

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>		5. MINERAL LEASE NO: <b>U-01197-A-ST</b>	6. SURFACE: <b>State</b>
1A. TYPE OF WORK:    DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL:    OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____    SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		8. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>	
2. NAME OF OPERATOR: <b>EOG RESOURCES, INC.</b>		9. WELL NAME and NUMBER: <b>Natural Buttes Unit 633-12E</b>	
3. ADDRESS OF OPERATOR: <b>1060 East Hwy 40</b> CITY <b>VERNAL</b> STATE <b>UT</b> ZIP <b>84078</b>		PHONE NUMBER: <b>(435) 781-9111</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch/Mesaverde</b>
4. LOCATION OF WELL (FOOTAGES) <b>637838X</b> <b>39.968523</b> AT SURFACE: <b>789' FNL &amp; 2179' FEL 39.968522 LAT 109.386614 LON</b> AT PROPOSED PRODUCING ZONE: <b>Same 4425306Y</b> <b>-109.386029</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 12 10S 22E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>54.8 Miles South of Vernal, UT</b>		12. COUNTY: <b>UINTAH</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>789</b>	16. NUMBER OF ACRES IN LEASE: <b>1674</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>Spacing Suspended</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>2400</b>	19. PROPOSED DEPTH: <b>7,101</b>	20. BOND DESCRIPTION: <b>NM 2308</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5176' GL</b>	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION: <b>45 DAYS</b>	

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
17-1/2	13-3/8	H-40	48.0#	0-45	See Attached Eight Point Plan
12-1/4	9-5/8	J-55	36.0#	0-2,300	See Attached Eight Point Plan
7-7/8	4-1/2	N-80	11.6#	Surface-7,101	See Attached Eight Point Plan

25. **ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

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

SIGNATURE *Kaylene R. Gardner*    DATE 4/5/2007

(This space for State use only)

API NUMBER ASSIGNED: 43,047,39193

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

**RECEIVED  
APR 09 2007  
DIV. OF OIL, GAS & MINING**

APPROVAL:  
Date: 06-12-07  
By: *[Signature]*

T10S, R22E, S.L.B.&M.

EOG RESOURCES, INC.

1991 Alum. Cap,  
0.4' High, Pile of  
Stones, Steel  
Post

1991 Brass Cap,  
0.2' Above 1.5'  
High, Pile of  
Stones

Well location, NBU #633-12E, located as shown in  
the NW 1/4 NE 1/4 of Section 12, T10S, R22E,  
S.L.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

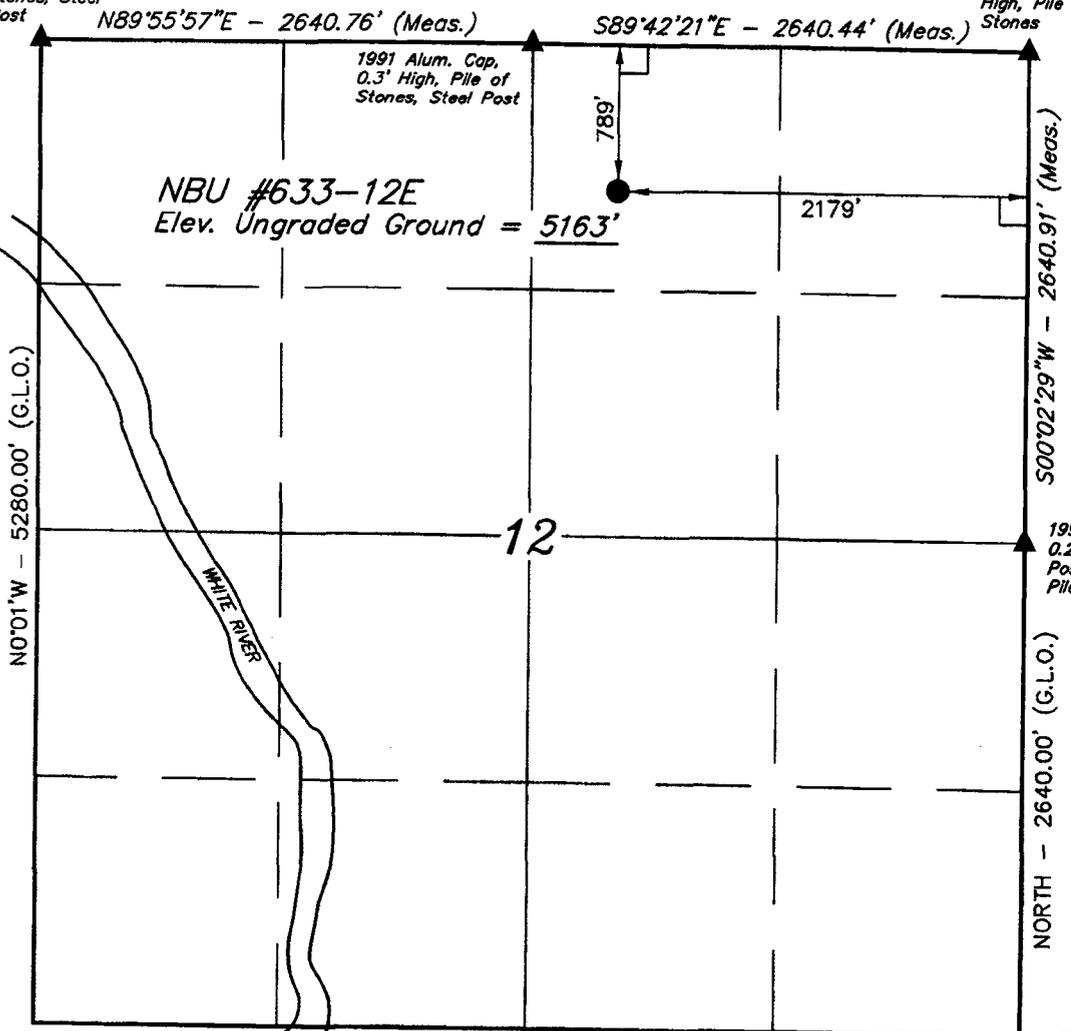
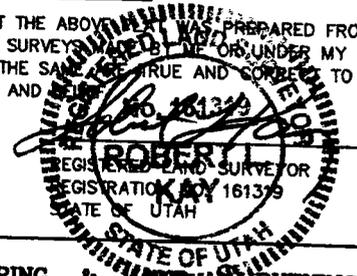
BENCH MARK (20EAM) LOCATED IN THE SE 1/4 OF SECTION  
35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE  
QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE SERIES  
(TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID  
ELEVATION IS MARKED AS BEING 4697 FEET.



SCALE

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE MAP 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.



R R  
21 22  
E E

**BASIS OF BEARINGS**

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

(NAD 83)  
 LATITUDE = 39°58'06.68" (39.968522)  
 LONGITUDE = 109°23'11.81" (109.386614)  
 (NAD 27)  
 LATITUDE = 39°58'06.80" (39.968556)  
 LONGITUDE = 109°23'09.36" (109.385933)

**LEGEND:**

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

<b>UINTAH ENGINEERING &amp; SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 02-14-07	DATE DRAWN: 02-27-07
PARTY G.S. T.P. C.H.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 633-12E**  
**NW/NE, SEC. 12, T10S, R22E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

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

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	1,189		Shale	
Wasatch	4,134	Primary	Sandstone	Gas
Chapita Wells	4,690	Primary	Sandstone	Gas
Buck Canyon	5,330	Primary	Sandstone	Gas
North Horn	6,095	Primary	Sandstone	Gas
KMV Price River	6,418	Primary	Sandstone	Gas
<b>TD</b>	<b>7,101</b>			

Estimated TD: **7,101' or 200'± below Price River top**      **Anticipated BHP: 3,880 Psig**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well isolating all zones by cement.

**3. PRESSURE CONTROL EQUIPMENT:**      Production Hole – 5000 Psig  
 BOP schematic diagrams attached.

**4. CASING PROGRAM:**

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Rating Collapse	Factor Burst	Tensile
Conductor	17 ½"	0 – 45'	13 ¾"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 ¼"	0' – 2,300' KB±	9-5/8"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
Production	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

**Note:** 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-5/8" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

**All casing will be new or inspected.**

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 633-12E**  
**NW/NE, SEC. 12, T10S, R22E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**5. Float Equipment:**

**Surface Hole Procedure (0' - 2300'±)**

Guide Shoe

Insert Float Collar (PDC drillable)

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

**Production Hole Procedure (2300'± - TD):**

Float shoe, 1 joint casing, float collar and balance of casing to surface. 4-½", 11.6#, N-80 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. Centralizers to be placed 5' above shoe on joint #1, top of joint #2, and every 2nd joint to 400' above Wasatch Island top. Thread lock float shoe, top and bottom of float collar, and top of 2<sup>nd</sup> joint.

**6. MUD PROGRAM**

**Surface Hole Procedure (Surface - 2300'±):**

Air/air mist or aerated water.

**Production Hole Procedure (2300'± - TD):** Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

**2300'± - TD** A closed mud system will be utilized. A bentonite gelled water mud system will be used to control viscosity w/PHPA polymer used for supplemental viscosity and clay encapsulation/inhibition. Water loss will be maintained at <15cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum.

**7. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 2 – Item E: Special Drilling Operations

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

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 633-12E**  
**NW/NE, SEC. 12, T10S, R22E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**8. EVALUATION PROGRAM:**

**Logs:** Mud log from base of surface casing to TD.  
**Cased-hole Logs:** Cased-hole logs will be run in lieu of open-hole logs consisting of the following:  
**Cement Bond / Casing Collar Locator and Pulsed Neutron**

**9. CEMENT PROGRAM:**

**Surface Hole Procedure (Surface - 2300'±):**

**Lead:** 185 sks Class "G" cement with 16% Gel, 10 #/sx Gilsonite, 3% Salt, 2% CaCl<sub>2</sub>, 3 lb/sx GR3 ¼ #/sx Flocele mixed at 11 ppg, 3.82 ft<sup>3</sup>/sk. yield, 23 gps water.

**Tail:** 207 sks Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Top Out:** As necessary with Class "G" cement with 2% CaCl<sub>2</sub>, ¼#/sk Flocele mixed at 15.6 ppg, 1.18 ft<sup>3</sup>/sk., 5.2 gps water.

**Note:** Cement volumes will be calculated to bring lead cement to surface and tail cement to 500' above the casing shoe.

**Production Hole Procedure (2300'± - TD)**

**Lead:** 105 sks: Hi-Lift "G" w/12% D20 (Bentonite), 1% D79 (Extender), 5% D44 (Salt), 0.2% D46 (Antifoam), 0.25% D112 (Fluid Loss Additive), 0.25 pps D29 (cello flakes) mixed at 11.0 ppg, 3.91 ft<sup>3</sup>/sk., 24.5 gps water.

**Tail:** 610 sks: 50:50 Poz "G" w/ 2% D20 (Bentonite), 0.1% D46 (Antifoam), 0.075% D13 (Retarder), 0.2% D167 (Fluid Loss Additive), 0.2% D65 (Dispersant), mixed at 14.1 ppg, 1.28 ft<sup>3</sup>/sk., 5.9 gps water.

**Note:** The above number of sacks is based on gauge-hole calculation.  
Lead volume to be calculated to bring cement to 200'± above 9-5/8" casing shoe.  
Tail volume to be calculated to bring cement to 400'± above top of Wasatch.

**Final Cement volumes will be based upon gauge-hole plus 45% excess.**

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 633-12E**  
**NW/NE, SEC. 12, T10S, R22E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 2300'±):**

Lost circulation

**Production Hole (2300'± - TD):**

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation.

**11. STANDARD REQUIRED EQUIPMENT:**

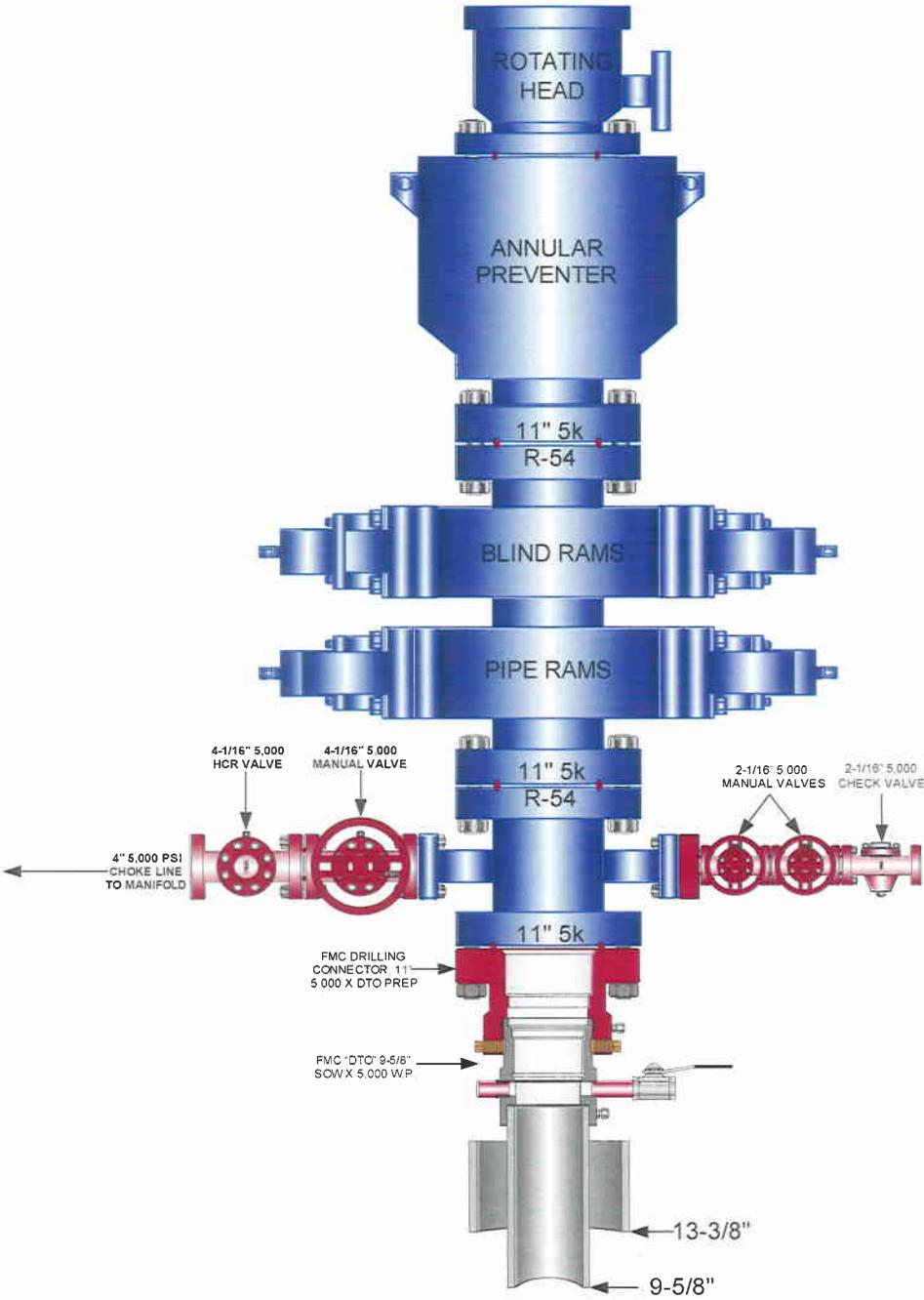
- A. Choke Manifold
- B. Upper and Lower Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

**12. HAZARDOUS CHEMICALS:**

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

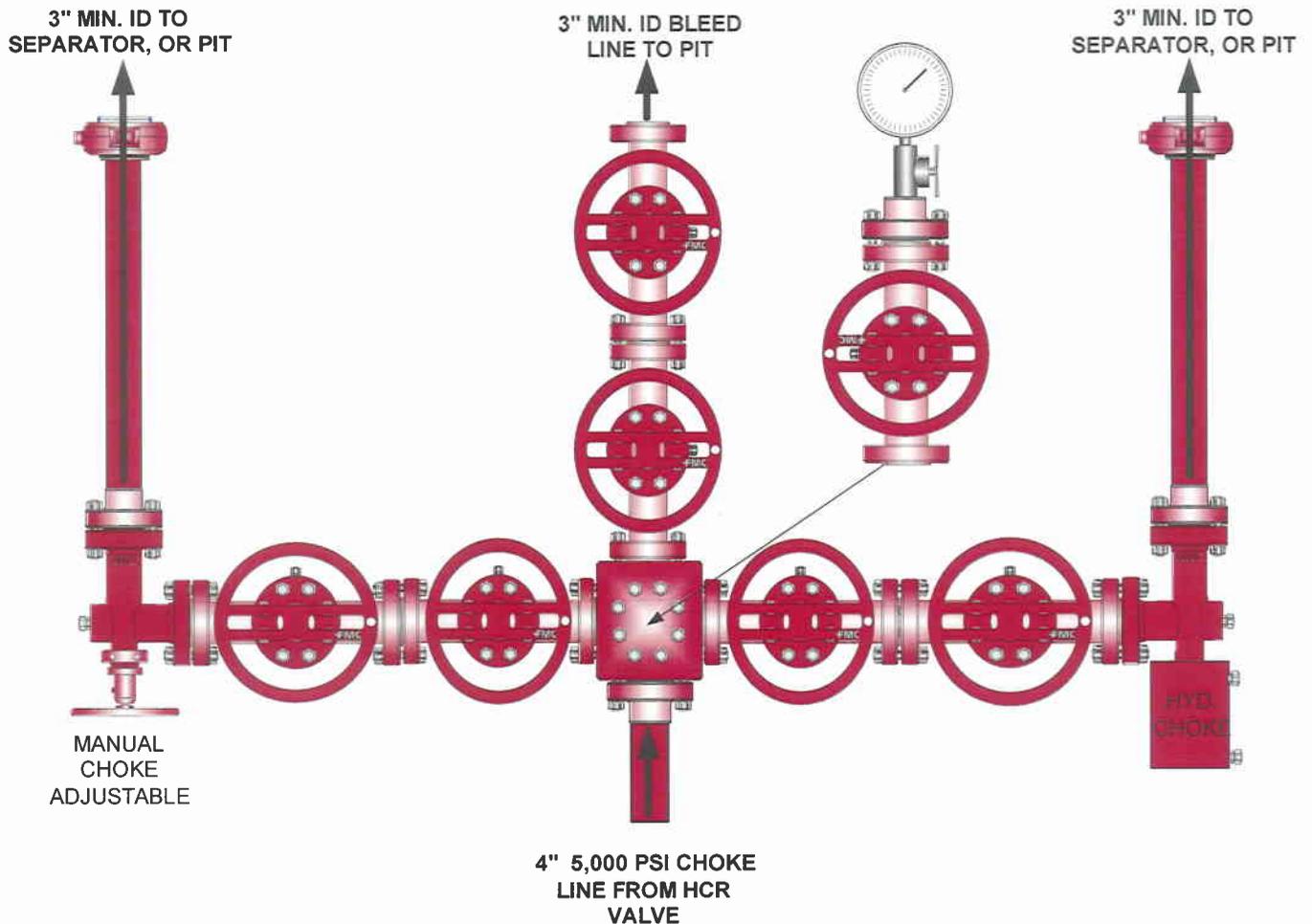
(Attachment: BOP Schematic Diagram)

**EOG RESOURCES 11" 5,000 PSI W.P. BOP CONFIGURATION**



**EOG RESOURCES CHOKE MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

PAGE 2 OF 2



**Testing Procedure:**

1. BOP will be tested with a professional tester to conform to Onshore Order #2.
2. Blind and Pipe rams will be tested to rated working pressure, 5,000 psi.
3. Annular Preventer will be tested to 50% working pressure, 2,500 psi.  
Casing will be tested to 0.22 psi / ft. or 1,500 psi. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be tested to the same pressure as blind and pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements.



