

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> NBU 662-24E
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="radio"/> REENTER P&A WELL <input type="radio"/> DEEPEN WELL <input type="radio"/>		<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES
<b>4. TYPE OF WELL</b> Gas Well      Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES
<b>6. NAME OF OPERATOR</b> EOG Resources, Inc.		<b>7. OPERATOR PHONE</b> 435 781-9111
<b>8. ADDRESS OF OPERATOR</b> 1060 East Highway 40, Vernal, UT, 84078		<b>9. OPERATOR E-MAIL</b> kaylene_gardner@eogresources.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-22790	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input checked="" type="radio"/> FEE <input type="radio"/>	
<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="radio"/> INDIAN <input type="radio"/> STATE <input checked="" type="radio"/> FEE <input type="radio"/>		<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> S
<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>		<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> ,, UT
<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>		<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>
<b>18. INTEND TO COMMINGLE PRODUCTION DOWNSTREAM</b> YES <input type="radio"/> (Submit Commingling Application) NO <input checked="" type="radio"/>		<b>19. SLANT</b> VERTICAL <input checked="" type="radio"/> DIRECTIONAL <input type="radio"/> HORIZONTAL <input type="radio"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	809 FSL 807 FWL	SWSW	24	10.0 S	20.0 E	S
Top of Uppermost Producing Zone	809 FSL 807 FWL	SWSW	24	10.0 S	20.0 E	S
At Total Depth	809 FSL 807 FWL	SWSW	24	10.0 S	20.0 E	S

<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 807	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 440
<b>24. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1600	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1600	<b>26. PROPOSED DEPTH</b> MD: 7216 TVD: 7216
<b>27. ELEVATION - GROUND LEVEL</b> 5211	<b>28. BOND NUMBER</b> 6196017	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> State Water Right #49-225 (A31368)

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE 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 type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

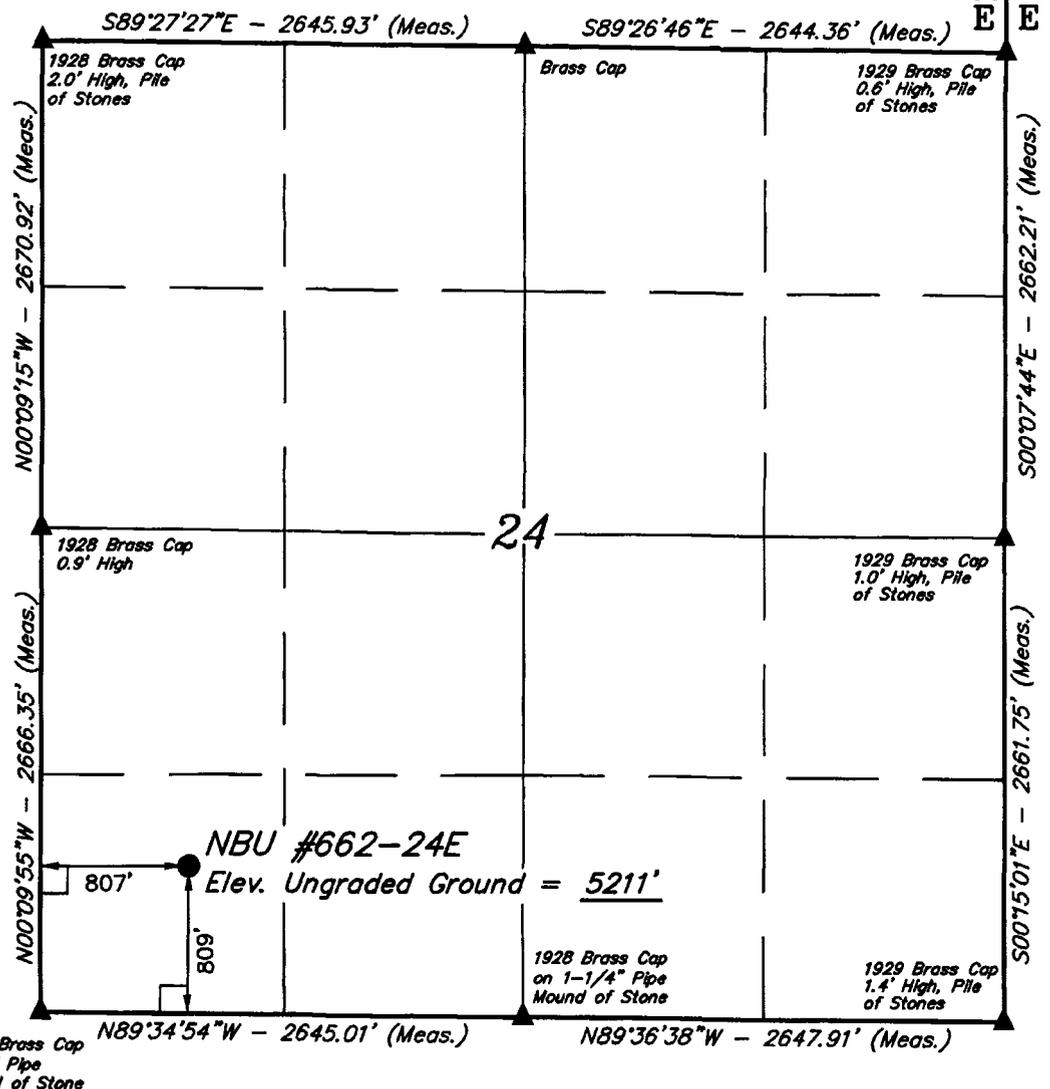
<b>NAME</b> Mary Maestas	<b>TITLE</b> Regulatory Assistant	<b>PHONE</b> 303 824-5526
<b>SIGNATURE</b>	<b>DATE</b> 12/04/2007	<b>EMAIL</b> mary_maestas@eogresources.com
<b>API NUMBER ASSIGNED</b> 43047500170000		<b>APPROVAL</b>

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 12-14-08  
By: [Signature]

T10S, R20E, S.L.B.&M.

R 20  
E



**EOG RESOURCES, INC.**

Well location, NBU #662-24E, located as shown in the SW 1/4 SW 1/4 of Section 24, T10S, R20E, S.L.B.&M., Uintah County Utah.

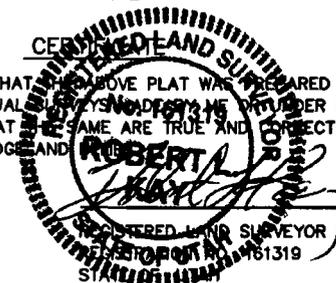
**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



SCALE

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



**BASIS OF BEARINGS**

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

(NAD 83)  
 LATITUDE = 39°55'39.83" (39.927731)  
 LONGITUDE = 109°37'14.51" (109.620697)  
 (NAD 27)  
 LATITUDE = 39°55'39.95" (39.927764)  
 LONGITUDE = 109°37'12.03" (109.620007)

**LEGEND:**

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

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

SCALE 1" = 1000'	DATE SURVEYED: 10-11-07	DATE DRAWN: 10-18-07
PARTY A.F.    B.A.    S.G.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE EOG RESOURCES, INC.	

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Cond	17.5	13.375	0	45		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	H-40	45	48.0			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	45			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			C	0	0.0	0.0

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Surf	12.25	9.625	0	2300		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	J-55	2300	36.0			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	2300			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			G	185	3.82	11.0
			G	207	1.18	15.6

**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	7216		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	N-80	7216	11.6			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	7216			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			G	121	3.91	11.0
			G	575	1.28	14.1



## EIGHT POINT PLAN

### NATURAL BUTTES UNIT 662-24E SW/SW, SEC. 24, T10S, R20E, 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 662-24E**  
**SW/SW, SEC. 24, T10S, R20E, 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:** 121 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:** 575 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., 5.9gps 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 662-24E**  
**SW/SW, SEC. 24, T10S, R20E, 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

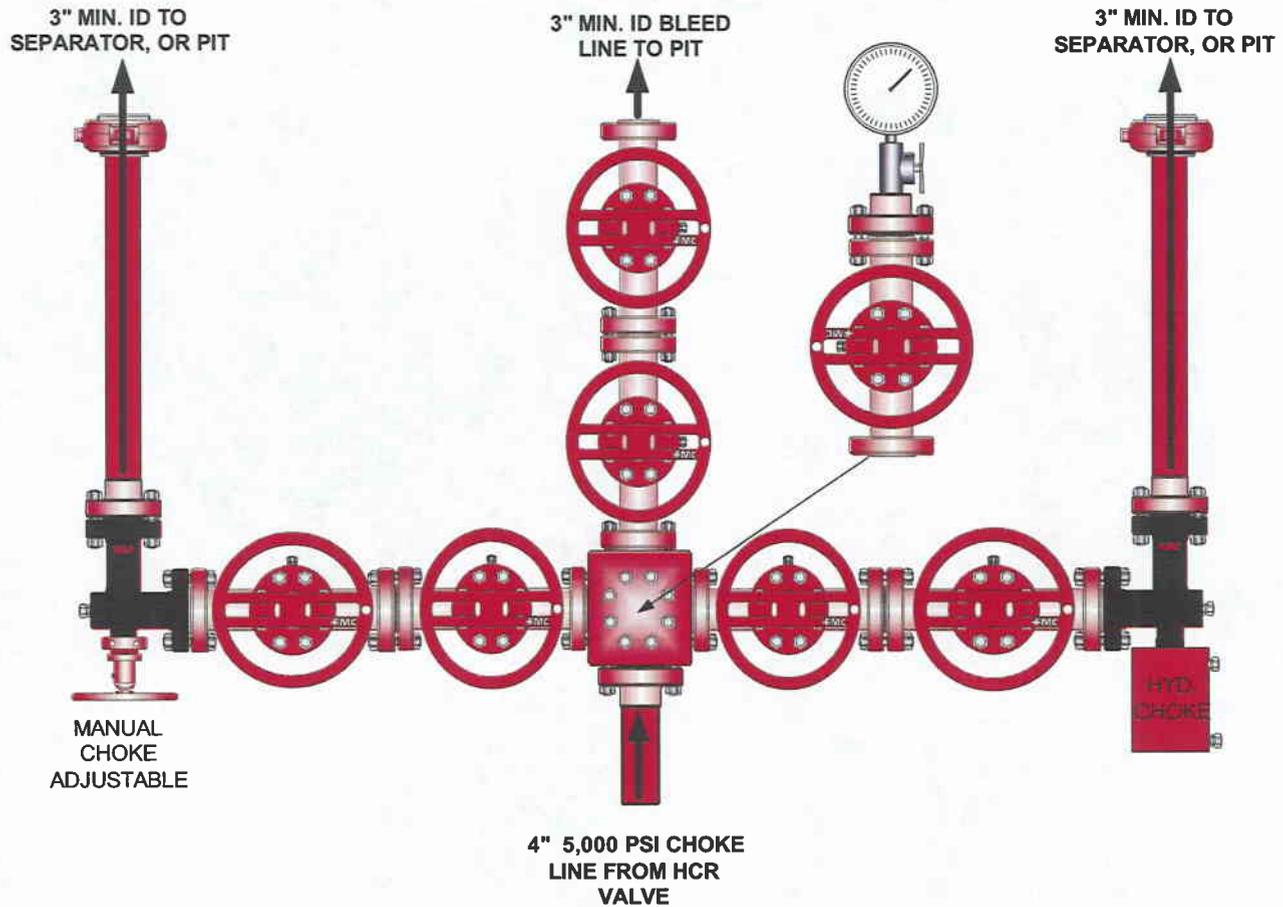
**12. HAZARDOUS CHEMICALS:**

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 CHOKER MANIFOLD CONFIGURATION  
W/ 5,000 PSI WP VALVES**

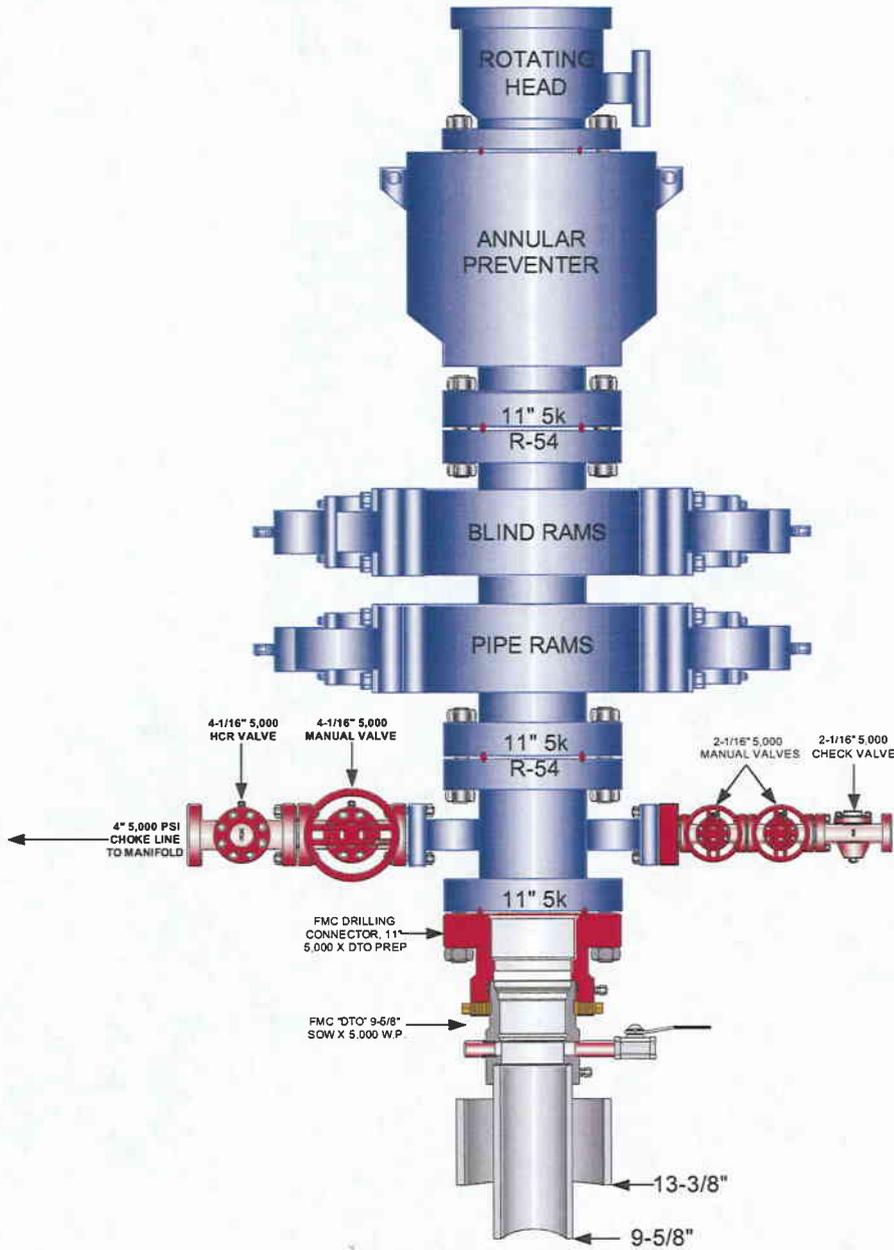
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**Testing Procedure:**

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.

