

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

FORM 3

AMENDED REPORT **APPLICATION FOR PERMIT TO DRILL**

<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>1. WELL NAME and NUMBER</b> NBU 733-36E	
<b>4. TYPE OF WELL</b> Gas Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> NATURAL BUTTES	
<b>6. NAME OF OPERATOR</b> EOG Resources, Inc.		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b> NATURAL BUTTES	
<b>8. ADDRESS OF OPERATOR</b> 1060 East Highway 40, Vernal, UT, 84078		<b>7. OPERATOR PHONE</b> 435 781-9111	
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-3140 1/2		<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>	
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>		<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	
<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>	
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>
<b>LOCATION AT SURFACE</b>	671 FNL 2075 FEL	NWNE	36
<b>Top of Uppermost Producing Zone</b>	671 FNL 2075 FEL	NWNE	36
<b>At Total Depth</b>	671 FNL 2075 FEL	NWNE	36
<b>21. COUNTY</b> UINTAH	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 671	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 280	
	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1870	<b>26. PROPOSED DEPTH</b> MD: 7050 TVD: 7050	
<b>27. ELEVATION - GROUND LEVEL</b> 4891	<b>28. BOND NUMBER</b> 6196017	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-225	

**ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input 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> Kaylene Gardner	<b>TITLE</b> Regulatory Administrator	<b>PHONE</b> 435 781-9111
<b>SIGNATURE</b>	<b>DATE</b> 09/11/2008	<b>EMAIL</b> kaylene_gardner@eogresources.com
<b>API NUMBER ASSIGNED</b> 43047500420000	<b>APPROVAL</b>  Permit Manager	

<b>Proposed Hole, Casing, and Cement</b>						
<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	60		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade H-40 ST&C	60	48.0			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	0			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			Class C Cement	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>			
	Grade J-55 ST&C	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>
			Class G Cement	185	3.82	11.0

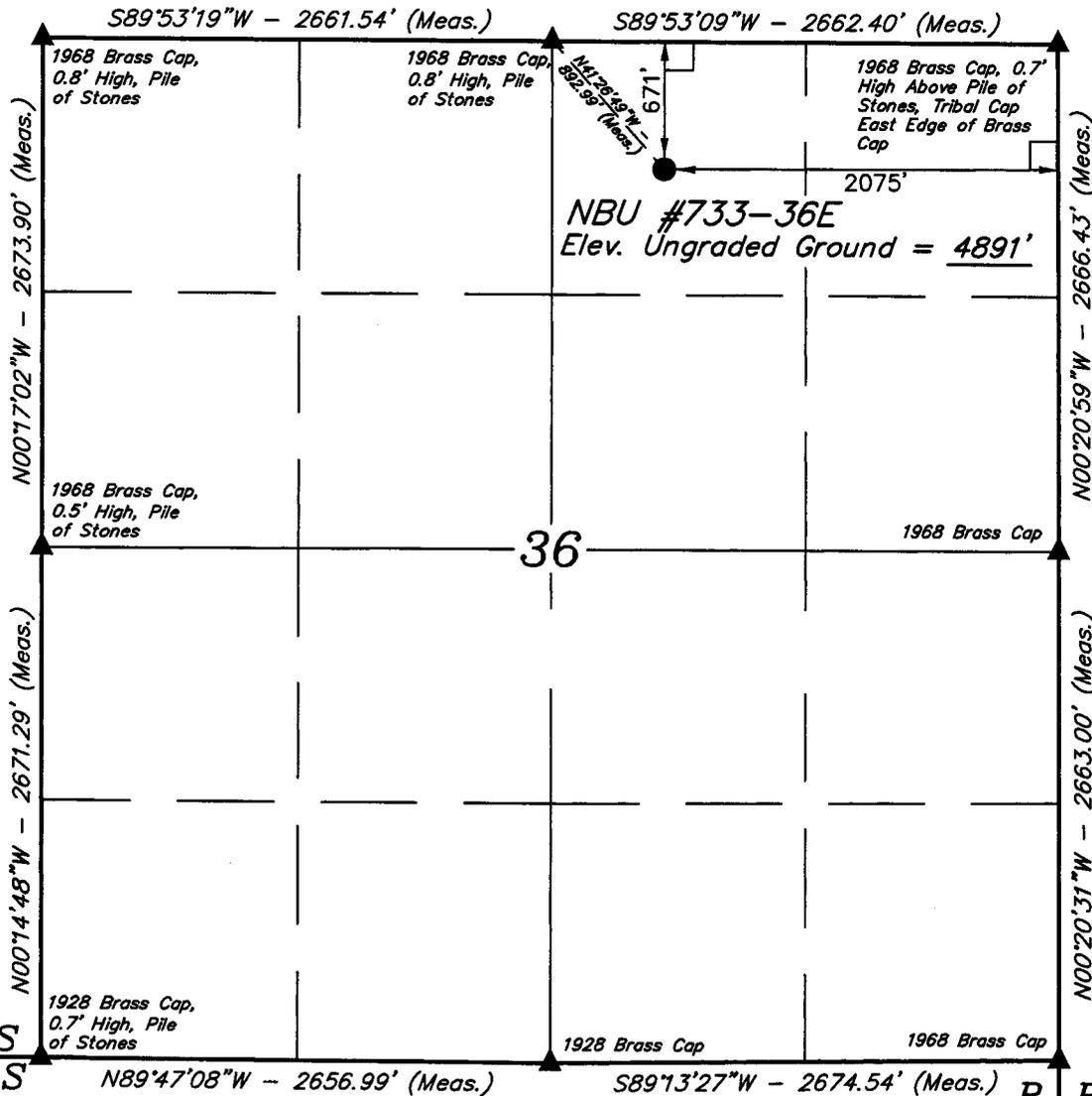
**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	7050		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade N-80 LT&C	7050	11.6			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		2300	7050			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			Hi Lift "G"	152	3.91	11.0
			50/50 Poz	439	1.28	14.1

# T9S, R20E, S.L.B.&M.

# EOG RESOURCES, INC.

Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

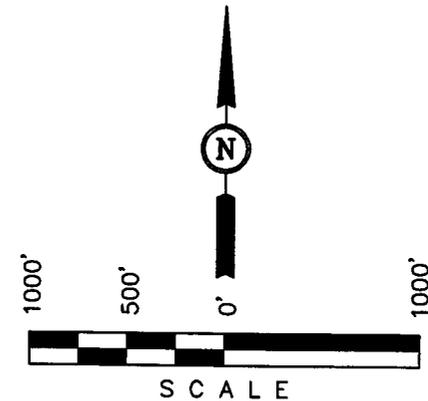


## BASIS OF ELEVATION

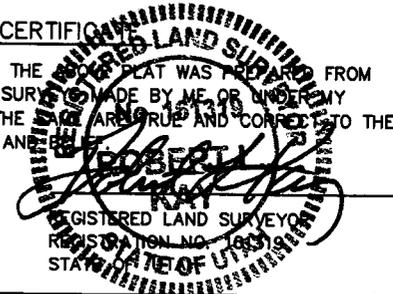
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238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

## BASIS OF BEARINGS

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



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



## LEGEND:

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

(NAD 83)  
 LATITUDE =  $39^{\circ}59'49.00''$  (39.996944)  
 LONGITUDE =  $109^{\circ}36'44.71''$  (109.612419)  
 (NAD 27)  
 LATITUDE =  $39^{\circ}59'49.13''$  (39.996981)  
 LONGITUDE =  $109^{\circ}36'42.22''$  (109.611728)

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

SCALE 1" = 1000'	DATE SURVEYED: 03-19-08	DATE DRAWN: 03-21-08
PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN****NATURAL BUTTES UNIT 733-36E****NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

<b>FORMATION</b>	<b>TVD-RKB (ft)</b>	<b>Objective</b>	<b>Lithology</b>	
Green River	1,576		Shale	
Mahogany Oil Shale Bed	2,342		Shale	
Wasatch	5,018	Primary	Sandstone	Gas
Chapita Wells	5,681	Primary	Sandstone	Gas
Buck Canyon	6,370	Primary	Sandstone	Gas
North Horn	6,659	Primary	Sandstone	Gas
<b>TD</b>	<b>7,050</b>			

Estimated TD: **7,050' or 200'± below TD****Anticipated BHP: 3,849 Psig**

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

**3. PRESSURE CONTROL EQUIPMENT:**Production Hole – 5000 Psig  
BOP schematic diagrams attached.**4. CASING PROGRAM:**

<b>CASING</b>	<b>Hole Size</b>	<b>Length</b>	<b>Size</b>	<b>WEIGHT</b>	<b>Grade</b>	<b>Thread</b>	<b>Rating Collapse</b>	<b>Factor Burst</b>	<b>Tensile</b>
<b>Conductor</b>	17 ½"	0 – 60'	13 ⅝"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
<b>Surface</b>	12 ¼"	0' – 2,300' KB±	9-⅝"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
<b>Production</b>	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

**Note:** 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-⅝" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

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

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**  
**NW/NE, SEC. 36, T9S, 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. 4-1/2", 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.

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**  
**NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**1. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 1  
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- 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).
- 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.
- 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.
- 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).
- 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).

**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**

**EIGHT POINT PLAN****NATURAL BUTTES UNIT 733-36E****NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..****UINTAH COUNTY, UTAH****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:** 152 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:** 439 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.**

**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.

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**

**NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**

**UINTAH COUNTY, UTAH**

**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.

**13. 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.

(Attachment: BOP Schematic Diagram)

**EOG RESOURCES, INC.**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**

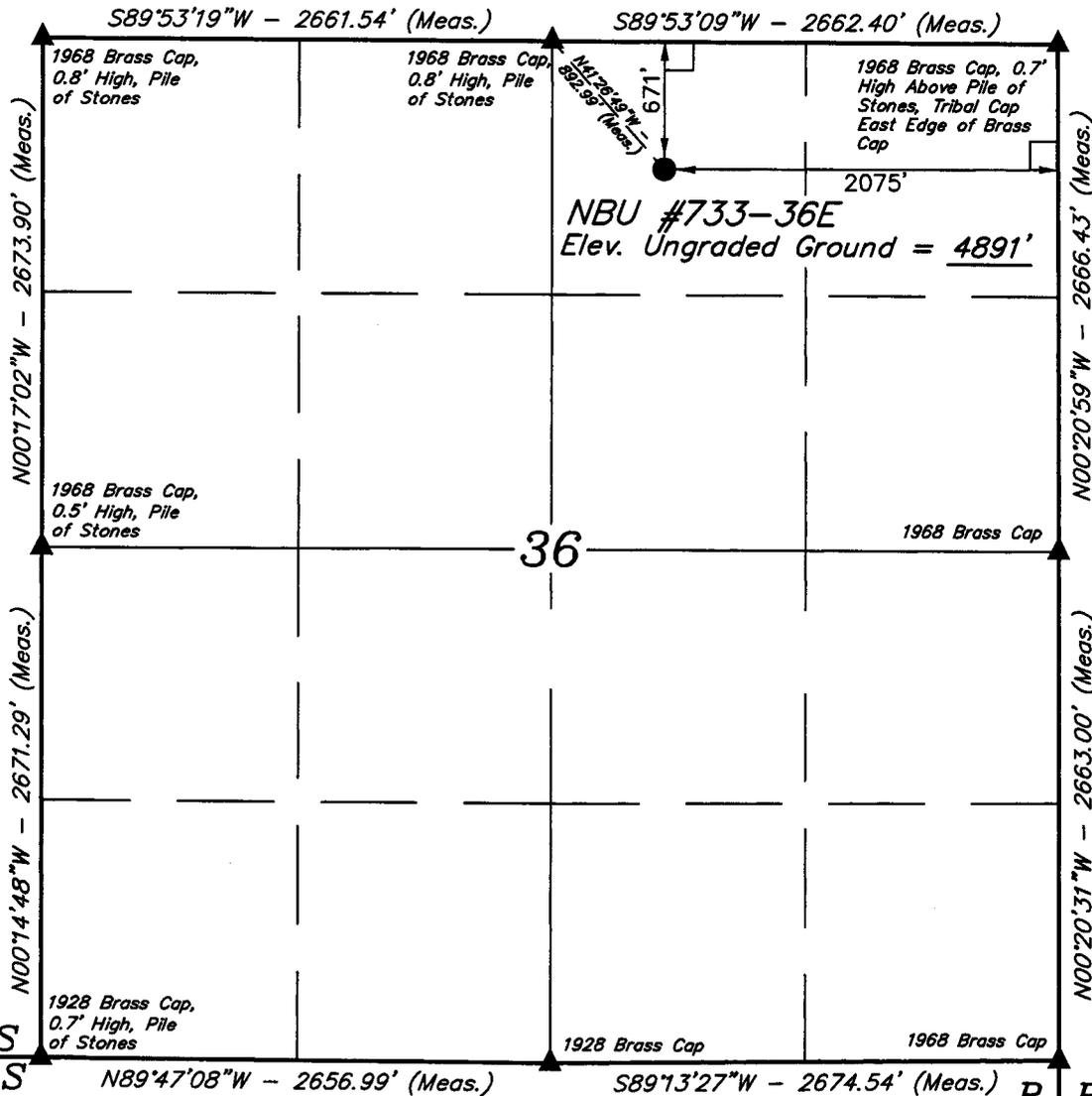
PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.35 MILES.

# T9S, R20E, S.L.B.&M.

# EOG RESOURCES, INC.

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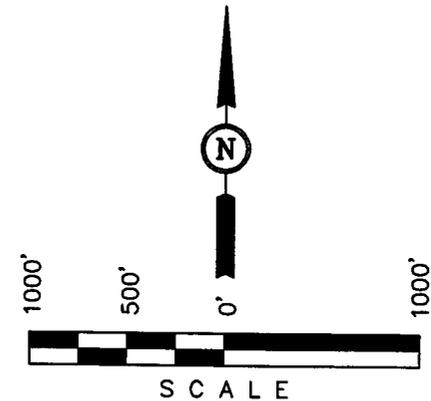


## BASIS OF ELEVATION

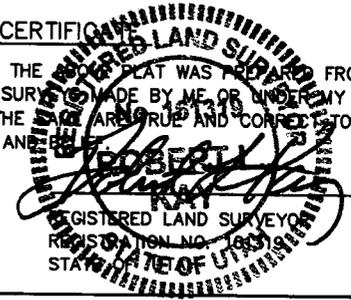
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- = SECTION CORNERS LOCATED.

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R  
20  
E

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PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EOG RESOURCES, INC.**

**LOCATION LAYOUT FOR**

NBU #733-36E

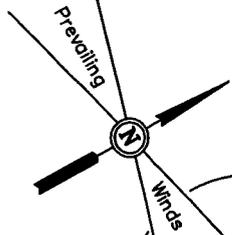
SECTION 36, T9S, R20E, S.L.B.&M.

671' FNL 2075' FEL

**FIGURE #1**

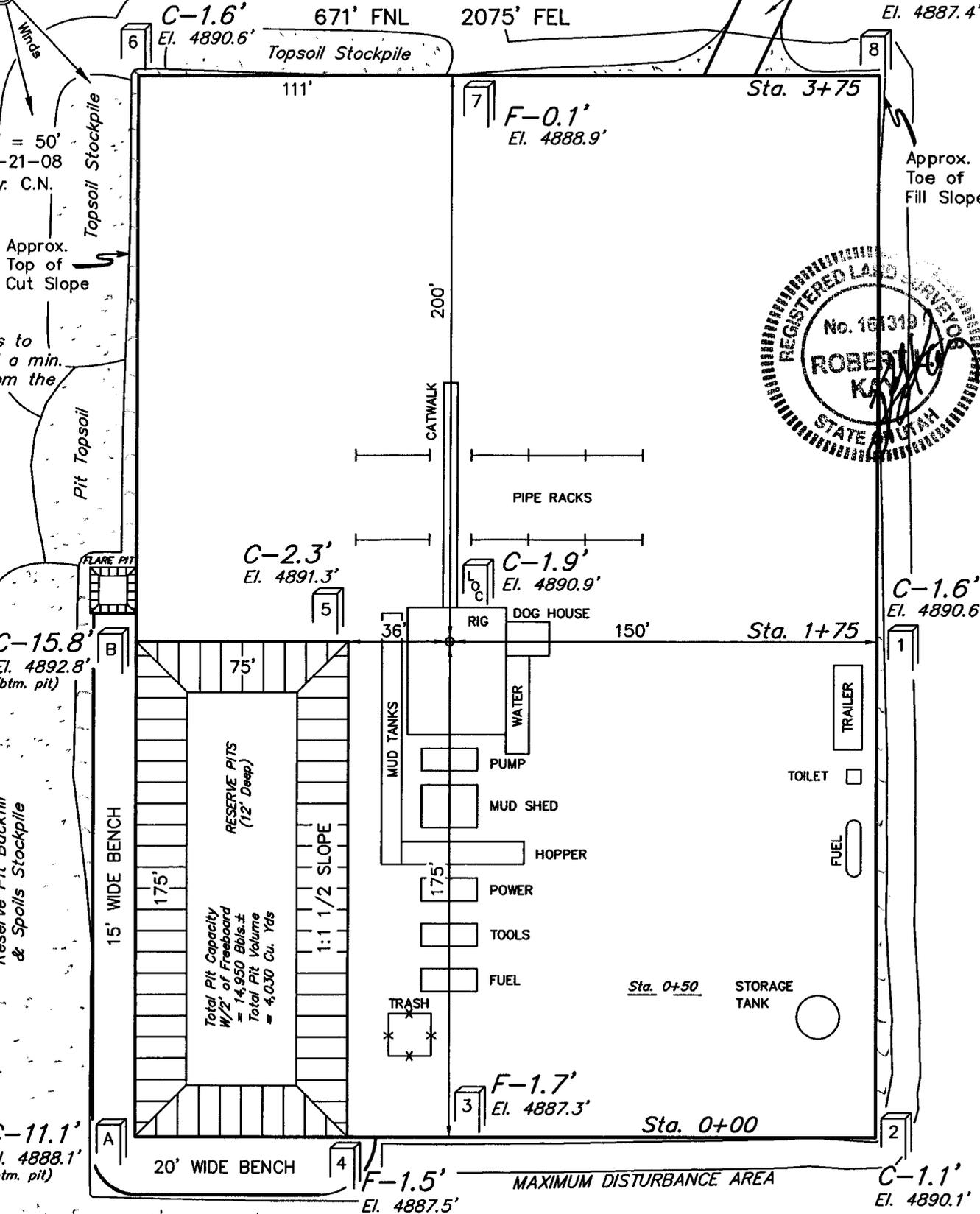
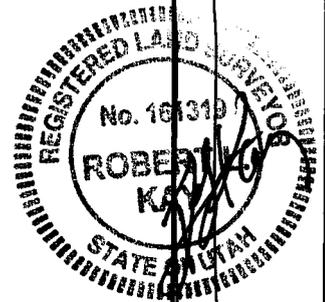
Proposed Access Road

F-1.6' El. 4887.4'



SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.