***Natural Buttes Unit 633-12E  
NWNE, Section 12, T10S, R22E  
Uintah County, Utah***

***SURFACE USE PLAN***

***1. EXISTING ROADS:***

- A. See attached 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 54.8 miles south 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.

***2. PLANNED ACCESS ROAD:***

- A. The access road will be approximately 110' in length. See attached Topo B.
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade of the new access road will be 8 percent.
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No 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.
- I. A 40-foot permanent right-of-way is requested. No surfacing material will used.
- J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

All travel will be confined to existing access road rights-of-way.

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

The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, 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 40 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 crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

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

Traveling off the 40 foot right-of-way will not be allowed. The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, Third Edition, and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction. During the drilling and production phase of operations, the road surface and shoulders will be kept in a safe and useable condition and drainage ditches and culverts will be kept clear and free flowing.

**3. LOCATION OF EXISTING WELLS WITHIN A ONE-MILE RADIUS:**

See attached TOPO map "C" for the location of wells within a one-mile radius.

**4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION 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 wellhead valves, combo separator-dehy unit with meter, two (2) 400 bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

**B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. The length of the proposed pipeline is 736' x 40'. The proposed pipeline leaves the northern edge of the well pad (Lease U-01197-A-ST) proceeding in a southerly direction for an approximate distance of 736' tying into an existing pipeline in the SWNE of Section 12, T10S, R22E (Lease U-01197-A-ST). Pipe

will be 4" NOM, 0.156 wall, Grade X42, Zap-Lock, electric weld with a 35 mil X-Tru coating.

4. Proposed pipeline will be a 4" OD steel, zap-lok line laid on the surface
5. Proposed pipeline will be laid on surface.
6. A 20-foot permanent pipeline right-of-way is requested. A 40-foot temporary pipeline right-of-way for construction purposes is requested, the temporary right-of-way will be utilized for a 10-day period.
7. Pipeline will be coupled using the Zap lock method. No additional off-pad facilities will be required.

All permanent (on site for six months or longer) structures constructed or installed (including pumping units) will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within 6 months of installation. **All facilities will be painted with Carlsbad Canyon.** Facilities required to comply with O.S.H.A. (Occupational Safety and Health Act) will be excluded.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

- A. Water supply will be from Ouray Municipal Water Plant at Ouray, Utah, and/ or Bonanza Power Plant water source in Sec 26, T8S, R23E Uintah County, UT (State Water Right # 49-225(A31368)). Water will be hauled by a licensed trucking company.
- B. Water will be hauled by a licensed trucking company.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIALS:**

- A. All construction material for this pipeline 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 locations: Natural Buttes Unit 21-20B SWD, Ace Disposal, CWU 550-30N SWD 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 by 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. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

The reserve pit shall be lined with felt and a 16 millimeter plastic liner. Sufficient bedding (i.e. weed free straw, or hay; felt; polyswell or soil) to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. More stringent protective requirements may be deemed necessary by the A.O.

EOG Resources, Inc. maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be found at the site may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/ stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous and EHS and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing or completion of the well.

**8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE 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.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

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

The stockpiled pit topsoil (first six inches) will be stored between corners #2 and #8, and corners #7 and #8. Upon completion of construction, the stockpiled topsoil from the location will be broadcast seeded with the approved seed mixture from this location and then walked down with a Caterpillar tractor.

Access to the well pad will be from the west.

**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 distances 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 location. Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and, upon completion of construction, the fence shall be repaired to BLM or SMA specifications. A cattleguard with an adjacent 16 foot gate shall be installed in any fence where a road is regularly traveled. If the well is a producer, the cattleguards (shall/shall not) be permanently counted on concrete bases. Prior to crossing any fence located on Federal land, or any fence between Federal land and private land, the operator will contact the BLM, who will in turn contact the grazing permittee or owner of said fence and offer him/her the opportunity to be present when the fence is cut in order to satisfy himself/herself that the fence is adequately braced and tied off.

#### **10. PLANS FOR RECLAMATION OF THE SURFACE:**

##### **A. Interim Reclamation (Producing Location)**

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

The stockpiled pit topsoil will then be spread over the pit area and broadcast seeded with the prescribed seed mixture for this location. The seeded area will then be walked down with a cat.

##### **B. Dry Hole/Abandoned Location**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment and the BLM will attach the appropriated surface rehabilitation conditions of approval.

#### **11. SURFACE OWNERSHIP:**

Surface ownership of the proposed well site, access road, and pipeline route is as follows:

**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 Authorized Officer. Within five working days the Authorized Officer 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 Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer 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 Authorized Officer 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 Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.

- B. As operator, EOG Resources, Inc. will control noxious weeds along Right-of-Ways for roads, pipelines, well sites, or other applicable facilities. A list of noxious weeds will be obtained from the BLM administered land, a Pesticide Use proposal shall be submitted, and given approval, prior to the application of herbicides or other pesticides or possible hazardous chemicals.
- C. Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on BLM lands after the conclusion of drilling operations or at any other time without BLM authorization. However, if BLM authorization is obtained, it is only a temporary measure to allow time to make arrangements for permanent storage on commercial facilities. (The BLM does not seek to compete with private industry. There are commercial facilities available for stacking and storing drilling rigs.)
- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/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 approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for

Drill” will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Construction activity will not be conducted using frozen or saturated soils material or during periods when watershed damage is likely to occur.

If the existing access road, proposed access road, and proposed pad are dry during construction, drilling, and completion activities, water will be applied to help facilitate compaction during construction and to minimize soil loss as a result of wind erosion.

A Cultural Resources survey will be conducted and submitted by Montgomery Archaeological Consultants. A Paleontological survey will be conducted and submitted by Intermountain Paleo.

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

**PERMITTING AGENT**

Kaylene R. Gardner  
EOG Resources, Inc.  
P.O. Box 1815  
Vernal, Ut 84078  
(435) 781-9111

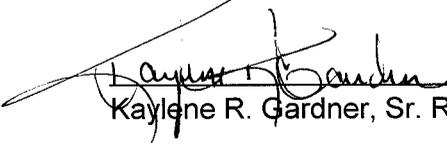
All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved plan of operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. 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 drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this 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. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that EOG Resources, Inc. is considered to be the operator of the Natural Buttes Unit 633-12E Well, located in the NWNE, of Section 12, T10S, R22E, Uintah County, Utah; State land and minerals; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is under Bond # NM 2308.

April 5, 2007  
Date

  
Kaylene R. Gardner, Sr. Regulatory Assistant

# EOG RESOURCES, INC.

## NBU #633-12E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 12, T10S, R22E, S.L.B.&M.

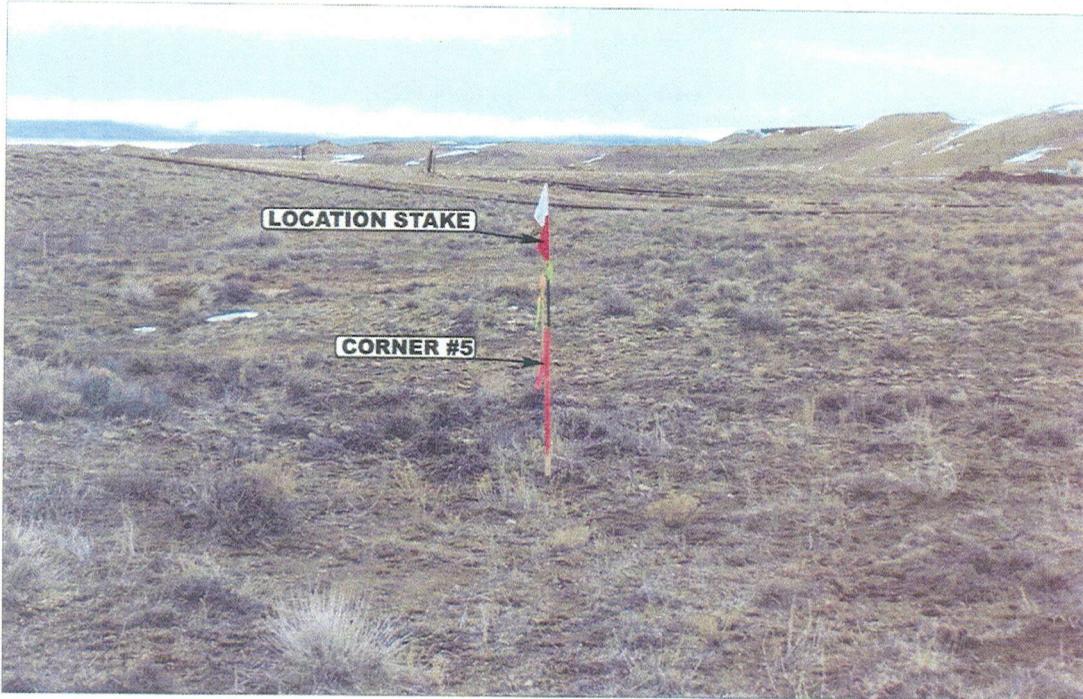


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY

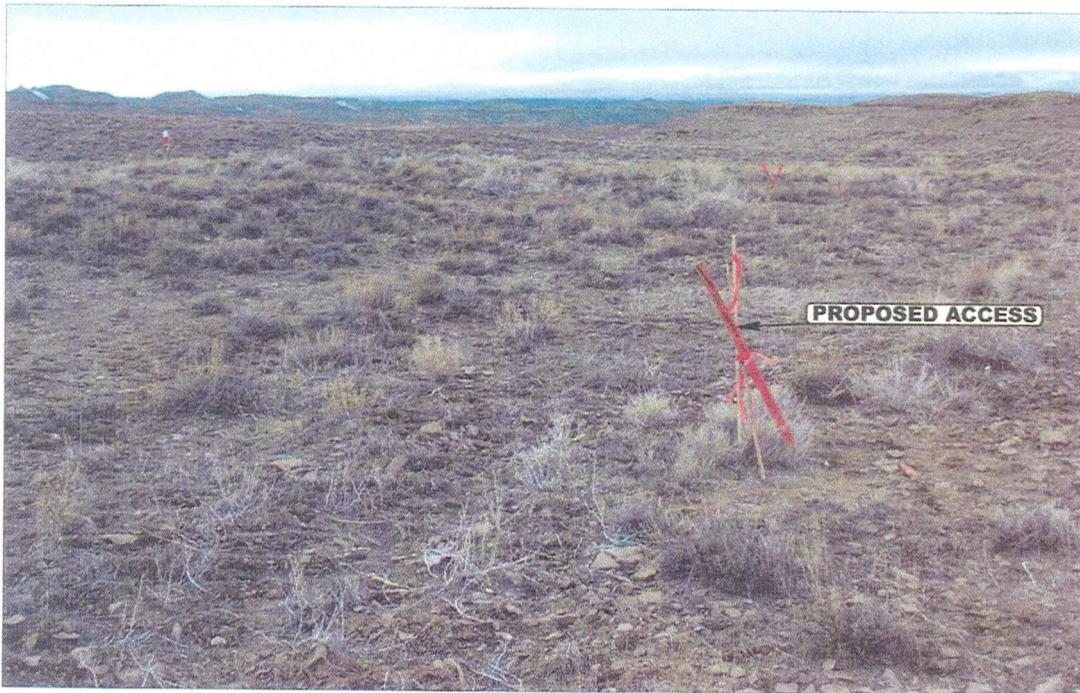


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHWESTERLY



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

- Since 1964 -

LOCATION PHOTOS

02 27 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: G.S.

DRAWN BY: C.P.

REVISED: 00-00-00

EOG RESOURCES, INC.  
NBU #633-12E  
SECTION 12, T10S, R22E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 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 1.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 5.7 MILES TO THE BEGINNING OF THE PROPOSED ROAD RE-ROUTE FOR THE #513-12E TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 70' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 110' TO THE PROPOSED LOCATION.

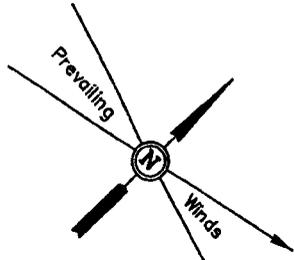
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 54.8 MILES.

EOG RESOURCES, INC.

LOCATION LAYOUT FOR

NBU #633-12E  
SECTION 12, T10S, R22E, S.L.B.&M.  
789' FNL 2179' FEL

FIGURE #1



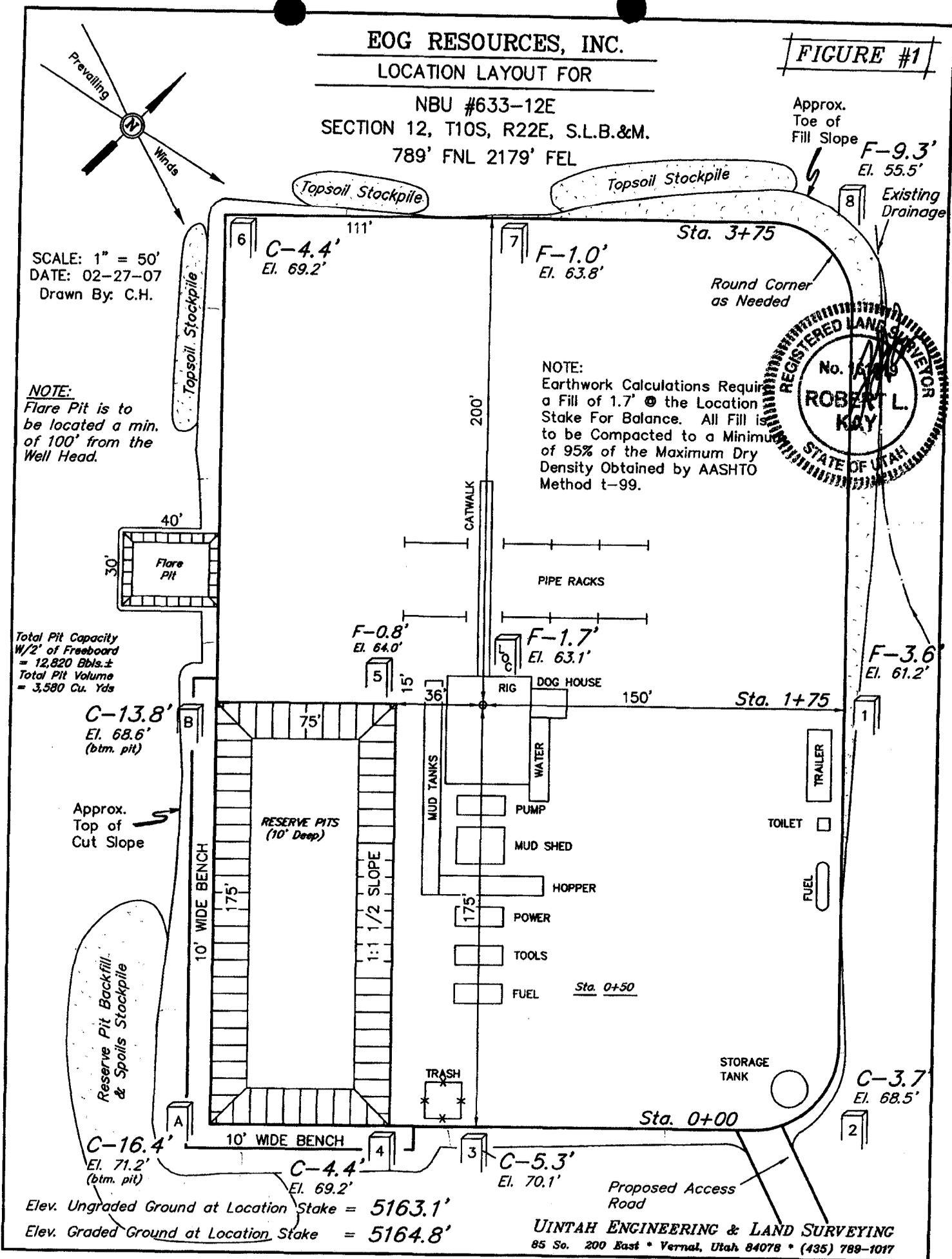
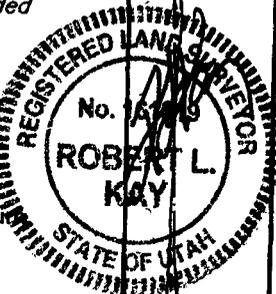
Approx. Toe of Fill Slope  
F-9.3'  
El. 55.5'  
Existing Drainage

SCALE: 1" = 50'  
DATE: 02-27-07  
Drawn By: C.H.

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

Total Pit Capacity  
W/2' of Freshboard  
= 12,820 Bbls.±  
Total Pit Volume  
= 3,580 Cu. Yds

NOTE:  
Earthwork Calculations Require a Fill of 1.7' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.



Elev. Ungraded Ground at Location Stake = 5163.1'  
Elev. Graded Ground at Location Stake = 5164.8'

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

EOG RESOURCES, INC.

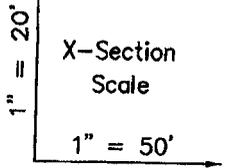
FIGURE #2

TYPICAL CROSS SECTIONS FOR

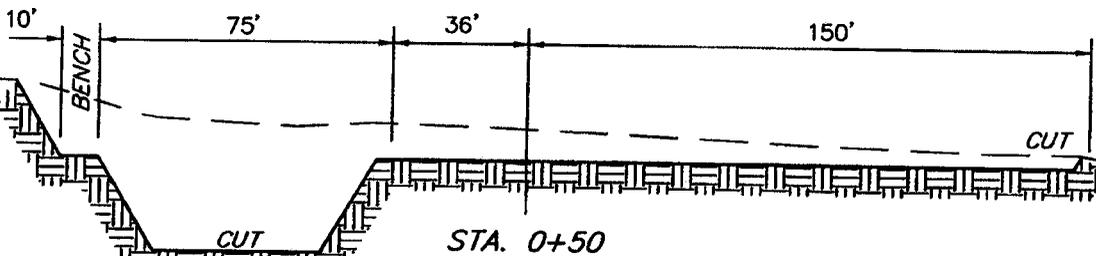
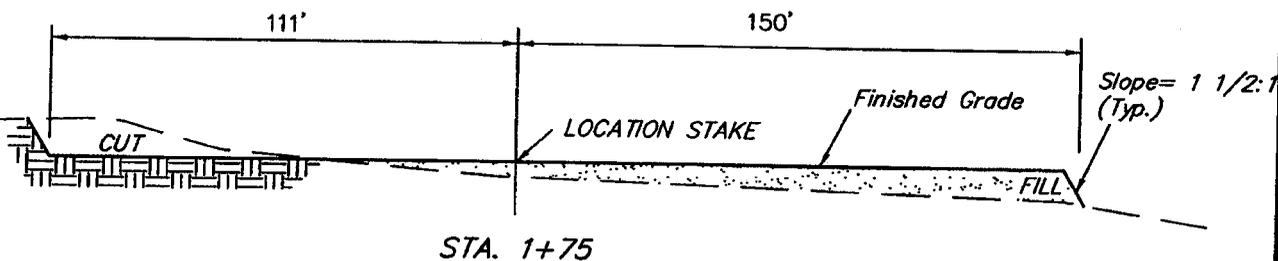
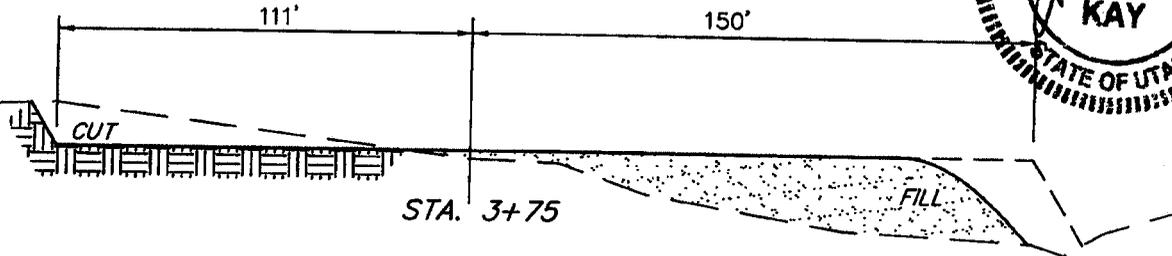
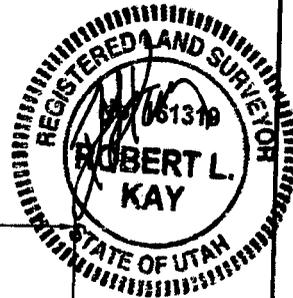
NBU #633-12E

SECTION 12, T10S, R22E, S.L.B.&M.