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





**Natural Buttes Unit 662-24E  
SWSW, Section 24, T10S, R20E  
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 44.5 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 1584' in length. See attached Topo B.
- B. The access road has a 40-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 be 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, Fourth 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 3627' x 40'. The proposed pipeline leaves the southern edge of the well pad (Lease ML-22790) proceeding in a northerly, then easterly, then southerly direction for an approximate distance of 3627' tying into an existing pipeline in the SESW of Section 24, T10S, R20E. 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. 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 or Covert Green.** 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) will be used 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 as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

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

The stockpiled pit topsoil (first six inches) will be stored separate from the location topsoil. The stockpiled location topsoil will be stored in a location providing easy access for interim reclamation and protection of the topsoil. 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 north.

**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. 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

the actions of its subcontractors. A complete copy of the approved "Application for Permit to 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, as needed, 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 paleontology survey will be conducted and submitted by Intermountain Paleo-Consulting.

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

**PERMITTING AGENT**

Mary A. Maestas  
EOG Resources, Inc.  
1060 East Highway 40  
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 662-24E Well, located in the SWSW, of Section 24, T10S, R20E, 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.

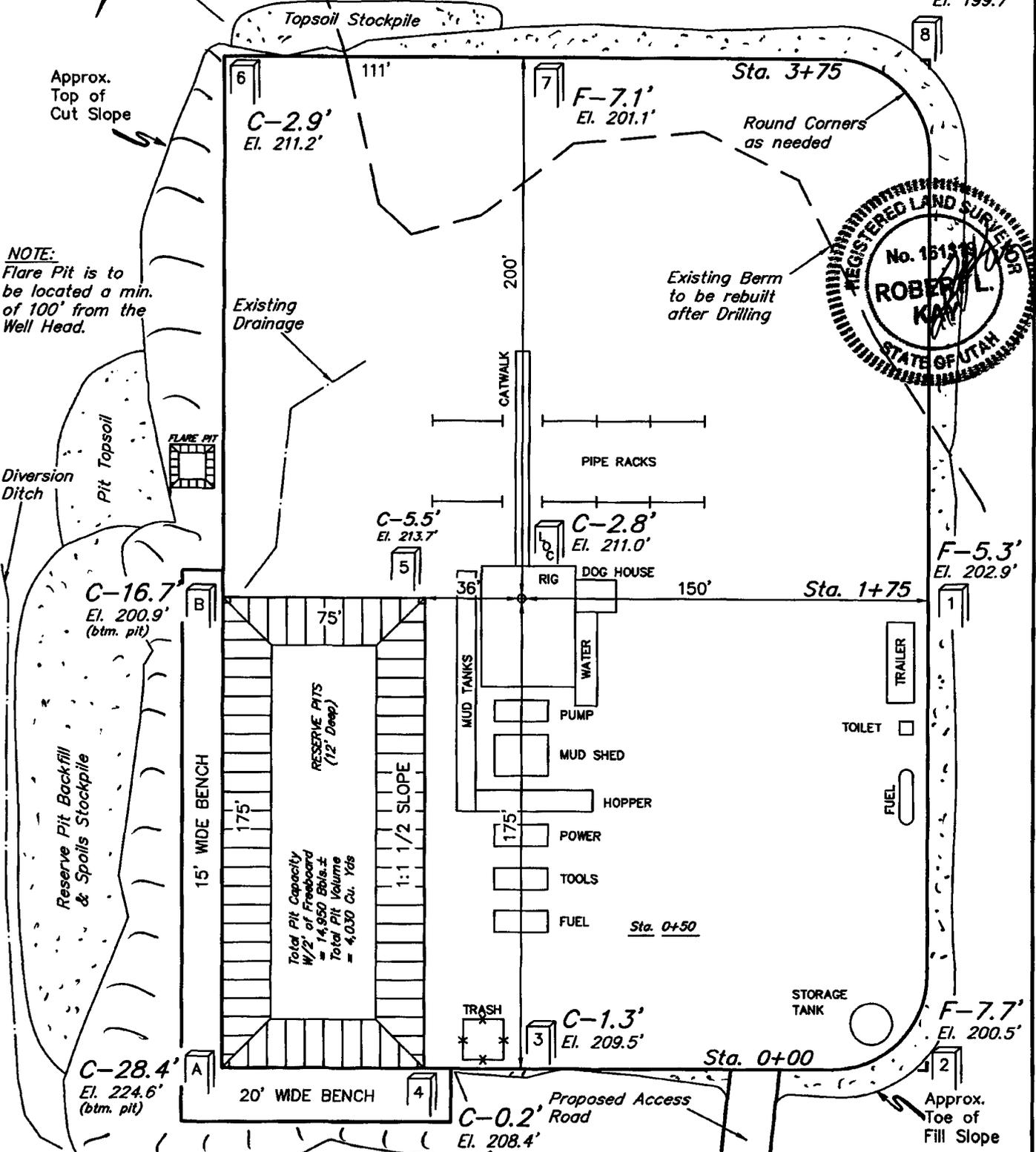
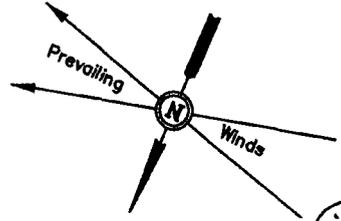
November 13, 2007  
Date

\_\_\_\_\_  
Mary A. Maestas, Regulatory Assistant

**EOG RESOURCES, INC.**

**FIGURE #1**

LOCATION LAYOUT FOR  
 NBU #662-24E  
 SECTION 24, T10S, R20E, S.L.B.&M.  
 809' FSL 807' FWL



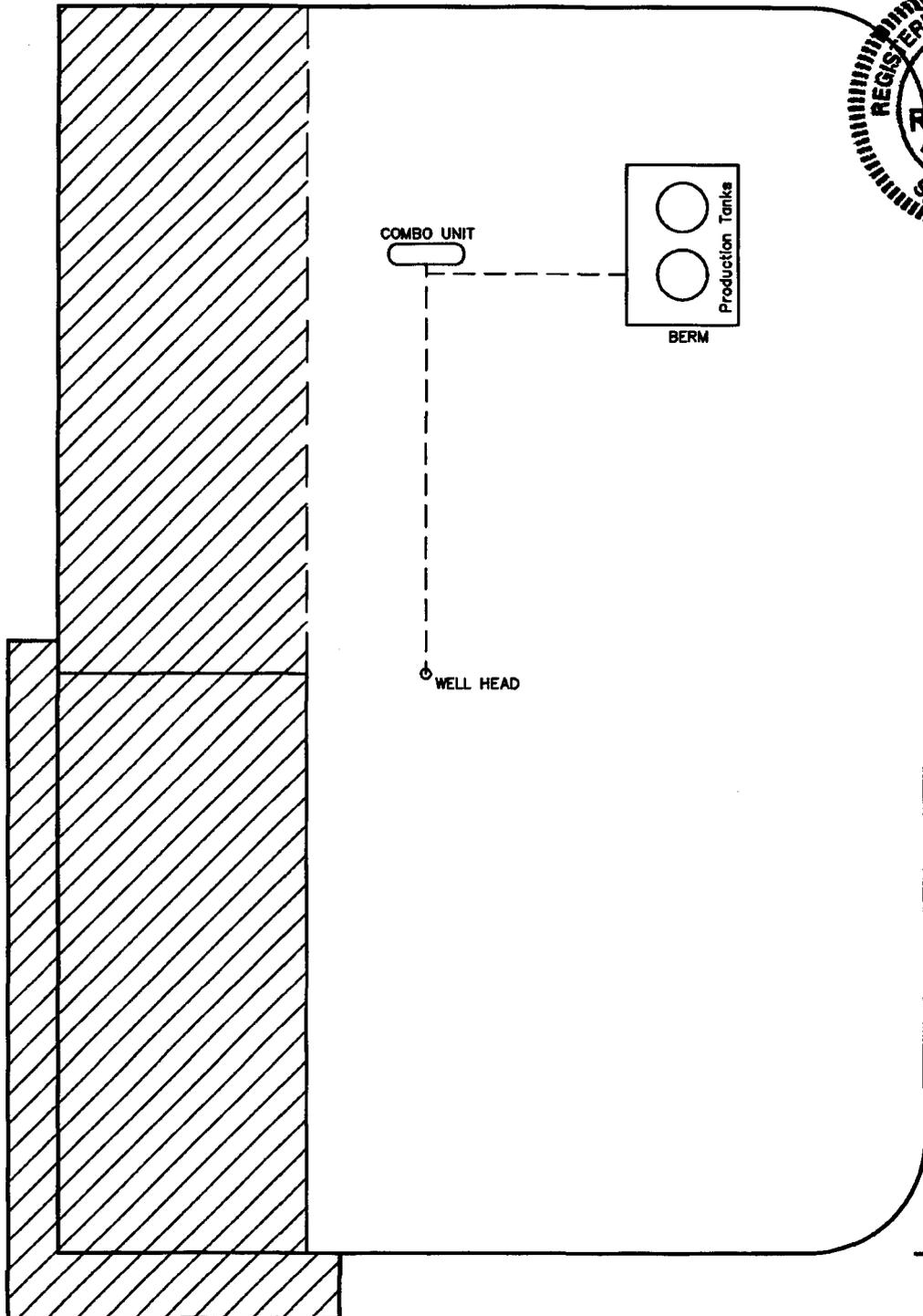
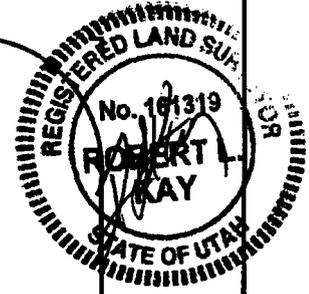
Elev. Ungraded Ground at Location Stake = 5211.0'  
 Elev. Graded Ground at Location Stake = 5208.2'

**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
NBU #662-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
809' FSL 807' FWL

**FIGURE #3**



SCALE: 1" = 50'  
DATE: 10-19-07  
Drawn By: S.G.



 RE-HABED AREA

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

EOG RESOURCES, INC.

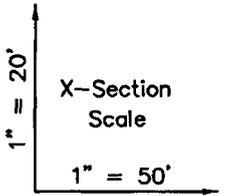
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #662-24E

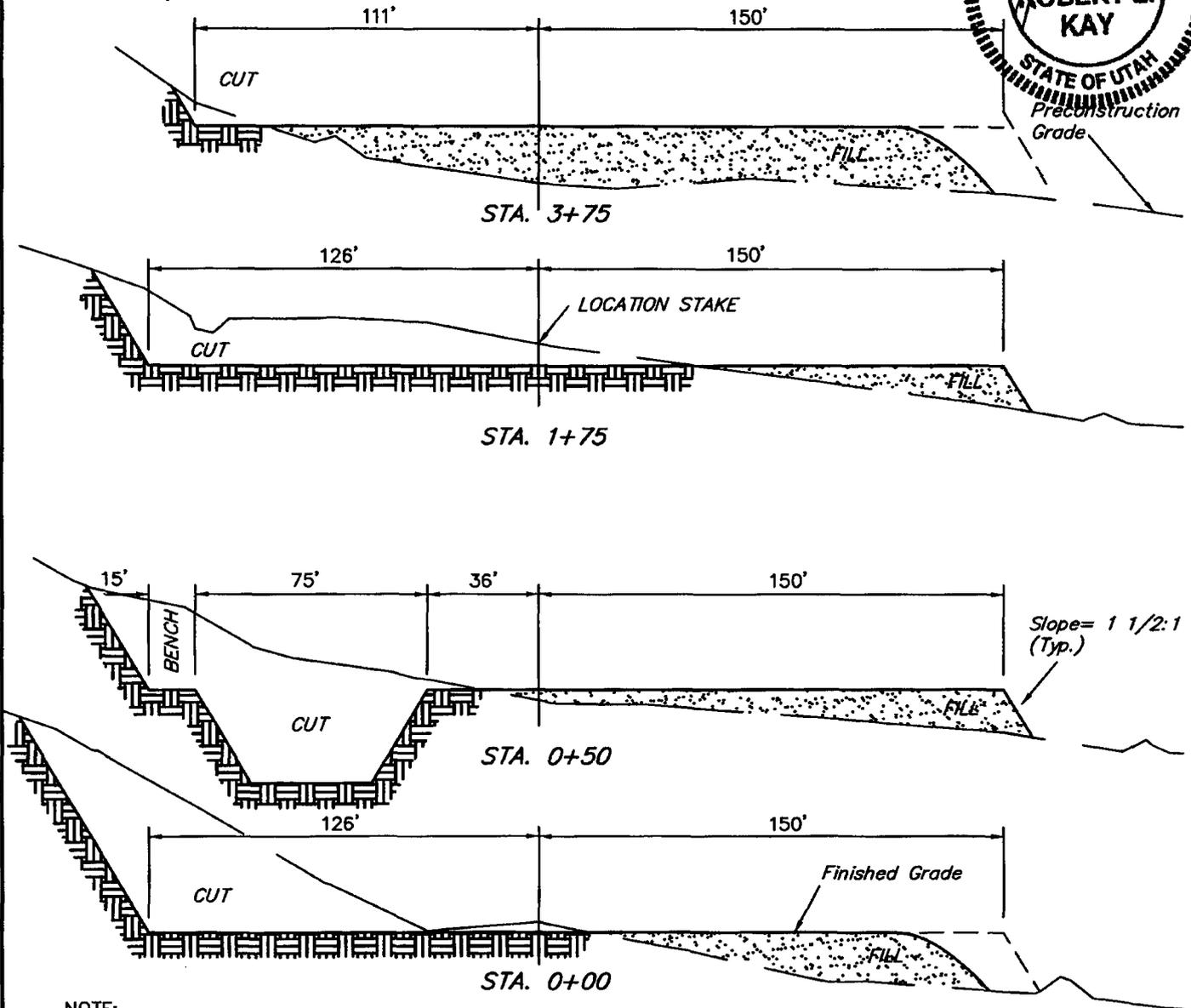
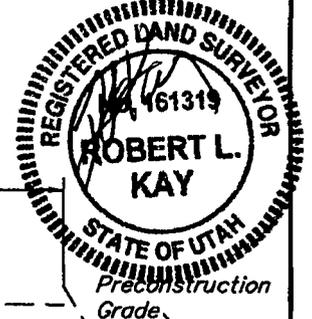
SECTION 24, T10S, R20E, S.L.B.&M.

809' FSL 807' FWL



DATE: 10-19-07

Drawn By: S.G.



NOTE:

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

\* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,360 Cu. Yds.
Remaining Location	= 12,490 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 14,850 CU.YDS.</b>
<b>FILL</b>	<b>= 10,480 CU.YDS.</b>

EXCESS MATERIAL	= 4,370 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,370 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

# EOG RESOURCES, INC.

NBU #662-24E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 24, T10S, R20E, S.L.B.&M.