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



C-15.8' El. 4892.8' (btm. pit)

C-11.1' El. 4888.1' (btm. pit)

C-2.3' El. 4891.3'

F-1.7' El. 4887.3'

F-0.1' El. 4888.9'

F-1.5' El. 4887.5'

C-1.6' El. 4890.6'

C-1.1' El. 4890.1'

C-1.6' El. 4890.6'

C-1.9' El. 4890.9'

Total Pit Capacity  
W/2' of Freeboard  
= 14,950 Bbls.±  
Total Pit Volume  
= 4,030 Cu. Yds

Elev. Ungraded Ground at Location Stake = 4890.9'  
Elev. Graded Ground at Location Stake = 4889.0'

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

**EOG RESOURCES, INC.**

**TYPICAL CROSS SECTIONS FOR**

**NBU #733-36E**

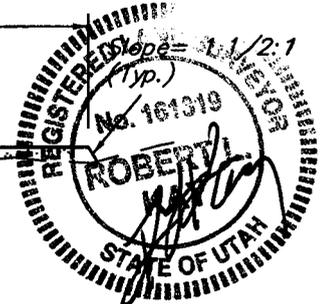
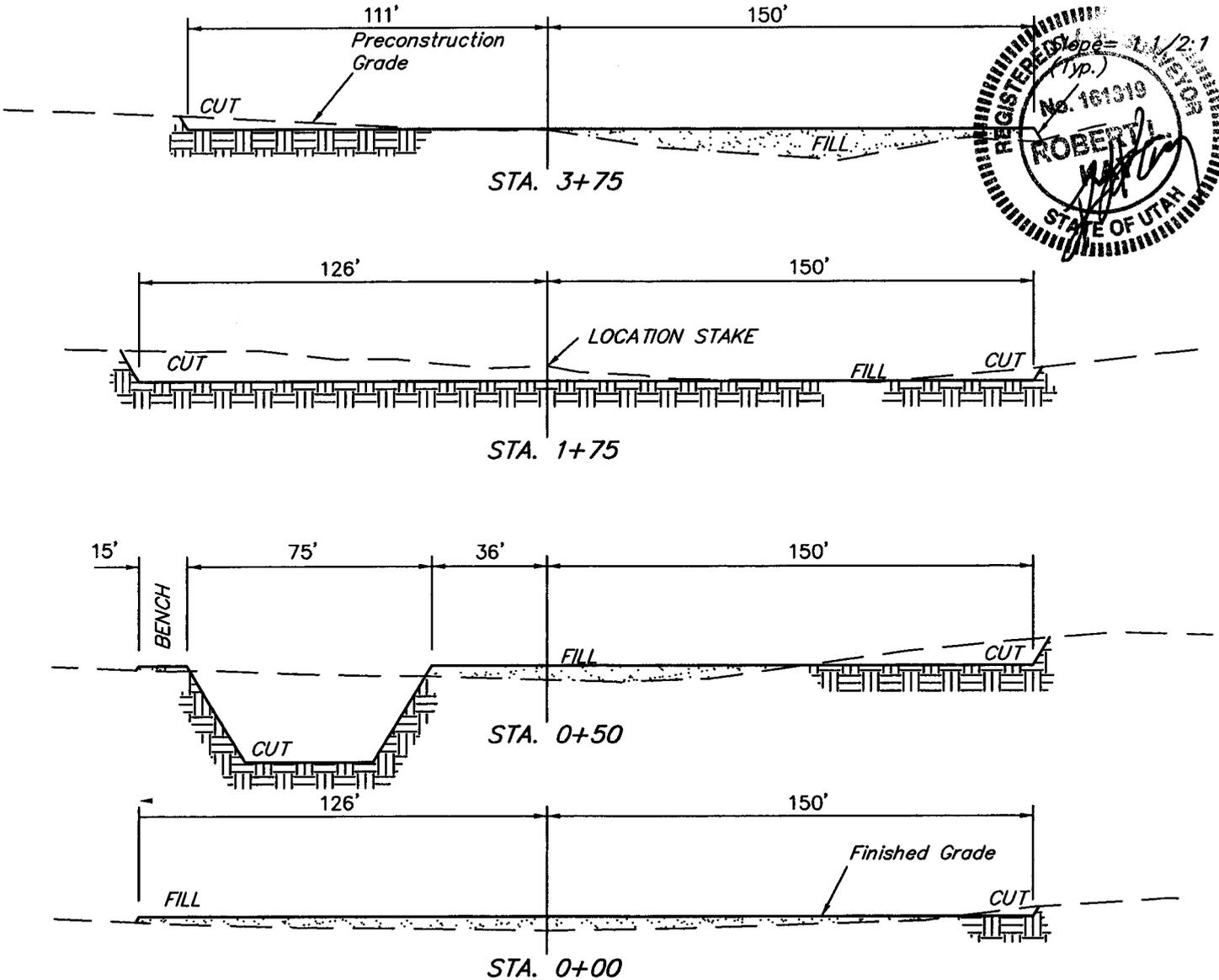
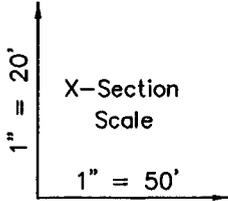
**SECTION 36, T9S, R20E, S.L.B.&M.**

**671' FNL 2075' FEL**

**FIGURE #2**

DATE: 03-21-08

Drawn By: C.N.



**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 2.877 ACRES  
 PIPELINE DISTURBANCE = ± 0.847 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.479 ACRES  
**TOTAL = ± 4.203 ACRES**

**NOTE:**

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

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2010 Cu. Yds.  
 Remaining Location = 5860 Cu. Yds.  
**TOTAL CUT = 7870 CU. YDS.**  
**FILL = 3840 CU. YDS.**

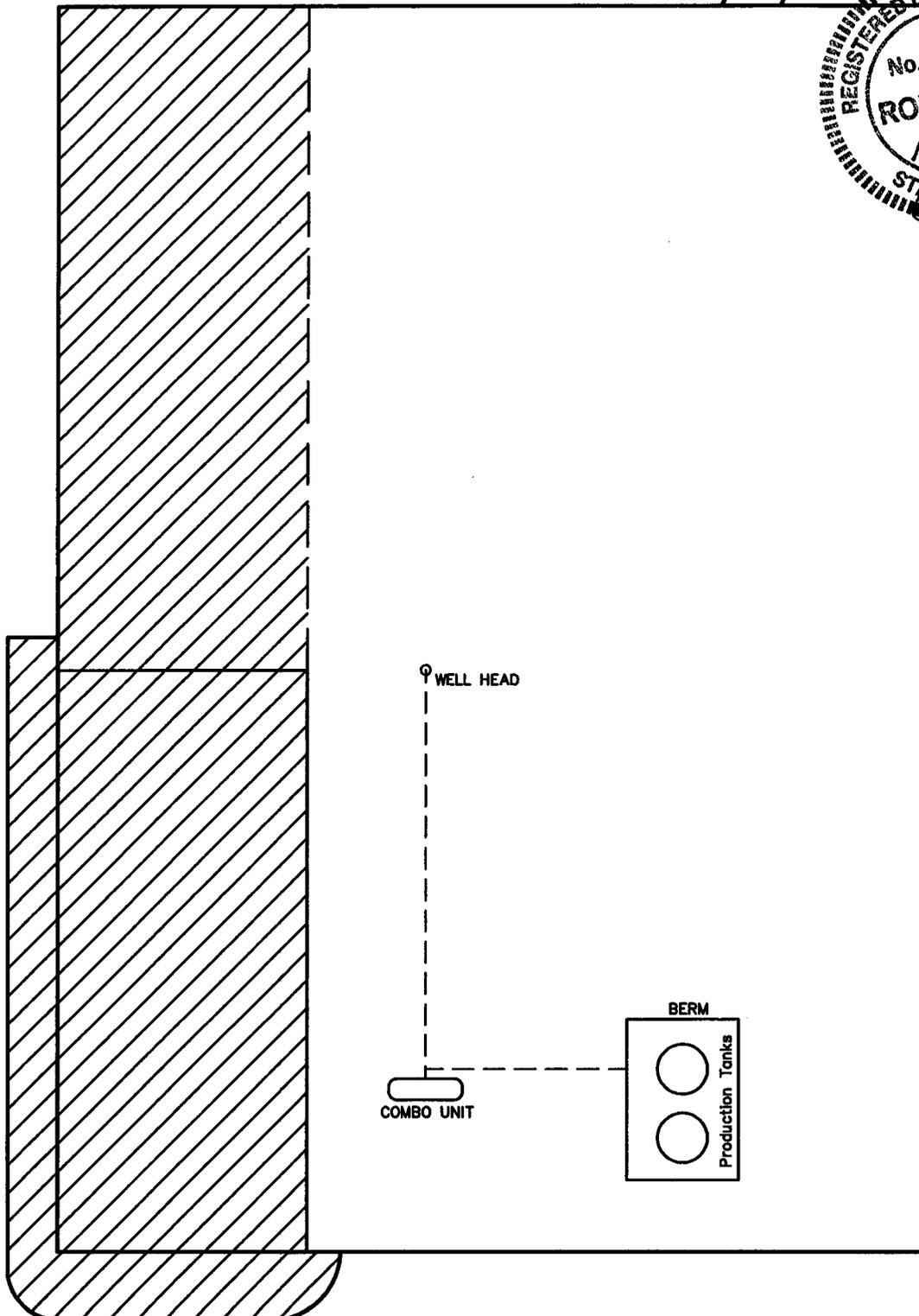
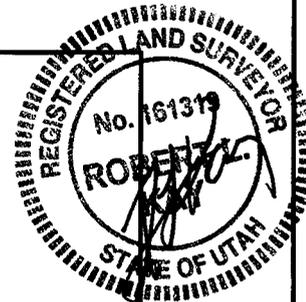
EXCESS MATERIAL = 4030 Cu. Yds.  
 Topsoil & Pit Backfill = 4030 Cu. Yds.  
 (1/2 Pit Vol.)  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
 NBU #733-36E  
 SECTION 36, T9S, R20E, S.L.B.&M.  
 671' FNL 2075' FEL

**FIGURE #3**

DATE: 03-21-08  
Drawn By: C.N.

Access  
Road



 RE-HABED AREA

# EOG RESOURCES, INC.

## NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.

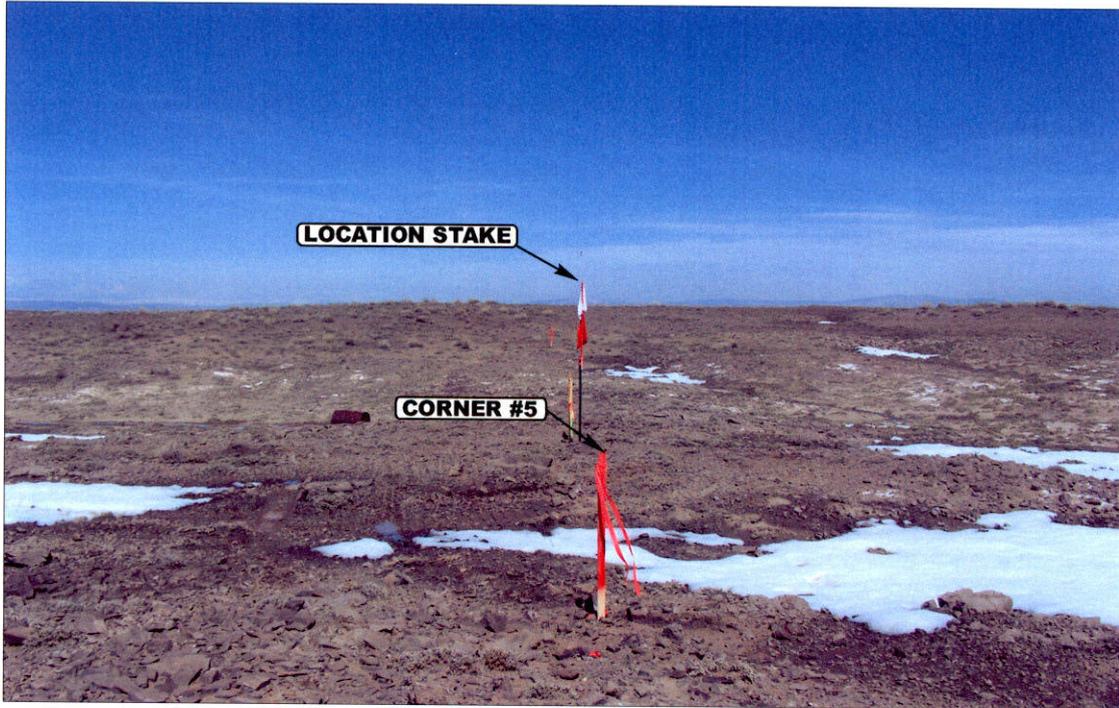


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

**LOCATION PHOTOS**

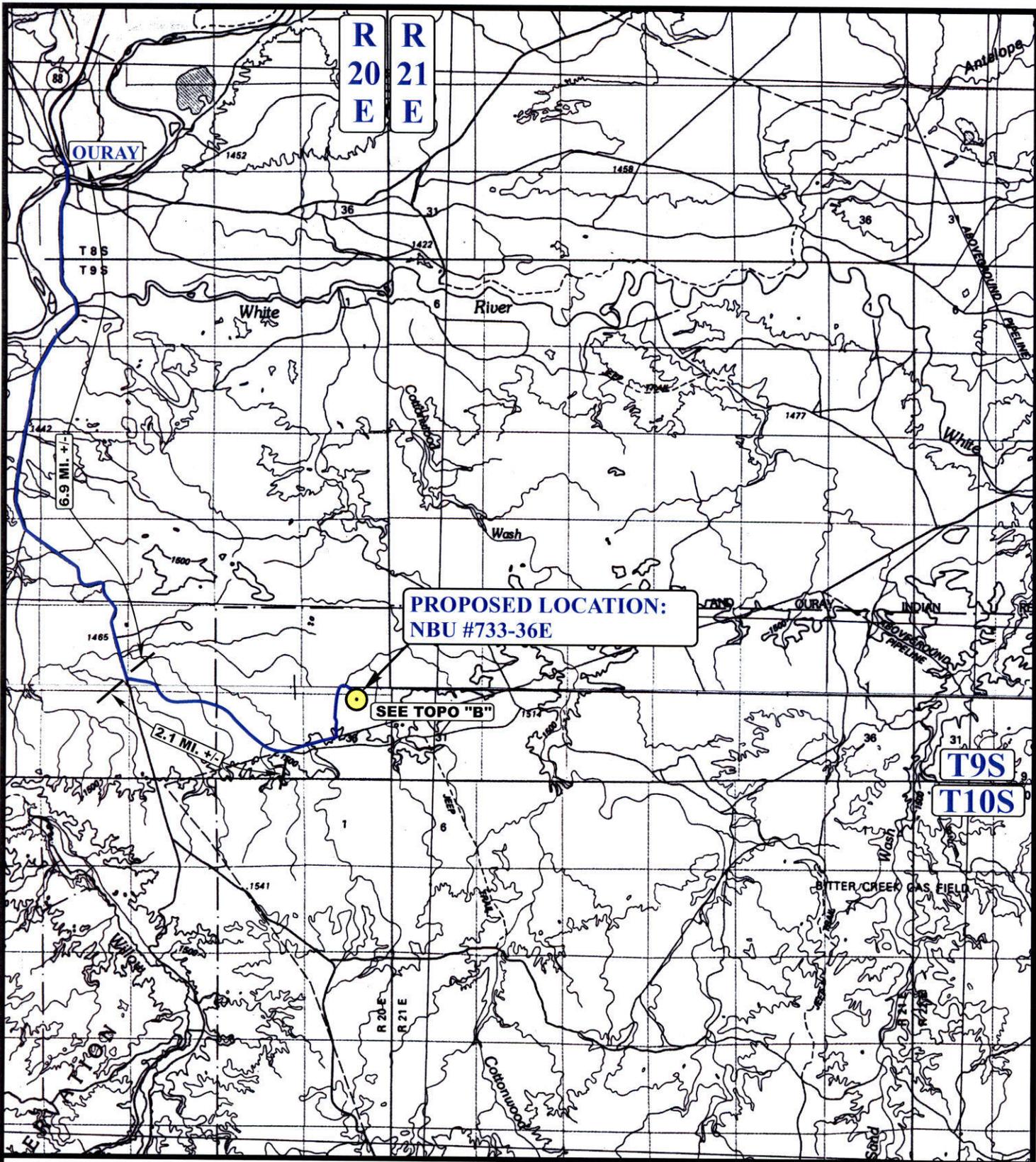
**03 24 08**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: C.R.

DRAWN BY: C.N.

REVISED: 00-00-00



**PROPOSED LOCATION:  
NBU #733-36E**

SEE TOPO "B"

**LEGEND:**

 PROPOSED LOCATION



**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
671' FNL 2075' FEL**

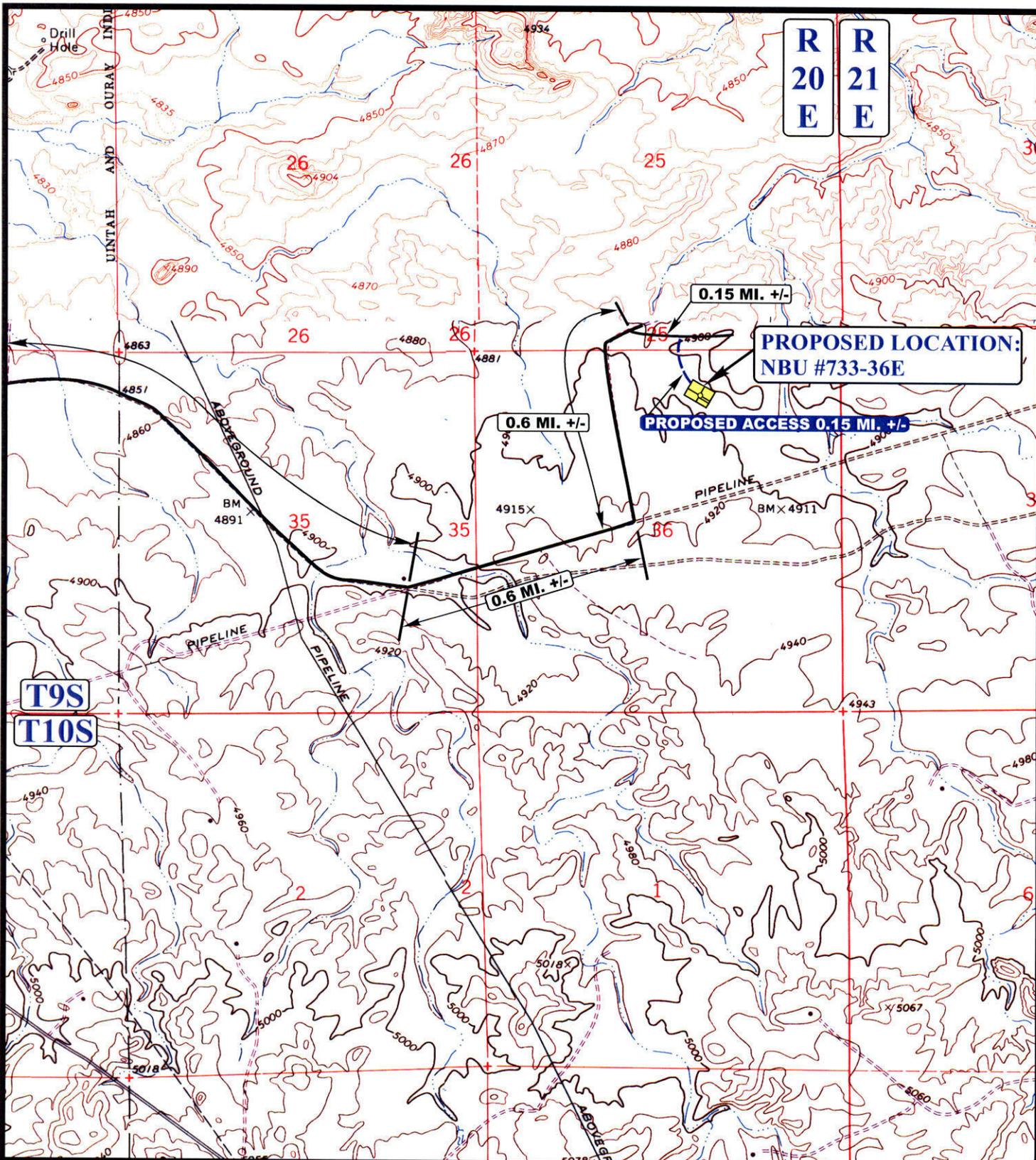


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 03 24 08  
**MAP** MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.N. REVISED: 00-00-00