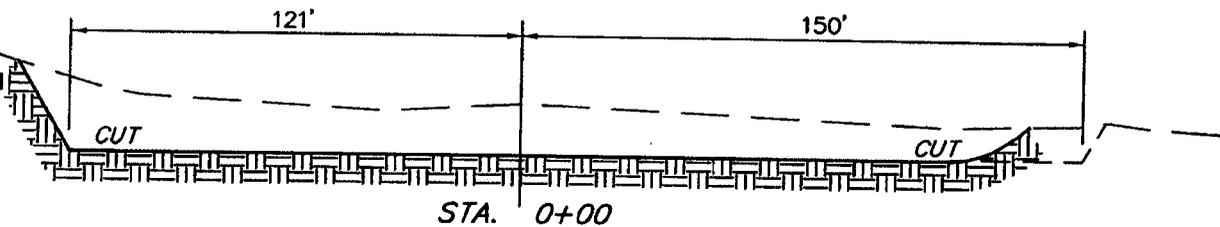
789' FNL 2179' FEL



DATE: 02-27-07  
Drawn By: C.H.



Preconstruction Grade



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,100 Cu. Yds.
Remaining Location	= 8,860 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 10,960 CU.YDS.</b>
<b>FILL</b>	<b>= 7,070 CU.YDS.</b>

EXCESS MATERIAL	= 3,890 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,890 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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EOG RESOURCES, INC.

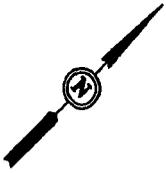
LOCATION LAYOUT FOR

NBU #633-12E

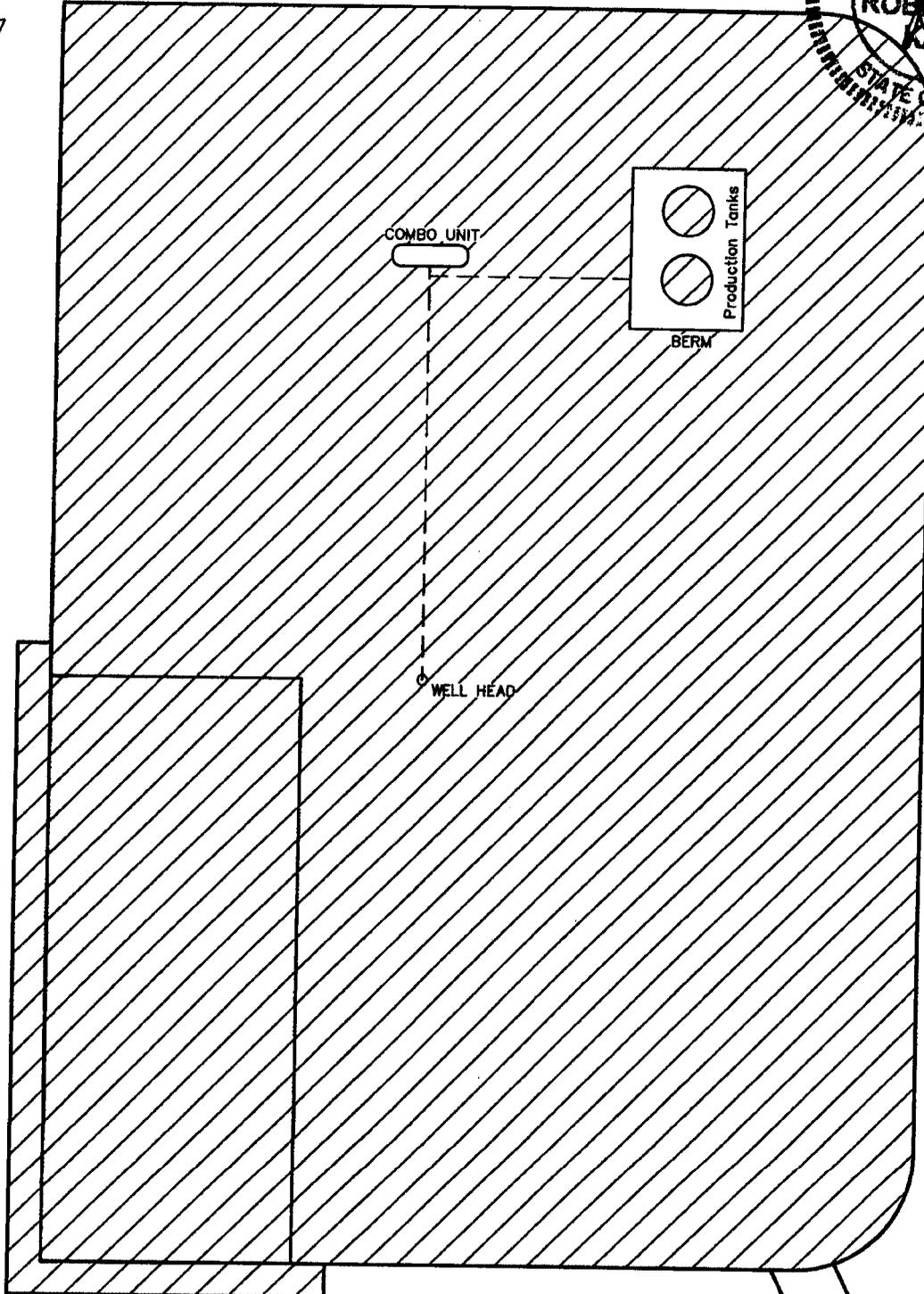
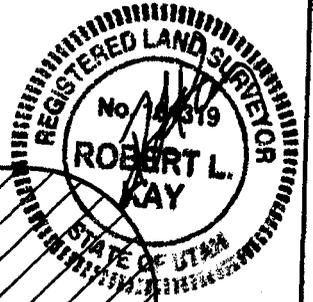
SECTION 12, T10S, R22E, S.L.B.&M.

789' FNL 2179' FEL

FIGURE #3



SCALE: 1" = 50'  
DATE: 02-27-07  
Drawn By: C.H.

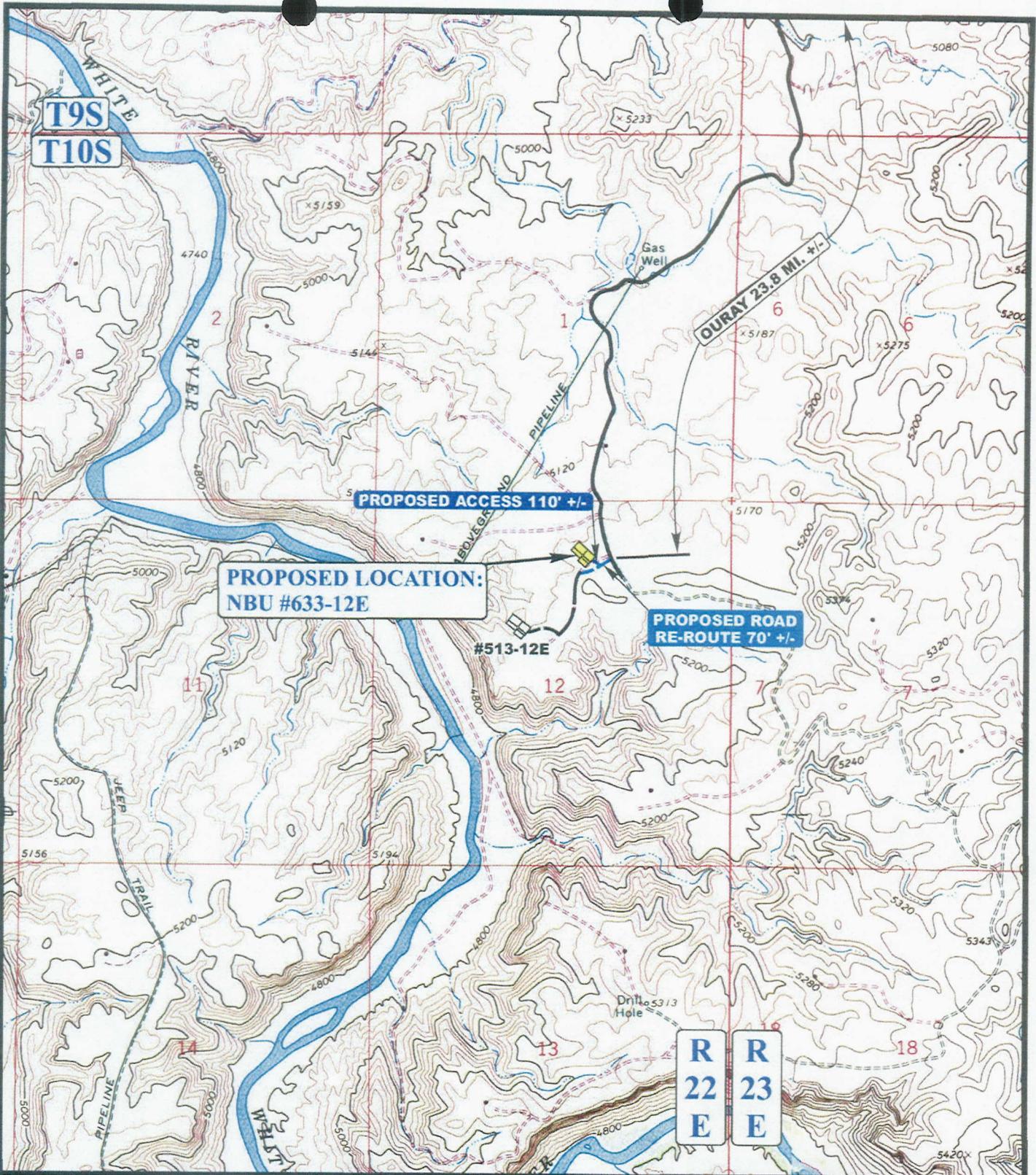


 RE-HABED AREA

Proposed Access Road

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





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  PROPOSED ROAD RE-ROUTE

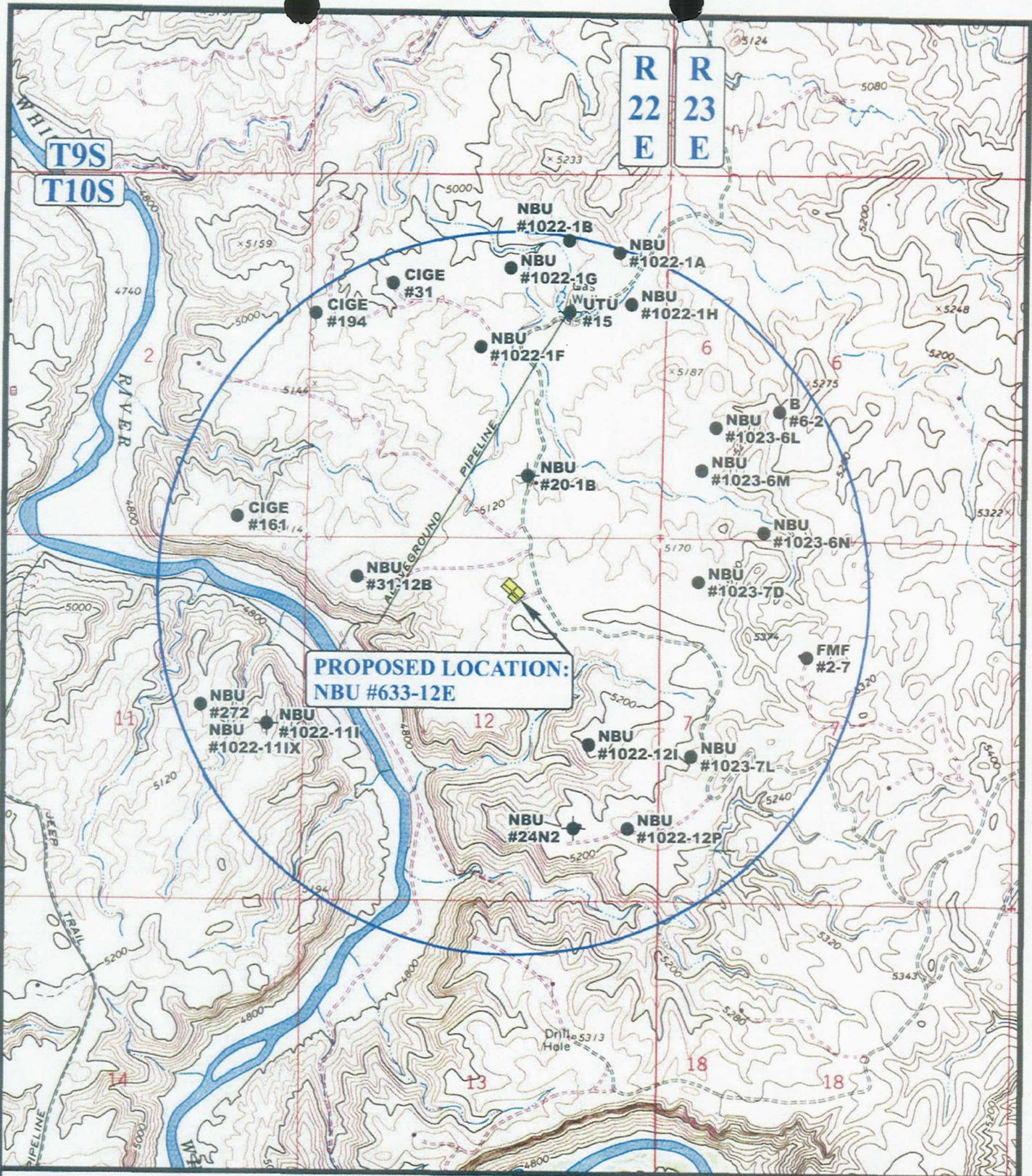


**EOG RESOURCES, INC.**

NBU #633-12E  
 SECTION 12, T10S, R22E, S.L.B.&M.  
 789' FNL 2179' FEL

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

**TOPOGRAPHIC MAP** 02 27 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00 **B**  
 TOPO



**PROPOSED LOCATION:  
NBU #633-12E**

**LEGEND:**

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

**EOG RESOURCES, INC.**

**NBU #633-12E  
SECTION 12, T10S, R22E, S.L.B.&M.  
789' FNL 2179' FEL**



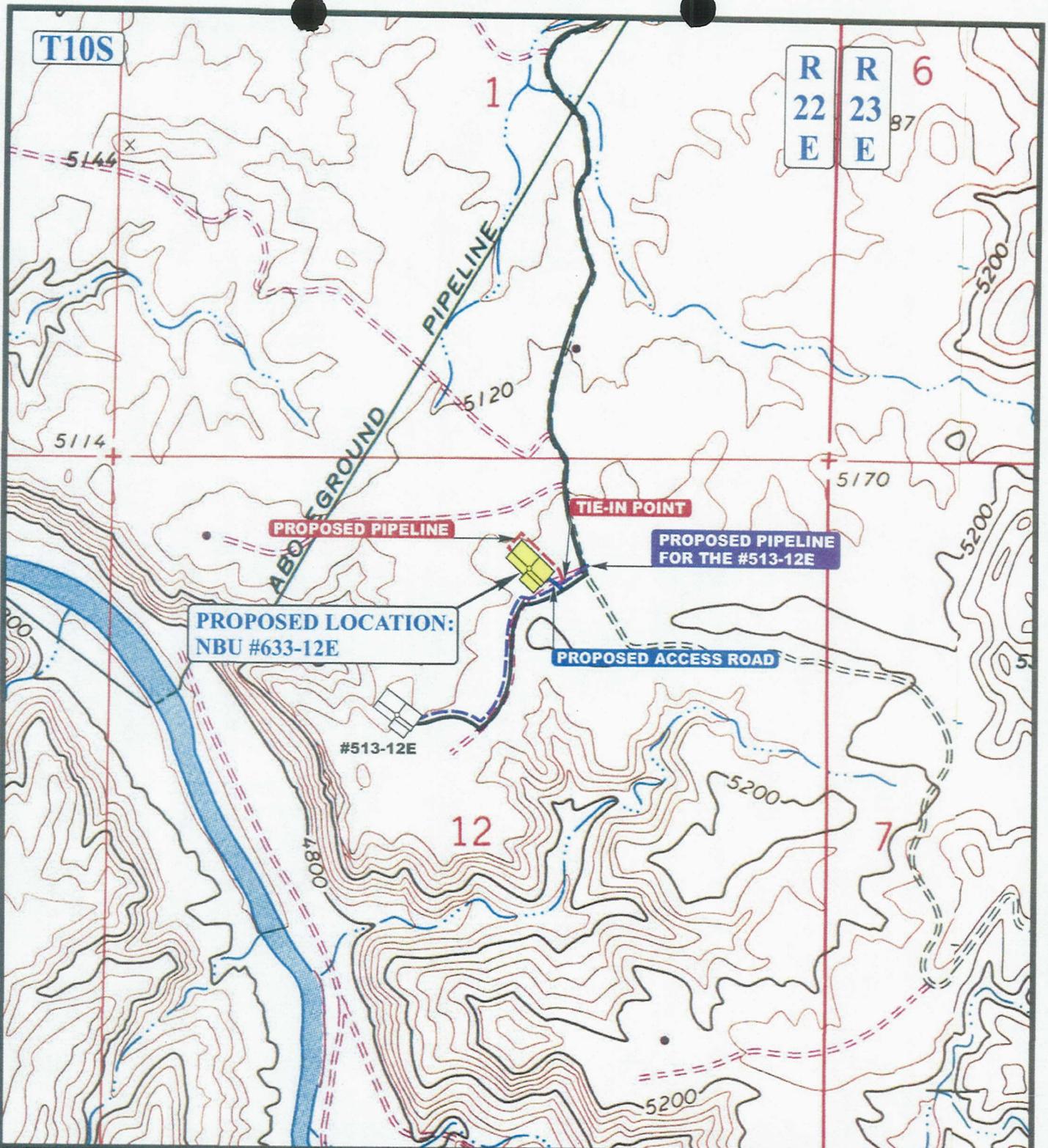
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** 02 27 07  
MONTH DAY YEAR

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





APPROXIMATE TOTAL PIPELINE DISTANCE = 736' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE
-  PROPOSED PIPELINE (SERVICING OTHER WELLS)

**EOG RESOURCES, INC.**

NBU #633-12E  
 SECTION 12, T10S, R22E, S.L.B.&M.  
 789' FNL 2179' FEL



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

**TOPOGRAPHIC MAP** 02 27 07  
 MONTH DAY YEAR

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



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/09/2007

API NO. ASSIGNED: 43-047-39193

WELL NAME: NBU 633-12E

OPERATOR: EOG RESOURCES INC ( N9550 )

PHONE NUMBER: 435-781-9111

CONTACT: KAYLENE GARDNER

PROPOSED LOCATION:

NWNE 12 100S 220E  
 SURFACE: 0789 FNL 2179 FEL  
 BOTTOM: 0789 FNL 2179 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.96850 LONGITUDE: -109.3860  
 UTM SURF EASTINGS: 627838 NORTHINGS: 4425306  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	5/16/07
Geology		
Surface		

LEASE TYPE: 3 - State

LEASE NUMBER: U-01197-A-ST

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 3 - State

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 6196017 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-225 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_ R649-2-3.
- Unit: NATURAL BUTTES *br*
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 17314  
Eff Date: 12-2-000  
Siting: 400' fr u/drg & u/nim. Tract
- \_\_\_ R649-3-11. Directional Drill

COMMENTS:

*Needs Permit (04-24-07)*

STIPULATIONS:

- 1- STATEMENT OF BASIS
- 2- OIL SHALE
- 3- Surface Csg Cont step
- 4- Cont step #3 (4 1/2" production, 2000' MO)

T10S R22E

T10S R23E

NBU 31-12B

NBU 634-12E

NBU 632-12E

NBU 633-12E

NBU 548-12E

NBU 513-12E

NBU 635-12E

NBU 636-12E

12

BONANZA 1023-7E

### NATURAL BUTTES FIELD NATURAL BUTTES UNIT

CAUSE: 173-14 / 12-2-1999

NBU 1022-12I

NBU 24N2

NBU 1022-12P

BHL 1022-12I

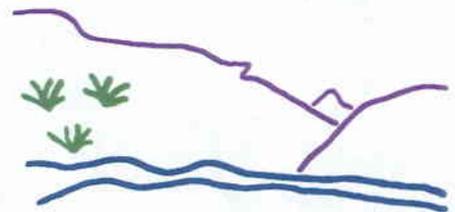
OPERATOR: EOG RESOURCES INC (N9550)

SEC: 12 T.10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 11-APRIL-2007

#### Wells Status

- ⊗ 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
- ⊗ DRILLING

#### Field Status

- ⬜ ABANDONED
- ⬜ ACTIVE
- ⬜ COMBINED
- ⬜ INACTIVE
- ⬜ PROPOSED
- ⬜ STORAGE
- ⬜ TERMINATED

#### Unit Status

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

# Application for Permit to Drill

## Statement of Basis

5/1/2007

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
371	43-047-39193-00-00		GW	S	No
<b>Operator</b>	EOG RESOURCES INC	<b>Surface Owner-APD</b>			
<b>Well Name</b>	NBU 633-12E	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NWNE 12 10S 22E S 789 FNL 2179 FEL GPS Coord (UTM) 637838E 4425306N				

### Geologic Statement of Basis

EOG proposes to set 2,300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,600'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the proposed location. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of discontinuous sands interbedded with shales and is not expected to produce prolific aquifers. The production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole. The proposed casing and cement program should adequately protect usable ground water in the area.

