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 220 | 8.625 | 24.00 | J-55 | ST&C | 220 | 220 | 7.972 | 10.6 |

| 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 | 14.271 | 220 | 2950 | 13.41 | 5 | 244 | 46.21 J |

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: October 9,2003
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.*

| | |
|---|---|
| Well name: | **06-03 EOG Chapita Wells 649-2** |
| Operator: | **EOG** |
| String type: | Production |
| Location: | Uintah Co. |
| Project ID: | 43-047-35024 |

**Design parameters:**

**Collapse**
Mud weight: 9.200 ppg
Design is based on evacuated pipe.

**Burst**
Max anticipated surface pressure: 284 psi
Internal gradient: 0.436 psi/ft
Calculated BHP 3,262 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 air weight.
Neutral point: 5,890 ft

**Environment:**
H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 161 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 220 ft

Cement top: 1,557 ft

Non-directional string.

| 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 ($ft^3$) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6825 | 4.5 | 10.50 | J-55 | ST&C | 6825 | 6825 | 3.927 | 142.6 |

| 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 | 3262 | 4010 | 1.229 | 3262 | 4790 | 1.47 | 72 | 132 | 1.84 J |

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

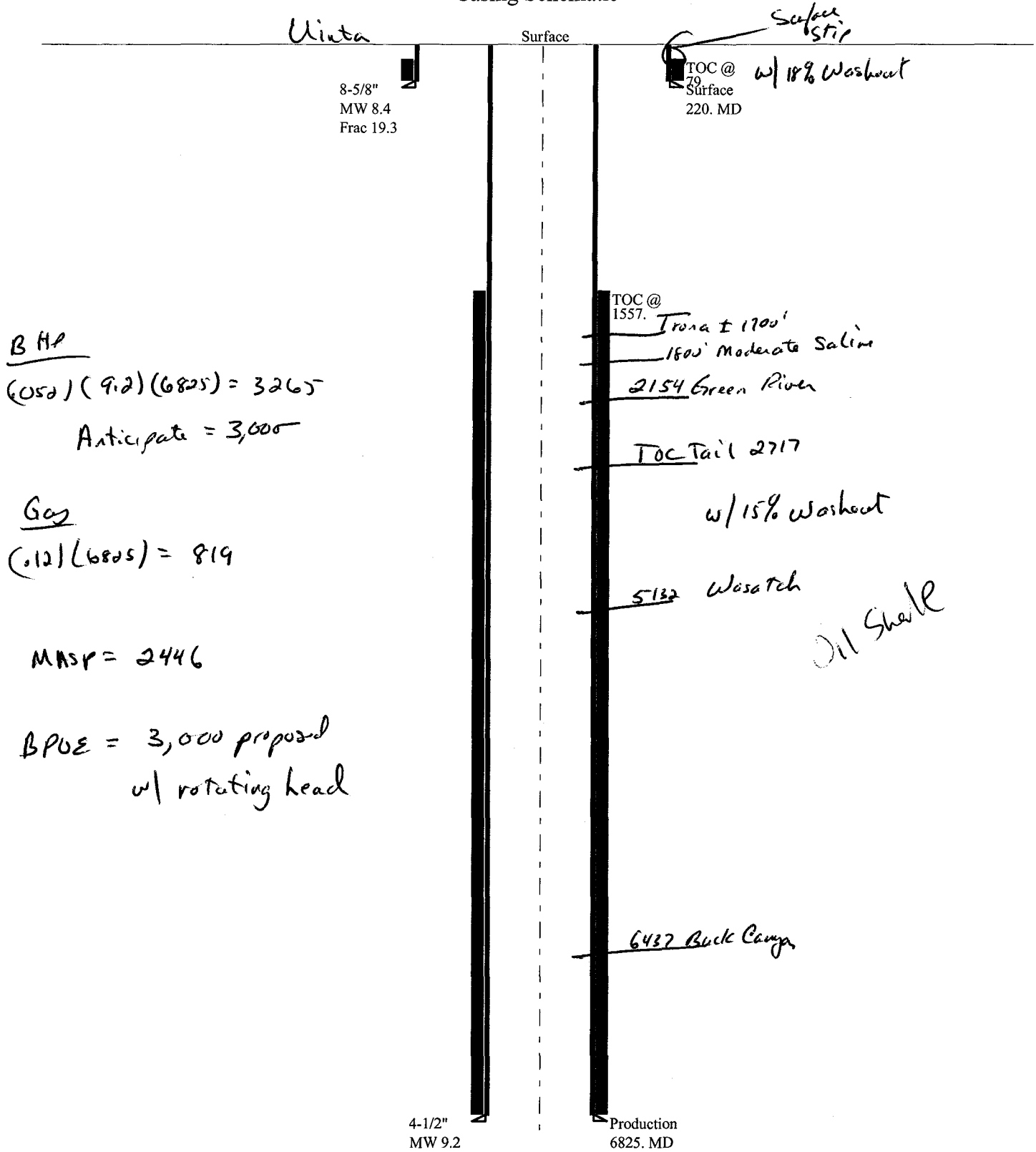
Date: October 9,2003
Salt Lake City, Utah