**R  
20  
E**      **R  
21  
E**

**PROPOSED LOCATION:  
NBU #733-36E**

**PROPOSED ACCESS 0.15 MI. +/-**

**0.6 MI. +/-**

**0.6 MI. +/-**

**0.15 MI. +/-**

**T9S  
T10S**

**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
671' FNL 2075' FEL**



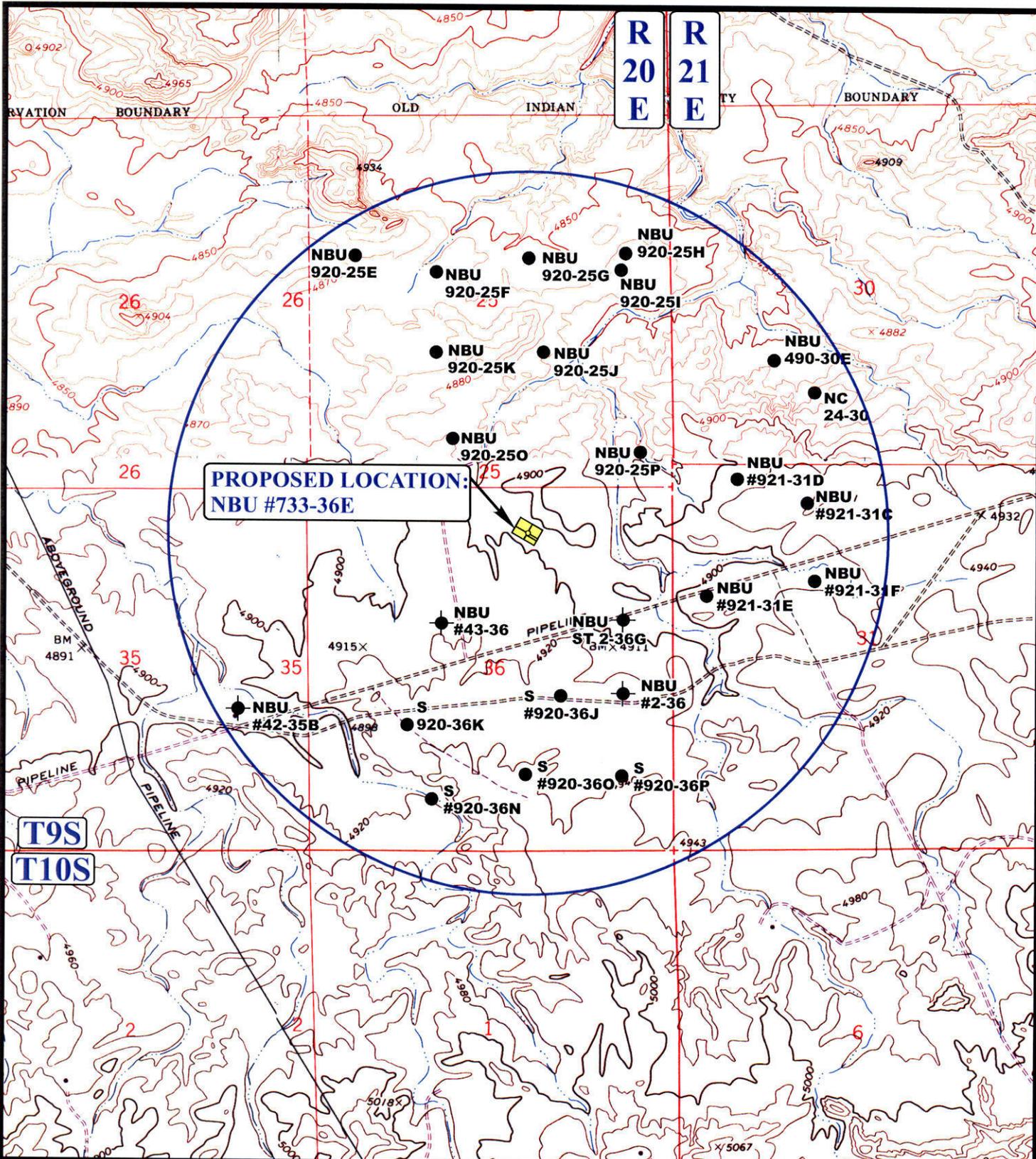
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**03 24 08**  
MONTH DAY YEAR

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





**LEGEND:**

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

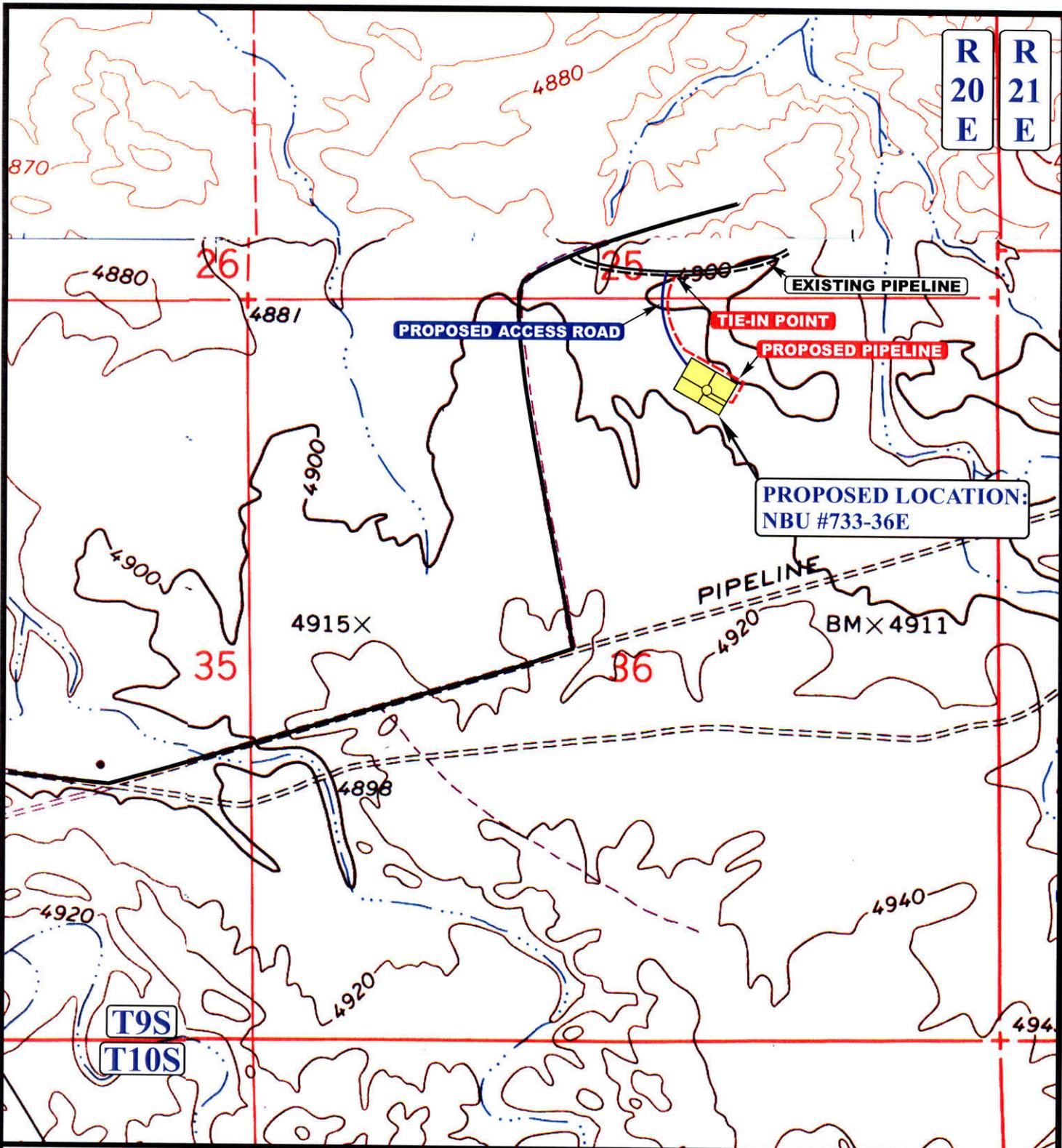
EOG RESOURCES, INC.

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**671' FNL 2075' FEL**

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



**TOPOGRAPHIC MAP** 03 24 08  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.N. REVISED: 00-00-00 **TOPO**



**APPROXIMATE TOTAL PIPELINE DISTANCE 1230' +/-**

**LEGEND:**

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



**EOG RESOURCES, INC.**

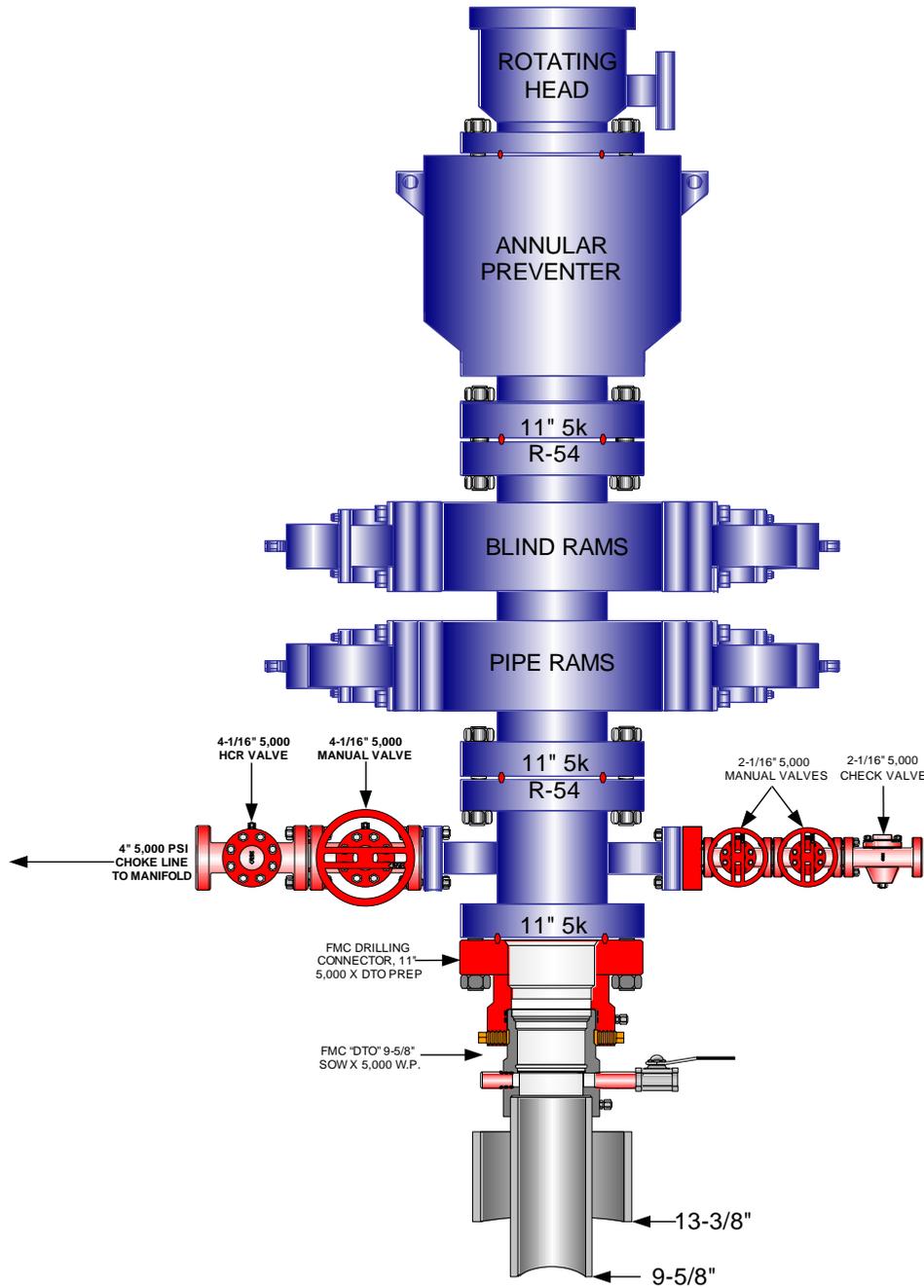
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**671' FNL 2075' FEL**

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

**TOPOGRAPHIC MAP** **03 24 08**  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.N. REVISED: 00-00-00

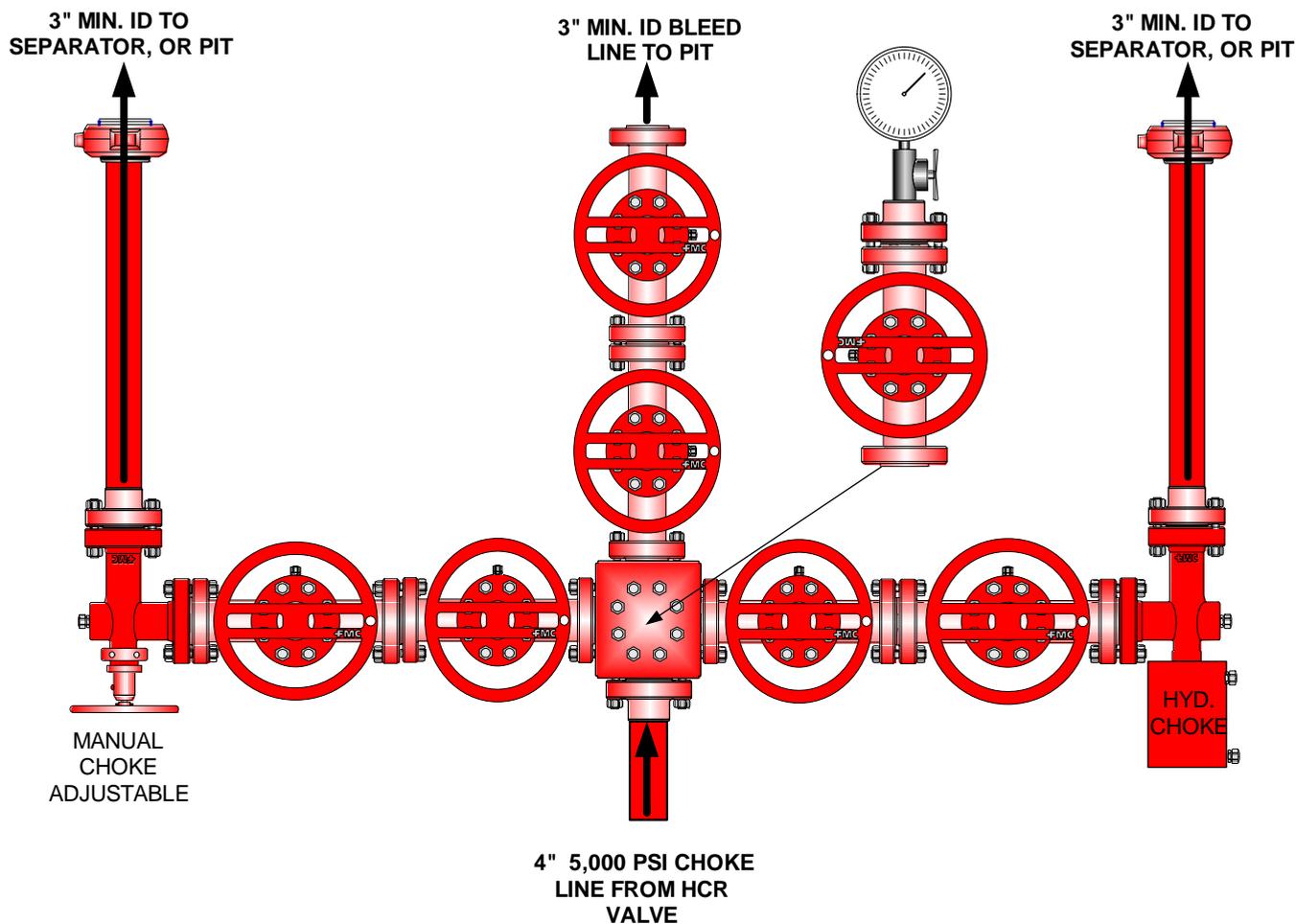


**EOG RESOURCES 11" 5,000 PSI W.P. BOP  
CONFIGURATION**



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

PAGE 2 OF 2



**Testing Procedure:**

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



***Natural Buttes Unit 733-36E  
NWNE, Section 36, T9S, 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 41.4 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 792' in length, 140' located within Section 25, T9S, R20E. 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 used.
- J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

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

New or reconstructed roads will be centerlined – flagged at time of location staking. The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40-foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

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

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

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

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

### **4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

#### **A. On Well Pad**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

#### **B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. The length of the proposed pipeline is 1230' x 40'. The proposed pipeline leaves the northeastern edge of the proposed location proceeding in a northerly direction for an approximate distance of 1230' tying into an existing pipeline in

the SWSE of Section 25, T9S, 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.** 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, CWU 2-29 SWD, Red Wash Evaporation Ponds, 1, 2, 3, 4, 5, or 6, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
  5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or by removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

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

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

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

#### **8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE LAYOUT:**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location 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 south corner of the location. The flare pit will be located downwind of the prevailing wind direction on the southwest 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 – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

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

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

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

## **11. SURFACE OWNERSHIP:**

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

**State of Utah**

**12. OTHER INFORMATION:**

A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used.
- A time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.

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

industry. There are commercial facilities available for stacking and storing drilling rigs.)

- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for 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 and paleontology survey will be conducted and submitted by Montgomery Archaeological Consultants.

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

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

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

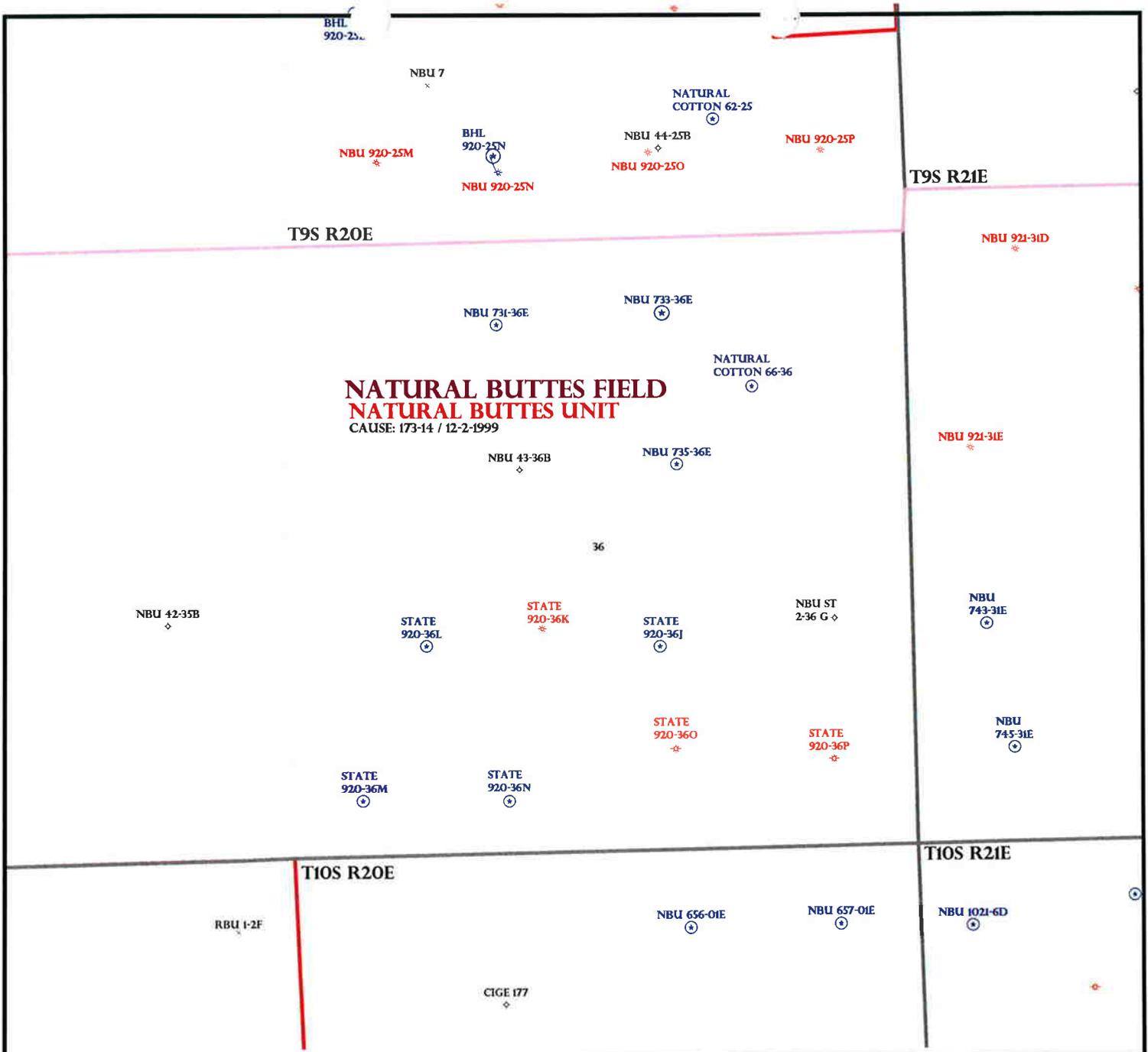
**CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that EOG Resources, Inc. is considered to be the operator of the Natural Buttes Unit 733-36E Well, located in the NWNE, of Section 36, T9S, 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.