Brad Hill  
APD Evaluator

5/1/2007  
Date / Time

### Surface Statement of Basis

The general area is in the east end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 35 air miles and 55 road miles to the northwest. The area is accessed by Utah State, Uintah County and oilfield development Roads to within 110 feet of the location where a new road will be constructed.

The proposed Natural Buttes Unit 633-12E gas well begins on the south edge of a rocky knob below an existing road and parallels the road in an east to west direction. Topography has a slight slope to the north. A shallow swale intersects the location but will not need to be diverted.

Both the surface and minerals for this location are owned by SITLA. Ed Bonner of SITLA attended the pre-site visit and expressed no concerns regarding the proposed location.

The location appears to be the best site for constructing and operating a well in the immediate area.

Floyd Bartlett  
Onsite Evaluator

4/24/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** EOG RESOURCES INC  
**Well Name** NBU 633-12E  
**API Number** 43-047-39193-0      **APD No** 371      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 NWNE      **Sec** 12      **Tw** 10S      **Rng** 22E      789 FNL 2179 FEL  
**GPS Coord (UTM)** 637847      4425305      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Ed Bonner (SITLA), Byron Tolman (Agent for EOG Resources) and Daniel Emmet (UDWR).

### Regional/Local Setting & Topography

The general area is in the east end of the Natural Buttes Unit, which contains the White River and short rugged drainages that drain into the White River. Topography is varied and frequently dissected by short draws or washes, which become overly steep as they approach the White River breaks or rim. Distance to the White River varies from ¼ mile to 2 miles. The side drainages are dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. Vernal, Utah is approximately 35 air miles and 55 road miles to the northwest. The area is accessed by Utah State, Uintah County and oilfield development Roads to with 110 feet of the location where a new road will be constructed.

The proposed Natural Buttes Unit 633-12E gas well begins on the south edge of a rocky knob below an existing road and parallels the road in an east to west direction. Topography has a slight slope to the north. A shallow swale intersects the location but will not need to be diverted.

Both the surface and minerals for this location are owned by SITLA.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlife Habitat

#### **New Road**

Miles	Well Pad	Src Const Material	Surface Formation
0.01	Width 276	Length 375	Onsite
			UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate? Y

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

#### **Flora / Fauna**

Sparse vegetation composed of Gardner saltbrush, prickly pear, halogeton, greasewood, horsebrush, lomatium, larkspur, Indian paint brush, broom snakeweed, six-week fescue and spring annuals.

Antelope, coyote, small mammals and birds. Winter domestic sheep grazing

#### **Soil Type and Characteristics**

Shallow rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	<b>Final Score</b>	<b>30 1 Sensitivity Level</b>

**Characteristics / Requirements**

The reserve pit is proposed on the southeast portion of the location within an area of cut. Dimensions are 75' x 175' x 10' deep. A liner is required. EOG customarily uses a 16 mil liner with an appropriate thickness of sub-felt to cushion the liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 16 Pit Underlayment Required? Y

**Other Observations / Comments**

Daniel Emmet represented the Utah Division of Wildlife Resources. Mr. Emmet stated the area is classified as critical yearlong habitat for antelope. He however recommended no stipulations for this species as the loss of forage from this location is not significant and water not forage is the factor limiting the herd population in the area. No other wildlife is expected to be affected. He gave Byron Tolman, representing EOG Resources, and Mr. Bonner copies of his evaluation and a DWR recommended seed mix to use when re-vegetating the area.

Floyd Bartlett  
Evaluator

4/24/2007  
Date / Time

Casing Schematic

Surface

BHP  $0.052(7101)10.5 = 3877 \text{ psi}$   
anticipate 3880 psi

Gas  $0.12(7101) = 852$   
 $3877 - 852 = 3025 \text{ psi, MASP}$

BOPE 5M ✓

Burst 3520  
70% 2464 psi

9-5/8"  
MW 8.4  
Frac 19.3

Max P @ surf. shoe  
 $.22(4801) = 1056$   
 $3877 - 1056 = 2821 \text{ psi}$

test to 2464 ✓

Stop cmts. ✓

✓ Adequate DAD 5/16/07

4-1/2"  
MW 10.5

12 1/2"  
18 1/2"

Uinta

TOC @ 801. to surf w/6% w/o  
Propose TOC @ surface ✓  
\* Stop  
-1189' Green River

2167 TOC w/2% w/o  
Surface 2300. MD  
Propose TOC @ 2100'  
Calcs based on gauge hole  
\* Stop ✓

TOC @ 3305.  
3600' ± BMSW  
3673 Tail @ gauge

-4134' Wasatch

-4613 Tail @ 12 1/2"  
-4690 Chapita Well

-5330' Buck Canyon

-6090' North Horn

-6418' KMU Prize River

Production  
7101. MD

Well name:

**2007-05 EOG NBU 633-12E**

Operator: **EOG Resources Inc.**

String type: **Surface**

Project ID:

**43-047-39193**

Location: **Uintah County**

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 2,024 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,300 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: 2,014 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 107 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 290 ft

Cement top: 801 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 7,101 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 3,873 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,300 ft  
Injection pressure: 2,300 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	2300	9.625	36.00	J-55	ST&C	2300	2300	8.796	998.3

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	1004	2020	2.013	2300	3520	1.53	73	394	5.43 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: May 8, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2300 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

**2007-05 EOG NBU 633-12E**

Operator: **EOG Resources Inc.**

String type: **Production**

Project ID:  
43-047-39193

Location: **Uintah County**

**Design parameters:**

**Collapse**

Mud weight: 10.500 ppg  
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 2,311 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,873 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: 5,986 ft

**Environment:**

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 174 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 3,305 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 (ft³)
1	7101	4.5	11.60	N-80	LT&C	7101	7101	3.875	619.7
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	3873	6350	1.639	3873	7780	2.01	69	223	3.21 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Minerals

Phone: 801-538-5357  
FAX: 801-359-3940

Date: May 8, 2007  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7101 ft, a mud weight of 10.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 6/7/2007 4:43 PM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil

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

Enduring Resources, LLC

Coyote Basin 8-25-11-16 (API 43 047 39189)

EOG Resources, Inc

NBU 635-12E (API 43 047 39190)

NBU 636-12E (API 43 047 39191)

NBU 632-12E (API 43 047 39192)

NBU 633-12E (API 43 047 39193)

NBU 634-12E (API 43 047 39194)

Kerr McGee Oil & Gas Onshore LP

NBU 1022-25B (API 43 047 39032)

NBU 1022-25G (API 43 047 39142)

NBU 1021-31A (API 43 047 39111)

State 1021-31M (API 43 047 39112)

State 1021-31E (API 43 047 39113)

State 1021-31D (API 43 047 39114)

State 1021-31C (API 43 047 39115)

NBU 1021-31B (API 43 047 39116)

State 1021-31P (API 43 047 39117)

State 1021-31L (API 43 047 39118)

State 1021-31N (API 43 047 39119)

State 1021-31O (API 43 047 39120)

State 1021-31I (API 43 047 39121)

State 1021-31J (API 43 047 39122)

State 1021-31K (API 43 047 39123)

State 1021-31F (API 43 047 39124)

State 1021-31G (API 43 047 39125)

State 1021-31H (API 43 047 39126)

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



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**

MICHAEL R. STYLER  
Executive Director

**Division of Oil Gas and Mining**

JOHN R. BAZA  
Division Director

June 12, 2007

EOG Resources, Inc.  
1060 East Highway 40  
Vernal, UT 84078

Re: Natural Buttes Unit 633-12E Well, 789' FNL, 2179' FEL, NW NE, Sec. 12, T. 10 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 43-047-39193.

Sincerely,

Gil Hunt  
Associate Director

er  
Enclosures

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



**Operator:** \_\_\_\_\_ EOG Resources, Inc.  
**Well Name & Number** \_\_\_\_\_ Natural Buttes Unit 633-12E  
**API Number:** \_\_\_\_\_ 43-047-39193  
**Lease:** \_\_\_\_\_ U 01197-A-ST

**Location:** NW NE      **Sec.** 12      **T.** 10 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 action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

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

- Dan Jarvis at:           (801) 538-5338 office           (801) 942-0873 home
- Carol Daniels at:       (801) 538-5284 office
- Dustin Doucet at:      (801) 538-5281 office           (801) 733-0983 home

#### 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. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. 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.
7. Surface casing shall be cemented to the surface.
8. Cement volume for the 4 1/2" production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to  $\pm 2100'$  MD as indicated in the submitted drilling plan.



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

FORM 6

**ENTITY ACTION FORM**

Operator: EOG Resources, Inc. Operator Account Number: N 9550  
 Address: 600 17th St., Suite 1000N  
city Denver  
state CO zip 80202 Phone Number: (303) 824-5526

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-39193	Natural Buttes Unit 633-12E		NWNE	12	10	22E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	4/13/2008		4/24/08		
Comments: <u>Wasatch/Mesaverde well</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

**ACTION CODES:**

- 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)

Mary A. Maestas

Name (Please Print)

Signature

Regulatory Assistant

Title

4/14/2008

Date

**RECEIVED**

APR 14 2008

(5/2000)

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UO-01197-A-ST</b>
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
			7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
1. TYPE OF WELL <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____			8. WELL NAME and NUMBER: <b>Natural Buttes Unit 633-12E</b>
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>			9. API NUMBER: <b>43-047-39193</b>
3. ADDRESS OF OPERATOR: <b>600 17th St., Suite 1000N</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		PHONE NUMBER: <b>(303) 824-5526</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch/Mesaverde</b>
4. LOCATION OF WELL			
FOOTAGES AT SURFACE: <b>789' FNL &amp; 2179' FEL 39.968522 LAT 109.386614 LON</b>			COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 12 10S 22E S</b>			STATE: <b>UTAH</b>

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

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

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

The referenced well spud on 4/13/2008.

NAME (PLEASE PRINT) <u>Mary A. Maestas</u>	TITLE <u>Regulatory Assistant</u>
SIGNATURE <u>Mary A. Maestas</u>	DATE <u>4/14/2008</u>

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**RECEIVED**  
**APR 17 2008**  
DIV. OF OIL, GAS & MINING

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UO-01197-A-ST</b>
		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.		
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 633-12E</b>
3. ADDRESS OF OPERATOR: 600 17th St., Suite 1000N    CITY: Denver    STATE: CO    ZIP: 80202		9. API NUMBER: <b>43-047-39193</b>
PHONE NUMBER: <b>(303) 824-5526</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch/Mesaverde</b>
4. LOCATION OF WELL		
FOOTAGES AT SURFACE: <b>789' FNL &amp; 2179' FEL 39.968522 LAT 109.386614 LON</b>		COUNTY: <b>Uintah</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 12 10S 22E S</b>		STATE: <b>UTAH</b>

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

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

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. Chapita Wells Unit 550-30N SWD
3. Chapita Wells Unit 2-29 SWD
4. Red Wash Evaporation ponds 1, 2, 3 & 4
5. RN Industries

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

**RECEIVED  
APR 17 2008  
DIV. OF OIL, GAS & MINING**

NAME (PLEASE PRINT) <u>Mary A. Maestas</u>	TITLE <u>Regulatory Assistant</u>
SIGNATURE <u>Mary A. Maestas</u>	DATE <u>4/14/2008</u>

(This space for State use only)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UO-01197-A-ST</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 633-12E</b>
3. ADDRESS OF OPERATOR: <b>600 17th St., Suite 1000N</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>43-047-39193</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>789' FNL &amp; 2179' FEL 39.968522 LAT 109.386614 LON</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch/Mesaverde</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 12 10S 22E S</b>		COUNTY: <b>Uintah</b> STATE: <b>UTAH</b>

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

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

The referenced well was turned to sales on 6/23/2008. Please see the attached operations summary report for drilling and completion operations performed on the subject well.

NAME (PLEASE PRINT) <u>Mary A. Maestas</u>	TITLE <u>Regulatory Assistant</u>
SIGNATURE <u>Mary A. Maestas</u>	DATE <u>6/24/2008</u>

(This space for State use only)

**RECEIVED**  
**JUN 27 2008**  
**DIV. OF OIL, GAS & MINING**

## WELL CHRONOLOGY REPORT

Report Generated On: 06-24-2008

<b>Well Name</b>	NBU 633-12E	<b>Well Type</b>	DEVG	<b>Division</b>	DENVER
<b>Field</b>	NATURAL BUTTES	<b>API #</b>	43-047-39193	<b>Well Class</b>	1SA
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	04-25-2008	<b>Class Date</b>	06-23-2008
<b>Tax Credit</b>	N	<b>TVD / MD</b>	7,101/7,101	<b>Property #</b>	061452
<b>Water Depth</b>	0	<b>Last CSG</b>	2.375	<b>Shoe TVD / MD</b>	0/0
<b>KB / GL Elev</b>	5,178/ 5,165				
<b>Location</b>	Section 12, T10S, R22E, NWNE, 789 FNL & 2179 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL & COMPLETE		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	66.667	<b>NRI %</b>	48.062

<b>AFE No</b>	304698	<b>AFE Total</b>	1,343,100	<b>DHC / CWC</b>	657,700/ 685,400
<b>Rig Contr</b>	ELENBURG	<b>Rig Name</b>	ELENBURG #28	<b>Start Date</b>	07-11-2007
<b>07-11-2007</b>	<b>Reported By</b>	SHARON CAUDILL			
<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
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06:00	06:00	24.0	LOCATION DATA
			789' FNL & 2179' FEL (NW/NE)
			SECTION 12, T10S, R22E
			UINTAH COUNTY, UTAH

LAT 39.968522, LONG 109.386614 (NAD 83)  
LAT 39.968556, LONG 109.385933 (NAD 27)

ELENBURG #28  
OBJECTIVE: 7101' TD, WASATCH  
DW/GAS  
NATURAL BUTTES PROSPECT  
DD&A: NATURAL BUTTES  
NATURAL BUTTES FIELD

LEASE: U-01197-A-ST  
ELEVATION: 5163.1' NAT GL, 5164.8' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 5165'), 5178' KB (13')

EOG WI 66.666667%, NRI 48.061643%

03-17-2008      Reported By      TERRY CSERE

<b>Daily Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Daily Total</b>	\$38,000
<b>Cum Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	START LOCATION CONSTRUCTION.

03-18-2008 Reported By TERRY CSERE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 10% COMPLETE.

03-19-2008 Reported By TERRY CSERE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 20% COMPLETE.

03-20-2008 Reported By TERRY CSERE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 25% COMPLETE.

03-24-2008 Reported By TERRY CSERE

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$38,000	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,000
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 30% COMPLETE.

03-25-2008 Reported By TERRY CSERE







04-15-2008 Reported By TERRY CSERE

Daily Costs: Drilling \$0 Completion \$0 Daily Total \$0  
 Cum Costs: Drilling \$38,000 Completion \$0 Well Total \$38,000

MD 60 TVD 60 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBT D : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: BUILD LOCATION/WO AIR RIG

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION COMPLETE.

04-24-2008 Reported By JERRY BARNES

Daily Costs: Drilling \$180,334 Completion \$0 Daily Total \$180,334  
 Cum Costs: Drilling \$218,334 Completion \$0 Well Total \$218,334

MD 2,292 TVD 2,292 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBT D : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU CRAIGS AIR RIG # 3 ON 4/16/2008. DRILLED 12-1/4" HOLE TO 2340' GL. ENCOUNTERED WATER @ 1380'. RAN 53 JTS (2279.90') OF 9-5/8", 36.0#, J-55, ST&C CASING WITH HALLIBURTON GUIDE SHOE AND FLOAT COLLAR. 8 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT AND EVERY COLLAR TILL GONE. LANDED @ 2292' KB. RDMO AIR RIG.  MIRU HALLIBURTON CEMENTERS. PRESSURE TESTED LINES AND CEMENT VALVE TO 2000 PSIG. PUMPED 176 BBLs FRESH WATER & 20 BBLs GELLED WATER FLUSH AHEAD OF CEMENT. MIXED & PUMPED 300 SX (63 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.6 PPG W/YIELD OF 1.18 CFS.  DISPLACED CEMENT W/ 173 BBLs FRESH WATER. BUMPED PLUG W/750# @ 4:44 AM, 4/20/2008. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE. NO RETURNS.  TOP JOB # 1: MIXED & PUMPED 100 SX (20.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 3 HRS 30 MINUTES.  TOP JOB # 2: MIXED & PUMPED 100 SX (20.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 3 HRS.  TOP JOB # 3: MIXED & PUMPED 122 SX (25 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 1 DAY. RDMO HALLIBURTON CEMENTERS.  TOP JOB # 4: MIRU HALLIBURTON CEMENTERS. MIXED & PUMPED 44 SX (13 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED & STOOD FULL. RDMO HALLIBURTON CEMENTERS.  PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY. NO SURVEY AT THIS TIME.  CONDUCTOR LEVEL RECORD: PS= 89.8 OPS= 89.9 VDS= 89.9 MS= 89.9.  9 5/8 CASING LEVEL RECORD: PS= 89.9 OPS= 89.8 VDS= 89.7 MS= 89.9.  KYLAN COOK NOTIFIED DAVE HACKFORD W/UDOGM & JAMIE SPARGER W/BLM OF THE SURFACE CASING & CEMENT JOB ON 4/18/2008 @ 9:50 AM.