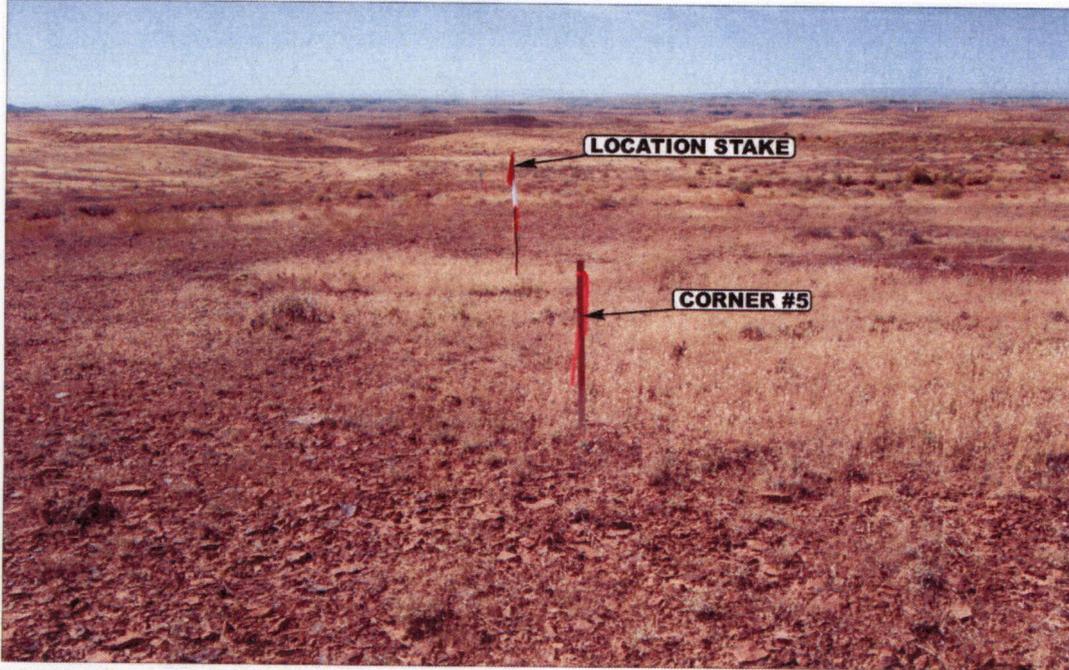


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -

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

LOCATION PHOTOS

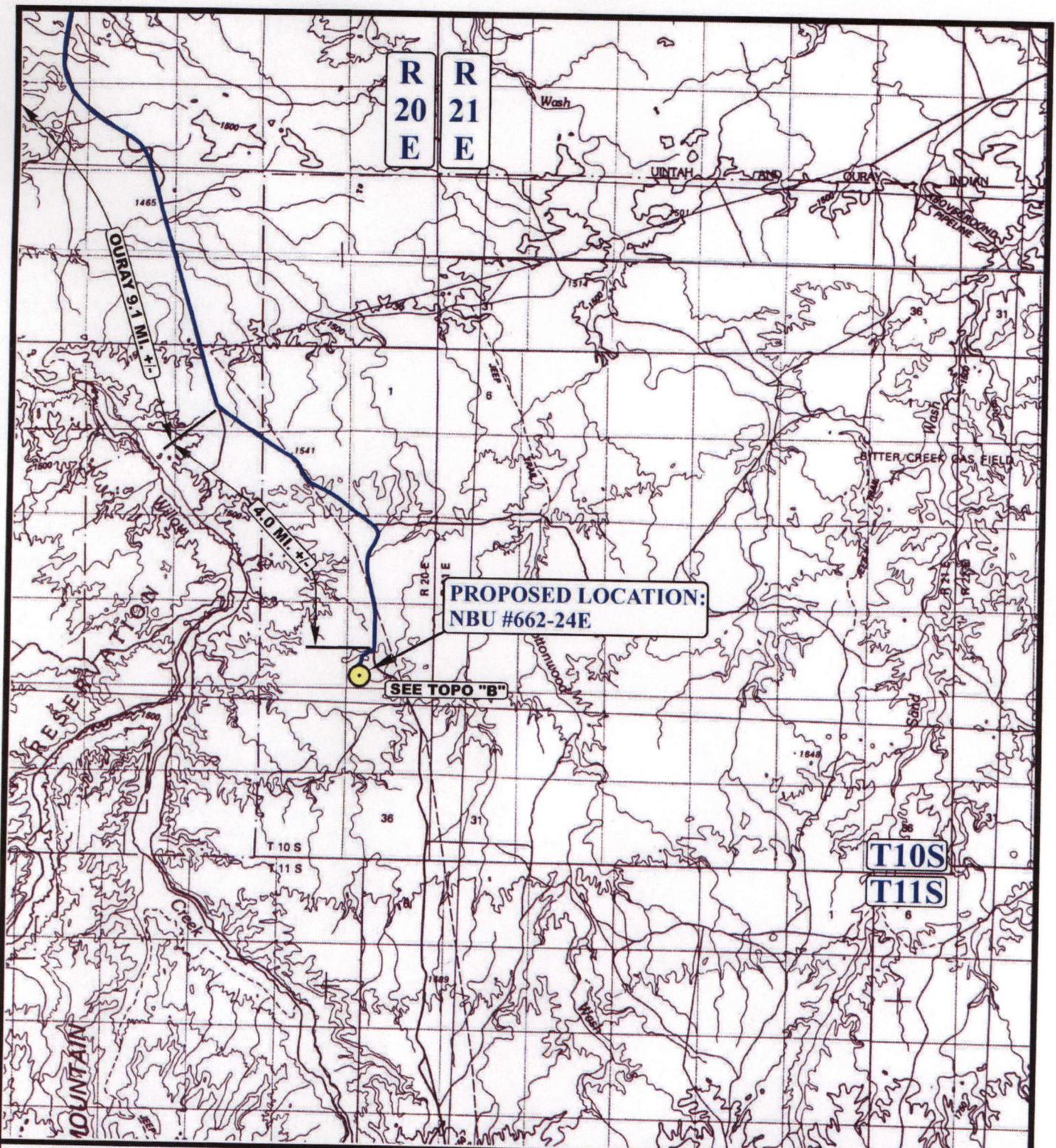
10 17 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: A.F.

DRAWN BY: C.P.

REVISED: 00-00-00



**PROPOSED LOCATION:  
NBU #662-24E**

**SEE TOPO "B"**

**LEGEND:**  
 PROPOSED LOCATION

**EOG RESOURCES, INC.**

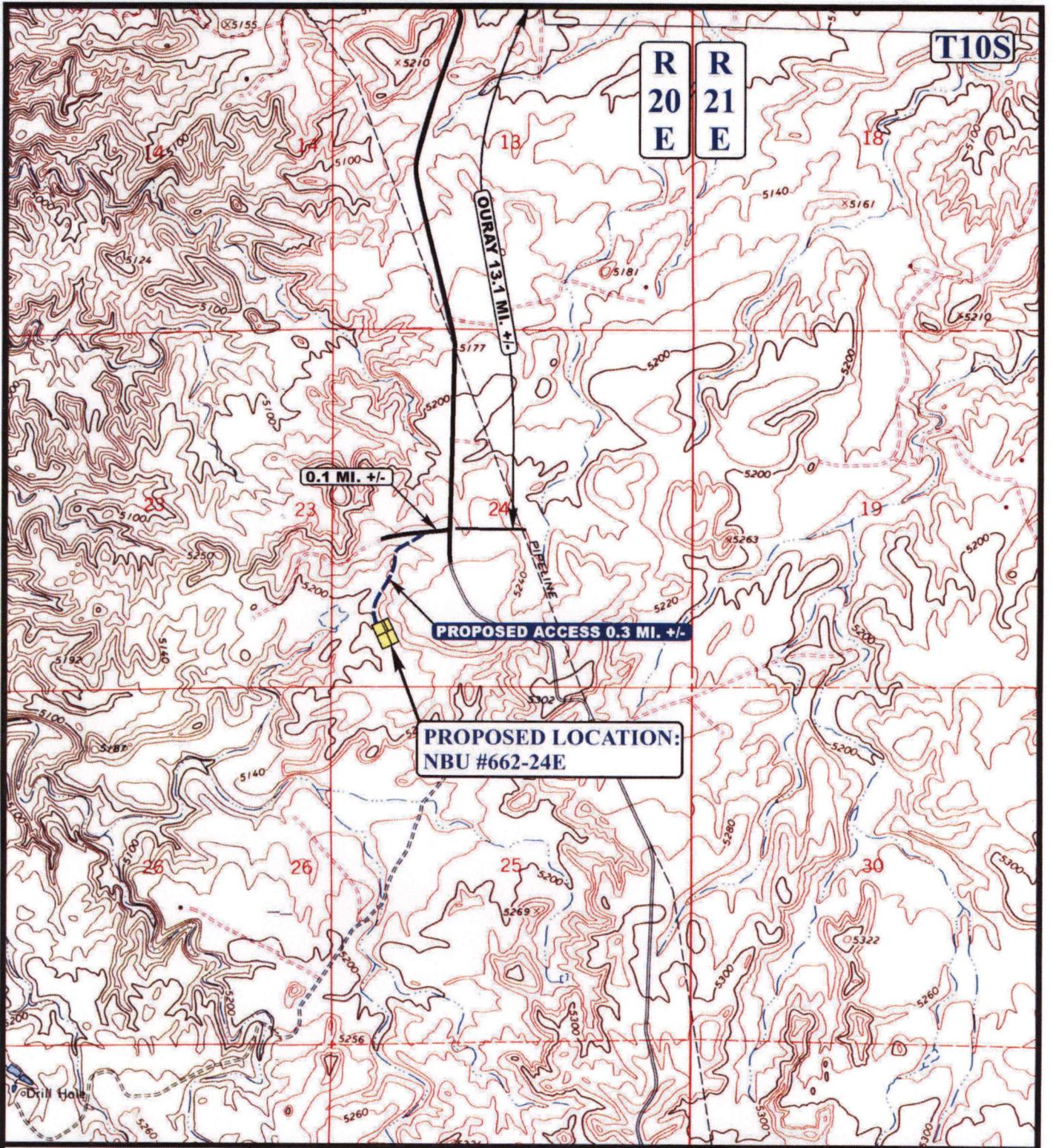
**NBU #662-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
809' FSL 807' FWL**