April 7, 2008 \_\_\_\_\_  
Date

\_\_\_\_\_  
Kaylene R. Gardner, Lead Regulatory Assistant



OPERATOR: EOG RESOURCES INC (N9550)

SEC: 36 T.9S 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



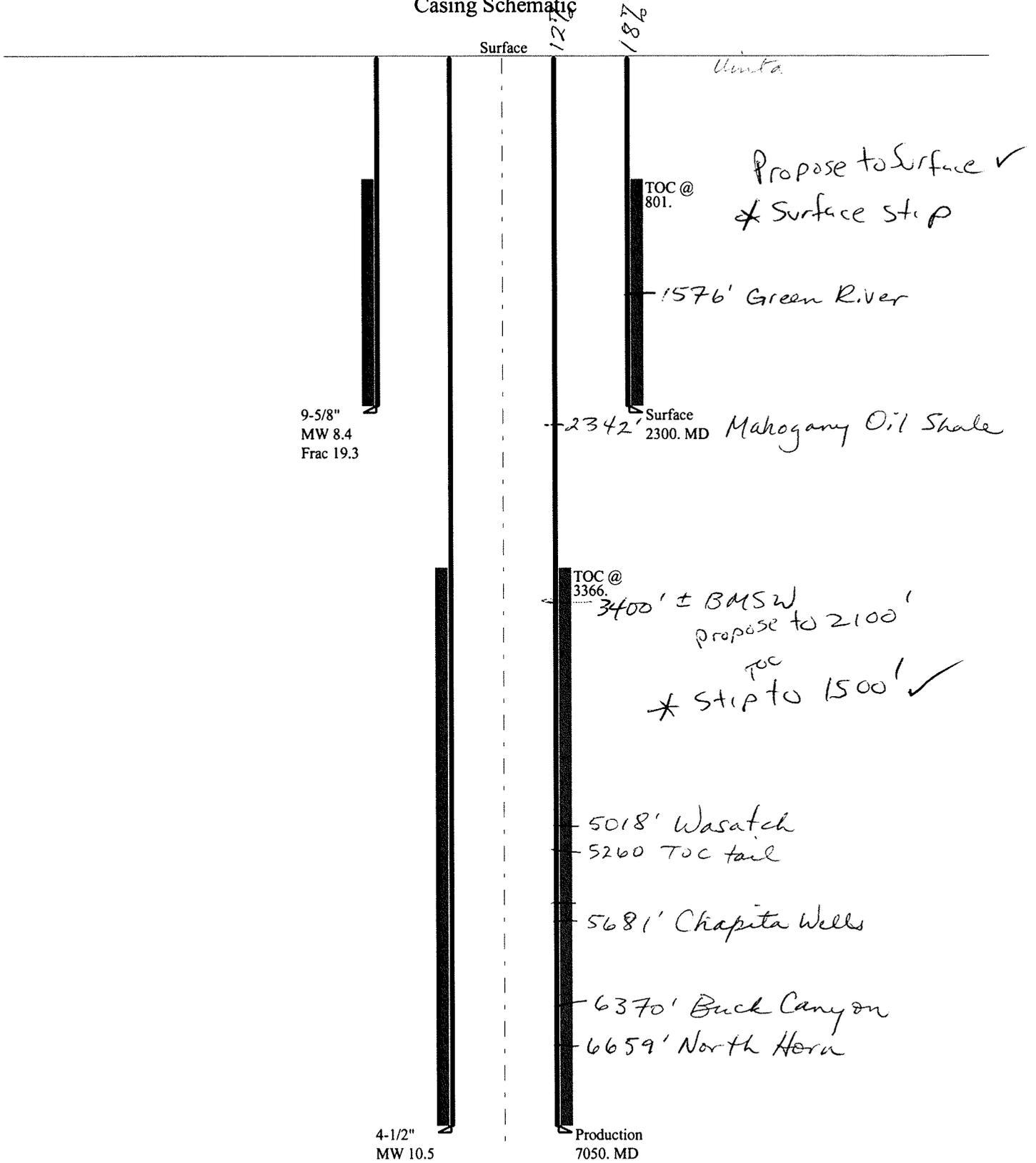
OIL, GAS & MINING



PREPARED BY: DIANA MASON  
 DATE: 15-APRIL-2008

# 2008-05 EOG NBU 733-36E

## Casing Schematic



Well name:	<b>2008-05 EOG NBU 733-36E</b>	
Operator:	<b>EOG Resources Inc.</b>	Project ID:
String type:	Surface	43-047-50042
Location:	Uintah County	

**Design parameters:****Collapse**

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

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

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

Cement top: 801 ft

**Burst**

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

No backup mud specified.

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 2,014 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 7,050 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 3,845 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	998.2
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	72	394	5.43 J

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

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

Date: May 12, 2008  
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:

**2008-05 EOG NBU 733-36E**Operator: **EOG Resources Inc.**

String type: Production

Project ID:

43-047-50042

Location: Uintah County

**Design parameters:****Collapse**Mud weight: 10.500 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

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

Cement top: 3,366 ft

**Burst**Max anticipated surface  
pressure: 2,294 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,845 psi

No backup mud specified.

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

Tension is based on buoyed weight.

Neutral point: 5,943 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	7050	4.5	11.60	N-80	LT&C	7050	7050	3.875	615.2
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	3845	6350	1.651	3845	7780	2.02	69	223	3.23 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MineralsPhone: 801-538-5357  
FAX: 801-359-3940Date: May 12, 2008  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 7050 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 &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

**BOPE REVIEW** **EOG NBU 733-36E API 43-047-50042**

INPUT		EOG NBU 733-36E API 43-047-50042	
Well Name		String 1	String 2
Casing Size (")		9 5/8	4 1/2
Setting Depth (TVD)		2300	7050
Previous Shoe Setting Depth (TVD)		60	2300
Max Mud Weight (ppg)		8.4	10.5
BOPE Proposed (psi)		500	5000
Casing Internal Yield (psi)		3520	7780
Operators Max Anticipated Pressure (psi)		3849	10.5 ppg

Calculations	String 1	9 5/8 "	
Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	1005	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	729	NO ~ o.k. - Air Drill to surface shoe
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	499	YES
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	512	NO Reasonable depth - no expected pressure
Required Casing/BOPE Test Pressure		2300 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		60 psi	

Calculations	String 2	4 1/2 "	
Max BHP [psi]	$.052 * \text{Setting Depth} * \text{MW} =$	3849	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	3003	YES
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	2298	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	2804	NO o.k.
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2300 psi	*Assumes 1psi/ft frac gradient

# Application for Permit to Drill

## Statement of Basis

6/9/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
764	43-047-50050-00-00	LOCKED	GW	S	No
<b>Operator</b>	EOG RESOURCES, INC.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 748-31E	<b>Unit</b>	NATURAL BUTTES		
<b>Field</b>	NATURAL BUTTES	<b>Type of Work</b>	DRILL		
<b>Location</b>	SWSE 31 9S 21E S 950 FSL 2056 FEL GPS Coord (UTM) 620273E 4427034N				

### Geologic Statement of Basis

Kerr McGee proposes to set 2,300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of section 31. The well is located over a mile to the east, is 200 feet deep and listed as used for oil & gasdrilling. 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. The production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole. The proposed surface casing and cement should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

6/9/2008  
Date / Time

### Surface Statement of Basis

This location is approximately 11 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 340 feet of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 748-31E gas well is proposed on a sandy flat which has a plugged well operated by Belco (NBU 51-31B). It appears it has been abandoned for many years. Only remnants of the old location are the well head, a few pieces of rusty metal and black scattered partially exposed black vinyl sheets. No defined drainages exist through the proposed pad area. A small drainage exist to the south and runs to the west. The site appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA attended the pre-site evaluation. He had no concerns regarding the location.

Ben Williams representing the UDWR stated the area is classified as yearlong crucial habitat for antelope. He stated the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Byron Tolman, representing EOG, a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the location.

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# Application for Permit to Drill

## Statement of Basis

6/9/2008

**Utah Division of Oil, Gas and Mining**Page 2

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Floyd Bartlett  
**Onsite Evaluator**

6/3/2008  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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

**Operator** EOG RESOURCES, INC.  
**Well Name** NBU 748-31E  
**API Number** 43-047-50050-0 **APD No** 764 **Field/Unit** NATURAL BUTTES  
**Location: 1/4,1/4 SWSE** **Sec** 31 **Tw** 9S **Rng** 21E 950 FSL 2056 FEL  
**GPS Coord (UTM)** 620272 4427051 **Surface Owner**

**Participants**

Floyd Bartlett (DOGM), Jim Davis (SITLA), Byron Tolman (Agent for EOG), Ben Williams (Utah Division of Wildlife Resources)

**Regional/Local Setting & Topography**

This location is approximately 11 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 340 feet of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 748-31E gas well is proposed on a sandy flat which has a plugged well operated by Belco (NBU 51-31B). It appears it has been abandoned for many years. Only remnants of the old location are the well head, a few pieces of rusty metal and black scattered partially exposed black vinyl sheets. No defined drainages exist through the proposed pad area. A small drainage exist to the south and runs to the west. The site appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA.

**Surface Use Plan****Current Surface Use**

Grazing  
 Recreational  
 Wildlife Habitat

**New Road**

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

**Ancillary Facilities** N

**Waste Management Plan Adequate?****Environmental Parameters**

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

Vegetation is a salt desert shrub type. Principal species present are rabbit brush, shadscale, horsebrush, cheatgrass, halogeton, wild onions, loco weed, Russian thistle, 4-wing saltbush and prickly pear.

Cattle, antelope and small mammals and birds.

### Soil Type and Characteristics

Soils are a moderately deep sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?**

**Paleo Potential Observed?**

**Cultural Survey Run?**

**Cultural Resources?**

### Reserve Pit

#### Site-Specific Factors

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

**Final Score** 25 1 **Sensitivity Level**

#### Characteristics / Requirements

The reserve pit is in an area of cut in the southeast corner of the location. Dimensions are 75' x 175' x 12' deep with 2' of freeboard. A liner with a minimum thickness of 16 mils. and a felt sub-liner are required.

**Closed Loop Mud Required?** N

**Liner Required?** Y

**Liner Thickness** 16

**Pit Underlayment Required?** Y

### Other Observations / Comments

Floyd Bartlett  
Evaluator

6/3/2008  
Date / Time

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**Date:** 8/28/2008 3:18 PM  
**Subject:** SITLA well approval

The following wells have been approved by SITLA including arch and paleo clearance.

4304750038	89550.1	NBU 731-36E	UINTAH
4304750039	89550.1	NBU 735-36E	UINTAH
4304750042	89550.1	NBU 733-36E	UINTAH

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/14/2008

**API NO. ASSIGNED:** 43047500420000

**WELL NAME:** NBU 733-36E

**OPERATOR:** EOG Resources, Inc. (N9550)

**PHONE NUMBER:** 435 781-9111

**CONTACT:** Kaylene Gardner

**PROPOSED LOCATION:** NWNE 36 090S 200E

**Permit Tech Review:**

**SURFACE:** 0671 FNL 2075 FEL

**Engineering Review:**

**BOTTOM:** 0671 FNL 2075 FEL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 39.99694

**LONGITUDE:** -109.61172

**UTM SURF EASTINGS:** 618514.00

**NORTHINGS:** 4428130.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML-3140 1/2

**PROPOSED FORMATION:** NHORN

**SURFACE OWNER:** 3 - State

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** STATE/FEE - 6196017
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 49-225
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**LOCATION AND SITING:**

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:**
- Effective Date:**
- Siting:**
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 5 - Statement of Basis - bhll  
9 - Cement casing to Surface - ddoucet  
13 - Cement Volume Formation (3a) - ddoucet  
17 - Oil Shale 190-5(b) - dmason



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*

## Permit To Drill

\*\*\*\*\*

**Well Name:** NBU 733-36E  
**API Well Number:** 43047500420000  
**Lease Number:** ML-3140 1/2  
**Surface Owner:** STATE  
**Approval Date:** 9/11/2008

**Issued to:**

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

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause No. 173-14.

**Duration:**

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

**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.

**Conditions of Approval:**

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

The cement volumes for the 9 5/8" surface casing shall be determined from actual hole conditions and the setting depth of the casing in order to place cement from the pipe setting depth back to the surface.

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 1500' MD in order to adequately isolate the Green River formation.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Notification Requirements:**

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

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

Dustin Doucet

- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

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

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

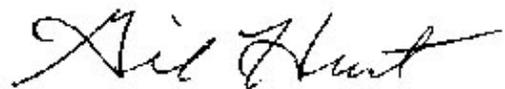
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

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

**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.

**Approved By:**



Gil Hunt  
Associate Director, Oil & Gas

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-3140-1/2</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 733-36E</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	9. API NUMBER: <b>43-047-50042</b>	
2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>	
3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY <b>Vernal</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-9145</b>	
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>775' FNL &amp; 2134' FEL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 36 9S 20E S</b>		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> 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 checked="" 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 type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
EOG Resources, Inc. respectfully requests authorization to change the approach for the access road as per the attached revised plat packet. (See figure #1).

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

Date: 02-23-09  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 3.4.2009  
Initials: KS

*MAY REQUIRE SITLA APPROVAL*

NAME (PLEASE PRINT) <u>Kaylene R. Gardner</u>	TITLE <u>Regulatory Administrator</u>
SIGNATURE <u>[Signature]</u>	DATE <u>2/2/2009</u>

(This space for State use only)

**RECEIVED**  
**FEB 10 2009**

**EOG RESOURCES, INC.**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

# EOG RESOURCES, INC.

## NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.

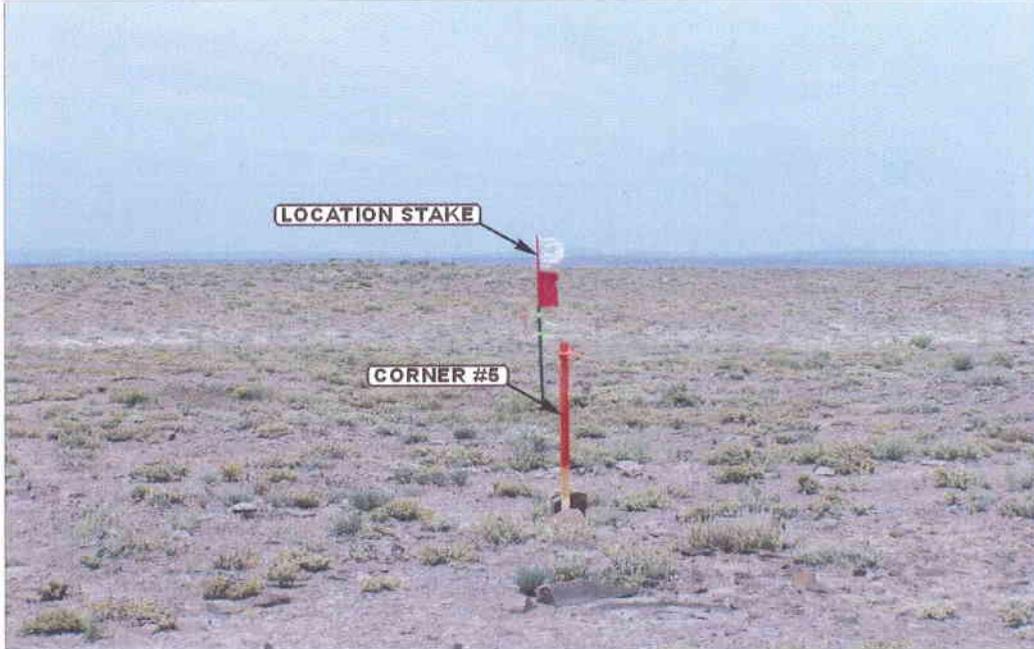


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS

03 24 08  
MONTH DAY YEAR

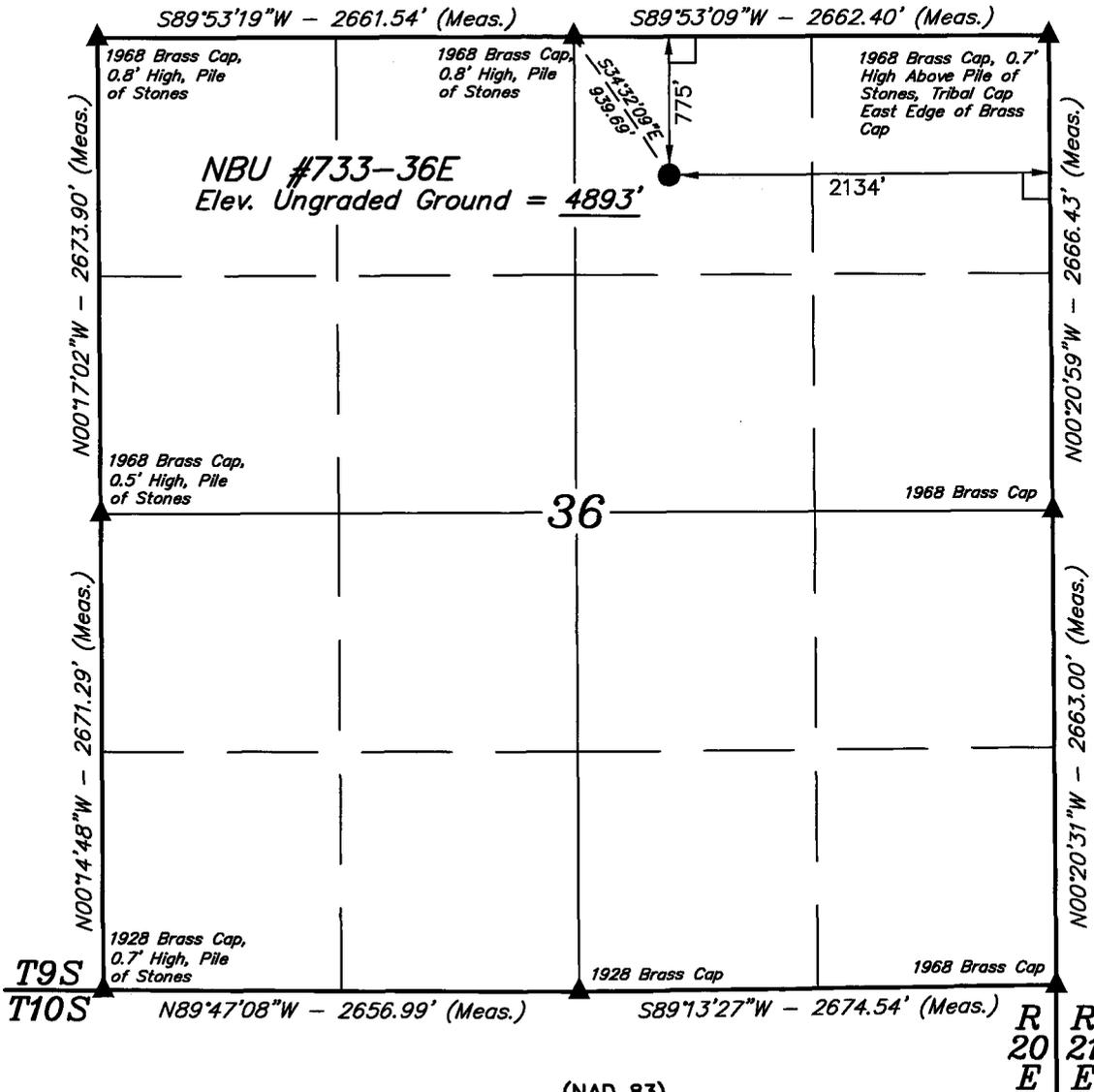
PHOTO

TAKEN BY: G.S.

DRAWN BY: Z.L.

REV: 06-24-08 J.J.

# T9S, R20E, S.L.B.&M.



**LEGEND:**  
 L = 90° SYMBOL  
 ● = PROPOSED WELL HEAD.  
 ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°59'47.97" (39.996658)  
 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)

## EOG RESOURCES, INC.

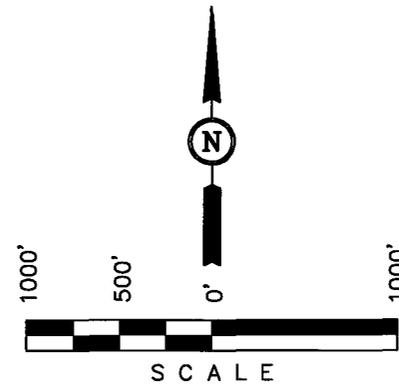
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

### 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, UTAH 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.

### BASIS OF BEARINGS

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



### CERTIFICATE

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

*Robert Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

REVISED: 06-02-08 C.H.

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

SCALE 1" = 1000'	DATE SURVEYED: 03-19-08	DATE DRAWN: 03-21-08
PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

EOG RESOURCES, INC.