04-25-2008 Reported By D. FOREMAN / J. SCHLENKER

Daily Costs: Drilling \$59,484 Completion \$0 Daily Total \$59,484  
 Cum Costs: Drilling \$277,818 Completion \$0 Well Total \$277,818

MD 2,450 TVD 2,450 Progress 217 Days 1 MW 0.0 Visc 0.0

Formation : PBT D : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING @ 2450'

Start	End	Hrs	Activity Description
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06:00 13:00 7.0 RIG MOVE .5 MILES FROM NBU 632-12E. HOWCROFT TRUCKS ARRIVE 06:00, SAFETY MTG. W/ HOWCRAFT & RIG PERSONNEL,RIG DOWN, MOVE & RIG UP, SET BOP, TEST DTO HEAD AND LOCK DOWN BOP W/ FMC REP. (NOTIFIED STATE OF UTAH @ 02:00 ON 4/23/08, DAVE HACKFORD BY E-MAIL OF RIG MOVE AND BOP TEST, ESTIMATED 03:00 4/25/08). RELEASED TRUCKS @ 12:00

13:00 19:00 6.0 NU BOP. RIG ON DAY WORK @ 13:00, 4/24/08.

19:00 23:00 4.0 RECEIVING PIT WATER, MIX LIME, RIG UP B&C QUICK TEST & TEST BOP, PIPE RAMS, BLIND RAMS, ALL KILL LINE VALVES, CHOKE LINE & MANIFOLD,HCR, UPPER & LOWER KELLY VALVES,SAFETY VALVE, DART VALVE, ALL TO 250 PSI LOW & 5000 PSI HIGH, ANNULAR 250 PSI LOW 2500 HIGH,SURFACE CSG.1500 PSI - GOOD TEST. WITNESS: RAY MINER, B&C QUICK TEST.  
LOAD RACKS AND STRAP BHA,

23:00 03:00 4.0 P/U BHA & D/P TRIP IN AND TAG @ 2190'

03:00 04:00 1.0 DRILLED FLOAT EQUIPMENT & CEMENT + 11' OF NEW HOLE.

04:00 05:00 1.0 CIRCULATE HOLE CLEAN, SPOT HI-VIS PILL, PERFORMED FIT TO 10.5 EMW, RAN SURVEY- 3 DEGREES.

05:00 06:00 1.0 DRILLING FROM 2233' TO 2450', 217' ROP 217, WOB,18/20,RPM,57/72,TQ,2430,  
MUD LOSS LAST 24 HRS. 0 BBLS.  
MUD WT.8.5,  
  
ACCIDENTS NONE REPORTED  
FUNCTION CROWN-O-MATIC,  
SAFETY MEETING:PU BHA,  
CREWS FULL  
FUEL ON HAND: , GALS.4942 USED: 450, GALS.  
MUD LOGGER UNMANED ON LOCATION F/ 4/24/08

06:00 06:00 24.0 SPUD 7 7/8" HOLE @ 05:00 HRS, 4/25/08.

04-26-2008 Reported By D. FOREMAN / J. SCHLENKER

<b>Daily Costs: Drilling</b>	\$33,312	<b>Completion</b>	\$0	<b>Daily Total</b>	\$33,312						
<b>Cum Costs: Drilling</b>	\$311,130	<b>Completion</b>	\$0	<b>Well Total</b>	\$311,130						
<b>MD</b>	4.846	<b>TVD</b>	4.846	<b>Progress</b>	2,396	<b>Days</b>	2	<b>MW</b>	8.7	<b>Visc</b>	30.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

Activity at Report Time: DRILLING @ 4846'

Start	End	Hrs	Activity Description
06:00	15:30	9.5	DRILLING F/ 2450' TO 3488', 1034';ROP,109',WOB,20,RPM 55/72,T/ 2340/2560,
15:30	16:00	0.5	SERVICE & SURVEY 2 DEGREES @3453
16:00	06:00	14.0	DRILLING F/ 3488' TO 4846', 1358',ROP,97',WOB,20,RPM,55/72,T/ 2320/2540, MUD LOSS LAST 24 HRS. 0 BBLS. MUD WT.9.1 VIS 31 ACCIDENTS NONE REPORTED FUNCTION CROWN-O-MATIC, SAFETY MEETING: PPE / BAD LOCATIONS CREWS FULL FUEL ON HAND: , GALS.4137 USED: 805, GALS. MUD LOGGER UNMANED ON LOCATION, 4/24/08

04-27-2008 Reported By D. FOREMAN / J. SCHLENKER

Daily Costs: Drilling \$30,266 Completion \$0 Daily Total \$30,266  
 Cum Costs: Drilling \$341,396 Completion \$0 Well Total \$341,396

MD 6,275 TVD 6,275 Progress 1,429 Days 3 MW 8.8 Visc 32.0

Formation : PBTD : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING AT 6275'

Start	End	Hrs	Activity Description
06:00	14:30	8.5	DRILLING F/ 4846' TO 5435', 589', ROP, 69.2, WOB, 20, RPM, 45/72, TQ, 2450/2500.
14:30	15:00	0.5	SERVICE RIG.
15:00	06:00	15.0	DRILLING F/ 5435' TO 6275', ROP 56, WOB 20/22, RPM 54/72, TQ 2200/2500. SURVEY @ 6253' - 1 DEGREE MUD LOSS LAST 24 HRS. 0 BBLS. MUD WT. 9.8 VIS. 34, ROT 140, P/U 148, S/O 135, ACCIDENTS NONE REPORTED FUNCTION CROWN-O-MATIC, & TEST SAFETY MEETING: FORKLIFT OPERATION, CREWS FULL FUEL ON HAND: 2962, GALS. USED: 491 FORMATION TOP: NORTH HORN GAS BG. 40 U, LITHOLOGY: SAND/ SHALE, MUD LOGGER UNMANNED ON LOCATION F/ 4/24/08 (4 DAYS).

04-28-2008 Reported By D. FOREMAN / J. SCHLENKER

Daily Costs: Drilling \$34,209 Completion \$0 Daily Total \$34,209  
 Cum Costs: Drilling \$375,605 Completion \$0 Well Total \$375,605

MD 7,101 TVD 7,101 Progress 826 Days 4 MW 9.9 Visc 31.0

Formation : PBTD : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: TD AT 7101' / LDDP

Start	End	Hrs	Activity Description
06:00	15:00	9.0	DRILLING FROM 6275' TO 6748', 473', ROP, 52.5, WOB, 20, RPM, 50/72, TQ, 2439/2530.
15:00	15:30	0.5	SERVICE RIG.
15:30	23:00	7.5	DRILLING F/ 6748' TO TD - 7101', ROP 353', WOB 21, RPM 50/72, TQ 2200/2500. REACHED TD @ 23:00 HRS, 4/27/08.
23:00	01:00	2.0	CIRC. CLEAN
01:00	02:30	1.5	WIPER TRIP
02:30	03:30	1.0	CIRC COND. MUD. SPOT 130 BBL 11.5 PPG MUD = 11.0 EMW
03:30	06:00	2.5	L/D DRILL PIPE

04-29-2008 Reported By D. FOREMAN / J. SCHLENKER

Daily Costs: Drilling \$66,360 Completion \$117,151 Daily Total \$183,511  
 Cum Costs: Drilling \$441,966 Completion \$117,151 Well Total \$559,117

MD 7,101 TVD 7,101 Progress 0 Days 5 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RDRT/WO COMPLETION

Start	End	Hrs	Activity Description
06:00	11:30	5.5	LAY DOWN DRILL PIPE & BHA, TIGHT F/ 2800 TO 2400 BACK REAM, NOTIFIED STATE OF UTAH F/ RIG MOVE AND BOP TEST DAVID HACKFORD 4-27-08
11:30	12:00	0.5	RECOVER WEAR BUSHING,
12:00	12:30	0.5	SAFETY MEETING W/ CALIBER AND RIG CREW. & RIG UP TO RUN CASING 4 1/2.
12:30	19:00	6.5	RUN CASING 4 1/2 .RAN 175 JTS. + 1 MKR JT. 11.6#, N80, LTC, AS FOLLOWS, FLOAT SHOE, 1JT.CSG. ,FLOAT COLLAR, 82 JTS. CSG., 1 MARJER JT., 92 JTS.CSG. & DTO CASING HANGER ASS. FLOAT SHOE @ 7095' FLOAT COLLAR @ 7052', MARKER JT. @ 3727',TOP, 15 CENTRALIZERS, 5 FT. ABOVE SHOE, TOP OF JT #2 & EVERY 3 RD. JT.
19:00	20:00	1.0	TAG @ 7101', LAY DOWN TAG JT. PICK UP DTO HANGER SPACE OUT. LAND CASING, W/ FULL STRING WT. 63,000. FILL CSG. W/ RIG PUMP, CIRC. R/D CALIPER.
20:00	22:00	2.0	SAFETY MEETING W/ SCHLUMBERGER & RIG CREW, RIG UP SCHLUMBERGER. TEST LINES TO 5000 PSI, PUMP 20 BBLs CHEM WASH & 20 BBLs WATER SPACER AHEAD & CEMENT.7095' 4 1/2 N80 11.6# LTC CSG., LEAD CEMENT - 220 SKS.G + ADDS MIX - D020 - 10% EXTENDER, D167 .2% FLUID LOSS, D046 .2% ANTIFOAM, D013 .5% RETARDER, D065 .5% DISPERSANT, D130 .125%LB/SK BLEND LOST CIRC. YIELD 2.98 FT3/SK, 18.227 GAL/SK @ 11.5 PPG., 116.7 BBLs TAIL CEMENT - 1020 SKS 50/50 POZ G + ADDS - D020 2% EXTENDER, D046 .1% ANTIFOAM, D167 .2% FLUID LOSS, D065 .2% DISPERSANT, S001 1.0% ACCELERATOR, YIELD 1.29 FT3/SK 5.941 GAL/SK @ 14.1 PPG. , 243.3 BBLs. END TAIL WASH UP LINES.DROP PLUG @ 21:30. DISP. TO FLOAT COLLER W/FRESH WATER.110 BBLs. AVG. DISP. RATE 5.5. BPM, FULL RETURNS THROUGH OUT JOB. LIFT PRESS. 1592 PSI. BUMPED PLUG TO 2778 PSI @ 21:52 F/3 MINS. FLOAT HELD,2.BBL. BACK @ 21:55 CEMENT IN PLACE.
22:00	23:00	1.0	WAIT ON CEMENT & RIG DOWN SCHLUMBERGER.
23:00	00:00	1.0	REMOVE CEMENT HEAD & LANDING JT. INSTALL SEAL ASS.W/ FMC REP.TEST TO 5000 PSI, GOOD TEST. UNLOCK BOP F/ RIG MOVE.
00:00	03:00	3.0	CLEAN MUD TANKS.
03:00	06:00	3.0	RIG DOWN PREPARE F/ TRUCKS, KUHR TRUCKING TO BE ON LOCATION @ 06:00 AM F/ MOVE TO NBU 635-12E  ACCIDENTS NONE REPORTED FUNCTION CROWN-O-MATIC, SAFETY MEETING: CEMENTING & RUN CASING CREWS FULL FUEL ON HAND: 2102 GALS. CASING POINT COST \$ 430,722.00 RIG RELEASE COST \$ 434,887.00
06:00	06:00	24.0	RELEASE RIG @ 03:00 HRS, 4/29/08. CASING POINT COST \$441,966

05-04-2008 Reported By MCCURDY

Daily Costs: Drilling	\$0	Completion	\$42,697	Daily Total	\$42,697						
Cum Costs: Drilling	\$441,966	Completion	\$159,848	Well Total	\$601,814						
MD	7,101	TVD	7,101	Progress	0	Days	6	MW	0.0	Visc	0.0
Formation :	PBTB : 7052.0		Perf :	PKR Depth : 0.0							

**Activity at Report Time: WO COMPLETION**

Start	End	Hrs	Activity Description
06:00	06:00	24.0	2-MAY-2008 MIRU SCHLUMBERGER. LOG WITH RST/CBL/CCL/VDL/GR FROM PBTD TO 250'. EST CEMENT TOP @ 460'. RD SCHLUMBERGER.

NU 10M FRAC TREE. PRESSURE TESTED FRAC TREE & CASING TO 6500 PSIG. WO COMPLETION.

05-20-2008		Reported By	MCCURDY								
<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$226,956	<b>Daily Total</b>	\$226,956						
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$386,804	<b>Well Total</b>	\$828,771						
<b>MD</b>	7,101	<b>TVD</b>	7,101	<b>Progress</b>	0	<b>Days</b>	7	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation : MESAVERDE / WASATCH</b>		<b>PBTD : 7095.0</b>		<b>Perf : 4796'-6919'</b>			<b>PKR Depth : 0.0</b>				

**Activity at Report Time: PREP TO MIRUSU**

Start	End	Hrs	Activity Description
06:00	06:00	24.0	RU CUTTERS WIRELINE & PERFORATE UPR FROM 6993'-94', 6698'-99', 6756'-57', 6763'-64', 6775'-76', 6779'-80', 6789'-90', 6832'-33', 6836'-37', 6912'-13', 6917'-19' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, 3102 GAL WF120 LINEAR PAD, 6318 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 34525 GAL YF116ST+ WITH 122800# 20/40 SAND @ 1-4 PPG. MTP 6076 PSIG. MTR 50.9 BPM. ATP 4234 PSIG. ATR 47.8 BPM. ISIP 2830 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 6650'. PERFORATE UPR FROM 6487'-88', 6528'-29', 6534'-35', 6538'-39', 6554'-55', 6562'-64', 6597'-98', 6611'-12', 6618'-19', 6622'-23', 6626'-27' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, 1022 GAL WF120 LINEAR PAD, 6322 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 29171 GAL YF116ST+ WITH 101900# 20/40 SAND @ 1-4 PPG. MTP 5979 PSIG. MTR 50.8 BPM. ATP 4105 PSIG. ATR 47.2 BPM. ISIP 2450 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 6425'. PERFORATE NORTH HORN FROM 6169'-70', 6184'-85', 6191'-92', 6202'-03', 6223'-24', 6286'-87', 6299'-300', 6316'-17', 6372'-73', 6389'-90', 6394'-95', 6407'-08' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, 2057 GAL WF120 LINEAR PAD, 6309 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 47721 GAL YF116ST+ WITH 163700# 20/40 SAND @ 1-4 PPG. MTP 6231 PSIG. MTR 50.9 BPM. ATP 4015 PSIG. ATR 48.3 BPM. ISIP 2250 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 6125'. PERFORATE UPR FROM 5735'-36', 5745'-46', 5750'-51', 5880'-81', 5911'-12', 5967'-68', 5990'-92', 5996'-97', 6049'-50', 6073'-74', 6099'-100' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, NO PAD, 6329 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 36557 GAL YF116ST+ WITH 98600# 20/40 SAND @ 1-4 PPG. MTP 6361 PSIG. MTR 50.8 BPM. ATP 4550 PSIG. ATR 46 BPM. ISIP 2000 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 5690'. PERFORATE UPR FROM 5345'-46', 5375'-76', 5383'-84', 5402'-03', 5422'-23', 5524'-25', 5576'-77', 5582'-83', 5588'-89', 5605'-06', 5640'-41', 5669'-70' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, NO PAD, 6342 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 29824 GAL YF116ST+ WITH 104000# 20/40 SAND @ 1-4 PPG. MTP 6183 PSIG. MTR 51.3 BPM. ATP 3788 PSIG. ATR 46.9 BPM. ISIP 1600 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 5300'. PERFORATE UPR FROM 5055'-56', 5108'-09', 5128'-29', 5142'-43', 5160'-61', 5205'-06', 5241'-42', 5257'-58', 5269'-70', 5276'-78' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, NO PAD, 6341 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 29174 GAL YF116ST+ WITH 101500# 20/40 SAND @ 1-4 PPG. MTP 6045 PSIG. MTR 51.5 BPM. ATP 3555 PSIG. ATR 46.7 BPM. ISIP 1650 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CFP AT 4890'. PERFORATE UPR FROM 4796'-98', 4800'-02', 4809'-10', 4814'-16', 4820'-22', 4825'-26', 4862'-64' @ 3 SPF @ 120° PHASING. RDWL. RU SCHLUMBERGER, FRAC DOWN CASING WITH 165 GAL GYPTRON T-106, 0 GAL PAD, 6330 GAL WF120 LINEAR W/1# & 1.5# 20/40 SAND, 29189 GAL YF116ST+ WITH 91980# 20/40 SAND @ 1-4 PPG. MTP 5980 PSIG. MTR 51.5 BPM. ATP 3452 PSIG. ATR 47.8 BPM. ISIP 2200 PSIG. RD SCHLUMBERGER.

RUWL. SET 6K CBP AT 4719'. RD CUTTERS WIRELINE. SDFN.

**05-21-2008**      **Reported By**      HISLOP

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$21,650	<b>Daily Total</b>	\$21,650
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$408,454	<b>Well Total</b>	\$850,421

**MD**      7,101    **TVD**      7,101    **Progress**      0    **Days**      8    **MW**      0.0    **Visc**      0.0

**Formation :** MESAVERDE /      **PBTD :** 7095.0      **Perf :** 4796'-6919'      **PKR Depth :** 0.0  
 WASATCH

**Activity at Report Time:** CLEAN OUT AFTER FRAC

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SICP 0 PSIG. MIRUSU. ND TREE. NU BOP. RIH W/BIT & PUMP OFF SUB TO 4719'. RU TO DRILL PLUGS. SDFN.

**05-22-2008**      **Reported By**      HISLOP

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$37,469	<b>Daily Total</b>	\$37,469
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$445,923	<b>Well Total</b>	\$887,890

**MD**      7,101    **TVD**      7,101    **Progress**      0    **Days**      9    **MW**      0.0    **Visc**      0.0

**Formation :** MESAVERDE /      **PBTD :** 7095.0      **Perf :** 4796'-6919'      **PKR Depth :** 0.0  
 WASATCH

**Activity at Report Time:** FLOW TEST

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SICP 0 PSIG. CLEANED OUT & DRILLED OUT PLUGS @ 4719', 4890', 5300', 5690', 6125', 6425', & 6650'. RIH CLEANED OUT TO 7030'. LANDED TUBING @ 6907' KB. ND BOP. NU TREE. PUMPED OFF BIT & SUB. RDMOSU.

FLOWED 17 HRS. 32/64" CHOKE. FTP 275 PSIG. CP 180 PSIG. 56 FPH. RECOVERED 1130 BLW. 6370 BLWTR.

**TUBING DETAIL    LENGTH**

PUMP OFF BIT SUB    0.91'  
 1 JT 2-3/8" 4.7# N-80 TBG (YB)    32.65'  
 XN NIPPLE    1.30'  
 211 JTS 2-3/8" 4.7# N-80 TBG (YB)      6858.69'  
 BELOW KB    13.00'  
 LANDED @    6906.55' KB

**05-23-2008**      **Reported By**      HISLOP

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$6,226	<b>Daily Total</b>	\$6,226
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$452,149	<b>Well Total</b>	\$894,116

**MD**      7,101    **TVD**      7,101    **Progress**      0    **Days**      10    **MW**      0.0    **Visc**      0.0

**Formation :** MESAVERDE /      **PBTD :** 7095.0      **Perf :** 4796'-6919'      **PKR Depth :** 0.0  
 WASATCH

**Activity at Report Time:** FLOW TEST

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED 24 HRS. 32/64" CHOKE. FTP 450 PSIG. CP 1200 PSIG. 48 FPH. RECOVERED 1246 BLW. 5124 BLWTR.

05-24-2008      Reported By      HISLOP

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$4,202	<b>Daily Total</b>	\$4,202
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$456,351	<b>Well Total</b>	\$898,318

<b>MD</b>	7,101	<b>TVD</b>	7,101	<b>Progress</b>	0	<b>Days</b>	11	<b>MW</b>	0.0	<b>Visc</b>	0.0
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**Formation :** MESAVERDE /      **PBTD :** 7095.0      **Perf :** 4796'-6919'      **PKR Depth :** 0.0  
WASATCH

**Activity at Report Time:** WAITING ON PRODUCTION FACILITIES

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOWED 17 HRS. 24/64 FTP 600 PSIG. CP 1600 PSIG. 36 FPH. RECOVERED 560 BLW. 4564 BLWTR. SWI. @ 10:00 PM. UNABLE TO HAUL PIT WATER OUT. WAITING ON PRODUCTION FACILITIES.