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



**TOPOGRAPHIC** 10 17 07  
**MAP** MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00

**A**  
**TOPO**



**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



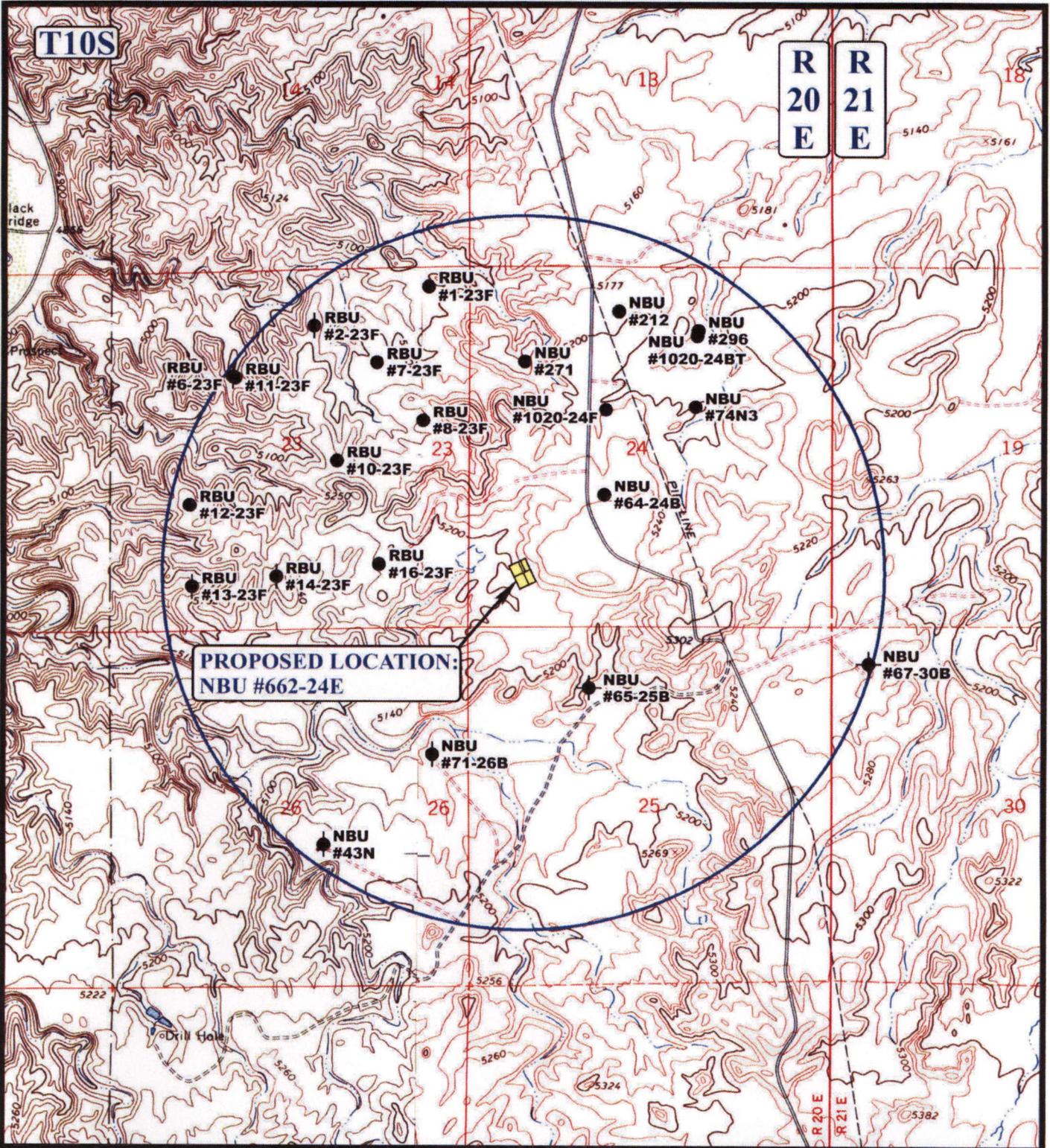
**EOG RESOURCES, INC.**

NBU #662-24E  
 SECTION 24, T10S, R20E, S.L.B.&M.  
 809' FSL 807' FWL

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

**TOPOGRAPHIC MAP**  
 10 17 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00

**B**  
 TOPO



**LEGEND:**

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

**N**



**EOG RESOURCES, INC.**

**NBU #662-24E**  
**SECTION 24, T10S, R20E, S.L.B.&M.**  
**809' FSL 807' FWL**



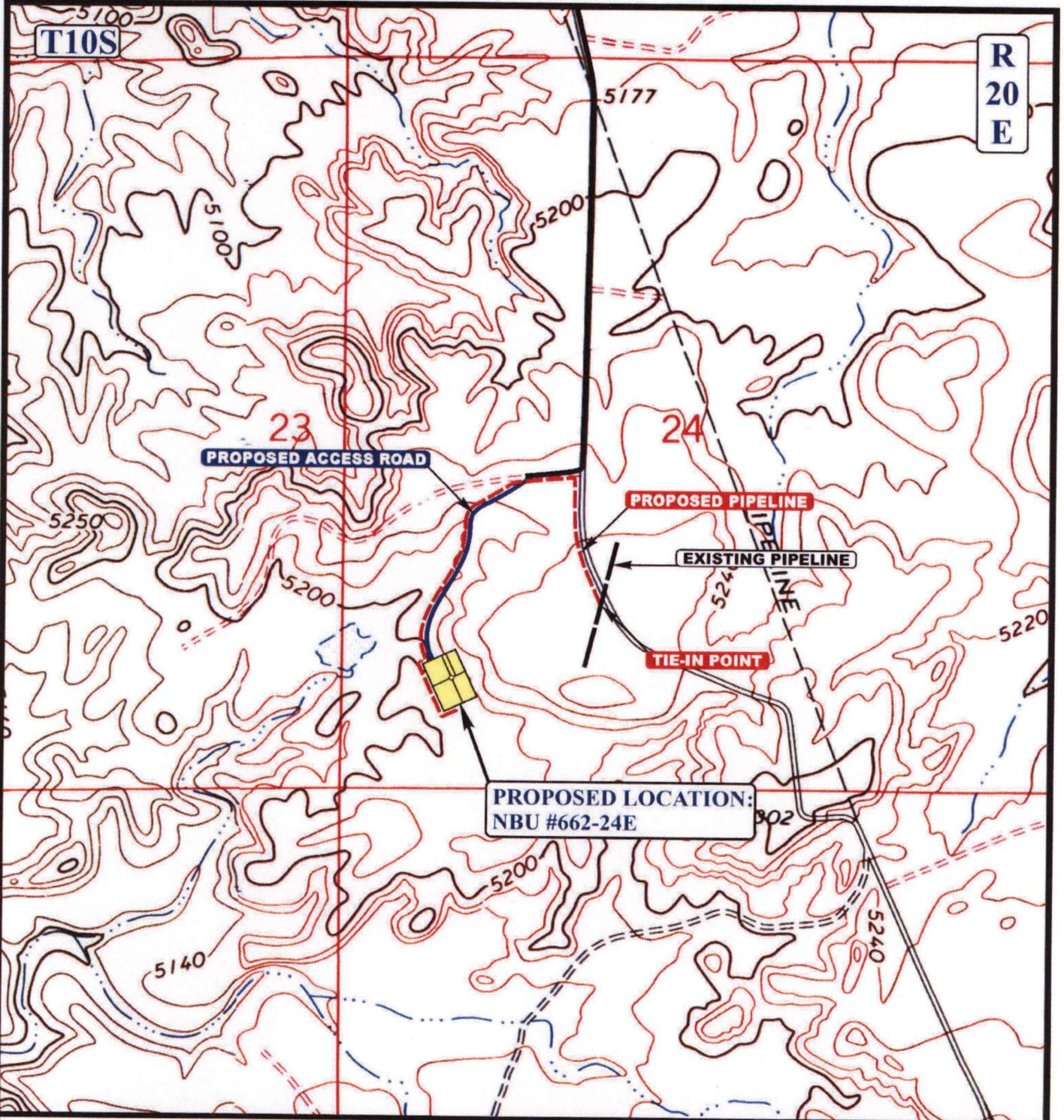
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**10 17 07**  
 MONTH DAY YEAR



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



**APPROXIMATE TOTAL PIPELINE DISTANCE = 3,627' +/-**

**LEGEND:**

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

**EOG RESOURCES, INC.**

NBU #662-24E  
SECTION 24, T10S, R20E, S.L.B.&M.  
809' FSL 807' FWL



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

**TOPOGRAPHIC** 10 17 07  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

**D**  
**TOPO**

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/30/2007

API NO. ASSIGNED: 43-047-50017

WELL NAME: NBU 662-24E  
 OPERATOR: EOG RESOURCES, INC. ( N9550 )  
 CONTACT: Mary Maestas

PHONE NUMBER: 303 824-5526

PROPOSED LOCATION:

SWSW 24 100S 200E  
 SURFACE: 0809 FSL 0807 FWL  
 BOTTOM: 0809 FSL 0807 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.92818 LONGITUDE: -109.6195  
 UTM SURF EASTINGS: 617969 NORTHINGS: 4420488  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DWD	1/4/08
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-22790  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: NHORN  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

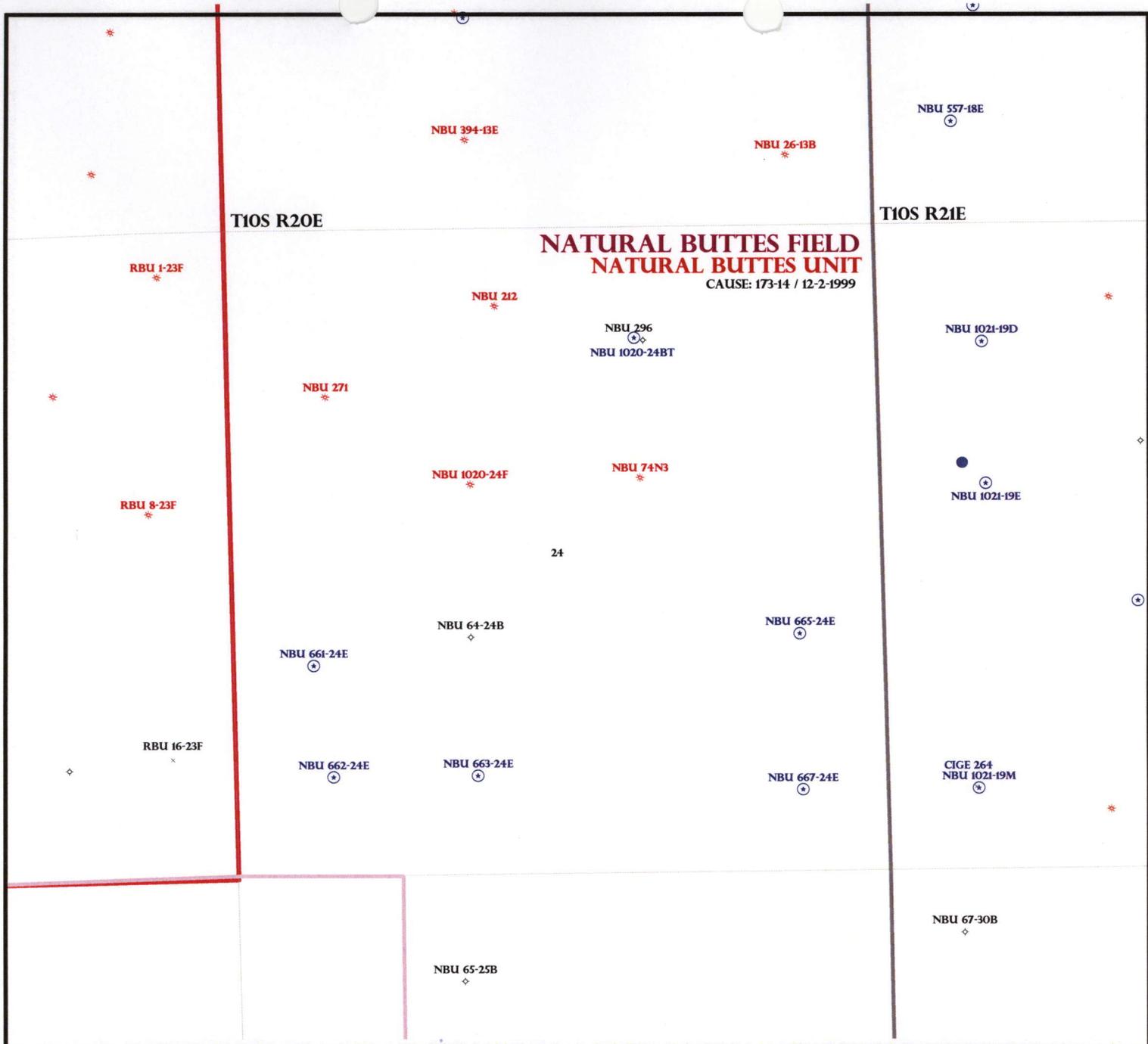
- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 6196017 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 49-225 (A3) )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_ R649-2-3.
- Unit: NATURAL BUTTES OK
- \_\_\_\_ R649-3-2. General  
Siting: 460' From Qtr/Qtr & 920' Between Wells
- \_\_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 173-14  
Eff Date: 12-2-1999  
Siting: 400' W U649-3-11. S. U. M. M. S. S. S.
- \_\_\_\_ R649-3-11. Directional Drill

COMMENTS: Needs Duesite (12-04-07)

STIPULATIONS: 1- OIL SHALE  
2- STATEMENT OF BASIS  
3- Surface Csg Cmt Stip  
4- Cmt Stip #3 (4 1/2" production, 2100' MD)



**NATURAL BUTTES FIELD  
NATURAL BUTTES UNIT**  
CAUSE: 173-14 / 12-2-1999

OPERATOR: EOG RESOURCES INC (N9550)

SEC: 24 T.10S R. 20E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

- 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

- 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



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 05-DECEMBER-2007

# Application for Permit to Drill

## Statement of Basis

12/18/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
608	43-047-50017-00-00	SITLA	GW	S	No
<b>Operator</b>	EOG RESOURCES, INC.	<b>Surface Owner-APD</b>			
<b>Well Name</b>	NBU 662-24E	<b>Unit</b>	NATURAL BUTTES		
<b>Field</b>	NATURAL BUTTES	<b>Type of Work</b>	DRILL		
<b>Location</b>	SWSW 24 10S 20E S 809 FSL 807 FWL GPS Coord (UTM) 617969E 4420488N				

### Geologic Statement of Basis

EOG proposes to set 2300' 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 5,200'. A search of Division of Water Rights records shows 3 water wells within a 10,000 foot radius of the center of section 24. The wells are listed as industrial use wells for use in the oil shale industry and are over a mile from the proposed site. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought to above the base of the moderately saline groundwater in order to isolate it from fresher waters uphole.

Brad Hill  
APD Evaluator

12/18/2007  
Date / Time

### Surface Statement of Basis

The general area is approximately 45 miles southwest of Vernal, Utah and 14 miles south of Ouray, Utah in the west end of the Natural Buttes oil field unit. The Seep ridge road bisects the section. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek or northerly about 12 miles to the White River. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Both Willow Creek and White River contain perennial streams. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs. A pond is located about 1/8 mile to the southwest of the location.

The NBU # 662-24E proposed gas well is 13.5 miles southeast of Ouray and is accessed by the Uintah County Seep Ridge Road and existing or planned oil field development roads to within 0.1 miles of the site where a new road will be constructed. The location is west of the Seep Ridge road at the toe of a west facing steep sided slope. Several breaks or small side drainages are to the west and north. The pit is proposed on west side slope. The spoils from the pit will contain runoff from the steep face above or east of the pit until it is closed. When the pit is closed a diversion is needed around the location. It appears an old ditch was constructed to intercept water from this side slope and to the south and drain it into a pond to the west of the location. The pad will cover some of this ditch. It is not known if the ditch and pond are functional as they were covered with snow. EOG offered to construct a diversion intercepting side-hill overland flow draining it into this ditch beyond the location. This would be done after the pit is closed. The pond will also be cleaned if needed. SITLA was not present to agree to this proposal.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to the pre-site evaluation. Neither attended. Approximately 6 inches of snow covered the area. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

Daniel Emmett representing the UDWR stated the area is classified as yearlong crucial habitat for antelope but water not forage is the factor limiting the growth of the herd. He did not recommend any restrictions for this

---

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

12/18/2007

Page 2

species. No other wildlife species are expected to be significantly affected. He furnished Byron Tolman representing EOG, a copy of his wildlife evaluation and a recommended seed mix to be used when the site is re-vegetated.

Floyd Bartlett  
Onsite Evaluator

12/4/2007  
Date / Time

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

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** EOG RESOURCES, INC.  
**Well Name** NBU 662-24E  
**API Number** 43-047-50017-0      **APD No** 608      **Field/Unit** NATURAL BUTTES  
**Location:** 1/4,1/4 SWSW      **Sec** 24      **Tw** 10S      **Rng** 20E      809 FSL 807 FWL  
**GPS Coord (UTM)**      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Byron Tolman ( Agent for EOG), Daniel Emmett (Utah Division of Wildlife Resources)

### Regional/Local Setting & Topography

The general area is approximately 45 miles southwest of Vernal, Utah and 14 miles south of Ouray, Utah in the west end of the Natural Buttes oil field unit. The Seep ridge road bisects the section. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek or northerly about 12 miles to the White River. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Both Willow Creek and White River contain perennial streams. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs. A pond is located about 1/8 mile to the southwest of the location.

The NBU # 662-24E proposed gas well is 13.5 miles southeast of Ouray and is accessed by the Uintah County Seep Ridge Road and existing or planned oil field development roads to within 0.1 miles of the site where a new road will be constructed. The location is west of the Seep Ridge road at the toe of a west facing steep sided slope. Several breaks or small side drainages are to the west and north. The pit is proposed on west side slope. The spoils from the pit will contain runoff from the steep face above or east of the pit until it is closed. When the pit is closed a diversion is needed around the location. It appears an old ditch was constructed to intercept water from this side slope and to the south and drain it into a pond to the west of the location. The pad will cover some of this ditch. It is not known if the ditch and pond are functional as they were covered with snow. EOG offered to construct a diversion intercepting side-hill overland flow draining it into this ditch beyond the location. This would be done after the pit is closed. The pond will also be cleaned if needed. SITLA was not present to agree to this proposal.

Both the surface and minerals are owned by SITLA. Approximately 6 inches of snow covered the area. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlife Habitat

#### **New Road**

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

Ancillary Facilities N

### Waste Management Plan Adequate?

### Environmental Parameters

Affected Floodplains and/or Wetland N

**Flora / Fauna**

Approximately 6 inches of snow covered the area. Identifiable plants included broom snakeweed, shadscale, cheat grass, greasewood and Gardner saltbrush.

Antelope, coyotes, rabbits and miscellaneous small mammals and birds.

**Soil Type and Characteristics**

Shallow sandy clay loam with some surface rock is the probable surface soil.

**Erosion Issues** N

**Sedimentation Issues** Y

**Site Stability Issues** N

**Drainage Diversion Required** Y

The pit is proposed on west side slope. The spoils from the pit will contain runoff from the steep face above or east of the pit until it is closed. When the pit is closed a diversion is needed around the location.

**Berm Required?** N

**Erosion Sedimentation Control Required?** Y

The pit is proposed on west side slope. The spoils from the pit will contain runoff from the steep face above or east of the pit until it is closed. When the pit is closed a diversion is needed around the location.

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

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>
<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	300 to 1000	2
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	10 to 20	5
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	32    1 <b>Sensitivity Level</b>

**Characteristics / Requirements**

A 75' x 175' x 10' deep reserve pit is planned in an area of cut on the northeast corner of the location. It will be lined with a 16-mil liner with an appropriate thickness of felt sub-liner.

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

**Other Observations / Comments**

ATV's were used to access the site.

GPS was not working. Center Stake location was not recorded. Only 3 pictures taken. Camera problems.

Floyd Bartlett  
Evaluator

12/4/2007  
Date / Time

2007-12 EOG NBU 662-24E

Casing Schematic

BHP  $0.052(7216)10.5 = 3940 \text{ psi}$   
Anticipate 3941 psi

Gas  $.12(7216) = 865$   
3074 psi MASP

BOPE SM ✓

Burst 3520  
70% 2464 psi

9-5/8"  
MW 8.4  
Frac 19.3

Max P @ surf. shoe  
 $.22(2916) = 642$   
3298 psi

Test to 2400 psi ✓

Stop surf. cmt.