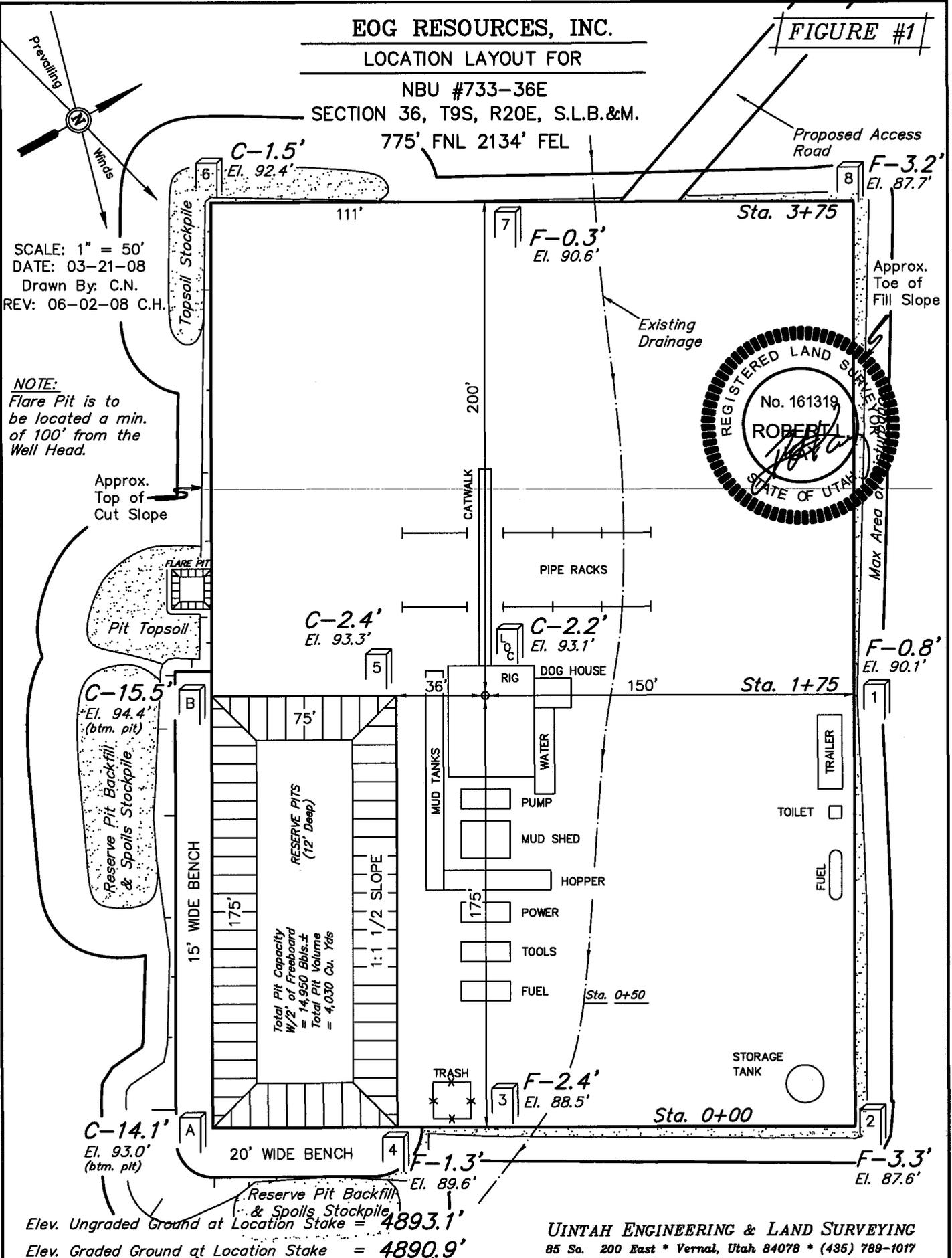
LOCATION LAYOUT FOR

NBU #733-36E

SECTION 36, T9S, R20E, S.L.B.&M.

775' FNL 2134' FEL

FIGURE #1



SCALE: 1" = 50'  
 DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.

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

Elev. Ungraded Ground at Location Stake = 4893.1'  
 Elev. Graded Ground at Location Stake = 4890.9'

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

**EOG RESOURCES, INC.**

**TYPICAL CROSS SECTIONS FOR**

**NBU #733-36E**

**SECTION 36, T9S, R20E, S.L.B.&M.**

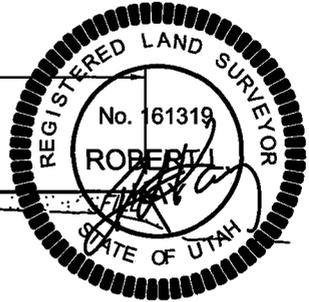
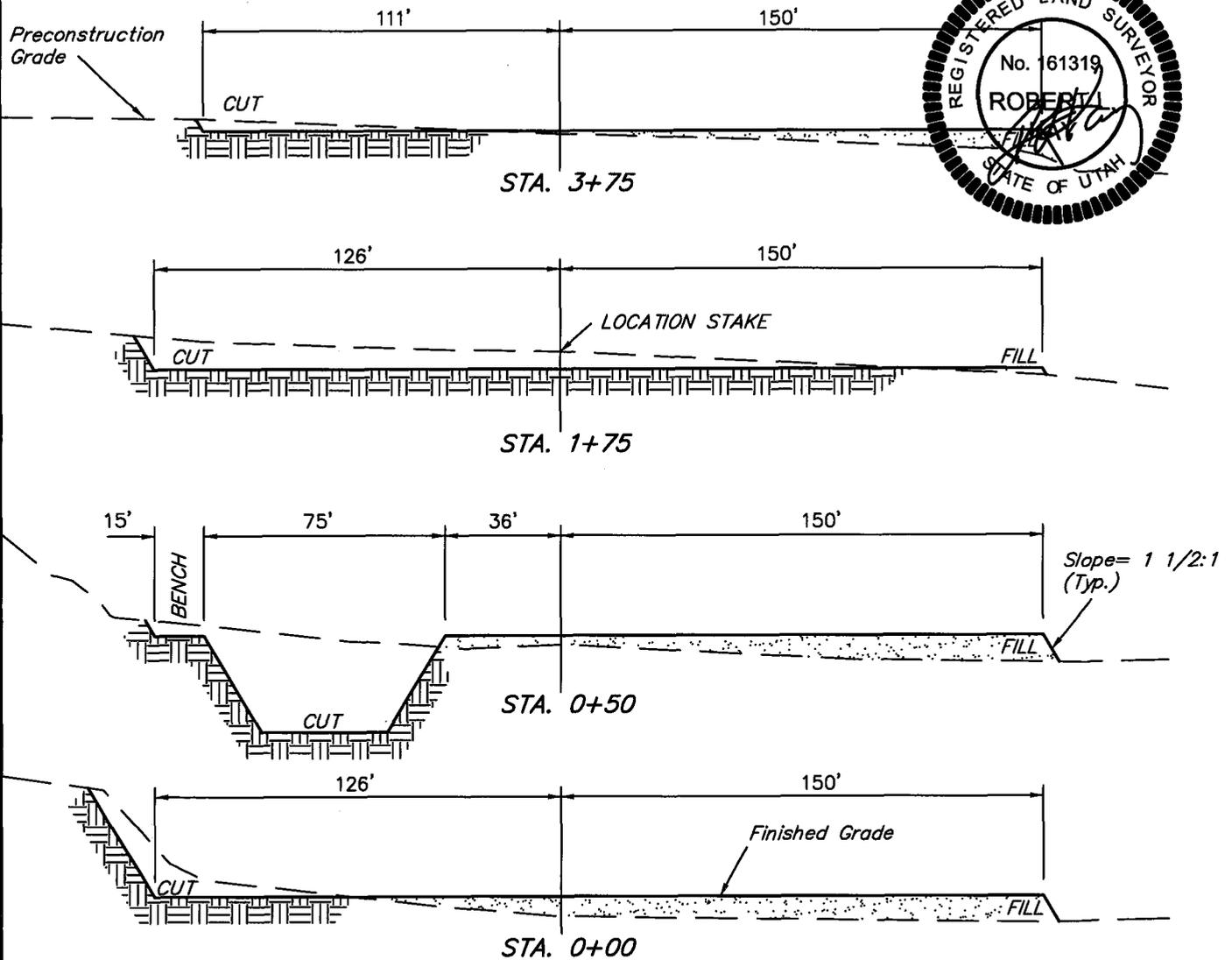
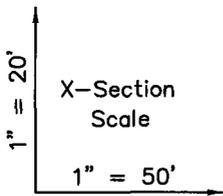
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08

Drawn By: C.N.

REV: 06-02-08 C.H.



**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 2.603 ACRES

ACCESS ROAD DISTURBANCE = ± 0.479 ACRES

PIPELINE DISTURBANCE = ± 0.872 ACRES

**TOTAL = ± 3.954 ACRES**

**NOTE:**

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

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	=	2,070 Cu. Yds.
Remaining Location	=	5,810 Cu. Yds.
<b>TOTAL CUT</b>	<b>=</b>	<b>7,880 CU. YDS.</b>
<b>FILL</b>	<b>=</b>	<b>3,790 CU. YDS.</b>

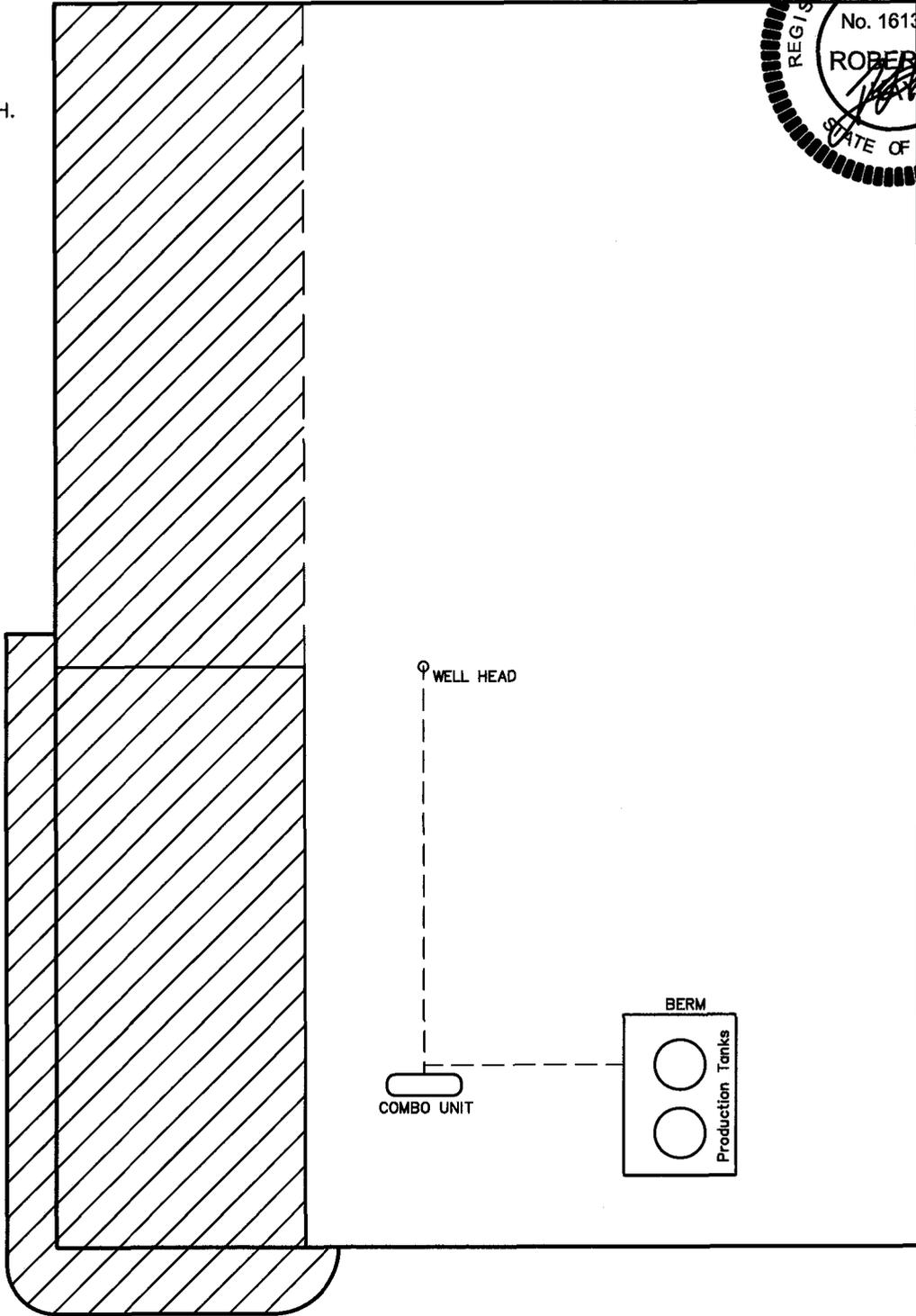
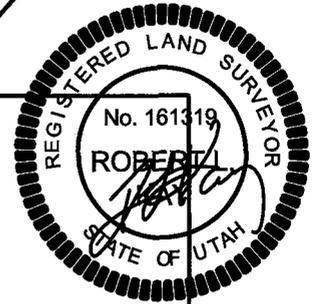
EXCESS MATERIAL	=	4,090 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,090 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

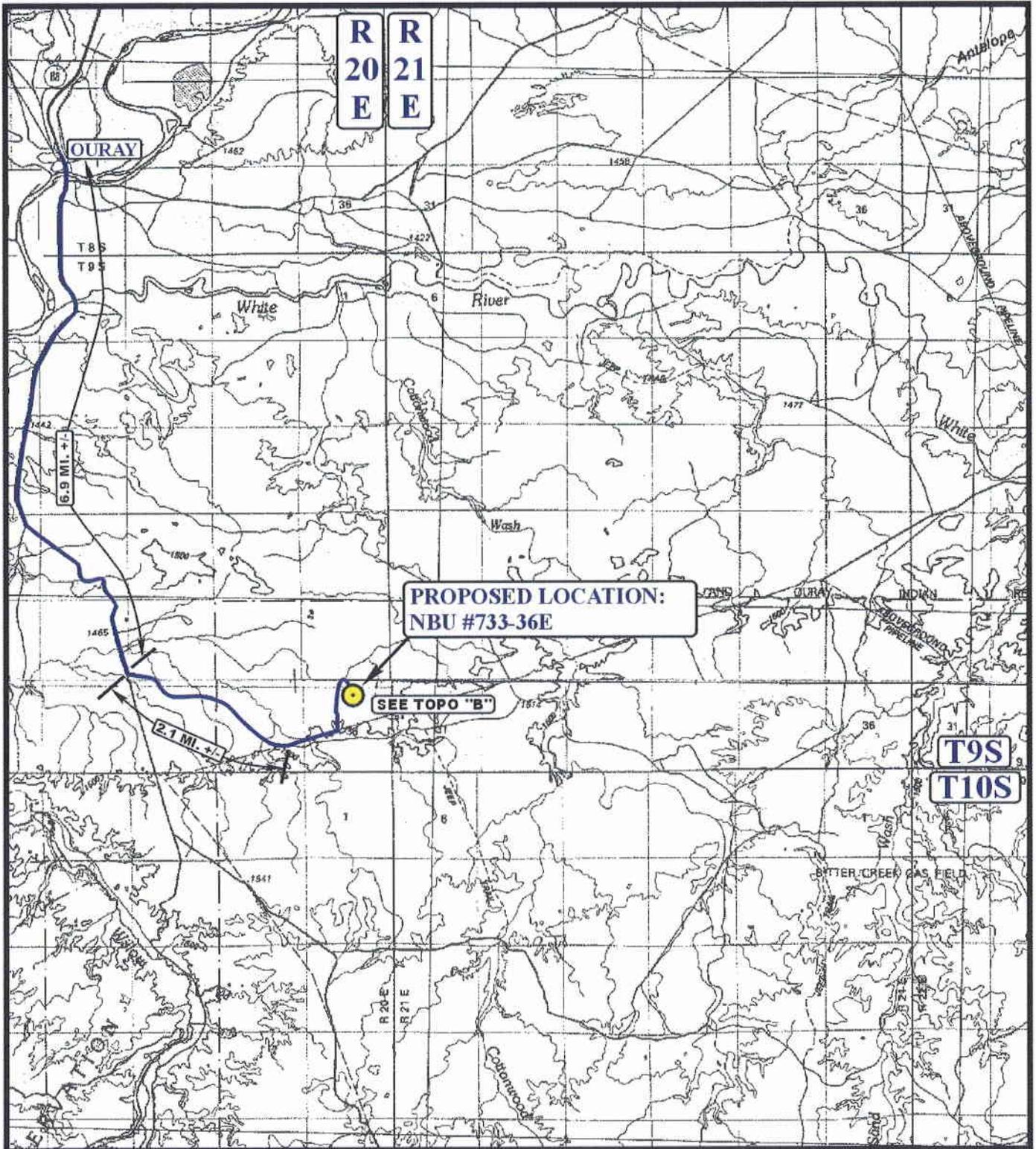
**FIGURE #3**



SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



 RE-HABED AREA



**LEGEND:**

 PROPOSED LOCATION



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

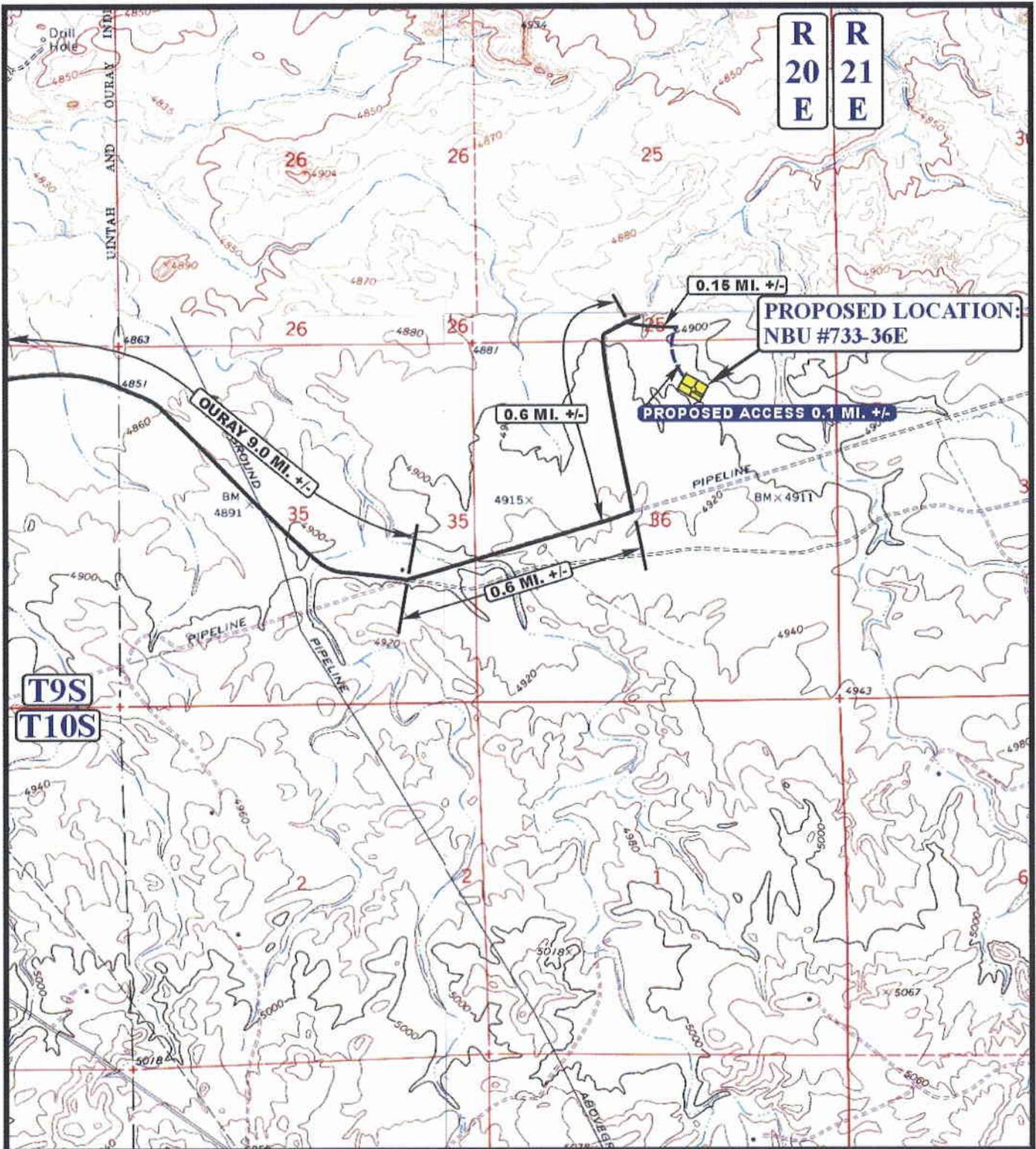


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **03 24 08**  
**MAP** MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 06-24-08 J.J.