FINAL COMPLETION DATE 05/23/08.

06-24-2008      Reported By      DUANE COOK

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$4,202	<b>Daily Total</b>	\$4,202
<b>Cum Costs: Drilling</b>	\$441,966	<b>Completion</b>	\$460,553	<b>Well Total</b>	\$902,520

<b>MD</b>	7,101	<b>TVD</b>	7,101	<b>Progress</b>	0	<b>Days</b>	12	<b>MW</b>	0.0	<b>Visc</b>	0.0
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**Formation :** MESAVERDE /      **PBTD :** 7095.0      **Perf :** 4796'-6919'      **PKR Depth :** 0.0  
WASATCH

**Activity at Report Time:** INITIAL PRODUCTION-FIRST GAS SALES

Start	End	Hrs	Activity Description
06:00	06:00	24.0	INITIAL PRODUCTION: TURNED TO GAS SALES. SITP 1000 & SICP 2000 PSIG. TURNED WELL TO KERR-MAGEE METER #985655 AT 9:30 AM, 6/23/08. FLOWING 300 MCFD RATE ON 14/64" POS CK. STATIC 308.

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: UO-01197-A-ST
2. NAME OF OPERATOR: EOG Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1060 East Highway 40 Vernal UT 84078		7. UNIT or CA AGREEMENT NAME: Natural Buttes Unit
PHONE NUMBER: (435) 781-9145		8. WELL NAME and NUMBER: Natural Buttes Unit 633-12E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 789' FNL & 2179' FEL 39.968522 LAT 109.386614 LON QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NWNE 12 10S 22E S		9. API NUMBER: 43-047-39193
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Natural Buttes/Wasatch/Mesaverde
STATE: UTAH		

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

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

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

Attached please find a site facility diagram.

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

NAME (PLEASE PRINT) <u>Mickenzie Thacker</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u>Mickenzie Thacker</u>	DATE <u>7/23/2008</u>

(This space for State use only)

**RECEIVED**  
**JUL 25 2008**

# Geogresources Site Facility Diagram



**Well Name: NATURAL BUTTES UNIT 633-12**  
**1/4 1/4: NW/NE Sec: 12 T: 10S R: 22E**  
**County: UINTAH State: UTAH**  
**Lease: UO-01197-A-ST**  
**UNIT/PA#: 891008900A**

Site facility diagrams & site security plans are located at the Vernal office in Vernal, Utah. The office is located at 1060 East Hwy 40 and normal business hours are 7:00 a.m. to 4:30 p.m. Mon -Thurs and 7:00 a.m. to 1:00 p.m. Fridays.

Valve	Production Phase	Sales Phase	Water Drain
PV	O	SC	SC
LV	SC	O	SC
WD	SC	SC	O

DATED 7/23/2008

## Abbreviations

AM= Allocation Meter  
 AR = Access Road  
 CHT = Chemical Tank  
 COMP = Compressor  
 CON = Condensor  
 CT = Condensate Tank  
 DL = Dump Line  
 EP = Electrical Panel  
 ET = Emergency Tank  
 FW = Firewall  
 LACT = LACT Unit  
 LH = Line Heater  
 LV = Load Valve  
 MAN = Manifold  
 MB = Methanol Bath  
 O = Open  
 PL = Production Line  
 PP = Power Pole  
 PT = Propane Tank  
 PU = Pumping Unit  
 PV = Production Valve  
 PW = Produced Water  
 RL = Recycle Line  
 RP = Recycle Pump  
 RV = Recycle Valve  
 SC = Sealed Closed  
 SGS = Sales Gas Scrubber  
 SL = Sales Line  
 SM = Sales Meter  
 SO = Sealed Open  
 SP = Separator  
 SV = Sales Valve  
 T = Treater  
 TP = Trace Pump  
 WD = Water Drain  
 WDP = Water Disposal Pump  
 WFP = Water Flood Pump  
 WH = Wellhead

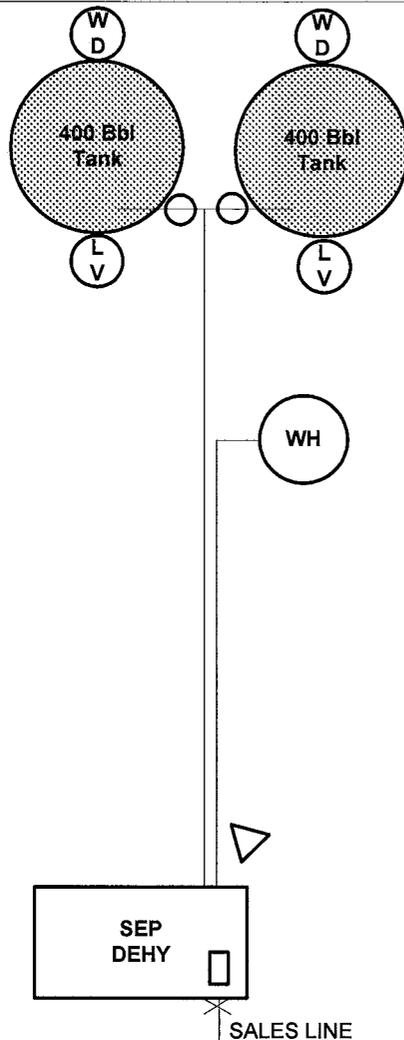
----- = Buried Line  
 \_\_\_\_\_ = Unburied Line

◁ = Meter Display

□ = Meter Tube

○ = Production Valve

× = Valve



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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**U-01197-A-ST**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME  
**Natural Buttes Unit**

8. WELL NAME and NUMBER:  
**Natural Buttes Unit 633-12E**

9. API NUMBER:  
**43-047-39193**

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

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**NWNE 12 10S 22E S**

12. COUNTY  
**Uintah**

13. STATE  
**UTAH**

14. DATE SPUNDED: **4/13/2008**

15. DATE T.D. REACHED: **4/27/2008**

16. DATE COMPLETED: **6/23/2008** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5163' NAT GL**

18. TOTAL DEPTH: MD **7,101** TVD

19. PLUG BACK T.D.: MD **7,095** TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**RST/CBL/CCL/DL/GR**

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	0	2,292		666			
7-7/8	4-1/2 N-80	11.6	0	7,095		1240			

**RECEIVED**  
**JUL 28 2008**

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	6,907							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) Wasatch/Mesaverde	4,796	6,919			6,693 6,919		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)					6,487 6,627		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)					6,169 6,408		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)					5,735 6,100		3	Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

27. PERFORATION RECORD

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6693-6919	44,110 GALS GELLED WATER & 122,800# 20/40 SAND
6487-6627	36,680 GALS GELLED WATER & 101,900# 20/40 SAND
6169-6408	56,252 GALS GELLED WATER & 163,700# 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**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 6/23/2008	TEST DATE: 6/30/2008	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 2	GAS – MCF: 549	WATER – BBL: 240	PROD. METHOD: FLOWS
CHOKE SIZE: 14/64"	TBG. PRESS. 1,150	CSG. PRESS. 1,700	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: Producing

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: →	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: →	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: →	INTERVAL STATUS:

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

Sold

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/Mesaverde	4,796	6,919		Green River	1,260
				Mahogany	1,851
				Uteland Butte	4,029
				Wasatch	4,129
				Chapita Wells	4,709
				Buck Canyon	5,365
				Price River	6,421

35. ADDITIONAL REMARKS (Include plugging procedure)

See attached page for additional information.

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

NAME (PLEASE PRINT) Mary A. Maestas TITLE Regulatory Assistant  
 SIGNATURE *Mary A. Maestas* DATE 7/24/2008

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 Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

**Natural Buttes Unit 633-12E - ADDITIONAL REMARKS (CONTINUED):**

**27. PERFORATION RECORD**

5345-5670	3/spf
5055-5278	3/spf
4796-4864	3/spf

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

5735-6100	43,051 GALS GELLED WATER & 98,600# 20/40 SAND
5345-5670	36,331 GALS GELLED WATER & 104,000# 20/40 SAND
5055-5278	35,680 GALS GELLED WATER & 101,500# 20/40 SAND
4796-4864	35,684 GALS GELLED WATER & 91,980# 20/40 SAND

Perforated the Upper Price River from 6993-94', 6698-99', 6756-57', 6763-64', 6775-76', 6779-80', 6789-90', 6832-33', 6836-37', 6912-13', 6917-19' w/ 3 spf.

Perforated the Upper Price River from 6487-88', 6528-29', 6534-35', 6538-39', 6554-55', 6562-64', 6597-98', 6611-12', 6618-19', 6622-23', 6626-27' w/ 3 spf.

Perforated the North Horn from 6169-70', 6184-85', 6191-92', 6202-03', 6223-24', 6286-87', 6299-6300', 6316-17', 6372-73', 6389-90', 6394-95', 6407-08' w/ 3 spf.

Perforated the Ba from 5735-36', 5745-46', 5750-51', 5880-81', 5911-12', 5967-68', 5990-92', 5996-97', 6049-50', 6073-74', 6099-6100' w/ 3 spf.

Perforated the Ba from 5345-46', 5375-76', 5383-84', 5402-03', 5422-23', 5524-25', 5576-77', 5582-83', 5588-89', 5605-06', 5640-41', 5669-70' w/ 3 spf.

Perforated the Ca from 5055-56', 5108-09', 5128-29', 5142-43', 5160-61', 5205-06', 5241-42', 5257-58', 5269-70', 5276-78' w/ 3 spf.

Perforated the Ca from 4796-98', 4800-02', 4809-10', 4814-16', 4820-22', 4825-26', 4862-64' w/ 3 spf.

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

FORM 7

**REPORT OF WATER ENCOUNTERED DURING DRILLING**

Well name and number: NBU 633-12E

API number: 4304739193

Well Location: QQ NWNE Section 12 Township 10S Range 22E County UINTAH

Well operator: EOG

Address: 1060 E HWY 40

city VERNAL state UT zip 84078

Phone: (435) 781-9111

Drilling contractor: CRAIGS ROUSTABOUT SERVICE

Address: PO BOX 41

city JENSEN state UT zip 84035

Phone: (435) 781-1366

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
1,380	1,420	NO FLOW	NOT KNOWN

Formation tops:            1 \_\_\_\_\_            2 \_\_\_\_\_            3 \_\_\_\_\_  
(Top to Bottom)            4 \_\_\_\_\_            5 \_\_\_\_\_            6 \_\_\_\_\_  
                                         7 \_\_\_\_\_            8 \_\_\_\_\_            9 \_\_\_\_\_  
                                         10 \_\_\_\_\_            11 \_\_\_\_\_            12 \_\_\_\_\_

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

**I hereby certify that this report is true and complete to the best of my knowledge.**

NAME (PLEASE PRINT) Mary A. Maestas

TITLE Regulatory Assistant

SIGNATURE Mary A. Maestas

DATE 7/24/2008

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

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

Designation of Agent/Operator  
 Merger

1. DJJ
2. CDW

The operator of the well(s) listed below has changed, effective: **8/1/2008**

<b>FROM:</b> (Old Operator): N9550-EOG Resources 1060 E Hwy 40 Vernal, UT 84078 Phone: 1-(435) 781-9111	<b>TO:</b> ( New Operator): N2995-Kerr-McGee Oil & Gas Onshore., LP 1368 South 1200 East Vernal, UT 84078 Phone: 1-(435) 781-7024
---------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------

WELL NAME(S)	CA No.			Unit:		NATURAL BUTTES		
	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 560-17E	17	100S	210E	4304737508	2900	Federal	GW	P
NBU 571-17E	17	100S	210E	4304738377	2900	Federal	GW	P
NBU 635-12E	12	100S	220E	4304739190	2900	State	GW	P
NBU 632-12E	12	100S	220E	4304739192	2900	State	GW	P
NBU 633-12E	12	100S	220E	4304739193	2900	State	GW	P

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: Completion of well
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: Completion of well
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA n/a
- Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 8/25/2008
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 8/25/2008
- Bond information entered in RBDMS on: 8/25/2008
- Fee/State wells attached to bond in RBDMS on: 8/25/2008
- Injection Projects to new operator in RBDMS on: n/a

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: CO1203
- Indian well(s) covered by Bond Number: n/a
- (R649-3-1) The **NEW** operator of any state or fee well(s) listed covered by Bond Number RLB0005236
- The **FORMER** operator has requested a release of liability from their bond on: n/a

**COMMENTS:**

Well to transfer upon completion to Unit Operator (See 9/23/2003 letter from EOG & agreement 9/17/03 from Westport)

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>UO-01197-A-ST</b>
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 633-12E</b>
3. ADDRESS OF OPERATOR: <b>1060 East Highway 40 Vernal STATE UT ZIP 84078</b>		9. API NUMBER: <b>43-047-39193</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>789' FNL &amp; 2179' FEL 39.968522 LAT 109.386614 LON</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch/Mesaverde</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 12 10S 22E S</b>		COUNTY: <b>Uintah</b>
		STATE: <b>UTAH</b>

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

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

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

All material, debris, trash, and junk was removed from the location. The reserve pit was reclaimed. Stockpiled topsoil was spread over the pit area and broadcast seeded with the prescribed seed mixture. The seeded area was then walked down with a cat. Interim reclamation was completed on 1/2/2009.

NAME (PLEASE PRINT) <u>Mickenzie Thacker</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u><i>Mickenzie Thacker</i></u>	DATE <u>2/10/2009</u>

(This space for State use only)

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**FEB 12 2009**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
Multiple Leases

6. If Indian, Allottee or Tribe Name

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

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
EOG Resources, Inc

3a. Address  
1060 EAST HIGHWAY 40, VERNAL, UT 84078

3b. Phone No. (include area code)  
435-781-9145

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

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

8. Well Name and No.  
Multiple Wells

9. API Well No.  
See Attached

10. Field and Pool or Exploratory Area  
Natural Buttes

11. Country or Parish, State  
Utah, Utah

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

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

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

EOG Resources, Inc. has assigned all of its right, title and interest in the wells described in the attached list ("the Subject Wells") to Kerr-McGee Oil & Gas Onshore LP and will relinquish and transfer operatorship of all of the Subject Wells to Kerr-McGee Oil & Gas Onshore LP on January 1, 2010.

As of January 1, 2010, Kerr-McGee Oil & Gas Onshore LP will be considered to be the operator of each of the Subject Wells and will be responsible under the terms and conditions of the applicable lease for the operations conducted upon the leased lands. Bond coverage is provided under Kerr-McGee Oil & Gas Onshore LP's Nationwide BLM Bond No. WYB-000291.

Kerr-McGee Oil & Gas Onshore LP  
1099 18th Street, Suite 1800  
Denver, CO 80202-1918

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
For Record Only *ER 1/31/2010*

By: Michael A. Nixon Date: 12/17/2009  
Michael A. Nixon  
Agent and Attorney-in-Fact

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

Name (Printed/Typed)  
J. Michael Schween

Title Agent and Attorney-in-Fact

Signature [Signature] Date 12/17/2009

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Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date **DEC 24 2009**

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

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Lease #	API #	Well Name	Footages	Legal Description
UTUO2270A	4304730261	NBU 1-07B	1975' FNL 1850' FWL	T10S-R21E-07-SESW
UTUO144868	4304730262	NBU 2-15B	1630' FSL 2125' FEL	T09S-R20E-15-NWSE
ML22651	4304730267	NBU 3-02B	1819' FNL 716' FWL	T10S-R22E-02-SWNW
UTUO10954A	4304730273	NBU 4-35B	2037' FNL 2539' FWL	T09S-R22E-35-SESW
ML22650	4304730272	NBU 5-36B	1023' FNL 958' FWL	T09S-R22E-36-NWNW
UTUO1791	4304730278	NBU 7-09B	330' FSL 1600' FWL	T10S-R21E-09-SESW
UTUO1207 ST	4304730274	NBU 10-29B	1100' FSL 1540' FEL	T09S-R22E-29-SWSE
UTUO1791	4304730294	NBU 13-08B	1600' FSL 1300' FEL	T10S-R21E-08-NESE
UTUO581	4304730296	NBU 15-29B	821' FNL 687' FWL	T09S-R21E-29-NWNW
UTUO1791	4304730316	NBU 16-06B	330' FSL 900' FEL	T10S-R21E-06-SESE
UTUO2270A	4304730317	NBU 17-18B	1014' FSL 2067' FEL	T10S-R21E-18-SWSE
UTUO144869	4304730328	NBU 19-21B	2015' FNL 646' FEL	T09S-R20E-21-SENE
UTUO575	4304730363	NBU 25-20B	1905' FNL 627' FWL	T09S-R21E-20-SWNW
UTU4485	4304730364	NBU 26-13B	600' FSL 661' FEL	T10S-R20E-13-SESE
UTUO1393B	4304730367	NBU 28-04B	529' FNL 2145' FWL	T10S-R21E-04-NENW
UTUO1393B	4304730368	NBU 29-05B	398' FSL 888' FWL	T10S-R21E-05-SESE
UTUO575	4304730380	NBU 30-18B	1895' FSL 685' FEL	T09S-R21E-18-NESE
ML01197A	4304730385	NBU 31-12B	565' FNL 756' FWL	T10S-R22E-12-NWNW
UTU461	4304730396	NBU 33-17B	683' FSL 739' FWL	T09S-R22E-17-SWSW
UTUO575	4304730404	NBU 34-17B	210' FNL 710' FEL	T09S-R21E-17-NENE
UTUO149767	4304730397	NBU 35-08B	1830' FNL 660' FWL	T09S-R21E-8-SWNW
UTUO144878B	4304730470	NBU 49-12B	551' FSL 1901' FEL	T09S-R20E-12-SWSE
UTUO140225	4304730473	NBU 52-01B	659' FSL 658' FEL	T09S-R21E-01-SESE
UTUO141315	4304730474	NBU 53-03B	495' FSL 601' FWL	T09S-R21E-03-SWSW
ML21510	4304730475	NBU 54-02B	660' FSL 660' FWL	T09S-R21E-02-SWSW
UTUO1193	4304730464	NBU 57-12B	676' FSL 1976' FEL	T09S-R21E-12-SWSE
UTUO1198B	4304730463	NBU 58-23B	1634' FNL 2366' FEL	T10S-R22E-23-SWNE
UTUO37167	4304730477	NBU 62-35B	760' FNL 2252' FEL	T10S-R22E-35-NWNE
UTU10186	4304730466	NBU 63-12B	1364' FNL 1358' FEL	T10S-R20E-12-SWNE
UTUO37167	4304730577	NBU 70-34B	1859' FSL 2249' FWL	T10S-R22E-34-NESW
UTU4476	4304730578	NBU 71-26B	1877' FNL 528' FEL	T10S-R20E-26-SENE
UTUO141315	4304731150	NBU 202-03	898' FSL 1580' FEL	T09S-R21E-03-SWSE
UTUO1791	4304731238	NBU 205-08	1432' FSL 1267' FWL	T10S-R21E-08-NWSW
UTUO1791	4304731165	NBU 206-09	1789' FNL 1546' FWL	T10S-R21E-09-SESW
UTUO1393B	4304731177	NBU 207-04	1366' FSL 1445' FWL	T10S-R21E-04-NESW
UTUO149076	4304731153	NBU 210-24	1000' FSL 1000' FWL	T09S-R21E-24-SWSW
UTUO284	4304731156	NBU 211-20	916' FSL 822' FEL	T09S-R22E-20-SESE
UTUO284	4304731267	NBU 212-19	289' FSL 798' FWL	T09S-R22E-19-SWSW
UTU22650	4304731268	NBU 213-36J	597' FNL 659' FEL	T09S-R22E-36-NENE
ML22651	4304731282	NBU 217-02	2045' FSL 766' FWL	T10S-R22E-02-NWSW
UTUO2270A	4304731310	NBU 218-17	2600' FNL 1500' FWL	T10S-R21E-17-SESW
UTUO149076	4304731308	NBU 219-24	1300' FNL 500' FWL	T09S-R21E-24-NWNW
UTUO149076	4304732131	NBU 301-24E	700' FSL 2450' FEL	T09S-R21E-24-SWSE
UTUO1791	4304732010	NBU 302-09E	1899' FSL 912' FWL	T10S-R21E-09-NWSW
UTUO575	4304732130	NBU 304-18E	782' FSL 1783' FEL	T09S-R21E-18-SWSE
UTUO149767	4304732135	NBU 305-07E	670' FNL 1950' FWL	T09S-R21E-07-NENW
UTUO581	4304732282	NBU 306-18E	1604' FSL 2797' FWL	T09S-R21E-18-NESW
UTUO1791	4304732014	NBU 307-06E	1979' FSL 2000' FEL	T10S-R21E-06-NWSE
UTUO284	4304732202	NBU 308-20E	1503' FSL 954' FWL	T09S-R22E-20-NWSW
UTUO575	4304732283	NBU 309-20E	930' FNL 667' FEL	T09S-R21E-20-NENE
UTUO149075	4304732203	NBU 311-23E	1101' FSL 1978' FEL	T09S-R21E-23-SWSE
UTUO581	4304732378	NBU 313-29E	1000' FNL 660' FEL	T09S-R21E-29-NENE
UTUO141315	4304732271	NBU 314-03E	1045' FSL 2584' FWL	T09S-R21E-03-SESW
UTUO575	4304732381	NBU 316-17E	1935' FNL 1067' FWL	T09S-R21E-17-SWNW
UTUO144868B	4304732362	NBU 317-12E	867' FNL 701' FEL	T09S-R20E-12-NENE
UTUO2270A	4304737511	NBU 319-17E	807' FNL 990' FWL	T10S-R21E-17-NWNW
UTUO1188	4304732379	NBU 321-10E	940' FSL 2508' FWL	T09S-R21E-10-SESW
UTUO575B	4304732376	NBU 325-08E	832' FSL 669' FWL	T09S-R21E-08-SWSW
UTUO1393B	4304733697	NBU 326-04E	1906' FNL 695' FWL	T10S-R21E-04-SWNW
UTUO1393B	4304739303	NBU 327-05E	1117' FNL 942' FEL	T10S-R21E-05-NENE (LOT 1)
UTU4485	4304732386	NBU 328-13E	1766' FSL 1944' FWL	T10S-R20E-13-NESW
UTUO1207 ST	4304732229	NBU 329-29E	2490' FNL 949' FEL	T09S-R22E-29-SENE