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 6825 ft, a mud weight of 9.2 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.*

# 06-03 EOG Chapita Wells 649-2

Casing Schematic




BHP

(.052)(9.2)(6825) = 3265

Anticipate = 3,000

Gas

(.12)(6825) = 819

MASP = 2446

BOPE = 3,000 proposed
w/ rotating head

004


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

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

Michael O. Leavitt
Governor
Robert L. Morgan
Executive Director
Lowell P. Braxton
Division Director


October 21, 2003

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

Re: Chapita Wells Unit 649-2 Well, 486' FNL, 2063' FEL, NW NE, 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 43-047-35024.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA

Utah!
Where ideas connect

**Operator:** EOG Resources, Inc.
**Well Name & Number** Chapita Wells Unit 649-2
**API Number:** 43-047-35024
**Lease:** ML-3077

**Location:** NW NE **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
   - 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. Surface casing shall be cemented to the surface.

8. Cement production casing to 41/2" at ±1500 feet as proposed, which will be above the moderately saline ground water depth. (above Trong Zone)

STATE OF UTAH 005
STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

OPERATOR ACCT. NO. N
OPERATOR ACCT. NO. N

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

FAX: EARLENE RUSSELL
(801) 359-3940

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DIV. OF OIL, GAS & MINING

ENTITY ACTION FORM - FORM 6

| ACTION CODE | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER | WELL NAME | LOCATION QQ | SEC. | TP | RG | COUNTY | SPUD DATE | EFFECTIVE DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| A | 99999 | 4905 | 43-047-35024 | CHAPITA WELLS UNIT 649-2 | NWNE | 2 | 9S | 22E | UINTAH | 9/17/2004 | |

K

1 COMMENTS: WSTC CONFIDENTIAL

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)

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

(3/89)

Signature: Carla Schuda
Sr. Regulatory Assistant — 9/20/2004
Title — Date

Phone No. (307) 276-3331

FORM 9

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

006

# SUNDRY NOTICES AND REPORTS ON WELLS

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

| | |
|---|---|
| 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3077 | |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | |
| 7. UNIT or CA AGREEMENT NAME: CHAPITA WELLS UNIT | |
| 1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER CONFIDENTIAL | 8. WELL NAME and NUMBER: CHAPITA WELLS UNIT 649-2 |
| 2. NAME OF OPERATOR: EOG RESOURCES, INC | 9. API NUMBER: 4304735024 |
| 3. ADDRESS OF OPERATOR: P.O. BOX 250 CITY BIG PINEY STATE WY ZIP 83113 / PHONE NUMBER: (307) 276-3331 | 10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES |

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 486' FNL - 2063' FEL — COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 9S 22E S — STATE: UTAH

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

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

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

EOG Resources, Inc. spud a 20" surface hole at the referenced location 9/17/2004 at 4:00 p.m. The contractor was Pete Martin's Bucket Rig. Dall Cook, representative for EOG, notified Ed Forsman of the Vernal BLM office and Carol Daniels of the Utah Division of Oil Gas and Mining of the spud 9/17/2004.