✓ Adequate  
Dued 1/4/08



4-1/2"  
MW 10.5

Surface

12 3/4%

15%

Uinta

TOC @ 652. to surf. w/ 0% ✓  
\* stop

1123' Green River

EOG cmt to surf, tail to 1877' 500' above shoe  
tail

Surface  
2300. MD

TOC @ 3363.

Propose cmt to 2100' ✓  
tail to 400' above  
Wasatch  
proposed vol = gauge hole  
step # 3

4421' Wasatch

4871' tail  
5051' Chapita Wells  
5200± BMSW

5758' Buck Canyon

6541' North Horn

Production  
7216. MD

Well name:	<b>2007-12 EOG NBU 662-24E</b>		
Operator:	<b>EOG Resources Inc.</b>	Project ID:	43-047-50017
String type:	Surface		
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: 652 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 7,216 ft  
 Next mud weight: 10.500 ppg  
 Next setting BHP: 3,936 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: December 28, 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:	<b>2007-12 EOG NBU 662-24E</b>		
Operator:	<b>EOG Resources Inc.</b>		Project ID:
String type:	Production		43-047-50017
Location:	Uintah County		

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 2,348 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 3,936 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: 6,083 ft

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 176 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 3,363 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	7216	4.5	11.60	N-80	LT&C	7216	7216	3.875	629.7
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	3936	6350	1.613	3936	7780	1.98	71	223	3.16 J

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

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

Date: December 28, 2007  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 7216 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.

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 6/10/2008 11:29 AM  
**Subject:** Well Clearance

**CC:** Davis, Jim; Garrison, LaVonne; Hill, Brad; Jarvis, Dan

The following wells have been given cultural resources and paleontological resources clearance by the Trust Lands Administration:

EOG Resources, Inc

NBU 662-24E (API 43 047 50017)  
NBU 665-24E (API 43 047 50018)  
CWU 1376-32 (API 43 047 50020)  
CWU 1390-32 (API 43 047 50021)  
CWU 1377-32 (API 43 047 50022)  
NBU 691-29E (API 43 047 50027)  
NBU 669-29E (API 43 047 50030)  
NBU 667-24E (API 43 047 50012)  
CWU 743-02 (API 43 047 50023)

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 18, 2008

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

Re: NBU 662-24E Well, 809' FSL, 807' FWL, SW SW, Sec. 24, T. 10 South, R. 20 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 43-047-50017.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: \_\_\_\_\_ EOG Resources, Inc.

Well Name & Number \_\_\_\_\_ NBU 662-24E

API Number: \_\_\_\_\_ 43-047-50017

Lease: \_\_\_\_\_ ML-22790

Location: SW SW                      Sec. 24                      T. 10 South                      R. 20 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) 942-0871 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. Surface casing shall be cemented to the surface.
7. 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 2100' MD as indicated in the submitted drilling plan.
8. 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.

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: Multiple (See Attached)
2. NAME OF OPERATOR: EOG Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Natural Buttes Unit
3. ADDRESS OF OPERATOR: 1060 E. HWY 40 Vernal UT 84078		7. UNIT or CA AGREEMENT NAME: Natural Buttes Unit
4. LOCATION OF WELL FOOTAGES AT SURFACE: Multiple (See Attached)		8. WELL NAME and NUMBER: Multiple (See Attached)
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 10S 20E 24		9. API NUMBER: Multiple (See Attached)
PHONE NUMBER: (435) 789-0790		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
COUNTY: Uintah, UT		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input 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>Air Drilling Variance Request</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.

EOG Resources, Inc. respectfully requests authorization for air drilling operations, see attached.

COPY SENT TO OPERATOR

Date: 10.14.2008

Initials: KS

NAME (PLEASE PRINT) <u>Mickenzie Thacker</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u>Mickenzie Thacker</u>	DATE <u>9/17/2008</u>

(This space for State use only)

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 10/7/08  
BY: [Signature]  
(See Instructions on Reverse Side)

RECEIVED

SEP 22 2008

DIV. OF OIL, GAS & MINING

API #	Lease #	Well Name	Footages	¼-¼ Legal Description
43-047-39309	ML-22793	NBU 620-30E	1980' FNL 680' FWL	SWNW Sec. 30 T10S R21E
43-047-50019	UTU-08512-ST	NBU 639-13E	859' FNL 1902' FEL	NWNE Sec. 13 T10S R22E
43-047-50017	ML-22790	NBU 662-24E	809' FSL 807' FWL	SWSW Sec. 24 T10S R20E
43-047-39867	ML-22790	NBU 664-24E	1810' FSL 1781' FEL	NWSE Sec. 24 T10S R20E
43-047-50018	ML-22790	NBU 665-24E	1950' FSL 660' FEL	NESE Sec. 24 T10S R20E
43-047-50012	ML-22790	NBU 667-24E	660' FSL 660' FEL	SESE Sec. 24 T10S R20E
43-047-50030	UO-1207-ST	NBU 669-29E	1927' FNL 1980' FEL	SWNE Sec. 29 T9S R22E
43-047-50027	UO-1207-ST	NBU 691-29E	680' FNL 797' FEL	NENE Sec. 29 T9S R22E

### **Air Drilling Operations:**

1. Main Air Compressors are 1250 CFM 350 psi with 2000 psi Boosters and are rig mounted.
2. Secondary Air Compressors are 1170 CFM 350 psi with 2000 psi Boosters and are rig mounted.
3. Minimum setting depth of conductor casing will be 60' GL or 10'± into competent formation, whichever is deeper, as determined by the EOG person in charge. Exceptions must be approved by an EOG drilling superintendent or manager.
4. The diameter of the diverter flow line will be a minimum of 10" to help reduce back pressure on the well bore during uncontrolled flow.
5. Rat and Mouse hole drilling will occur only after surface casing has been set and cemented.
6. EOG Resources, Inc. will use a properly maintained and lubricated stripper head.

### **VARIANCE REQUESTS:**

#### **Reference: Onshore Oil and Gas Order No. 1**

#### **Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations**

1. EOG Resources, Inc. requests a variance to regulations requiring a straight run blooie line to be 100' in length. (Where possible, a straight run blooie line will be used).
2. EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length. To reduce location excavation, the blooie line will be approximately 75' in length.
3. EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring dedusting equipment. Dust during air drilling operations is controlled by water mist.
4. EOG Resources, Inc. requests a variance to regulations, during air drilling operations only, requiring an automatic igniter or continuous pilot light on the blooie line. (Not required on aerated water system).
5. EOG Resources, Inc. requests a variance that compressors are located in the opposite direction from the blooie line a minimum of 100 feet from the well bore. (Air Compressors are rig mounted).

# DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

Name of Company: EOG RESOURCES INC

Well Name: NBU 662-24E

Api No: 43-047-50017 Lease Type: STATE

Section 24 Township 10S Range 20E County UINTAH

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # RATHOLE

### SPUDDED:

Date 02/09/2009

Time 10:30 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by JERRY BARNES

Telephone # (435) 828-1720

Date 02/09/2009 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

Operator: EOG RESOURCES Operator Account Number: N 9550  
 Address: 1060 East Highway 40  
 city VERNAL  
 state UT zip 84078 Phone Number: (435) 781-9145

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-38632	NATURAL BUTTES UNIT 762-26E		SWNE	26	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>AB</i>	99999	<i>2900</i>	2/9/2009		<i>2/19/09</i>		
Comments: <i>WASATCH = WSTMVD</i>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-50017	NATURAL BUTTES UNIT 662-24E		SWSW	24	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>AB</i>	99999	<i>2900</i>	2/9/2009		<i>2/19/09</i>		
Comments: <i>WASATCH</i> <i>NHORN = WSTC = WSTMVD</i>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-50011	NAUTAL BUTTES UNIT 661-24E		NWSW	24	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<i>AB</i>	99999	<i>2900</i>	2/11/2009		<i>2/19/09</i>		
Comments: <i>WASATCH</i> <i>NHORN = WSTC = WSTMVD</i>							

**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)

Mickenzie Thacker

Name (Please Print)

*Mickenzie Thacker*

Signature

Operations Clerk

2/12/2009

Title

Date

**RECEIVED**

**FEB 17 2009**

DIV. OF OIL, GAS & MINING

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-22790

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT or CA AGREEMENT NAME:  
Natural Buttes

1. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
Natural Buttes Unit 662-24E

2. NAME OF OPERATOR:  
EOG Resources, Inc.

9. API NUMBER:  
43-047-50017

3. ADDRESS OF OPERATOR:  
1060 East Highway 40 Vernal UT 84078

PHONE NUMBER:  
(435) 781-9145

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

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 809' FSL & 807' FWL 39.927731 Lat 109.620697 Lon

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 24 10S 20E S

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>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 was spud on 2/9/2009.

NAME (PLEASE PRINT) Mickenzie Thacker

TITLE Operations Clerk

SIGNATURE *Mickenzie Thacker*

DATE 2/12/2009

(This space for State use only)

RECEIVED  
FEB 17 2009

<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> ML-22790
<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 662-24E
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047500170000
<b>3. ADDRESS OF OPERATOR:</b> 600 17th Street, Suite 1000 N , Denver, CO, 80202	<b>PHONE NUMBER:</b> 435 781-9111 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0809 FSL 0807 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 24 Township: 10.0S Range: 20.0E 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 type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<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 checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 6/18/2009	<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 checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	<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
	<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: _____

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

The referenced well was turned to sales on 6/18/2009. Please see the attached operations summary report for drilling and completion operations performed on the subject well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 22, 2009

<b>NAME (PLEASE PRINT)</b> Mary Maestas	<b>PHONE NUMBER</b> 303 824-5526	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/18/2009	

# WELL CHRONOLOGY REPORT

Report Generated On: 06-18-2009

<b>Well Name</b>	NBU 662-24E	<b>Well Type</b>	DEVG	<b>Division</b>	DENVER
<b>Field</b>	NATURAL BUTTES UNIT	<b>API #</b>	43-047-50017	<b>Well Class</b>	COMP
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	02-25-2009	<b>Class Date</b>	
<b>Tax Credit</b>	N	<b>TVD / MD</b>	7,216/ 7,216	<b>Property #</b>	062369
<b>Water Depth</b>	0	<b>Last CSG</b>	2.375	<b>Shoe TVD / MD</b>	5,079/ 5,079
<b>KB / GL Elev</b>	5,221/ 5,208				
<b>Location</b>	Section 24, T10S, R20E, SWSW, 809 FSL & 807 FWL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL & COMPLETE		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	66.67	<b>NRI %</b>	49.395

<b>AFE No</b>	306041	<b>AFE Total</b>	1,276,835	<b>DHC / CWC</b>	567,835/ 709,000
<b>Rig Contr</b>	ELENBURG	<b>Rig Name</b>	ELENBURG #29	<b>Start Date</b>	02-04-2008
<b>02-04-2008</b>	<b>Reported By</b>	CYNTHIA HANSELMAN			
<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
06:00	06:00	24.0	LOCATION DATA
			809' FSL & 807' FWL (SW/SW)
			SECTION 24, T10S, R20E
			UINTAH COUNTY, UTAH
			LAT 39.927731, LONG 109.620697 (NAD 83)
			LAT 39.927764, LONG 109.620007 (NAD 27)
			ELENBURG #29
			OBJECTIVE: 7216' TD, WASATCH
			DW/GAS
			NATURAL BUTTES DEEP PROSPECT
			DD&A: NATURAL BUTTES
			NATURAL BUTTES FIELD
			LEASE: ML- 22790
			ELEVATION: 5211.0' NAT GL, 5208.2' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 5208') 5221' KB, (13')
			EOG WI 66.67%, NRI 49.394976%

**01-30-2009**      **Reported By**      NATALIE BRAYTON

**DailyCosts: Drilling**      \$67,000                      **Completion**      \$0                      **Daily Total**      \$67,000  
**Cum Costs: Drilling**      \$67,000                      **Completion**      \$0                      **Well Total**      \$67,000  
**MD**              0      **TVD**              0      **Progress**              0      **Days**              0      **MW**              0.0      **Visc**              0.0  
**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** BUILD LOCATION

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

**02-02-2009**      **Reported By**      TERRY CSERE

**DailyCosts: Drilling**      \$0                      **Completion**      \$0                      **Daily Total**      \$0  
**Cum Costs: Drilling**      \$67,000                      **Completion**      \$0                      **Well Total**      \$67,000  
**MD**              0      **TVD**              0      **Progress**              0      **Days**              0      **MW**              0.0      **Visc**              0.0  
**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 15% COMPLETE.

**02-03-2009**      **Reported By**      TERRY CSERE

**DailyCosts: Drilling**      \$0                      **Completion**      \$0                      **Daily Total**      \$0  
**Cum Costs: Drilling**      \$67,000                      **Completion**      \$0                      **Well Total**      \$67,000  
**MD**              0      **TVD**              0      **Progress**              0      **Days**              0      **MW**              0.0      **Visc**              0.0  
**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** BUILD LOCATION

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

**02-04-2009**      **Reported By**      TERRY CSERE

**DailyCosts: Drilling**      \$0                      **Completion**      \$0                      **Daily Total**      \$0  
**Cum Costs: Drilling**      \$67,000                      **Completion**      \$0                      **Well Total**      \$67,000  
**MD**              0      **TVD**              0      **Progress**              0      **Days**              0      **MW**              0.0      **Visc**              0.0  
**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	ROCKED OUT. DRILLING ROCK.

**02-05-2009**      **Reported By**      TERRY CSERE

**DailyCosts: Drilling**      \$0                      **Completion**      \$0                      **Daily Total**      \$0  
**Cum Costs: Drilling**      \$67,000                      **Completion**      \$0                      **Well Total**      \$67,000  
**MD**              0      **TVD**              0      **Progress**              0      **Days**              0      **MW**              0.0      **Visc**              0.0  
**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	DRILLING ROCK.

**02-06-2009**      **Reported By**      TERRY CSERE



06:00 06:00 24.0 MIRU CRAIGS DRILLING RIG #3 ON 02/09/2009. DRILLED 12-1/4" HOLE TO 2444' GL (2457' KB). ENCOUNTERED WATER AT 1522'. FLUID DRILLED HOLE 1642' WITH NO RETURNS. RAN 57 JTS (2438.13') 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 @ 2451' KB. RDMO CRAIGS RIG .

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 2000 PSIG. PUMPED 185 BBLs FRESH WATER & 20 BBLs GELLED WATER FLUSH AHEAD OF CEMENT. MIXED & PUMPED 400 SX (84 BBLs) OF PREMIUM CEMENT W/2 % CACL2. MIXED CEMENT @ 15.6 PPG W/YIELD OF 1.18 CF/SX. DISPLACED CEMENT W/183 BBLs FRESH WATER. BUMPED PLUG W/650# @ 11:05 PM, 2/13/2009. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE.

TOP JOB # 1: MIXED & PUMPED 100 SX (20.5 BBLs) OF PREMIUM CEMENT W/3% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. NO RETURNS. WOC 8 HRS.

TOP JOB # 2: MIXED & PUMPED 100 SX (20.5 BBLs) OF PREMIUM CEMENT W/3% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL. RDMO HALLIBURTON CEMENTERS

PREPARED LOCATION FOR ROTARY RIG. WORT. WILL DROP FROM REPORT UNTIL FURTHER ACTIVITY.