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DIV. OF OIL, GAS & MINING

Lease #	API #	Well Name	Footages	Legal Description
UTUO10954A	4304732147	NBU 331-35E	1531' FNL 1153' FEL	T09S-R22E-35-SENE
UTUO1791	4304732148	NBU 332-08E	955' FSL 2508' FEL	T10S-R21E-08-SWSE
ML21510	4304732518	NBU 333-02E	1951' FSL 2245' FWL	T09S-R21E-02-NESW
UTUO149075	4304732265	NBU 335-23E	1419' FNL 828' FEL	T09S-R21E-23-SENE
UTUO149076	4304732264	NBU 336-24E	2024' FNL 1958' FWL	T09S-R21E-24-SENW
UTUO284	4304732281	NBU 339-19E	1890' FSL 674' FWL	T09S-R22E-19-NWSW
UTUO284B	4304732327	NBU 340-20E	1326' FSL 2569' FEL	T09S-R22E-20-NWSE
UTUO1207 ST	4304733055	NBU 341-29E	307' FSL 898' FEL	T09S-R22E-29-SESE
UTUO10954A	4304732212	NBU 342-35E	918' FNL 2563' FEL	T09S-R22E-35-NWNE
UTUO1393B	4304739338	NBU 346-05E	2233' FSL 676' FEL	T10S-R21E-05-NESE
UTUO575B	4304732326	NBU 349-07E	1641' FNL 1036' FWL	T09S-R21E-07-SWNW
UTUO1188	4304732519	NBU 352-10E	1806' FSL 842' FWL	T09S-R21E-10-NWSW
UTUO581	4304732383	NBU 356-29E	1600' FNL 1980' FEL	T09S-R21E-29-SWNE
UTUO2270A	4304732388	NBU 358-01E	736' FSL 1941' FEL	T10S-R20E-01-SWSE
UTU4485	4304750032	NBU 359-13E	661' FSL 2149' FEL	T10S-R20E-13-SWSE
UTU4485	4304732387	NBU 360-13E	1998' FSL 775' FWL	T10S-R20E-13-NWSW
ML21510	4304733782	NBU 379-02E	1967' FSL 898' FWL	T09S-R21E-02-NWSW
UTUO575	4304733064	NBU 382-18E	2030' FSL 2172' FEL	T09S-R21E-18-NWSE
UTUO149075	4304735889	NBU 384-23E	491' FSL 929' FEL	T09S-R21E-23-SESE
UTUO149076	4304733056	NBU 386-24E	450' FSL 1850' FWL	T09S-R21E-24-SESW
UTUO284	4304733057	NBU 388-19E	382' FSL 1847' FWL	T09S-R22E-19-SESW
UTUO1207 ST	4304733049	NBU 389-29E	2226' FSL 2166' FEL	T09S-R22E-29-NWSE
UTUO1393B	4304732835	NBU 390-04E	2577' FSL 1951' FWL	T10S-R21E-04-NESW
UTUO1393B	4304732988	NBU 391-05E	1215' FSL 2090' FEL	T10S-R21E-05-SWSE
UTUO1791	4304733783	NBU 392-06E	1926' FSL 611' FEL	T10S-R21E-06-NESE
UTU4485	4304733071	NBU 393-13E	1850' FSL 2141' FEL	T10S-R20E-13-NWSE
UTU4485	4304733072	NBU 394-13E	725' FSL 2027' FWL	T10S-R20E-13-SESW
UTUO1188	4304732544	NBU 400-11E	1983' FSL 1321' FWL	T09S-R21E-11-NESW
UTUO581	4304734216	NBU 421-29E	1985 FNL, 972 FEL	T09S-R21E-29-SENE
UTUO581	4304733698	NBU 422-29E	1980' FNL 785' FWL	T09S-R21E-29-SWNW
UTUO581	4304734206	NBU 423-30E	1980' FSL 660' FEL	T09S-R21E-30-NESE
ML3142	4304733699	NBU 424-32E	744' FNL 773' FEL	T09S-R21E-32-NENE
UTUO2270A	4304740049	NBU 428-07E	660' FSL 855' FWL	T10S-R21E-07-SWSW (Lot 4)
UTUO1791	4304733069	NBU 431-09E	2599' FNL 662' FWL	T10S-R21E-09-SWNW
UTUO2270A	4304738536	NBU 434-17E	1799' FNL 2176' FWL	T10S-R21E-17-SENW
UTUO2270A	4304738376	NBU 435-17E	1837' FNL 571' FWL	T10S-R21E-17-SWNW
UTUO2270A	4304734195	NBU 436-18E	1644' FSL 748' FEL	T10S-R21E-18-NESE
UTUO2270A	4304735499	NBU 437-18E	322' FSL 748' FEL	T10S-R21E-18-SESE
ML22792	4304737534	NBU 438-19E	661' FNL 1941' FEL	T10S-R21E-19-NWNE
ML22792	4304737535	NBU 439-19E	2111' FNL 1980' FWL	T10S-R21E-19-SWNE
UTUO10953	4304736279	NBU 451-01E	1965' FSL 2132' FWL	T10S-R22E-01-NESW
ML22651	4304736053	NBU 456-02E	493' FNL 1080' FWL	T10S-R22E-02-NWNW (Lot 4)
UTUO141315	4304733063	NBU 481-03E	1490' FSL 556' FEL	T09S-R21E-03-NESE
UTUO581	4304733065	NBU 483-19E	1850' FSL 1980' FWL	T09S-R21E-19-NESW
UTUO575	4304733784	NBU 484-20E	350' FNL 823' FWL	T09S-R21E-20-NWNW
UTUO2270A	4304739897	NBU 486-07E	1895 FSL' 1834' FWL	T10S-R21E-07-NESW
UTUO575B	4304733121	NBU 489-07E	763' FSL 733' FWL	T09S-R21E-07-SWSW (Lot 4)
UTUO2270A	4304733123	NBU 497-01E	2091' FSL 894' FEL	T10S-R20E-01-NESE
UTUO577A	4304733140	NBU 506-23E	720' FNL 1818' FWL	T09S-R20E-23-NENW
UTUO1791	4304733124	NBU 508-08E	915' FSL 355' FEL	T10S-R21E-08-SESE
UTUO1197A ST	4304739283	NBU 513-12EX	1850' FNL 2133' FWL	T10S-R22E-12-SENW
UTUO2270A	4304733696	NBU 516-12E	1950' FSL 1786' FEL	T10S-R20E-12-NWSE
UTUO141315	4304733779	NBU 519-03E	1749' FSL 798' FWL	T09S-R21E-03-NWSW
UTUO575B	4304733780	NBU 521-08E	2250' FSL 900' FWL	T09S-R21E-08-NWSW
UTUO1188	4304733781	NBU 522-10E	732' FSL 841' FEL	T09S-R21E-10-SESE
UTUO2270A	4304733685	NBU 523-12E	660' FSL 660' FEL	T10S-R20E-12-SESE
UTUO2270A	4304733701	NBU 524-12E	841' FSL 1795' FEL	T10S-R20E-12-SWSE
UTUO2270A	4304739722	NBU 529-07E	704' FNL 762' FWL	T10S-R21E-07-NWNW
UTUO581	4304734639	NBU 534-18E	1885' FSL 115' FWL	T09S-R21E-18-NWSW
UTUO2270A	4304735200	NBU 535-17E	1893' FSL 580' FWL	T10S-R21E-17-NWSW
ML22791	4304735252	NBU 536-18E	734' FSL 2293' FWL	T10S-R21E-18-SESW
UTUO2270A	4304735253	NBU 537-18E	1880' FSL 1830' FEL	T10S-R21E-18-NWSE

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Lease #	API #	Well Name	Footages	Legal Description
UTUO284	4304735886	NBU 538-19E	1937' FSL 1833' FWL	T09S-R22E-19-NESW
UTUO149076	4304735887	NBU 539-24E	1870' FSL 477' FEL	T09S-R21E-24-NESE
UTUO10953	4304736280	NBU 546-01E	2036' FSL 699' FWL	T10S-R22E-01-NWSW
UTUO10953	4304736278	NBU 547-01E	749' FSL 598' FWL	T10S-R22E-01-SWSW
UTU474	4304737687	NBU 553-28E	767' FNL 753' FWL	T10S-R22E-28-NWNW
UTU474	4304737686	NBU 554-28E	2023' FNL 465' FWL	T10S-R22E-28-SWNW
ML22791	4304737685	NBU 555-18E	1984' FSL 1790' FWL	T10S-R21E-18-NESW
ML22791	4304737514	NBU 556-18E	1800' FSL 870' FWL	T10S-R21E-18-NWSW
ML22791	4304737513	NBU 557-18E	852' FSL 661' FWL	T10S-R21E-18-SWSW
UTUO2270A	4304737510	NBU 558-17E	748' FSL 611' FWL	T10S-R21E-17-SWSW
UTUO2278C	4304737509	NBU 559-17E	467' FSL 2065' FWL	T10S-R21E-17-SESW
UTUO2278	4304737508	NBU 560-17E	1946' FSL 1896' FWL	T10S-R21E-17-NESW
UTUO2278	4304737512	NBU 561-17E	857' FSL 1988' FEL	T10S-R21E-17-SWSE
ML22792	4304737536	NBU 562-19E	859' FNL 859' FEL	T10S-R21E-19-NENE
ML22792	4304737537	NBU 563-19E	1982' FSL 1878' FEL	T10S-R21E-19-NWSE
UTU4476	4304738962	NBU 564-26E	665' FNL 1945' FWL	T10S-R20E-26-NENW
ML22793	4304737533	NBU 565-30E	1865' FNL 1786' FEL	T10S-R21E-30-SWNE
UTUO2270A	4304738375	NBU 566-17E	538' FNL 1806' FWL	T10S-R21E-17-NENW
UTUO1791	4304738535	NBU 567-17E	690' FNL 1988' FEL	T10S-R21E-17-NWNE
UTUO1791	4304738537	NBU 568-17E	850' FNL 807' FEL	T10S-R21E-17-NENE
UTUO1791	4304738534	NBU 569-17E	2009' FNL 1809' FEL	T10S-R21E-17-SWNE
UTUO1791	4304738529	NBU 570-17E	2031' FNL 672' FEL	T10S-R21E-17-SENE
UTUO2278	4304738377	NBU 571-17E	1964' FSL 1831' FEL	T10S-R21E-17-NWSE
UTUO2278	4304738374	NBU 572-17E	1810' FSL 739' FEL	T10S-R21E-17-NESE
UTUO2278	4304738510	NBU 573-17E	813' FSL 481' FEL	T10S-R21E-17-SESE
ML22650	4304739308	NBU 602-36E	1723' FNL 719' FWL	T09S-R22E-36-SWNW
UTUO1393B	4304739305	NBU 614-05E	716' FNL 1967' FEL	T10S-R21E-05-NWNE
UTUO1393B	4304739655	NBU 615-05E	2384' FNL 1015' FEL	T10S-R21E-05-SENE
UTUO1393B	4304739337	NBU 617-04E	933' FNL 745' FWL	T10S-R21E-04-NWNW
UTUO1393B	4304739336	NBU 618-04E	998' FSL 661' FWL	T10S-R21E-04-SWSW
UTUO1393B	4304739414	NBU 625-04E	1937' FNL 1722' FWL	T10S-R21E-04-SENW
UO01197A ST	4304739192	NBU 632-12E	860' FNL 2032' FWL	T10S-R22E-12-NENW
UO01197A ST	4304739193	NBU 633-12E	789' FNL 2179' FEL	T10S-R22E-12-NWNE
UO01197A ST	4304739190	NBU 635-12E	1808' FNL 1754' FEL	T10S-R22E-12-SWNE
UTUO1197A ST	4304739191	NBU 636-12E	1824' FNL 461' FEL	T10S-R22E-12-SENE
UTUO8512 ST	4304750016	NBU 638-13E	1926' FNL 2504' FWL	T10S-R22E-13-SENW
UTUO8512 ST	4304750019	NBU 639-13E	859' FNL 1902' FEL	T10S-R22E-13-NWNE
UTUO8512 ST	4304750014	NBU 640-13E	1619' FNL 1639' FEL	T10S-R22E-13-SWNE
UTUO8512A ST	4304750058	NBU 641-13E	990' FNL 1184' FEL	T10S-R22E-13-NENE
UTUO8512 ST	4304750013	NBU 642-13E	1949' FNL 858' FEL	T10S-R22E-13-SENE
UTUO2270A	4304739957	NBU 653-07E	660' FNL 1980' FWL	T10S-R21E-07-NENW
UTUO2270A	4304739956	NBU 654-07E	1913' FNL 522' FWL	T10S-R21E-07-SWNW
UTUO2270A	4304739860	NBU 655-07E	1926' FSL 750' FWL	T10S-R21E-07-NWSW
UTUO1791	4304739856	NBU 658-01E	2177' FNL 1784' FEL	T10S-R20E-01-SWNE
UTUO2270A	4304739858	NBU 660-12E	661' FNL 691' FEL	T10S-R20E-12-NENE
ML22790	4304750011	NBU 661-24E	1734' FSL 661' FWL	T10S-R20E-24-NWSW
ML22790	4304750017	NBU 662-24E	809' FSL 807' FWL	T10S-R20E-24-SWSW
ML22790	4304750010	NBU 663-24E	810' FSL 1979' FWL	T10S-R20E-24-SESW
ML22790	4304739867	NBU 664-24E	1810' FNL 1781' FEL	T10S-R20E-24-NWSE
ML22790	4304750018	NBU 665-24E	1950' FSL 660' FEL	T10S-R20E-24-NESE
ML22790	4304750057	NBU 666-24E	1043' FSL 1722' FEL	T10S-R20E-24-SWSE
ML22790	4304750012	NBU 667-24E	660' FSL 660' FEL	T10S-R20E-24-SESE
UTUO2270A	4304739901	NBU 668-12E	859' FNL 1915' FEL	T10S-R20E-12-NWNE
UO1207 ST	4304740084	NBU 670-29E	2018' FSL 859' FEL	T09S-R22E-29-NESE
UO1207 ST	4304750027	NBU 691-29E	680' FNL 797' FEL	T09S-R22E-29-NENE
ML3140.5	4304738330	NBU 760-36E	1320' FNL 1320' FEL	T09S-R20E-36-NENE
UTU4476	4304738632	NBU 762-26E	1506' FNL 1449' FEL	T10S-R20E-26-SWNE
ML22792	4304738332	NBU 763-19E	1258' FSL 1388' FEL	T10S-R21E-19-SWSE
ML3142	4304738331	NBU 764-32E	875' FNL 667' FWL	T09S-R21E-32-NWNW
UTUO1791	4304738633	NBU 765-09E	1000' FSL 1640' FWL	T10S-R21E-09-SESW

RECEIVED

DEC 24 2009

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 633-12E
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047391930000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6515 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0789 FNL 2179 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 12 Township: 10.0S Range: 22.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 11/3/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input checked="" type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 50px;" type="text"/>

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

The operator request the authorization to temporarily abandon the subject well location. The operator proposes to TA the subject well to drill the NBU 1022-12B Pad, which consists of the following wells: NBU 1022-12B1BS, NBU 1022-12B1CS, NBU 1022-12B4BS, NBU 1022-12B4CS, NBU 1022-12C1BS & NBU 1022-12C1CS.

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

Date: 11/23/2011

By: *Dark K. Quist*

<b>NAME (PLEASE PRINT)</b> Gina Becker	<b>PHONE NUMBER</b> 720 929-6086	<b>TITLE</b> Regulatory Analyst II
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/3/2011	

Well Name: **NBU 633-12E**  
 Surface Location: NWNE Sec. 12, T10S, R22E  
 Uintah County, UT

11/1/2011

API: 4304739193 LEASE#: U-01197-A-ST  
 ELEVATIONS: 5163' GL 5176' KB  
 TOTAL DEPTH: 7101' PBDT: 7095'  
 SURFACE CASING: 9 5/8", 36# J-55 @ 2292'  
 PRODUCTION CASING: 4 1/2", 11.6# N-80 @ 7095'  
 TOC @ 480' per CBL  
 PERFORATIONS: WASATCH 4796' - 6919'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.0217	0.0039
4.5" 11.6# N-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# K-55	8.921	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.0101
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2276	0.0406
9 5/8" csg X 12 1/4" borehole				2.3436	0.3132	0.0558

**GEOLOGICAL TOPS:**  
 4129' Wasatch

**Tech. Pub. #92 Base of USDW's**  
 USDW Elevation ~1300' MSL  
 USDW Depth ~3876' KBE

**Recommended future action for disposition of well bore:**

Temporarily abandon the wellbore during the drilling and completion operations of the **NBU 1022-12B** pad wells. Return to production as soon as possible once completions are done.

**NBU 633-12E TEMPORARY ABANDONMENT PROCEDURE**

**GENERAL**

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY UDOGM 24 HOURS BEFORE MOVING ON LOCATION.