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

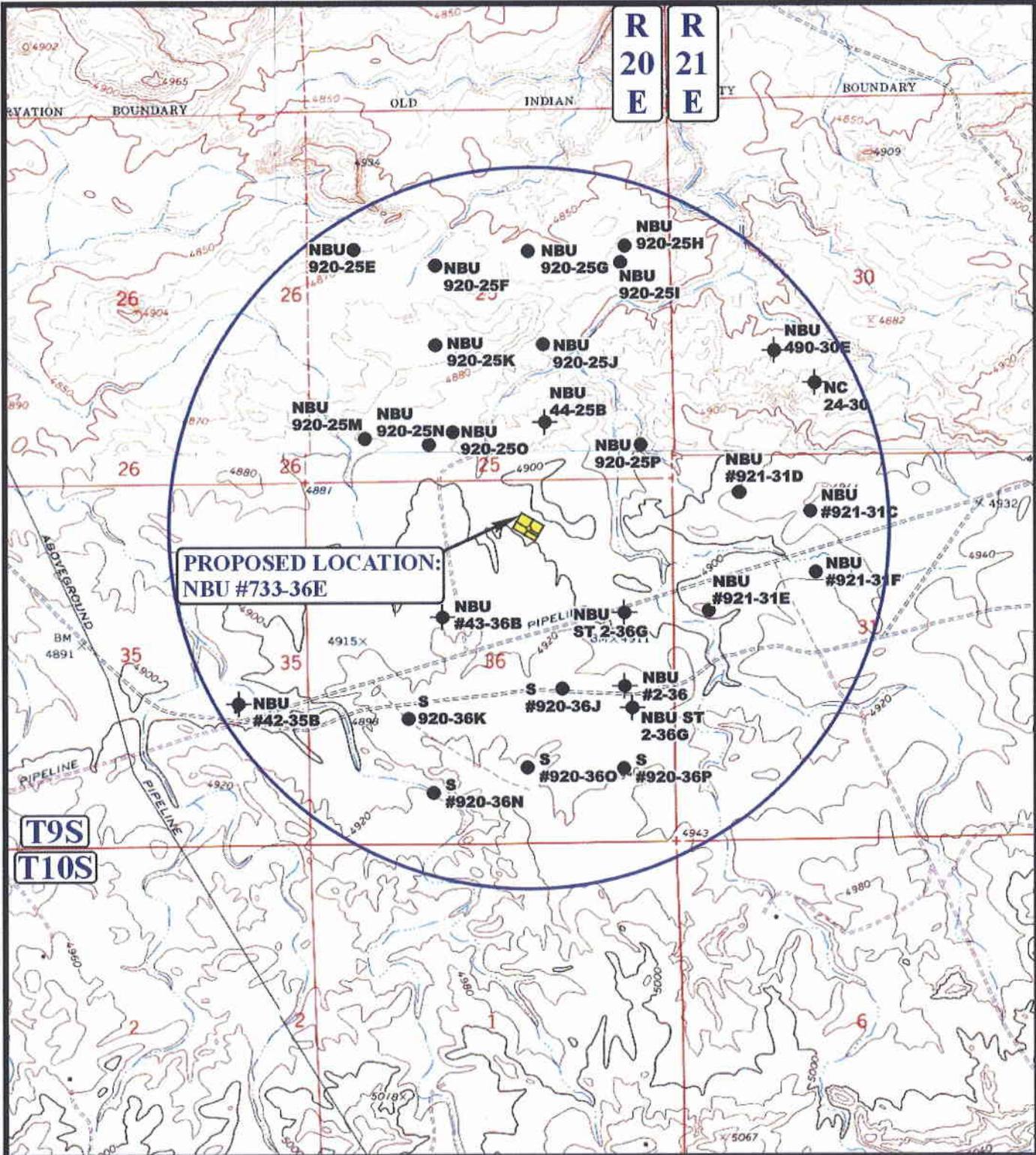


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 03 24 08  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**PROPOSED LOCATION:  
NBU #733-36E**

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ○ DISPOSAL WELLS  | ○ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |



**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



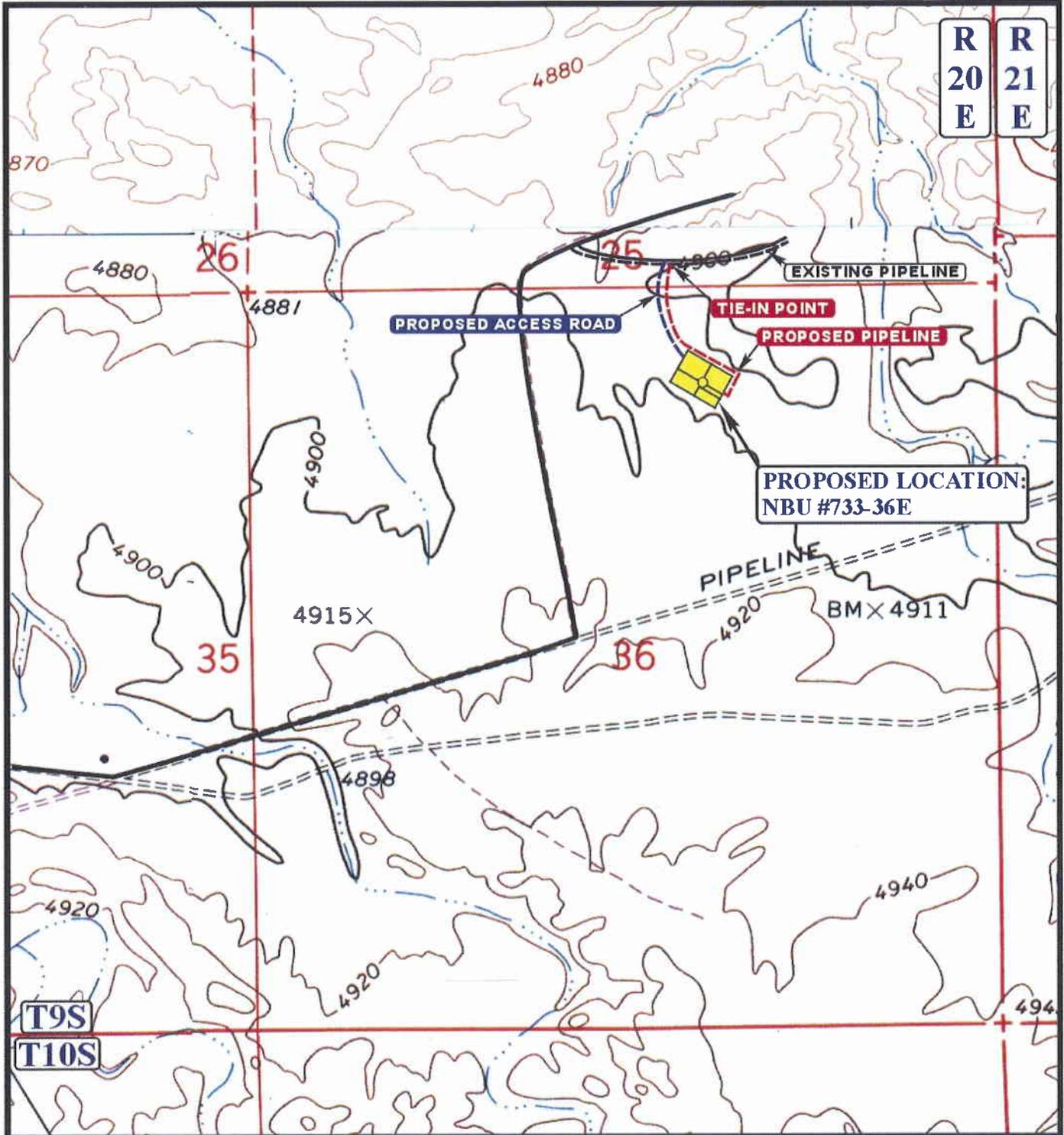
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**03 24 08**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**



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



**TOPOGRAPHIC**  
**MAP**

**03 24 08**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 JJ.



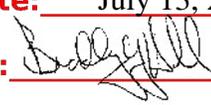
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3140 1/2
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below 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 733-36E
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047500420000
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0671 FNL 2075 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/10/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input 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 checked="" type="checkbox"/> <b>APD EXTENSION</b>
	<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.**  
 EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: July 13, 2009  
 By: 

<b>NAME (PLEASE PRINT)</b> Mickenzie Thacker	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/10/2009	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047500420000**

**API:** 43047500420000

**Well Name:** NBU 733-36E

**Location:** 0671 FNL 2075 FEL QTR NWNE SEC 36 TWNP 090S RNG 200E MER S

**Company Permit Issued to:** EOG RESOURCES, INC.

**Date Original Permit Issued:** 7/10/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

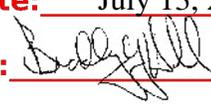
**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mickenzie Thacker

**Date:** 7/10/2009

**Title:** Operations Clerk **Representing:** EOG RESOURCES, INC.

**Date:** July 13, 2009

**By:** 

**RECEIVED** July 10, 2009

<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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3140 1/2
	<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 733-36E
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047500420000
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0671 FNL 2075 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/29/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input 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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Move Location"/>

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

As per onsite conducted 4/22/2008, EOG respectfully requests authorization to move the referenced location, From: 671 FNL - 2075 FEL To: 775 FNL - 2134 FEL Revised plats attached.

**Approved by the Utah Division of Oil, Gas and Mining**  
  
**Date:** August 04, 2009  
**By:**

<b>NAME (PLEASE PRINT)</b> Kaylene Gardner	<b>PHONE NUMBER</b> 435 781-9111	<b>TITLE</b> Regulatory Administrator
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/29/2009	

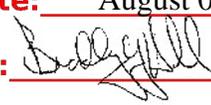
EOG RESOURCES, INC.  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

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

**Date:** August 04, 2009

**By:** 

# EOG RESOURCES, INC.

NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.

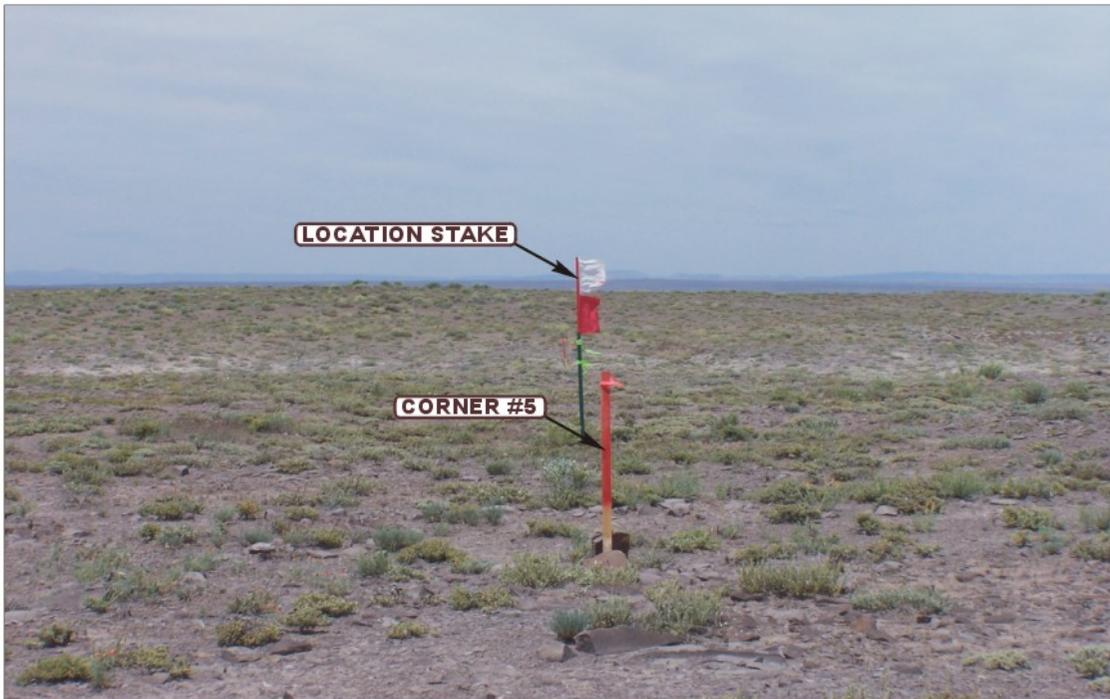


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS	03	24	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: Z.L.	REV: 06-24-08 J.J.		

RECEIVED July 29, 2009

# T9S, R20E, S.1.B.&M.

EOG RESOURCES, INC.

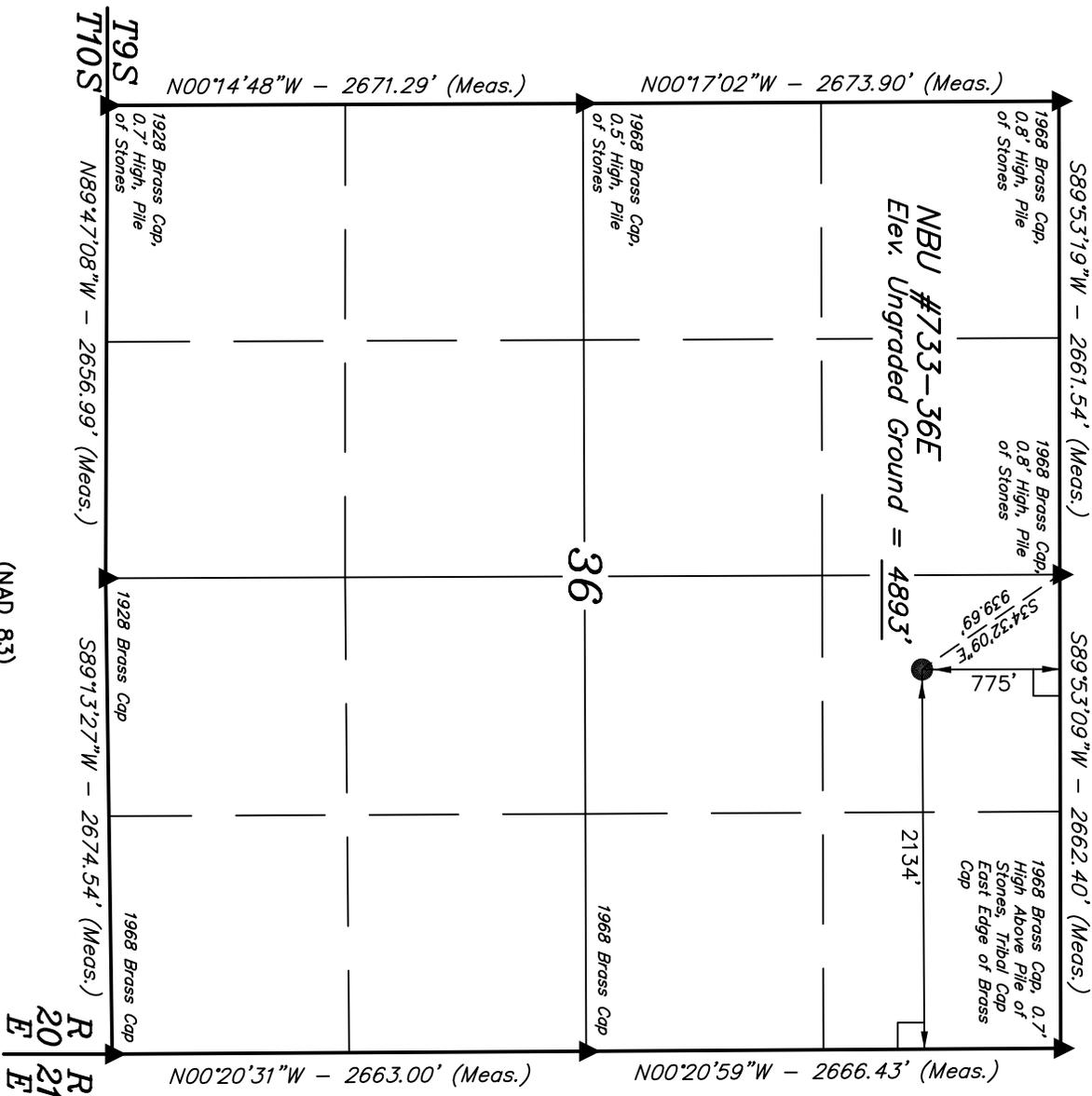
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.1.B.&M., Utah County, Utah.

### BASIS OF ELEVATION

TWO BENCH MARK STATION LOCATED IN THE NW 1/4 OF SECTION 16, T9S, R21E, S.1.B.&M. TAKEN FROM THE BIG PARK MOUNTAIN QUADRANGLE, UTAH, UTAH 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.

### BASIS OF BEARINGS

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

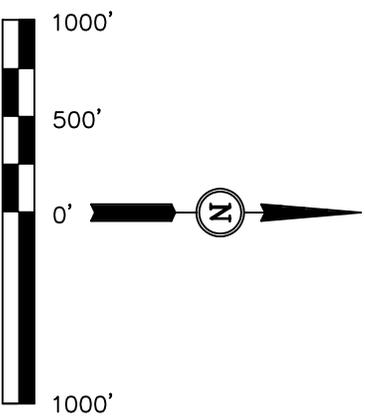


R 20 E  
T 9 S

### LEGEND:

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

(NAD 83)  
 LATITUDE = 39°59'47.97" (39.996658)  
 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)



### CERTIFICATE

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

*Kathy E. Smith*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 181319  
 STATE OF UTAH

REVISED: 06-02-08 C.H.

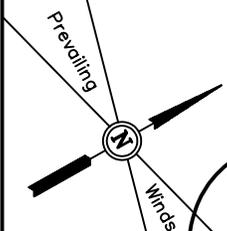
**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	03-19-08	DATE DRAWN:	03-21-08
PARTY	C.R. C.M. C.N.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	EOG RESOURCES, INC.		

EOG RESOURCES, INC.

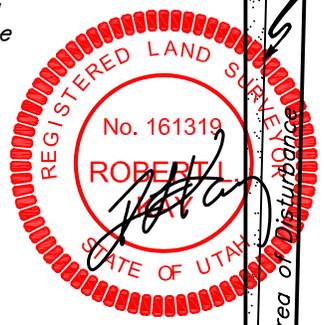
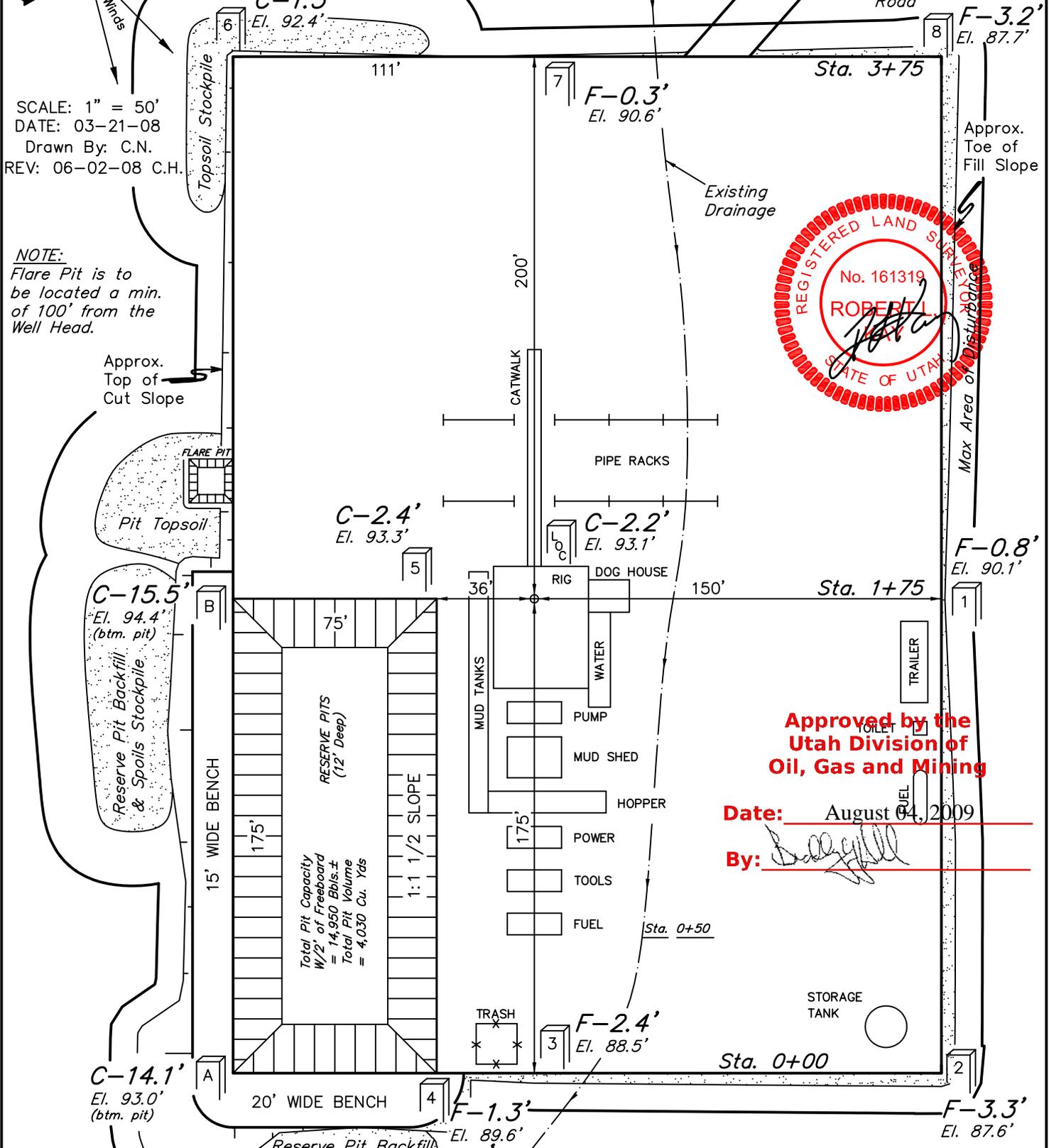
LOCATION LAYOUT FOR  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #1



SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.