NAME (PLEASE PRINT) Alfreda Schulz — TITLE Sr. Regulatory Assistant

SIGNATURE Alfreda Schulz — DATE 9/20/2004

(This space for State use only)

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DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

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

FORM 9

007

## SUNDRY NOTICES AND REPORTS ON WELLS

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

| | |
|---|---|
| 5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3077 | |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME: | |
| 7. UNIT or CA AGREEMENT NAME: CHAPITA WELLS UNIT | |
| 1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER | 8. WELL NAME and NUMBER: CHAPITA WELLS UNIT 649-2 |
| 2. NAME OF OPERATOR: EOG RESOURCES, INC | 9. API NUMBER: 4304735024 |
| 3. ADDRESS OF OPERATOR: P.O. BOX 250 CITY BIG PINEY STATE WY ZIP 83113 / PHONE NUMBER: (307) 276-3331 | 10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES |

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 486' FNL - 2063' FEL — COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 9S 22E S — STATE: UTAH

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

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

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

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).
4. RN Industries.

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

**FOR RECORD ONLY**

NAME (PLEASE PRINT) Alfreda Schulz — TITLE Sr. Regulatory Assistant

SIGNATURE Alfreda Schulz — DATE 9/20/2004

(This space for State use only)

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DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

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

AMENDED REPORT ☐ (highlight changes) FORM 8

008

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3077

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: CHAPITA WELLS UNIT

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

CONFIDENTIAL

8. WELL NAME and NUMBER: CHAPITA WELLS UNIT 649-02

2. NAME OF OPERATOR: EOG RESOURCES, INC

9. API NUMBER: 4304735024

3. ADDRESS OF OPERATOR: P.O. BOX 250 CITY BIG PINEY STATE WY ZIP 83113

PHONE NUMBER: (307) 276-3331

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES / WASATCH

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 486 FNL 2063 FEL

AT TOP PRODUCING INTERVAL REPORTED BELOW: SAME

AT TOTAL DEPTH: SAME

CONFIDENTIAL PERIOD EXPIRED ON 11-18-05

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 9S 22E

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 9/17/2004

15. DATE T.D. REACHED: 9/27/2004

16. DATE COMPLETED: 10/18/2004

ABANDONED ☐ READY TO PRODUCE ☑ 10-18-04

17. ELEVATIONS (DF, RKB, RT, GL): 4872 KB

18. TOTAL DEPTH: MD 6,825 TVD

19. PLUG BACK T.D.: MD 6,770 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

RST-GR/CCL, CBL-GR/CCL

23.

| | | | |
|---|---|---|---|
| WAS WELL CORED? | NO ☑ | YES ☐ | (Submit analysis) |
| WAS DST RUN? | NO ☑ | YES ☐ | (Submit report) |
| DIRECTIONAL SURVEY? | NO ☑ | YES ☐ | (Submit copy) |

24. CASING AND LINER RECORD (Report all strings set in well)

| HOLE SIZE | SIZE/GRADE | WEIGHT (#/ft.) | TOP (MD) | BOTTOM (MD) | STAGE CEMENTER DEPTH | CEMENT TYPE & NO. OF SACKS | SLURRY VOLUME (BBL) | CEMENT TOP ** | AMOUNT PULLED |
|---|---|---|---|---|---|---|---|---|---|
| 12 1/4 | 9 5/8 J-55 | 36 | 0 | 549 | | 225 | | | |
| 7 7/8 | 4 1/2 L-80 | 11.6 | 0 | 6,801 | | 1050 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2 3/8 | 6,652 | | | | | | | |