**PROCEDURE**

**Note: An estimated 24 sx Class "G" cement needed for procedure**

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. RU WIRELINE. ENSURE WELLBORE IS CLEAN. **A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.**
3. **PLUG #1, ISOLATE WAS PERFORATIONS (4796' - 6919')**: RIH W/ 4 1/2" CBP. SET @ ~4750'. RELEASE CBP, PUH 10', BRK CIRC W/ FRESH WATER. PRESSURE TEST CASING TO 500 PSI. INFORM ENGINEERING IF IT DOESN'T TEST. DISPLACE A MINIMUM OF **8 SX/ 1.6 BBL/ 8.7 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~4650'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
4. **PLUG #2, PROTECT TOP OF WASATCH (4129')**: PUH TO ~4230'. BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **16 SX / 3.3 BBL / 18.3 CUFT** AND BALANCE PLUG W/ TOC @ ~4020' (210' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED FRESH WATER.
5. LOWER WELLHEAD TO GROUND LEVEL TO ACCOMMODATE DRILLING OPS AND INSTALL MARKER PER UDOGM GUIDELINES.
6. RDMO. TURN OVER TO DRILLING OPERATIONS.

ALM 11/1/2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7.UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 633-12E
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047391930000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6511  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0789 FNL 2179 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 12 Township: 10.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 3/5/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input checked="" type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

The operator has temporarily abandoned the subject well location on 03/05/2012. Please see the attached chronological well history for details and updated latitude and longitude locations. Thank you.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 16, 2012

<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/16/2012	

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 633-12E		Spud Date:	
Project: UTAH-UINTAH	Site: NBU 1022-12B PAD	Rig Name No: MILES 2/2	
Event: ABANDONMENT	Start Date: 2/27/2012	End Date: 2/28/2012	
Active Datum: RKB @5,178.00usft (above Mean Sea Level)	UWI: NBU 633-12E		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/27/2012	7:00 - 7:30	0.50	ABAND	48		P		PULLING TBG
	7:30 - 16:00	8.50	ABAND	45				MIRU, KILL WELL, ,20 BBLs TBG 30 BBLs CSG, 500# TBG, 650# CSG, NDWH, NU BOP'S, UNLAND TBG, RU PRS, SCAN TBG OOH, STD BACK 74 STDS, LAY DWN BALANCE ON TLR, RD PRS, RU CUTTERS, PU GAUGE RING, TIH TO 4760', POOH LD GAUGE RING PU 8K CBP, TIH TO 4745' SET PLUG,COLLAR AT 4748' POOH RD CUTTERS,SWIFN
2/28/2012	7:00 - 7:30	0.50	ABAND	48		P		CEMENTING
	7:30 - 17:00	9.50	ABAND	51		P		TIH TBG, TO 4742' 146 JTS, BREAK CIRC, ROLL HOLE WITH TREATED T-MAC, PRESSURE TEST CSG 500# FOR 5 MIN, RU SUPERIOR, ALL CEMENT IS CLASS G, 1.145 YIELD, 4.9 GW/SX, 15.8 DENISTY, SET BALNCE PLUG PUMP 2.5 BBLs FESH WTR, 10 SX, 2 BBLs DISPLACE WITH 1 BBL FRESH, 16.8 BBLs TREATED T-MAC, PU TO 4226' 120 JTS, SET 2ND BALANCED PLUG, PUMP 2.5 BBLs FRESH WTR, 20 SX, 4.1 BBLs CEMENT, DISPLACE WITH 1 BBL FRESH, 14.3 BBLs TREATED T-MAC, POOH LAY DWN TBG, ND BOP'S, RDMO TO NBU 513-12EX GYRO RAN 2/26/12
								TBG J-55 134 JTS YELLOW BAND 4347.62' 22 JTS RED BAND 713.79'
								N 39.96878 DEGREES W109.38607 DEGREES ELEV 5137"
3/5/2012	7:00 - 17:00	10.00	ABAND					REMOVE SURF EQUIP TO PREPARE WELL AND LOCATION FOR TA AND DRILLING OPERATIONS.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 633-12E	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047391930000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0789 FNL 2179 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 12 Township: 10.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/18/2014	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THE NBU 633-12E WELL WAS RETURNED TO PRODUCTION ON 07/09/2014. THANK YOU.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> July 18, 2014		
<b>NAME (PLEASE PRINT)</b> Kay E. Kelly	<b>PHONE NUMBER</b> 720 929 6582	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/18/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> U-01197-A-ST
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.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> NBU 633-12E	
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047391930000	
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6100	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0789 FNL 2179 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 12 Township: 10.0S Range: 22.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/14/2014	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
<p>THE NBU 633-12E WAS RETURNED TO PRODUCTION ON 7/9/2014.</p> <p>THANK YOU.</p>		
<p><b>Accepted by the Utah Division of Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>August 07, 2014</p>		
<b>NAME (PLEASE PRINT)</b> Kay E. Kelly	<b>PHONE NUMBER</b> 720 929 6582	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/14/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	5. LEASE DESIGNATION AND SERIAL NUMBER: U-01197-A-ST
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.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/6/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input checked="" type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Kerr-McGee Oil & Gas Onshore, LP respectfully requests to plug and abandon the NBU 633-12E well. Please see the attached procedure for details. Thank you.

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

**Date:** November 24, 2015

**By:** 

**Please Review Attached Conditions of Approval**

<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/6/2015	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Sundry Conditions of Approval Well Number 43047391930000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. Add Plug #4A: A 200' plug ( $\pm 16$  sx) shall be balanced from  $\pm 1360'$  to 1150'. This will isolate the top of the Parachute Creek Member as required by Cause 190-5(B).**
  - 3. CICR not required for surface plug.**
  - 4. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
  - 5. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 6. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 7. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 8. If there are any changes to the procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.**
- 9. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

# Wellbore Diagram

API Well No: 43-047-39193-00-00 Permit No: Well Name/No: NBU 633-12E

Company Name: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Location: Sec: 12 T: 10S R: 22E Spot: NWNE

Coordinates: X: 637776 Y: 4425511

Field Name: NATURAL BUTTES

County Name: UINTAH

### String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)
HOL1	2292	12.25		
SURF	2292	9.625	36	2292
HOL2	7095	7.875		
PROD	7095	4.5	11.6	7095
TI	6907	2.375		

Capacity (ft/ft)

11.459

9 5/8" x 4 1/2"

3,070 l



\* Plug # 5  
 270' OUT.  $300' / (1.15) (3.090) = 853x$   
 $1.15 \cdot 300' / (1.15) (11.459) = 293x$   
 \* CIPR Not necessary

\* Add Plug # 4  
 200' across Top of GRRV fr. 1360' to 1150'  
 $165x = 210'$

### Cement Information

Cement from 2292 ft. to surface

Surface: 9.625 in. @ 2292 ft.  
 Hole: 12.25 in. @ 2292 ft.

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	7095	480	50	1020
PROD	7095	480	HS	220
SURF	2292	0	G	666

Plug # 4  
 $85x = 105'$   
 TOC @ 2240'

Plug # 3  
 $(202x)(1.15)(11.459) = 263'$   
 TOC @ 2520' ✓

### Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
4796	6994			

Plug # 2  
 $(165x)(1.15)(11.459) = 210'$   
 TOC @ 4030' ✓

Plug # 1  
 $(85x)(1.15)(11.459) = 105'$   
 TOC @ 4650' ✓

### Formation Information

Formation	Depth
UNTA	0
GRRV	1260
MHGBN	1851
BMSW	3500
WSTC	4129
PRRV	6421

Cement from 7095 ft. to 480 ft.  
 Tubing: 2.375 in. @ 6907 ft.  
 Production: 4.5 in. @ 7095 ft.  
 Hole: 7.875 in. @ 7095 ft.  
 Hole: Unknown

Base Packer ± 2700'

TD: 7101 TVD: 7101 PBD: 7095

NBU 633-12E  
789' FNL & 2179' FEL  
NE/NE SEC. 12, T10S, R22E  
Uintah County, UT

KBE: 5178'  
GLE: 5165'  
TD: 7101'

API NUMBER: 4304739193  
LEASE NUMBER: U-01197-A-ST  
LAT/LONG: 39.96853/-109.38671

CASING : 12 1/4" hole  
9 5/8" 36# J-55 @ 2292'

7 7/8" hole  
4.5" 11.6# N-80 @ 7095'  
TOC @ 480' per CBL

PERFORATIONS: Wasatch 4796'-6919'

TUBING: 2 3/8" 4.7# J-55 tbg at 6143'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.0217	0.0039
4.5" 11.6# N-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# K-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.0101
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2276	0.0406
9 5/8" csg X 12 1/4" borehole				2.3436	0.3132	0.0558

#### GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Green River	1197'
Birdsnest	1541'
GR	2637'
Wasatch	4133'

<http://geology.utah.gov/online/ss/ss-144/ss-144pl1.pdf>

USDW Elevation ~2500' MSL  
USDW Depth ~2678' KBL

## NBU 633-12E PLUG & ABANDONMENT PROCEDURE

### GENERAL

- H2S MAY BE PRESENT. CHECK FOR H2S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY APPROPRIATE AGENCY 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

### PROCEDURE

**Note:** Approx. **161 sx** Class "G" cement needed for procedure & **(1) 4.5" CIBP**

**Note:** No gyro survey on record for this wellbore.

1. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
2. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
3. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. RUN GYRO SURVEY.
4. **PLUG #1, WASATCH PERFORATIONS (4796'-6919')**: RIH W/ 4 ½" CIBP. SET @ ~4750'. RELEASE CIBP, PUH 10', BRK CIRC W/ TREATED FRESH WATER. DISPLACE A MINIMUM OF **7.6 FT3 / 8 SX** ON TOP OF PLUG. PUH ABOVE TOC (~4650'). REVERSE CIRCULATE W/ TREATED WATER (~6.4 BBLS).
5. **PLUG #2, PROTECT TOP OF WASATCH (4133')**: PUH TO ~4240'. BRK CIRC W/ FRESH WATER. DISPLACE **18.3FT3 / 16 SXS** AND BALANCE PLUG W/ TOC @ ~ 4030' (210' COVERAGE). PUH ABOVE TOC . REVERSE CIRCULATE W/ TREATED WATER (~19.4 BBLS)
6. **PLUG #3, PROTECT BASE OF USDW (2678') & TOP OF GR (2637')**: PUH TO ~2780'. BRK CIRC W/ FRESH WATER. DISPLACE **22.7 FT3/ 20 SX** AND BALANCE PLUG W/ TOC @ ~2520' (260' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~ 2.7BBLS).
7. **PLUG #4, SURFACE CASING SHOE (2292')**: PUH TO ~2345'. BRK CIRC W/ FRESH WATER. DISPLACE **9.2 FT3 / 8 SX** AND BALANCE PLUG W/ TOC @ ~2240' (105' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER (~30 BBLS).
8. **BACKSIDE SQUEEZE (300')**: POOH AND RIG UP WIRELINE. RIH WITH PERF GUNS FOR 4.5" CASING @ 4SPF/4' GUN. PERFORATE CASING AT ~300' (TOC @ 480'). POOH AND CONTROL WELL WITH FRESH WATER AS NECESSARY. RIH WITH 4.5 CICE AND SET 30' ABOVE PERFORATIONS. POOH AND RIG DOWN WIRELINE. RIH WITH TUBING AND PUMP ~86 SX (300' PLUS 30' FOR RETAINER) OR UNTIL RETURNS ARE SEEN AT SURFACE.
9. **PLUG #5, FILL SURFACE HOLE:** POOH. HOOK UP 1" PIPE AND PUMP **26.2 CUFT/23 SX** OR SUFFICIENT VOLUME TO FILL 4 ½" CASING F/ 300' TO SURFACE

AKT 9/29/2015

10. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.

11. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

AKT 9/29/2015

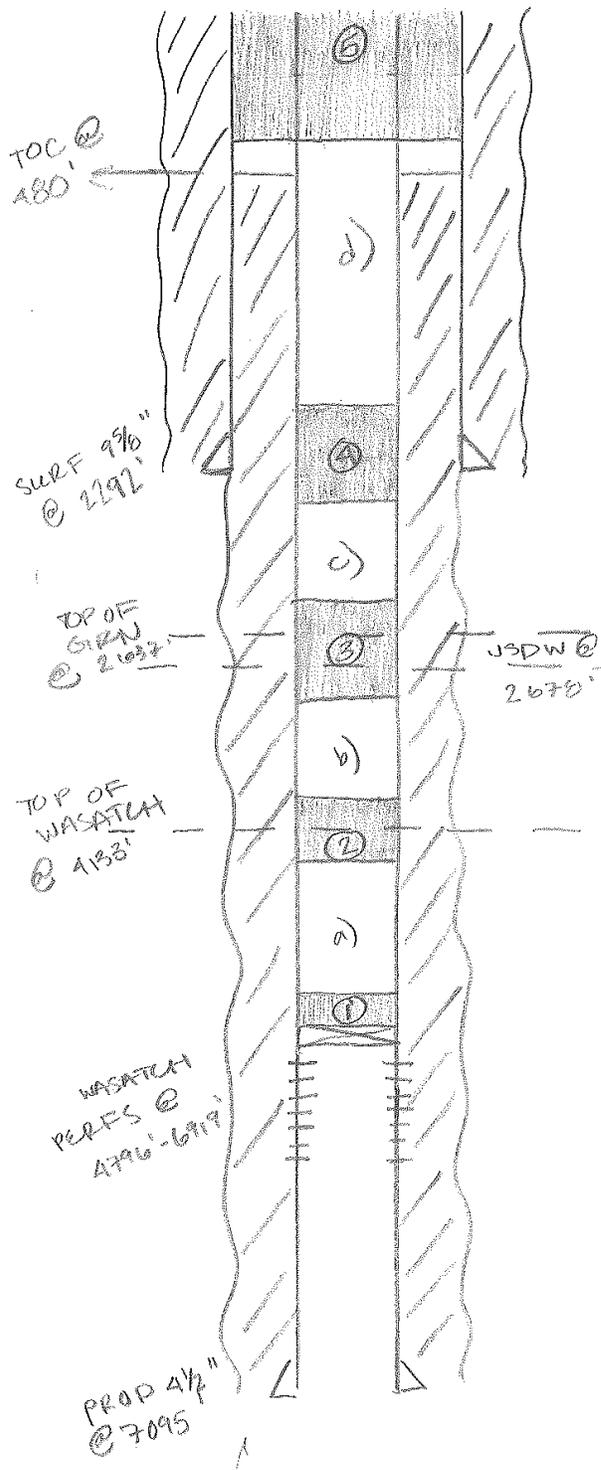


PROJECT COMPUTATIONS

NO. \_\_\_\_\_ OF \_\_\_\_\_ SHEETS

DATE 09/29/2015 PROJECT \_\_\_\_\_ JOB NO. \_\_\_\_\_

BY Alex Truby CHK.: \_\_\_\_\_ SUBJECT NBU 633-12E P&A



- ① ISOLATE WASATCH PERFS W/ 4.5" CIBT (@ 4750')  
 PROTECT WASATCH FORMATION  
 CMNT 4060' - 4750' (L=100')  
 $100' \times 0.0572 = \frac{5.72 \text{ ft}^3}{1.145} = 4.99 = \underline{5 \text{ XS}}$   
 a) 4160' - 4240' = 80'  $\times 0.0155 \text{ bbl} = 1.24 \text{ bbl}$
- ② PROTECT TOP OF WASATCH  
 CMNT 4030' - 4240' (L=210')  
 $210' \times 0.0672 = \frac{14.112 \text{ ft}^3}{1.145} = 12.33 = \underline{12 \text{ XS}}$   
 b) 4030' - 2780' = 1,250'  $\times 0.0155 = 19.4 \text{ bbl}$
- ③ PROTECT TOP OF GRN @ USDW  
 CMNT 2520' - 2780' (L=260')  
 $260' \times 0.0672 = \frac{17.472 \text{ ft}^3}{1.145} = 15.26 = \underline{15 \text{ XS}}$   
 c) 2520' - 2345' = 175'  $\times 0.0155 = 2.7 \text{ bbl}$
- ④ PROTECT SURFACE CASE SHOULDER  
 CMNT 2240' - 2345' (L=105')  
 $105' \times 0.0672 = \frac{7.056 \text{ ft}^3}{1.145} = 6.17 = \underline{6 \text{ XS}}$   
 d) 2240' - 1300' = 940'  $\times 0.0155 = 14.57 \text{ bbl}$
- ⑤ PROTECT SURFACE  
 CMNT 300' - SURFACE  
 $300' \times 0.0672 = \frac{20.16 \text{ ft}^3}{1.145} = 17.61 = \underline{18 \text{ XS}}$   
 $300' \times 1.1 \times 0.2977 = \frac{98.7 \text{ ft}^3}{1.145} = 86.3 = \underline{86 \text{ XS}}$

TOTAL CMNT = 161 XS

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Kerr-McGee Oil & Gas Onshore, LP has plugged and abandoned the NBU 633-12E well. Please see the operations summary report for details. Thank you.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 16, 2016</b>		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/16/2016

US ROCKIES REGION  
**Operation Summary Report**

Well: NBU 633-12E				Spud date:				
Project: UTAH-UINTAH			Site: NBU 1022-12B PAD			Rig name no.: ROCKY MOUNTAIN WELL SERVICE 1/1		
Event: ABANDONMENT			Start date: 2/3/2016		End date: 2/4/2016			
Active datum: RKB @5,178.00usft (above Mean Sea Level)			UWI: NBU 633-12E					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
2/3/2016	7:00 - 7:15	0.25	ABANDP	48		P		HSM, KILLING WELL
	7:15 - 13:00	5.75	ABANDP	30	A	P		ROAD RIG FROM 1022-36N TO LOC. MIRU, SPOT EQUIP. SICP=900#, SITP=900#, BLOW WELL DOWN, CONTROL W/ 15 BBLS DOWN TBG, AND 15 BBLS DOWN CSG, N/D WELL HEAD, P/U ON TBG, TBG NOT STUCK. LAND BACK. N/U BOPS, R/U TBG EQUIP
	13:00 - 17:00	4.00	ABANDP	45	A	P		MIRU SCAN TECH, SCAN 192 JNTS 2-3/8 J-55 TBG, 138 YELLOW BAND, 27 BLUE BAND, 27 RED BAND [JUNK] HOLE IN JNT #172. R/DSCAN TECH, SWIFN.
2/4/2016	7:00 - 7:15	0.25	ABANDP	48		P		HSM, TALK ABOUT ICE PLUGS
	7:15 - 9:30	2.25						SICP=325#, CONTROL WELL W/ 20 BBLS, MIRU CUTTERS WIRE LINE, RUN GAUGE RING TO 4,800', SET CIBP @=4,750',
	9:30 - 11:00	1.50	ABANDP	31	I	P		P/U 149 JNTS 2-3/8 TBG, EOT @=4,742'
	11:00 - 18:00	7.00	ABANDP	51	D	P		MIRU PRO PETRO, FILL HOLE PRESSURE TEST TO 500#, HOLD FOR 10 MIN. RELEASE PRESSURE, PUMP 8 SX CLASS G CEMENT [TOC @=4,612] [PLUG #2] L/D 16 JNT, EOT @=4,242', PUMP 20 SX CLASS G W/ TOC @=3,982' PLUG #3] L/D 46 JNTS W/ EOT@=2,778' PUMP 25 SX CLASS G CEMENT W/ TOC @=2,453' PLUG #4]L/D 14 JNTS W/ EOT @=2,333' PUMP 10 SX CLASS G CEMENT W/ TOC @=2,203' PLUG #5] L/D 31 JNTS W/ EOT @=1,349' PUMP 16 SX CLASS G CEMENT W/ TOC @=1,141' PLUG #5] FINISH L/D TBG. MIRU CUTTERS RIH W/ PERF GUN SHOOT HOLES @=290', 1' GUN W/ 4 SPF. MAKE SURRE CIRC SURFAC CSG, R/D CUTTERS. R/D TBG EQUIP, N/D BOPS. CIRC CEMENT TO SURFACE. DIG DOWN CUT CONDUCTOR PIPE AND CSG, PUT MARKER ON