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



Approved by the Utah Division of Oil, Gas and Mining

Date: August 04, 2009

By: [Signature]

Elev. Ungraded Ground at Location Stake = 4893.1'  
Elev. Graded Ground at Location Stake = 4890.9'

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

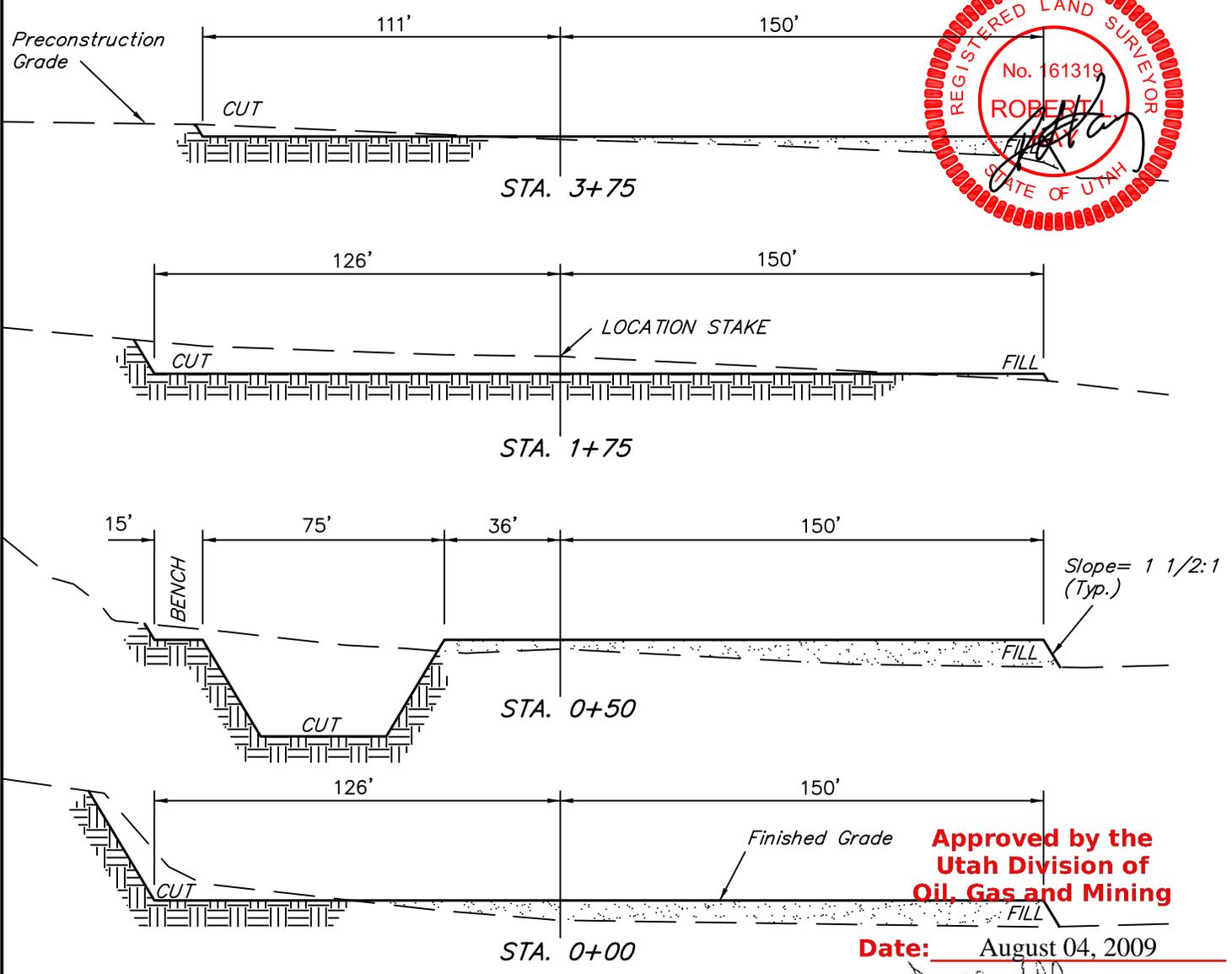
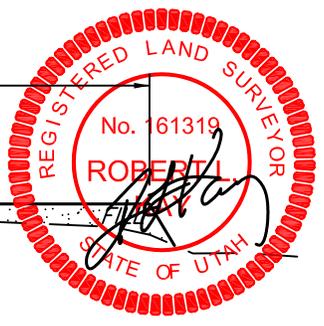
RECEIVED July 29, 2009

**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.

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



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

**Date:** August 04, 2009

**By:** [Signature]

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE	= ± 2.603 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.479 ACRES
PIPELINE DISTURBANCE	= ± 0.872 ACRES
<b>TOTAL</b>	<b>= ± 3.954 ACRES</b>

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

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

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 2,070 Cu. Yds.
Remaining Location	= 5,810 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 7,880 CU. YDS.</b>
<b>FILL</b>	<b>= 3,790 CU. YDS.</b>

EXCESS MATERIAL	= 4,090 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,090 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

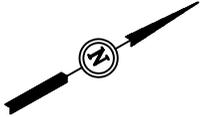
**UINTAH ENGINEERING & LAND SURVEYING**  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**RECEIVED July 29, 2009**

EOG RESOURCES, INC.  
PRODUCTION FACILITY LAYOUT FOR

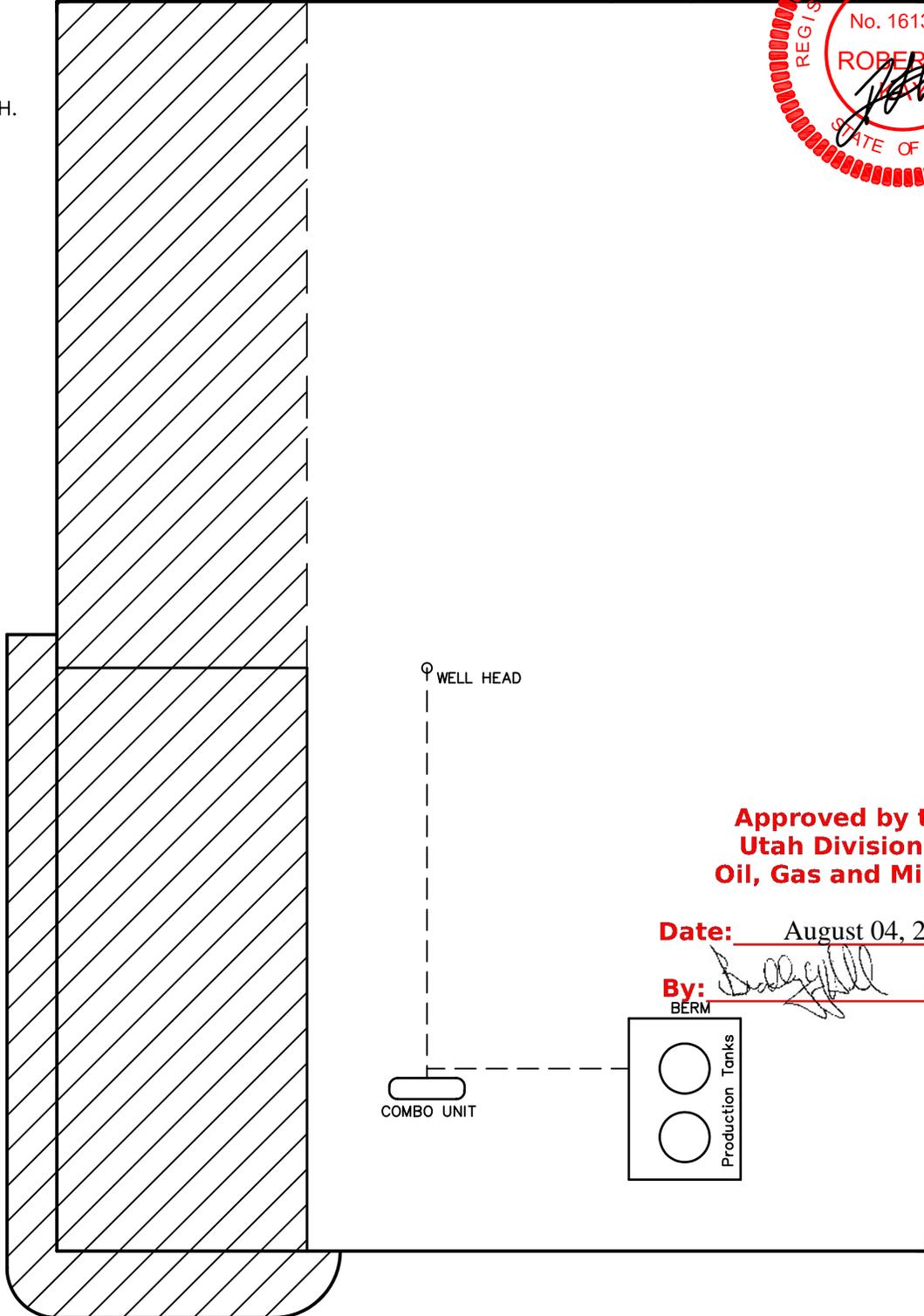
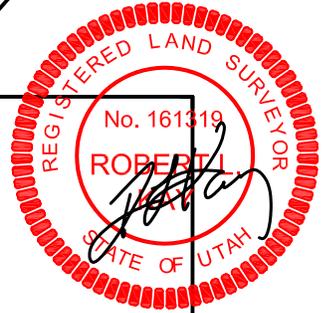
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #3



Access  
Road

SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



Approved by the  
Utah Division of  
Oil, Gas and Mining

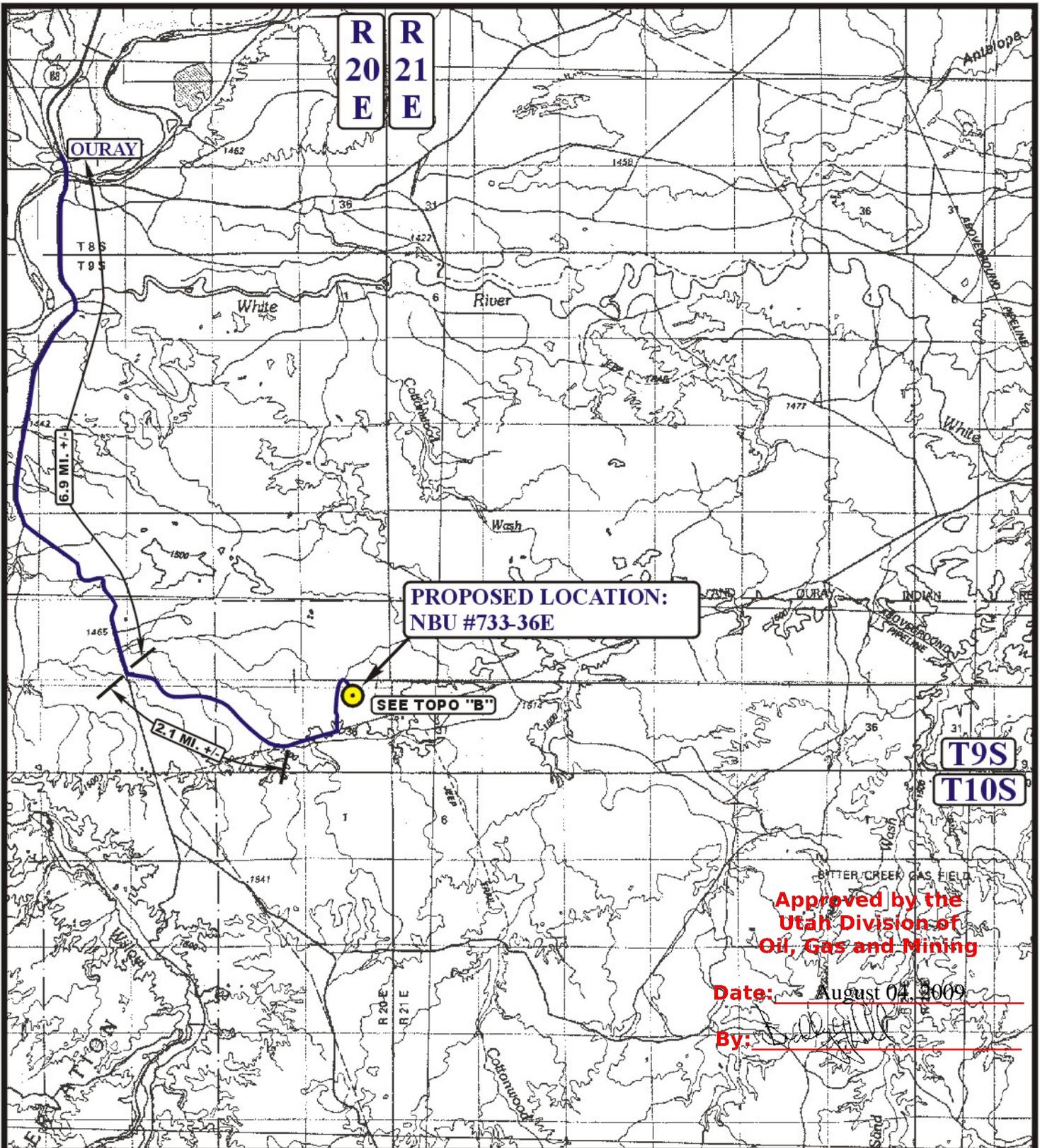
Date: August 04, 2009

By: *[Signature]*  
BERM

 RE-HABED AREA

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

RECEIVED July 29, 2009



**LEGEND:**

 PROPOSED LOCATION

**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



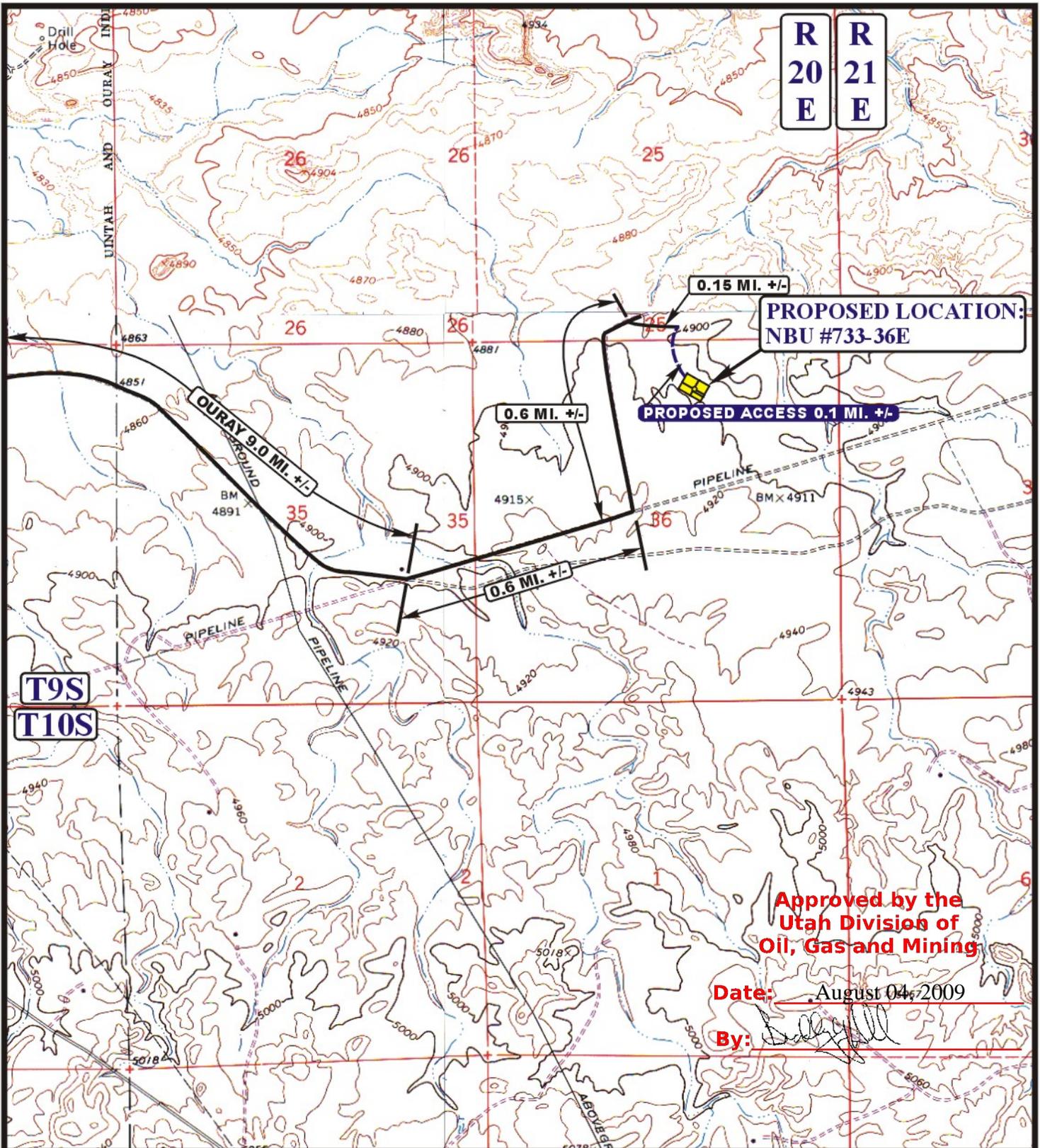
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **03 24 08**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 06-24-08 J.J.