CRAIGS RIG #3 TOOK SURVEYS WHILE DRILLING HOLE @ 1702' = 1.0 DEGREE & 2422' = 1.75 DEGREES.

CONDUCTOR LEVEL RECORD: PS= 89.9 OPS= 89.8 VDS= 89.9 MS= 89.9

9 5/8 CASING LEVEL RECORD: PS= 89.9 OPS= 89.8 VDS= 89.9 MS= 89.9

KYLAN COOK NOTIFIED DAVE HACKFORD W/UDOGM OF THE SURFACE CASING & CEMENT JOB ON 02/11/2009 @ 11:30 AM.

<b>02-25-2009</b>		<b>Reported By</b>	PETE COMEAU								
<b>DailyCosts: Drilling</b>	\$103,260	<b>Completion</b>	\$0	<b>Daily Total</b>	\$103,260						
<b>Cum Costs: Drilling</b>	\$437,491	<b>Completion</b>	\$0	<b>Well Total</b>	\$437,491						
<b>MD</b>	2,457	<b>TVD</b>	2,457	<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:** PU BHA

Start	End	Hrs	Activity Description
09:00	19:30	10.5	MOVE RIG & RIG UP AT NBU 662-24E. RIG MOVE MILES 0.7 ONE WAY.
19:30	23:30	4.0	RIG ON DAYWORK @ 19:30 HRS, 2/24/09. NU & FUNCTION TEST BOPS.
23:30	03:30	4.0	TEST BOP'S AS FOLLOWS: RIG UP B&C QUICK TEST, TESTER ROBERT PICKERING. TEST UPPER KELLY VALVE SAFETY VALVE TO 250 LOW FOR 5 MINUTES & 5000 HIGH FOR 10 MINUTES, TEST PIPE RAMS & INSIDE BOP VALVES TO 250 LOW FOR 5 MINUTES & 5000 PSI HIGH FOR 10 MINUTES. TEST PIPE RAMS & OUTSIDE BOP VALVES TO 250 PSI LOW FOR 5 MINUTES & 5000 PSI HIGH FOR 10 MINUTES. TEST ANNULAR TO 250 PSI LOW FOR 5 MINUTES & 2500 PSI HIGH FOR 10 MINUTES. TEST BLIND RAMS, KILL LINE, CHOKE LINE & CHOKE MANIFOLD TO 250 PSI LOW FOR 5 MINUTES & 5000 PSI HIGH FOR 10 MINUTES. TEST INSIDE BOP, 250 PSI LOW FOR 5 MINUTES & 5000 PSI HIGH FOR 10 MINUTES. TEST SUPERCHOKE TO 500 FOR 2 MINUTES. TEST SURFACE CASING TO 1500 PSI FOR 30 MINUTES. ALL TESTS GOOD.
03:30	04:00	0.5	SET WEAR BUSHING.
04:00	06:00	2.0	PU/LD BHA & DRILL PIPE.

FUEL 9530, RECIEVED 5000

NO ACCIDENTS OR INCIDENTS REPORTED  
 SAFETY MEETINGS, RIG MOVE & TEST BOPS  
 RIG MOVE 0.7 MILES 1 WAY  
 BOILER RAN 10.5 HRS  
 SPOKE TO CAROL DANIELS WITH UTAH DNR REGARDING BOP TEST NOTIFICATION  
 CONTACTED BLM BY E MAIL FOR BOP TEST NOTIFICATION

**02-26-2009**      **Reported By**      PETE COMEAU

<b>DailyCosts: Drilling</b>	\$27,834	<b>Completion</b>	\$1,262	<b>Daily Total</b>	\$29,096
<b>Cum Costs: Drilling</b>	\$465,326	<b>Completion</b>	\$1,262	<b>Well Total</b>	\$466,588

**MD**      4,575      **TVD**      4,575      **Progress**      2,118      **Days**      1      **MW**      10.2      **Visc**      32.0

**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** DRILLING @ 4575'

Start	End	Hrs	Activity Description
06:00	07:30	1.5	PU/LD BHA & TOOLS.
07:30	08:00	0.5	SLIP & CUT DRILL LINE.
08:00	08:30	0.5	CHANGE OUT BLADDER ON FLOWLINE.
08:30	10:30	2.0	TAG CEMENT @ 2361, DRILL OUT CEMENT & FLOAT EQUIPMENT. MAKE 10' NEW HOLE & CIRCULATE CLEAN.
10:30	11:00	0.5	FIT TEST. EMW 11.3 SOLID.
11:00	11:30	0.5	SURVEY AT 2450 = 2.5 DEG.
11:30	19:00	7.5	DRILL 7.875" HOLE FROM 2457 TO 3440. 983' @ 131 FPH. WOB 18, ROTARY 50 & MOTOR 68, MUD WT 10.2 & VIS 33.
19:00	19:30	0.5	CIRCULATE HOLE CLEAN FOR SURVEY.
19:30	20:00	0.5	SURVEY AT 3350 = 2.0 DEG.
20:00	03:00	7.0	DRILL 7.875" HOLE FROM 3440 TO 4350. 910' @ 130 FPH. WOB 18, ROTARY 50 & MOTOR 68. #1 PUMP @ 125 SPM. 426 GPM @ 1800 PSI. MUD WT 10.2 & VIS 33.
03:00	03:30	0.5	SURVEY AT 4301 = 2.5 DEG
03:30	06:00	2.5	DRILL 7.875" HOLE FROM 4350 TO 4575, 225' @ 90 FPH, WOB 18, ROTARY 50 & MOTOR 68. #1 PUMP ON HOLE @ 125 SPM. 426 GPM @ 1825 PSI. MUD WT 10.2 & VIS 33.

FUEL 8429, USED 1029  
 CREWS FULL, NO ACCIDENTS OR INCIDENTS REPORTED.  
 SAFETY MEETINGS, MIXING LIME, SETTING CASING RACKS, FORKLIFT OPERATION.

06:00                      SPUD 7 7/8" HOLE W/ROTARY TOOLS @ 11:00 HRS, 02/25/09.

**02-27-2009**      **Reported By**      PETE COMEAU

<b>DailyCosts: Drilling</b>	\$24,041	<b>Completion</b>	\$4,830	<b>Daily Total</b>	\$28,871
<b>Cum Costs: Drilling</b>	\$489,367	<b>Completion</b>	\$6,092	<b>Well Total</b>	\$495,459

**MD**      6,510      **TVD**      6,510      **Progress**      1,935      **Days**      2      **MW**      10.8      **Visc**      34.0

**Formation :**                      **PBTD : 0.0**                      **Perf :**                      **PKR Depth : 0.0**

**Activity at Report Time:** DRILLING @ 6510'

Start	End	Hrs	Activity Description
06:00	08:30	2.5	DRILL 7.875" HOLE FROM 4575 TO 4845. 270' @ 108 FPH. WOB 18, ROTARY 50 & MOTOR 68. 32 PUMP @ 125 SPM, 426 GPM @ 1850 PSI. MUD WT, 10.4 & VIS 35.
08:30	09:00	0.5	SERVICE RIG, FUNCTION PIPE RAMS, FUNCTION CROWN O MATIC.

09:00 06:00 21.0 DRILL 7.875" HOLE FROM 4845 TO 6510, 1665' @ 79 FPH, WOB 18/20, ROTARY 50 & MOTOR 68. #1 PUMP ON HOLE @ 125 SPM, 426 GPM @ 2050 PSI. MUD WT 10.8 & VIS 36.

FUEL 7136, USED 1293  
 NO ACCIDENTS OR INCIDENTS REPORTED  
 MORNING TOUR HELD BOP DRILL 1:09 TO SHUT IN  
 SAFETY MEETINGS, CHANGEING & BOOM OPERATION

**02-28-2009** Reported By PETE COMEAU,

<b>DailyCosts: Drilling</b>	\$39,950	<b>Completion</b>	\$0	<b>Daily Total</b>	\$39,950
<b>Cum Costs: Drilling</b>	\$529,318	<b>Completion</b>	\$6,092	<b>Well Total</b>	\$535,410
<b>MD</b>	7,216	<b>TVD</b>	7,216	<b>Progress</b>	706
				<b>Days</b>	3
				<b>MW</b>	10.9
				<b>Visc</b>	38.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>	

Activity at Report Time: LD DP

Start	End	Hrs	Activity Description
06:00	12:30	6.5	DRILL 7.875" HOLE FROM 6510 TO 6840. 330 FT @ 50 FPH , WOB 20, ROTARY 50 & MOTOR 68. #1 PUMP ON HOLE @ 125 SPM, 426 GPM @ 2050 PSI
12:30	13:00	0.5	SERVICE RIG. FUNCTION PIPE RAMS, CHECK CROWN O MATIC.
13:00	21:00	8.0	DRILL 7.875" HOLE FROM 6840 TO 7216' (TD). 376 FT @ 47 FPH, WOB 21, ROTARY 50 & MOTOR 68. #1 PUMP ON HOLE @ 126 SPM, 428 GPM @ 2200 PSI. TD WELL @ 21:00, 02/27/2009.
21:00	22:00	1.0	CIRCULATE, MW 11, VIS 38.
22:00	22:30	0.5	SHORT TRIP, 10 JTS.
22:30	23:30	1.0	CIRCULATE.
23:30	00:00	0.5	PUMP 13# PILL, EMW ON BOTTOM 11.3, DROP SURVEY
00:00	06:00	6.0	(CASING POINT) LD DRILL PIPE, NO MUD LOSS OR GAIN, (WORKED THRU TIGHT HOLE @ 5200, 4500 TO 4200, PUMPED & BACKREAMED FROM 3550 TO CASING SHOE)  FUEL5647 USED1489.
NO ACCIDENTS OR INCIDENTS REPORTED			
FORMATION: NORTH HORN			
FULL CREWS			
SAFETY MEETINGS; FALL PROTECTION & TOOH .			
BOILER RAN 24 HRS.			

**03-01-2009** Reported By PETE COMEAU,

<b>DailyCosts: Drilling</b>	\$43,615	<b>Completion</b>	\$163,891	<b>Daily Total</b>	\$207,506
<b>Cum Costs: Drilling</b>	\$572,933	<b>Completion</b>	\$169,983	<b>Well Total</b>	\$742,916
<b>MD</b>	7,216	<b>TVD</b>	7,216	<b>Progress</b>	0
				<b>Days</b>	4
				<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: RDRT/WO COMPLETION

Start	End	Hrs	Activity Description
06:00	09:00	3.0	LAY DOWN DRILL STRING.
09:00	09:30	0.5	PULL WEAR BUSHING
09:30	10:30	1.0	RIG UP FLOOR & CALIBER TO RUN CASING, SAFETY MEETING.

10:30 18:00 7.5 RUN CASING AS FOLLOWS: RUN 164 JOINTS OF 4 1/2" P-110, 11.6#, LT&C CASING WITH 2 MARKER JOINTS AS PER TALLY. FLOAT SHOE LANDED @ 7206.85 & FLOAT COLLAR @ 7160.23. PICK UP JOINT # 165 & TAG BOTTOM, LAY BACK DOWN. PICK UP DTO LANDING JOINT & LAND SAME. FILL PIPE & CIRCULATE THROUGH FLOAT EQUIPMENT.

18:00 20:30 2.5 RIG UP HALIBURTON, SAFETY MEETING, PRESSURE TEST LINES TO 5000 PSI. RELEASE BOTTOM PLUG, PUMP 20 BBLS MUD FLUSH FOLLOWED BY 20 BBLS WATER, FOLLOWED BY LEAD CEMENT, 400 SKS OF HIGHBOND 75 CEMENT(130 BBLS) MIXED @ 12.0 PPG, YEALD 1.837 FT3/SK FOLLOWED BY 850 SKS OF EXTENDACHEM (221 BBLS) MIXED @ 13.5 PPG. SHUT DOWN & WASH UP LINES, RELEASE TOP PLUG, DISPLACE WITH 110.8 BBLS WATER. BUMP PLUG WITH 3100 PSI. 1000 PSI OVER LIFT PRESSURE. FLOATS HELD, GOOD RETURNS THROUGHOUT JOB. NO CEMENT RETURNS TO SURFACE. CIP @ 20:15

20:30 21:30 1.0 WAIT ON CEMENT.

21:30 22:30 1.0 SET & TEST DTO SEALS TO 5000 PSI.

22:30 02:30 4.0 NIPPLE DOWN BOP, CLEAN MUD TANKS.  
RIG RELEASED TO NBU 762-26E

02:30 06:00 3.5 WAIT ON DAYLIGHT TO MOVE. RIGGING DOWN.

NO ACCIDENTS OR INCIDENTS REPORTED  
TRUCKS ORDERED FOR RIG MOVE @ 06:30 HRS  
RIG MOVE 2.7 MILES ONE WAY

TRANSFERED 5 JOINTS 4 1/2" N-80, 11.6# LT&C TO NBU762-26E  
TRANSFERED 5 JOINTS P-110, 4 1/2" 11.6#, LT&C TO NBU 762-26E  
TRANSFERED 1 MARKER JOINT 4 1/2" p-110, 11.6#, 17&c to nbu 762-26e  
TRANSFERED 5022 GALLONS #2 DIESLE FUEL

06:00 RIG RELEASED @ 02:30 HRS, 03/01/09.  
CASING POINT COST: \$550,875

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<b>03-06-2009</b>	<b>Reported By</b>	SEARLE									
<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$36,300	<b>Daily Total</b>	\$36,300						
<b>Cum Costs: Drilling</b>	\$572,933	<b>Completion</b>	\$206,283	<b>Well Total</b>	\$779,216						
<b>MD</b>	7,216	<b>TVD</b>	7,216	<b>Progress</b>	0	<b>Days</b>	5	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 7160.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						
<b>Activity at Report Time:</b> PREP FOR FRACS											
<b>Start</b>	<b>End</b>	<b>Hrs</b>	<b>Activity Description</b>								
06:00	06:00	24.0	MIRU SCHLUMBERGER. LOG WITH RST/CBL/CCL/VDL/GR FROM PBTD TO 350'. EST CEMENT TOP @ 570'. RD SCHLUMBERGER.								

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<b>05-30-2009</b>	<b>Reported By</b>	MCCURDY									
<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$2,323	<b>Daily Total</b>	\$2,323						
<b>Cum Costs: Drilling</b>	\$572,933	<b>Completion</b>	\$208,606	<b>Well Total</b>	\$781,539						
<b>MD</b>	7,216	<b>TVD</b>	7,216	<b>Progress</b>	0	<b>Days</b>	6	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 7160.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						
<b>Activity at Report Time:</b>											
<b>Start</b>	<b>End</b>	<b>Hrs</b>	<b>Activity Description</b>								

06:00 06:00 24.0 NU 10M FRAC TREE. PRESSURE TESTED FRAC TREE & CASING TO 6500 PSIG. WO COMPLETION.