26. PRODUCING INTERVALS

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) WASATCH | 5,668 | 6,642 | | |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

27. PERFORATION RECORD

| INTERVAL (Top/Bot - MD) | | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|---|
| 6,508 | 6,642 | 2 | | Open ☐ Squeezed ☐ |
| 6,412 | 6,454 | 3 | | Open ☐ Squeezed ☐ |
| 6,160 | 6,250 | 2 | | Open ☐ Squeezed ☐ |
| 5,921 | 5,941 | 3 | | Open ☐ Squeezed ☐ |

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 6508-6642 | 380 BBLS GELLED WATER & 66,995 # 20/40 SAND |
| 6412-6454 | 377 BBLS GELLED WATER & 66,184 # 20/40 SAND |
| 6160-6250 | 570 BBLS GELLED WATER & 125,152 # 20/40 SAND |

29. ENCLOSED ATTACHMENTS:

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY

☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

30. WELL STATUS: PRODUCING

(5/2000)

(CONTINUED ON BACK)

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**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| 10/18/2004 | 10/21/2004 | 24 | | 3 | 936 | 29 | FLOWS |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| 12/64 | 1,400 | 1,500 | | | | | 3 | 936 | 29 | |

**INTERVAL B (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL C (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL D (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

SOLD THROUGH QUESTAR METER # 6564

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name | Top (Measured Depth) |
|---|---|---|---|---|---|
| WASATCH | 5,668 | 6,642 | | WASATCH<br>CHAPITA WELLS<br>BUCK CANYON | 5,127<br>5,784<br>6,451 |

**35. ADDITIONAL REMARKS (Include plugging procedure)**

One 300 bbl tank # 80392V is on location. SEE ATTACHED SHEET FOR ADDITIONAL REMARKS.

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

NAME (PLEASE PRINT) Kaylene R. Gardner TITLE Regulatory Assistant

SIGNATURE Kaylene R. Gardner DATE 10/21/2004

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

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ADDITIONAL REMARKS (CONTINUED):

Perforated the Bb, Bc & Bd from 6508-10', 6534-36', 6606-08' & 6639-42' w/2 SPF.
Perforated the Cl & Ba from 6412-15', 6422-25' & 6452-54' w/3 SPF.
Perforated the Cf, Ch & Cl from 6160-61', 6228-32' & 6246-50' w/2 SPF.
Perforated the Cc from 5921-23' & 5935-41' w/3 SPF. Fracture stimulated with 425 bbls gelled water & 81,520 # 20/40 sand.
Perforated the Ca from 5807-13' w/3 SPF. Fracture stimulated with 270 bbls gelled water & 40,110 # 20/40 sand.
Perforated the Pg & Ph from 5668-70', 5700-02', 5719-22' & 5726-28' w/2 SPF. Fracture stimulated with 383 bbls gelled water & 69,988 # 20/40 sand.
Perforated the Cj, Ck & Bc from 6310-12', 6325-26', 6334-36', 6368-70' & 6730-32' w/3 SPF.

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FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-3077

# SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME: Chapita Wells Unit

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Chapita Wells Unit 649-2

2. NAME OF OPERATOR: EOG Resources, Inc.

9. API NUMBER: 43-047-35024

3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (303) 824-5526

10. FIELD AND POOL, OR WILDCAT: Natural Buttes/Wasatch

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 486' FNL & 2063' FEL 40.070853 LAT 109.404597 LON

COUNTY: Uintah

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 2 9S 22E S

STATE: UTAH

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

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

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

The reserve pit for the referenced location was closed on 3/28/2006 as per the APD procedure.

NAME (PLEASE PRINT) Mary A. Maestas TITLE Regulatory Assistant

SIGNATURE Mary A. Maestas DATE 1/8/2007

(This space for State use only)

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(5/2000) (See Instructions on Reverse Side)