**06-02-2009** Reported By MCCURDY

**DailyCosts: Drilling** \$0 **Completion** \$668 **Daily Total** \$668

**Cum Costs: Drilling** \$572,933 **Completion** \$209,274 **Well Total** \$782,207

**MD** 7,216 **TVD** 7,216 **Progress** 0 **Days** 7 **MW** 0.0 **Visc** 0.0

**Formation : WASATCH** **PBTD : 7160.0** **Perf : 6729'-7065'** **PKR Depth : 0.0**

**Activity at Report Time: FRAC**

**Start End Hrs Activity Description**

06:00 06:00 24.0 RU CUTTERS WIRELINE & PERFORATE NORTH HORN FROM 6729'-31', 6782'-83', 6833'-34', 6905'-06', 6918'-19', 6984'-85', 6996'-97', 7046'-47', 7062'-65' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON. RU WIDE SPREAD SERVICES AND PUMP 42 GAL BACTRON K-87 MICROBIOCIDE, 165 GAL GYPTRON T-106. SDFN.

**06-03-2009** Reported By MCCURDY

**DailyCosts: Drilling** \$0 **Completion** \$144,887 **Daily Total** \$144,887

**Cum Costs: Drilling** \$572,933 **Completion** \$354,161 **Well Total** \$927,094

**MD** 7,216 **TVD** 7,216 **Progress** 0 **Days** 8 **MW** 0.0 **Visc** 0.0

**Formation : WASATCH** **PBTD : 7160.0** **Perf : 5089'-7065'** **PKR Depth : 0.0**

**Activity at Report Time: MIRUSU CLEAN OUT SAND AND DRILL OUT FRAC PLUGS**

**Start End Hrs Activity Description**

06:00 06:00 24.0 INITIAL SICP 793 PSIG. FRAC DOWN CASING W/8457 GAL 16# LINEAR W/10600 # 20/40 SAND @ 1-1.5 PPG , 20975 GAL 16# DELTA 140 W/69300# 20/40 SAND @ 2-4 PPG. MTP 5874 PSIG. MTR 51.7 BPM. ATP 4761 PSIG. ATR 45.1 BPM. ISIP 3255 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 6675'. PERFORATE Ba/NH FROM 6406'-08', 6413'-15', 6446'-48', 6508'-09', 6513'-14', 6523'-24', 6594'-95', 6638'-39', 6651'-52', @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON. FRAC DOWN CASING W/42 GAL BACTRON K-87 MICROBIOCIDE, 165 GAL GYPTRON T-106. 8397 GAL 16# LINEAR W/10500 # 20/40 SAND @ 1-1.5 PPG, 20898 GAL 16# DELTA 140 W/69500# 20/40 SAND @ 2-4 PPG. MTP 5829 PSIG. MTR 51.7 BPM. ATP 4638 PSIG. ATR 44.6 BPM. ISIP 2495 PSIG. RD HALLIBURTON.

RUWL. SET 6K CFP AT 6322'. PERFORATE Ba FROM 5931'-32', 5953'-54', 6003'-04', 6037'-38', 6111'-13', 6121'-23', 6194'-96', 6292'-94' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON. FRAC DOWN CASING W/42 GAL BACTRON K-87 MICROBIOCIDE, 15121 GAL 16# LINEAR W/19500 # 20/40 SAND @ 1-1.5 PPG, 16410 GAL 16# DELTA 140 W/52100# 20/40 SAND @ 2-4 PPG. MTP 5299 PSIG. MTR 52.1 BPM. ATP 3998 PSIG. ATR 45.4 BPM. ISIP 2285 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 5800'. PERFORATE Ca/Ba FROM 5451'-52', 5509'-11', 5521'-23', 5610'-13', 5671'-72', 5730'-33' @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON. FRAC DOWN CASING W/42 GAL BACTRON K-87 MICROBIOCIDE, 34198 GAL 16# DELTA 140 W/121300# 20/40 SAND @ 3-4 PPG. MTP 4761 PSIG. MTR 51.3 BPM. ATP 3810 PSIG. ATR 46.3 BPM. ISIP 2675 PSIG. RD HALLIBURTON.

RUWL SET 6K CFP AT 5380'. PERFORATE Ca FROM 5089'-92', 5095'-98', 5110'-11', 5339'-41', 5348'-51', @ 3 SPF @ 120° PHASING. RDWL. RU HALLIBURTON, FRAC DOWN CASING W/42 GAL BACTRON K-87 MICROBIOCIDE, 22934 GAL 16# DELTA 140 W/84100# 20/40 SAND @ 4 PPG. MTP 5701 PSIG. MTR 51.3 BPM. ATP 3837 PSIG. ATR 45.9 BPM. ISIP 2710 PSIG. RD HALLIBURTON.

RUWL. SET 6K CBP AT 5009'. RDMO CUTTERS WIRELINE.

**06-12-2009** Reported By HISLOP

**DailyCosts: Drilling** \$0 **Completion** \$85,537 **Daily Total** \$85,537

**Cum Costs: Drilling** \$572,933      **Completion** \$439,698      **Well Total** \$1,012,631  
**MD** 7,216    **TVD** 7,216    **Progress** 0    **Days** 9    **MW** 0.0    **Visc** 0.0  
**Formation : WASATCH**      **PBTD : 7160.0**      **Perf : 5089'-7065'**      **PKR Depth : 0.0**

**Activity at Report Time: FLOW TEST**

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SICP 0 PSIG. MIRUSU. ND FRAC TREE. NU BOP. RIH W/BIT & PUMP OFF SUB TO 5009'. RU TO DRILL PLUGS. CLEANED OUT & DRILLED OUT PLUGS @ 5046', 5470', 5950' & 6600'. CLEANED OUT TO PBTD @ 7160'. LANDED TUBING @ 5079' KB. ND BOP. NU TREE. PUMPED OFF BIT & SUB. RDMOSU.
FLOWED 14 HRS. 64/64" CHOKE. FTP 0 PSIG. CP 0 PSIG. 14 BFPH. RECOVERED 280 BLW. 3920 BLWTR.			
TUBING DETAIL    LENGTH			
PUMP OFF BIT SUB    0.91'			
1 JT 2-3/8" 4.7# N-80 TBG    32.63'			
XN NIPPLE    1.30'			
155 JTS 2-3/8" 4.7# N-80 TBG    5031.58'			
BELOW KB    13.00'			
LANDED @    5079.42' KB			

**06-13-2009      Reported By      HISLOP**

**DailyCosts: Drilling** \$0      **Completion** \$5,094      **Daily Total** \$5,094  
**Cum Costs: Drilling** \$572,933      **Completion** \$444,792      **Well Total** \$1,017,725  
**MD** 7,216    **TVD** 7,216    **Progress** 0    **Days** 10    **MW** 0.0    **Visc** 0.0  
**Formation : WASATCH**      **PBTD : 7160.0**      **Perf : 5089'-7065'**      **PKR Depth : 0.0**

**Activity at Report Time: SI TO BUILD PRESSURE**

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FTP 0 PSIG. CP 0 PSIG. RU TO SWAB. IFL @ SURFACE. MADE 5 RUNS. RECOVERED 45 BF & WELL STARTED FLOWING. FLOWED 1 HR. RECOVERED 26 BF & DIED. MADE 3 RUNS & WELL STARTED FLOWING. RECOVERED 27 BF. FLOWED 1 HR 45 MIN & DIED. MADE 3 RUNS & WELL STARTED FLOWING. RECOVERED 27 BF. FLOWED 1-1/2 HRS. RECOVERED 76 BF. 237 BF TOTAL RECOVERY. RDMOSU.
FLOWED 15 HRS. 64/64" CHOKE. FTP 0 PSIG. CP 300 PSIG. 0 BFPH. RECOVERED 264 BLW. 3628 BLWTR. SI TO BUILD PRESSURE.			

**06-16-2009      Reported By      HACKING**

**DailyCosts: Drilling** \$0      **Completion** \$144,887      **Daily Total** \$144,887  
**Cum Costs: Drilling** \$572,933      **Completion** \$589,679      **Well Total** \$1,162,612  
**MD** 7,216    **TVD** 7,216    **Progress** 0    **Days** 9    **MW** 0.0    **Visc** 0.0  
**Formation : WASATCH**      **PBTD : 7160.0**      **Perf : 5089'-7065'**      **PKR Depth : 0.0**

**Activity at Report Time: FLOW TEST**

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLOW 24 HRS. 32/64" CHOKE. FTP 400 PSIG. CP 1200 PSIG. 41 BFPH. RECOVERED 995 BLW. 2661 BLWTR.

**06-17-2009      Reported By      HACKING**

**DailyCosts: Drilling** \$0      **Completion** \$1,125      **Daily Total** \$1,125  
**Cum Costs: Drilling** \$572,933      **Completion** \$590,804      **Well Total** \$1,163,737

MD 7,216 TVD 7,216 Progress 0 Days 10 MW 0.0 Visc 0.0

Formation : WASATCH PBTB : 7160.0 Perf : 5089'-7065' PKR Depth : 0.0

Activity at Report Time: FLOW TEST

Start End Hrs Activity Description

06:00 06:00 24.0 FLOW 24 HRS. 32/64" CHOKE. FTP 550 PSIG. CP 1150 PSIG. 32 BFPH. RECOVERED 788 BLW. 1903 BLWTR.

06-18-2009 Reported By HACKING

DailyCosts: Drilling \$0 Completion \$2,025 Daily Total \$2,025

Cum Costs: Drilling \$572,933 Completion \$592,829 Well Total \$1,165,762

MD 7,216 TVD 7,216 Progress 0 Days 11 MW 0.0 Visc 0.0

Formation : WASATCH PBTB : 7160.0 Perf : 5089'-7065' PKR Depth : 0.0

Activity at Report Time: WO FACILITIES

Start End Hrs Activity Description

06:00 06:00 24.0 FLOWED 24 HRS ON 28/64" CHOKE. FTP 550 PSIG. SICP 1150 PSIG. BFPH 26. RECOVERED 632 BBLS, 1270 BWTLR. SWI. TURN OVER TO PRODUCTION DEPT.

FINAL COMPLETION DATE: 06/17/09

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

**ROUTING**

1. DJJ
2. CDW

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

Designation of Agent/Operator  
 Merger

The operator of the well(s) listed below has changed, effective: **6/1/2009**

<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
---	---

**CA No. Unit: NATURAL BUTTES**

WELL NAME(S)	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
NBU 664-24E	24	100S	200E	4304739867 ✓	2900	State	GW	P
NBU 663-24E	24	100S	200E	4304750010	WTP-2900	State	GW	P
NBU 661-24E	24	100S	200E	4304750011	WTP-2900	State	GW	P
NBU 667-24E	24	100S	200E	4304750012	WTP-2900	State	GW	P
NBU 640-13E	13	100S	220E	4304750014 ✓	2900	State	GW	P
NBU 662-24E	24	100S	200E	4304750017 ✓	2900	State	GW	P
NBU 666-24E	24	100S	200E	4304750057 ✓	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: 7/16/2009
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/16/2009
- Bond information entered in RBDMS on: 7/16/2009
- Fee/State wells attached to bond in RBDMS on: 7/16/2009
- 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 22013542
- 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 )

<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> ML-22790
<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 662-24E
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047500170000
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	<b>PHONE NUMBER:</b> 720 929-6007 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0809 FSL 0807 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 24 Township: 10.0S Range: 20.0E 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 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: 11/3/2010	<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 checked="" 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
	<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.

THIS WELL RETURNED TO PRODUCTION ON 11/3/2010.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 November 08, 2010

<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/8/2010

**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>ML-22790</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 662-24E</b>
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>		9. API NUMBER: <b>43-047-50017</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>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>809' FSL &amp; 807' FWL 39.927731 Lat 109.620697 Lon</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes/Wasatch</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SWSW 24 10S 20E 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (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>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 for the referenced well.

NAME (PLEASE PRINT) <u>Mary A. Maestas</u>	TITLE <u>Regulatory Assistant</u>
SIGNATURE <u><i>Mary A Maestas</i></u>	DATE <u>8/4/2009</u>

(This space for State use only)

**RECEIVED**  
**AUG 06 2009**

# Geogresources Site Facility Diagram



Well Name: Natural Buttes Unit 662-24E  
 1/4 1/4: SW/SW Sec: 24 T:10S R:20E  
 County: UINTAH State: UTAH  
 Lease: ML-22790  
 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 8/3/2009

## 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

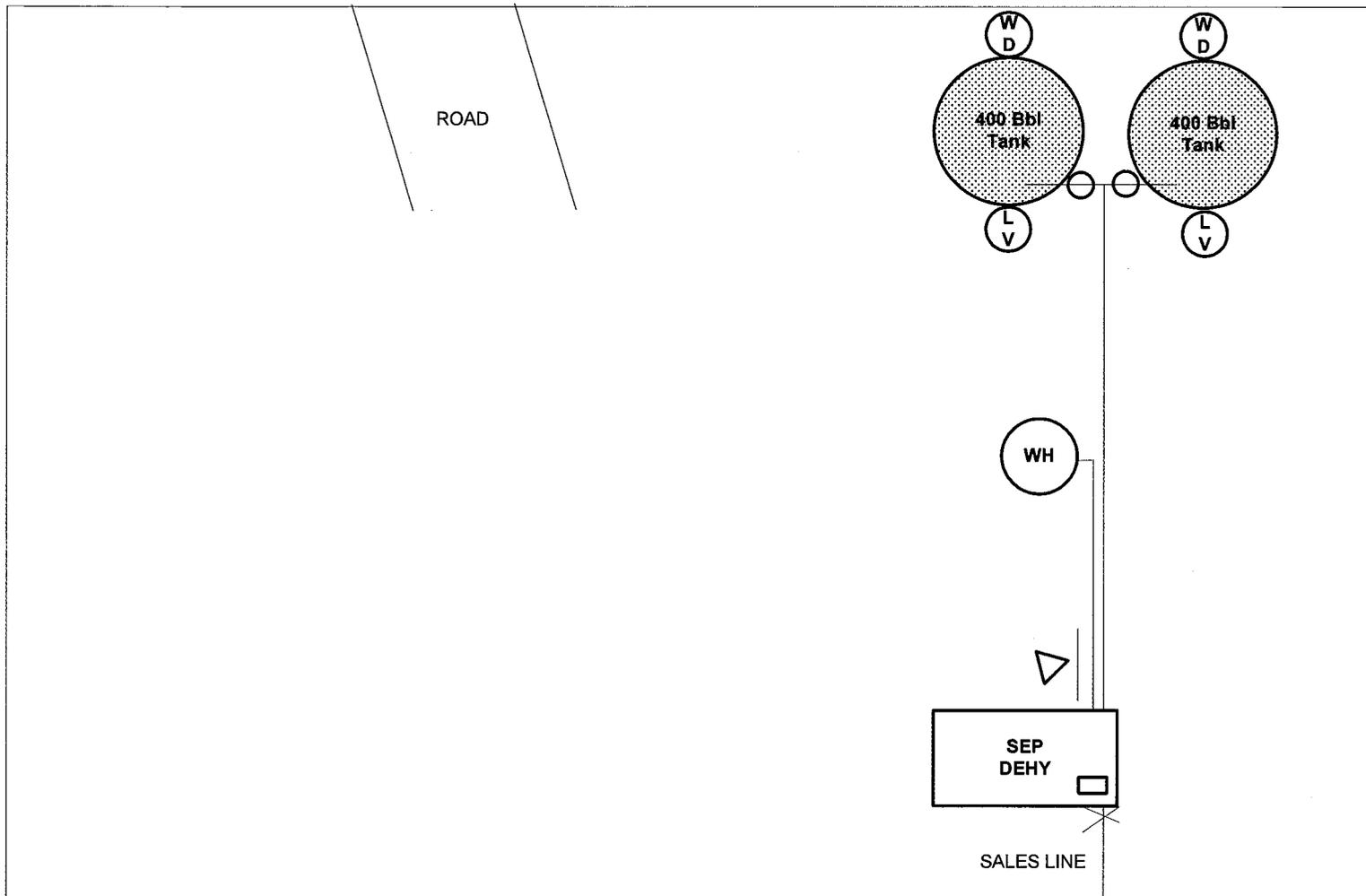
----- = Buried Line  
 \_\_\_\_\_ = Unburied Line

▽ = Meter Display

□ = Meter Tube

○ = Production Valve

× = Valve



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

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

RECEIVED

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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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

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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>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22790
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>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>8. WELL NAME and NUMBER:</b> NBU 662-24E
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>9. API NUMBER:</b> 43047500170000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0809 FSL 0807 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 24 Township: 10.0S Range: 20.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<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 type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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 checked="" 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 <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"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/14/2011		
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL WAS RETURNED TO PRODUCTION ON 07/14/2011		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Sheila Wopsock	<b>PHONE NUMBER</b> 435 781-7024	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/25/2011	

<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>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22790
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 662-24E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0809 FSL 0807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 10.0S Range: 20.0E Meridian: S	9. API NUMBER: 43047500170000
PHONE NUMBER: 720 929-6456	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: Uintah
	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 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: 5/12/2016	<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 checked="" 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
	<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 NBU 662-24E WELL WAS RETURNED TO PRODUCTION ON  
5/12/2016. THANK YOU.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 May 17, 2016**

<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> 5/16/2016	

<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>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22790
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	8. WELL NAME and NUMBER: NBU 662-24E
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0809 FSL 0807 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSW Section: 24 Township: 10.0S Range: 20.0E Meridian: S	9. API NUMBER: 43047500170000
10. PHONE NUMBER: 720 929-6456	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/6/2016</b>	<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 checked="" type="checkbox"/> <b>PLUG AND ABANDON</b>	<input type="checkbox"/> PLUG BACK
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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 662-24E (single) well. Please see the attached procedure for details. Thank you.

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

Date: June 28, 2016  
By: *D. K. Quist*

**Please Review Attached Conditions of Approval**

NAME (PLEASE PRINT) Candice Barber	PHONE NUMBER 435 781-9749	TITLE HSE Representative
SIGNATURE N/A	DATE 6/6/2016	



**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 43047500170000**

- 1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.**
- 2. All balanced plugs shall be tagged to ensure that they are at the depth specified.**
- 3. All annuli shall be cemented from a minimum depth of 100' to the surface.**
- 4. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.**
- 5. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.**
- 6. 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.**
- 7. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.**

6/28/2016

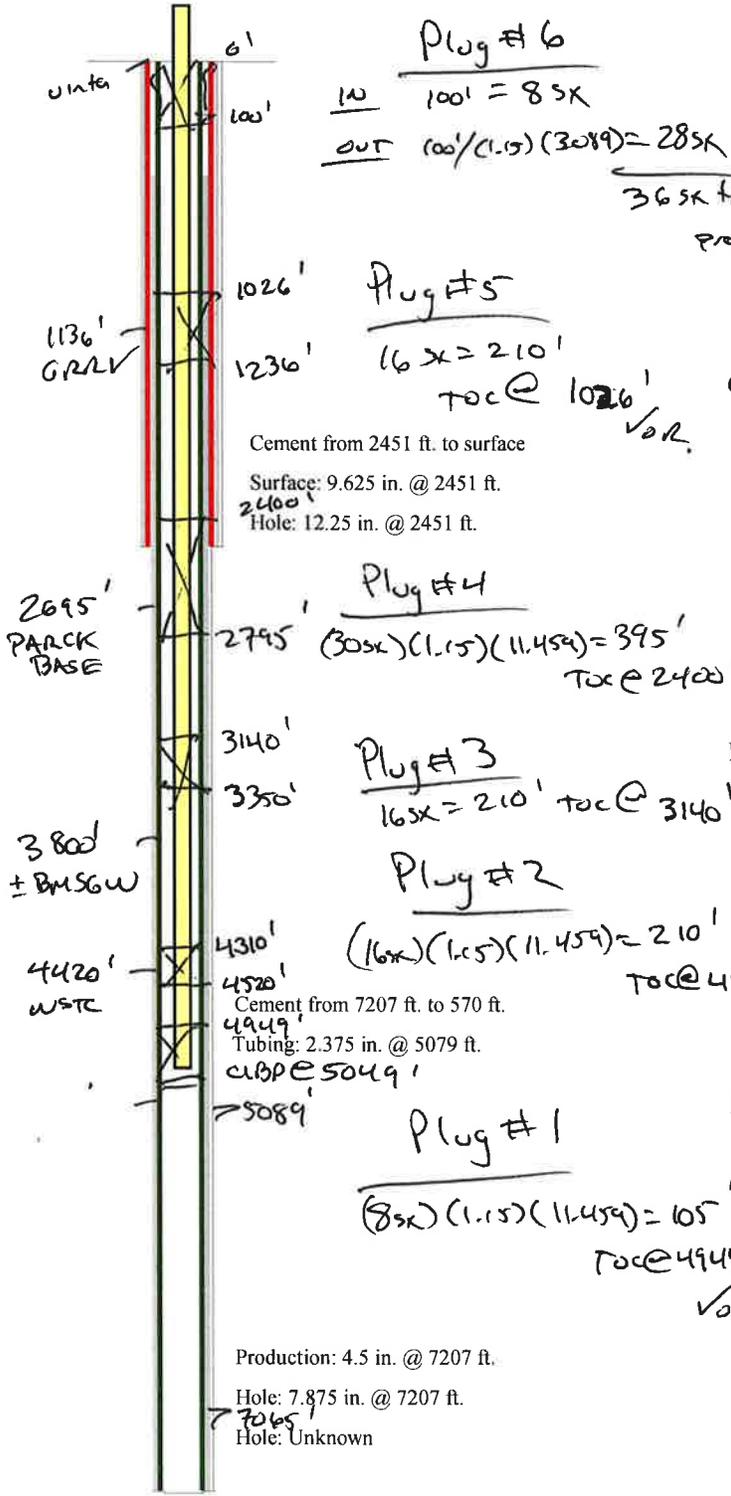
# Wellbore Diagram

r263

**API Well No:** 43-047-50017-00-00    **Permit No:**    **Well Name/No:** NBU 662-24E  
**Company Name:** KERR-MCGEE OIL & GAS ONSHORE, L.P.  
**Location:** Sec: 24 T: 10S R: 20E Spot: SWSW    **String Information**  
**Coordinates:** X: 617907 Y: 4420693  
**Field Name:** NATURAL BUTTES  
**County Name:** Uintah

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	2451	12.25			
SURF	2451	9.625	36	2451	
HOL2	7207	7.875			
PROD	7207	4.5	11.6	7207	11.459
TI	5079	2.375			

9 5/8" x 4 1/2" → 3.089



**Cement Information**

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	7207	570	HS	850
PROD	7207	570	HC	400
SURF	2451	0	PP	600

**Perforation Information**

String	Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Squeeze
PROD	5089	7065			

**Formation Information**

Formation	Depth
UNTA	0
GRRV	1136
PARCK	2695
BMSW	3800
WSTC	5089

Production: 4.5 in. @ 7207 ft.  
 Hole: 7.875 in. @ 7207 ft.  
 Hole: Unknown

TD: 7216 TVD: 7216 PBTD: 7160

**NBU 662-24E**  
**809' FSL & 807' FWL**  
**SWSW SEC. 24, T10S, R20E**  
**UINTAH UT**

**KBE:** 5221' **API NUMBER:** 4304750017  
**GLE:** 5208' **LEASE NUMBER:** ML-22790  
**TD:** 7216' **LAT/LONG:** 39.928145/-109.62017  
**PBTD:** 7160'

**CASING :** 12.25' hole  
**SURFACE** 9.625" 36# J-55 @ 2451'  
 TOC @ surface with 2 top jobs

**PRODUCTION** 7.875" hole  
 4.5" 11.6# P-110 LT&C @ 7207'  
 Est. TOC @ 200' CBL

**PERFORATIONS:** MESAVERDE TOP-BOTTOM 5089'-7065'

**TUBING:** 2.375" 4.7# N-80 tbg at 5079'

Tubular/Borehole	ID	Drift inches	Collapse psi	Burst psi	Capacities		
	inches				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg	1.995	1.901	8100	7700	0.1624	0.02171	0.00387
2.375" 4.7# P-110 tbg	1.995	1.901	13800	15400	0.1624	0.02171	0.00387
2.375" 4.7# L-80 tbg	1.995	1.901	11780	11200	0.1624	0.02171	0.00387
4.5" 11.6# P-110 csg	4.000	3.875	7560	10690	0.6528	0.0872	0.0155
9.625" 36# J-55 csg	8.921	8.765	2020	3520	3.2470	0.4340	0.0773

Annular Capacities	Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" tbg. X 4.5" csg	0.4227	0.0565	0.0101
4.5" csg. X 9.625" csg	2.4192	0.3231	0.0576
4.5" csg X 7.875 borehole	1.7052	0.2276	0.04057

**GEOLOGIC INFORMATION:**

Formation	Depth to top, ft.
Uinta	Surface
Top Green River	1136'
Top Mahogany	1830'
Base Parachute	2695'
Top Wasatch	4420'
Top Mesaverde	5099'

<http://digitallibrary.utah.gov/awweb/awarchive?type=file&item=55737>

BMSW Elevation ~1971' MSL  
 BMSW Depth ~3250'

**NBU 662-24E PLUG & ABANDONMENT PROCEDURE**

**GENERAL**

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- BLOW DOWN BRADEN HEAD AND SURFACE CASING AS NEEDED AS PER SOP.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, 15.8ppg, YIELD 1.145 CUFT/SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME.
- 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 AND IS TO BE PLACED BETWEEN ALL PLUGS.
- NOTIFY APPROPRIATE AGENCY 48 HOURS BEFORE MOVING ON LOCATION.

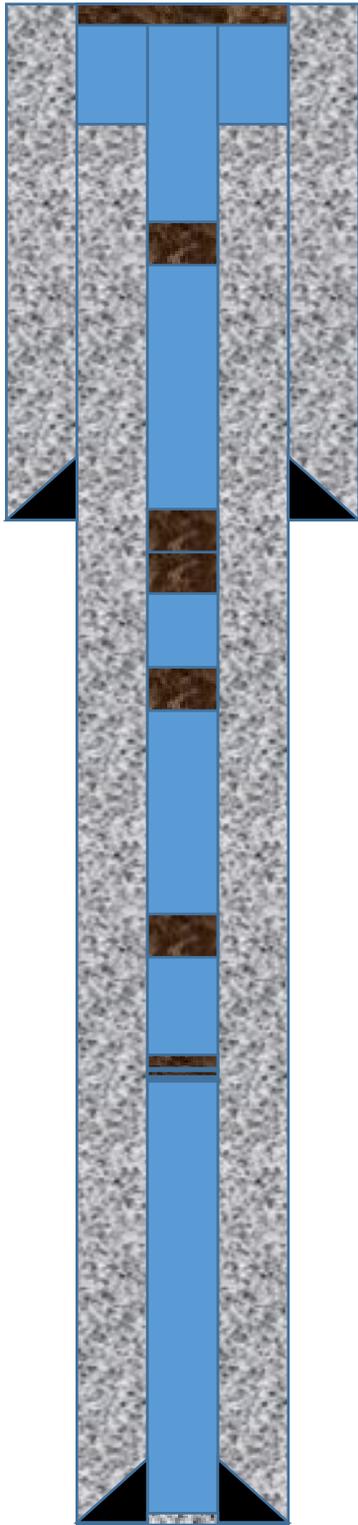
PERTINENT WELL HISTORY: NONE ON RECORD SINCE COMPLETION 6/12/09

**Note:** Approx. **123 SXS** Class "G" cement needed for procedure & **(1) 4.5" CIBP**

**Note: NO GYRO ON RECORD.** (IF GYRO NEEDED, A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE).

1. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
2. POOH W/ TBG & L/D SAME. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL PER FOREMAN DISCRETION.
3. ISOLATE MESAVERDE (5099') & PERFORATIONS (5089' -7065'): RIH ON WIRELINE OR TUBING W/ 4.5" CIBP. SET @ ~5049', (40' above top perf at 5089'). RELEASE CIBP, PUH 10', CIRC ENTIRE HOLE W/ TREATED FRESH WATER AND PRESSURE TEST CASING. SET A 105 FT BALANCED CMT PLUG F/ 5049' to 4944' (8 SXS, 9.16 FT<sup>3</sup>, 1.64 BBLs).
4. PROTECT WASATCH TOP (4420'): PUH WITH TUBING AND PUMP A MINIMUM OF (210 FT) CMT F/ 4520' to 4310' (16 SXS, 18.32 FT<sup>3</sup>, 3.27 BBLs).
5. PROTECT BMSW (3250'): PUH WITH TUBING AND PUMP A MINIMUM OF (210FT) CMT F/ 3350' to 3140' (16 SXS, 18.32 FT<sup>3</sup>, 3.27 BBLs).
6. PROTECT PARACHUTE BASE (2695') & CASING SHOE (2451'): PUH WITH TUBING AND PUMP A MINIMUM OF (394FT) CMT F/ 2795' to 2401' (30 SXS, 34.4 FT<sup>3</sup>, 6.12 BBLs).
7. PROTECT GREEN RIVER (1136'): PUH WITH TUBING AND PUMP A MINIMUM OF (210 FT) CMT F/ 1236' to 1026' (16 SXS, 18.32 FT<sup>3</sup>, 3.27 BBLs).
8. PROTECT SURFACE (100'): POOH AND RIG UP WIRELINE. RIH WITH PERF GUNS FOR PRODUCTION CASING. PERFORATE CASING AT ~100' (TOC @ ~200'). PUMP A MINIMUM OF (37 SXS, 42.37 FT<sup>3</sup>, 7.55 BBLs) CMT TO FILL PRODUCTION CASING AND ANNULUS FROM 100' TO SURFACE.
9. CUT OFF WELLHEAD AND INSTALL MARKER PER REGULATIONS.
10. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

# NBU 662-24E



Total SXS: 123, Total CIBP: 1

<- Plug for Surface at 0' from 0' to 100' with 37SXS

<- TOC at 200'

<- Plug for GreenRiver at 1136' from 1236' to 1026' with 16SXS,210 ft.

<- Mahogany at 1830'

<- Plug for Base of Parachute (2695') & Surface Shoe at 2451' from 2795' to 2401' with 30 SXS, 394 ft.

<- Plug for BMSW at 3250' from 3350' to 3140' with 16SXS,210 ft.

<- Plug for Wasatch at 4420' from 4520' to 4310' with 16SXS,210 ft.

<- Plug above CIBP at 5049' from 5049' to 4944' with 8SXS,105ft.  
<-Top Perf at 5089' (top of MV @ 5099')

<-PBTD at 7160'

<- Production Casing Shoe at 7207'

<-TD at 7216'