**PROPOSED LOCATION:  
NBU #733-36E**

**PROPOSED ACCESS 0.1 MI. +/-**

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

**Date:** August 04, 2009

**By:** *[Signature]*

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



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

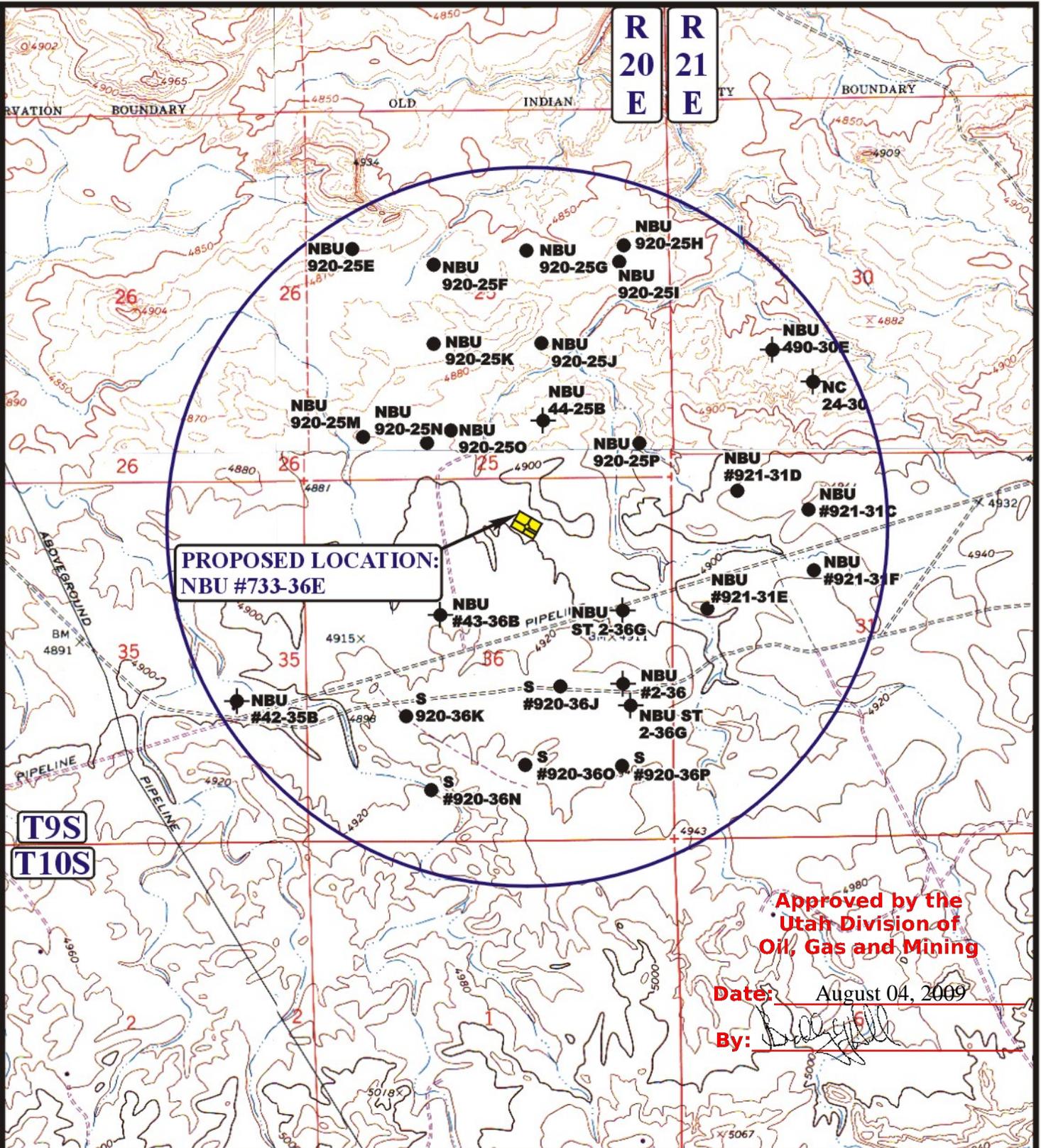


**TOPOGRAPHIC MAP** 03 24 08  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.



R 20  
E R 21  
E



PROPOSED LOCATION:  
NBU #733-36E

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: August 04, 2009

By: *[Signature]*

T9S  
T10S

LEGEND:

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



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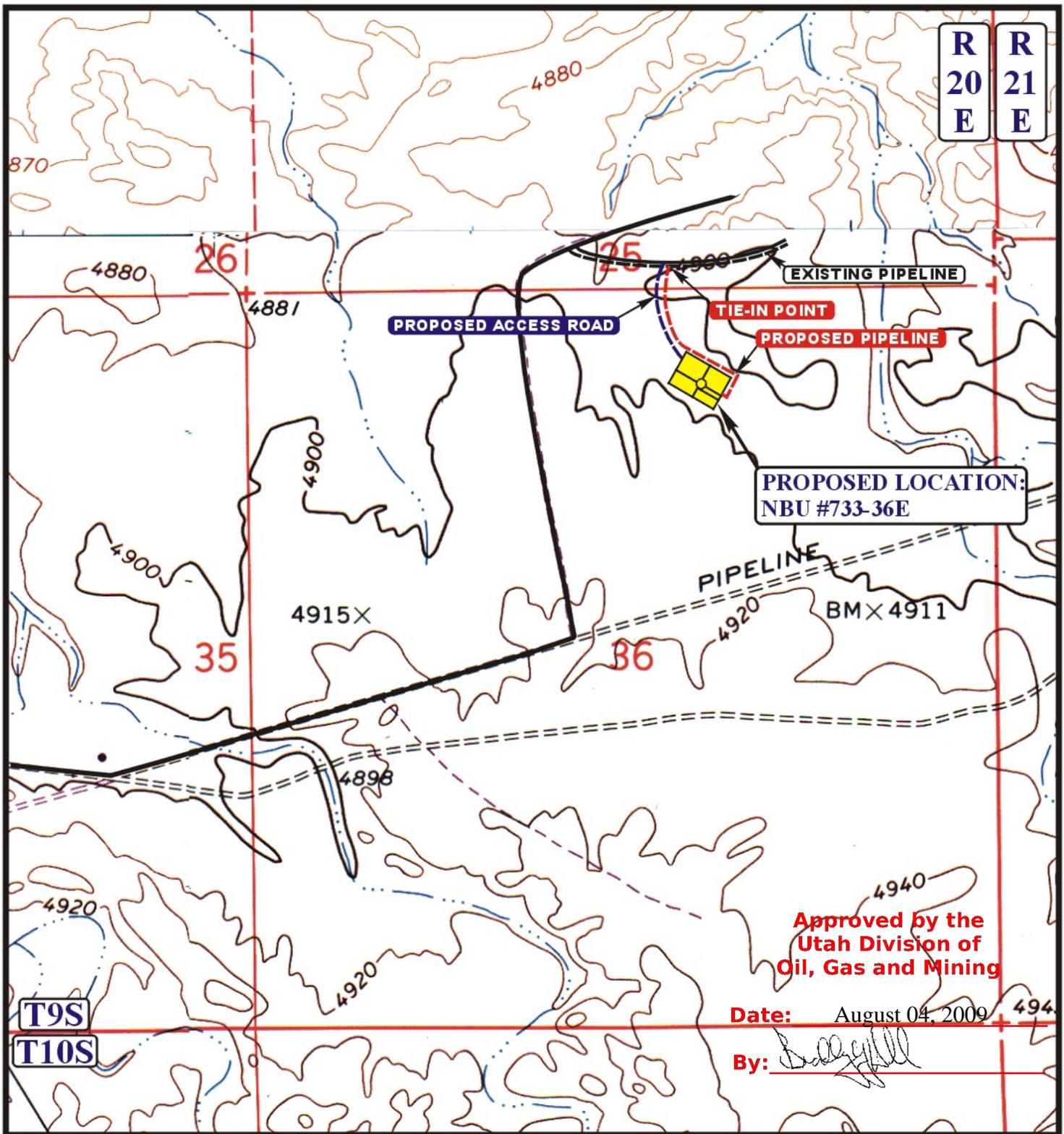


EOG RESOURCES, INC.

NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

TOPOGRAPHIC MAP 03 24 08  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: August 04, 2009

By: *[Signature]*

APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

EOG RESOURCES, INC.

NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL



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



TOPOGRAPHIC MAP 03 24 08  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 J.J.



EOG RESOURCES, INC.  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

# EOG RESOURCES, INC.

NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS	03	24	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: Z.L.	REV: 06-24-08 J.J.		

**RECEIVED** July 29, 2009

# T9S, R20E, S.L.B.&M.

EOG RESOURCES, INC.

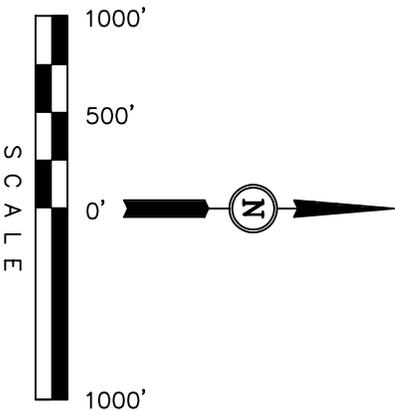
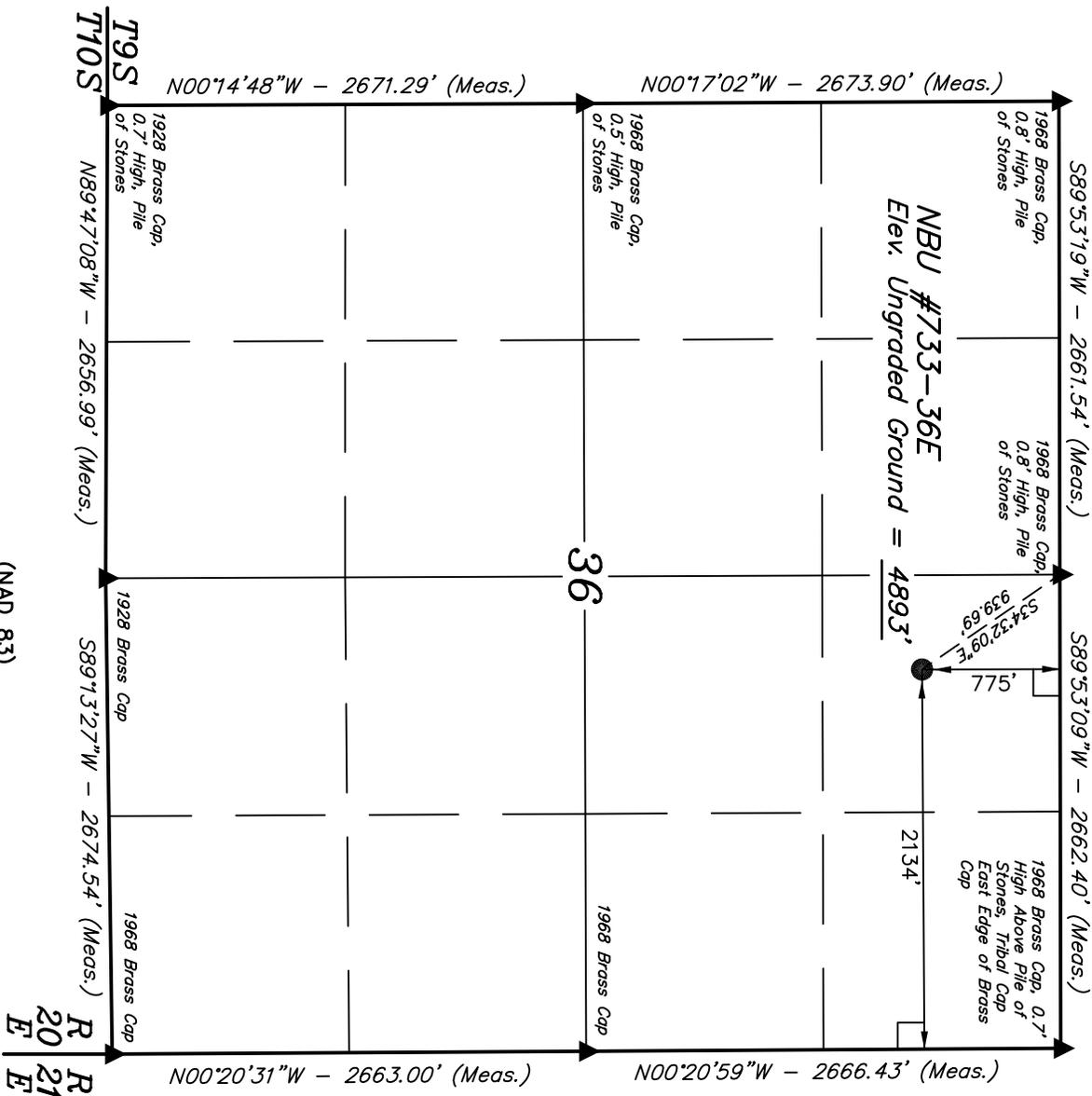
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

### 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 PAK 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.

### BASIS OF BEARINGS

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



### CERTIFICATE

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

REVISED: 06-02-08 C.H.



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

SCALE	1" = 1000'	DATE SURVEYED:	03-19-08	DATE DRAWN:	03-21-08
-------	------------	----------------	----------	-------------	----------

PARTY	C.R.	C.M.	C.N.	REFERENCES
WEATHER	COLD			G.L.O. PLAT

FILE	EOG RESOURCES, INC.
------	---------------------

### LEGEND:

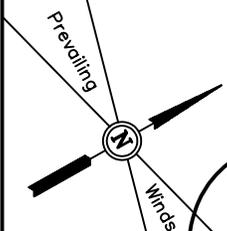
- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°59'47.97" (39.996658)  
 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)

EOG RESOURCES, INC.

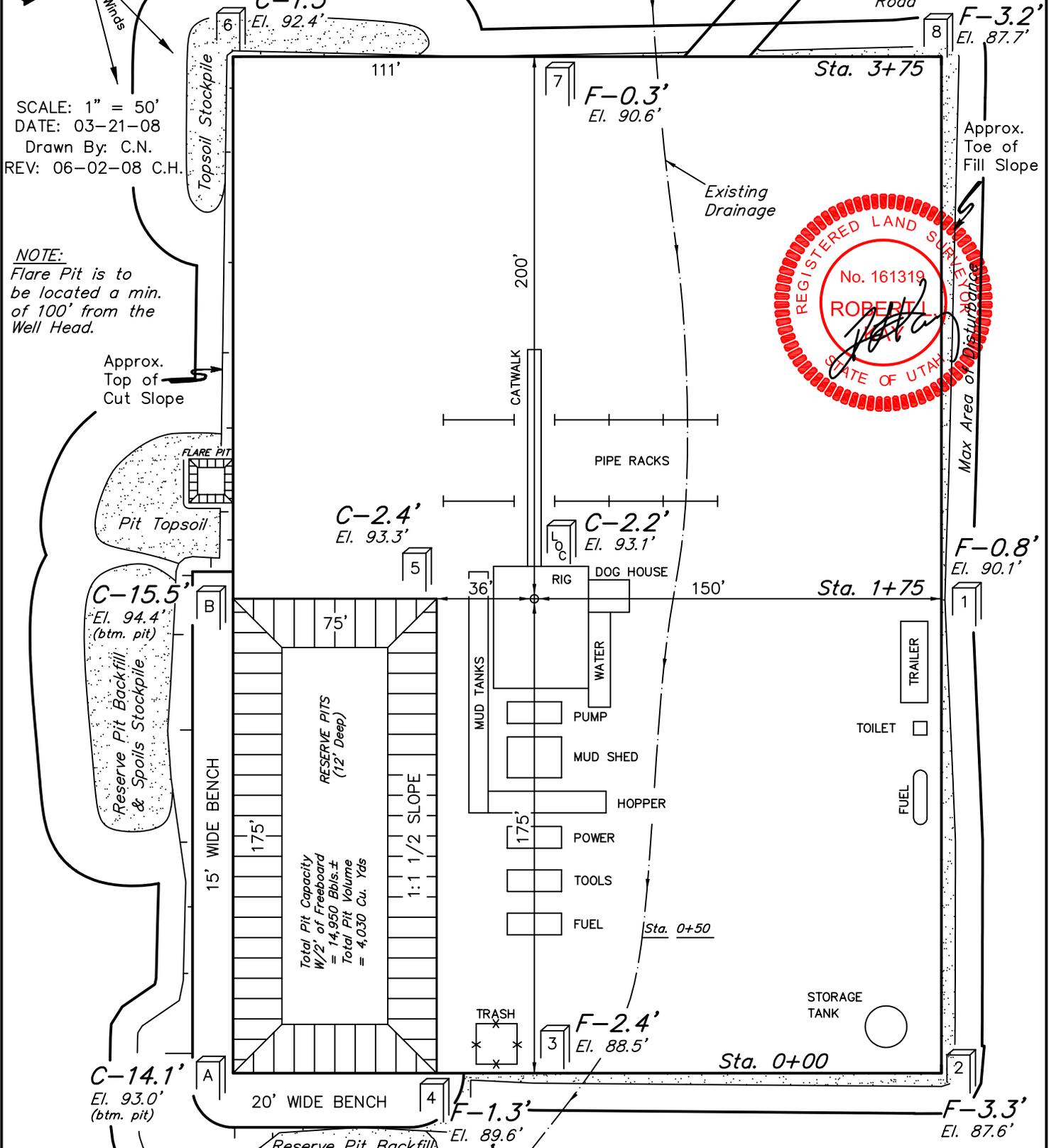
LOCATION LAYOUT FOR  
 NBU #733-36E  
 SECTION 36, T9S, R20E, S.L.B.&M.  
 775' FNL 2134' FEL

FIGURE #1



SCALE: 1" = 50'  
 DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.

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



Elev. Ungraded Ground at Location Stake = 4893.1'  
 Elev. Graded Ground at Location Stake = 4890.9'

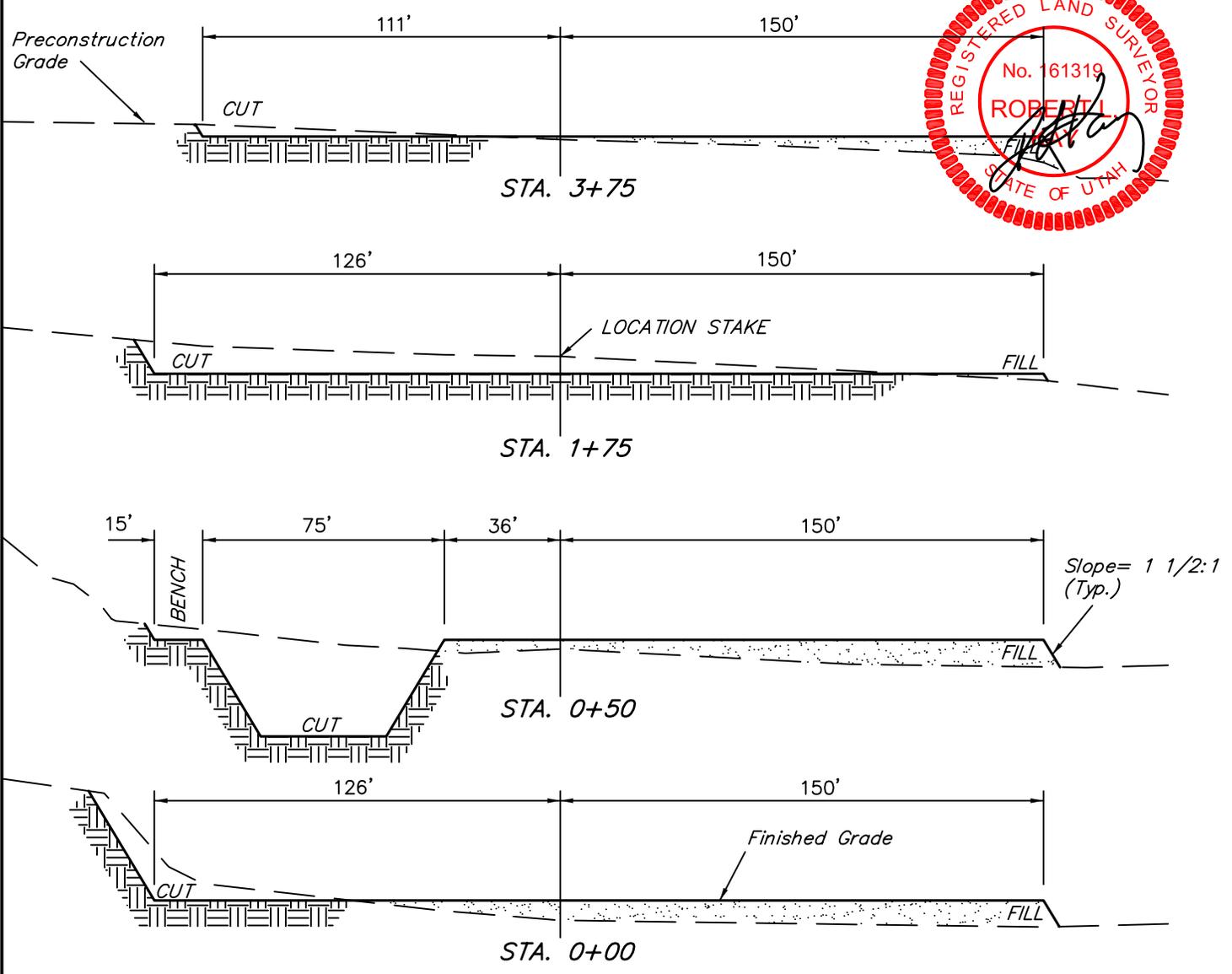
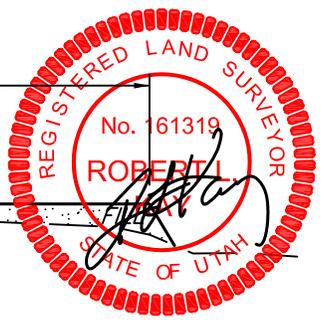
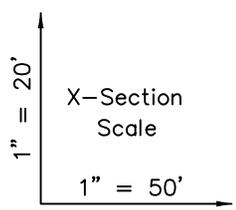
UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED July 29, 2009

**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.603 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.479 ACRES  
 PIPELINE DISTURBANCE = ± 0.872 ACRES  
**TOTAL = ± 3.954 ACRES**

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

\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

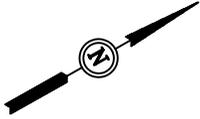
(6") Topsoil Stripping = 2,070 Cu. Yds.  
 Remaining Location = 5,810 Cu. Yds.  
**TOTAL CUT = 7,880 CU. YDS.**  
**FILL = 3,790 CU. YDS.**

EXCESS MATERIAL = 4,090 Cu. Yds.  
 Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,090 Cu. Yds.  
 EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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

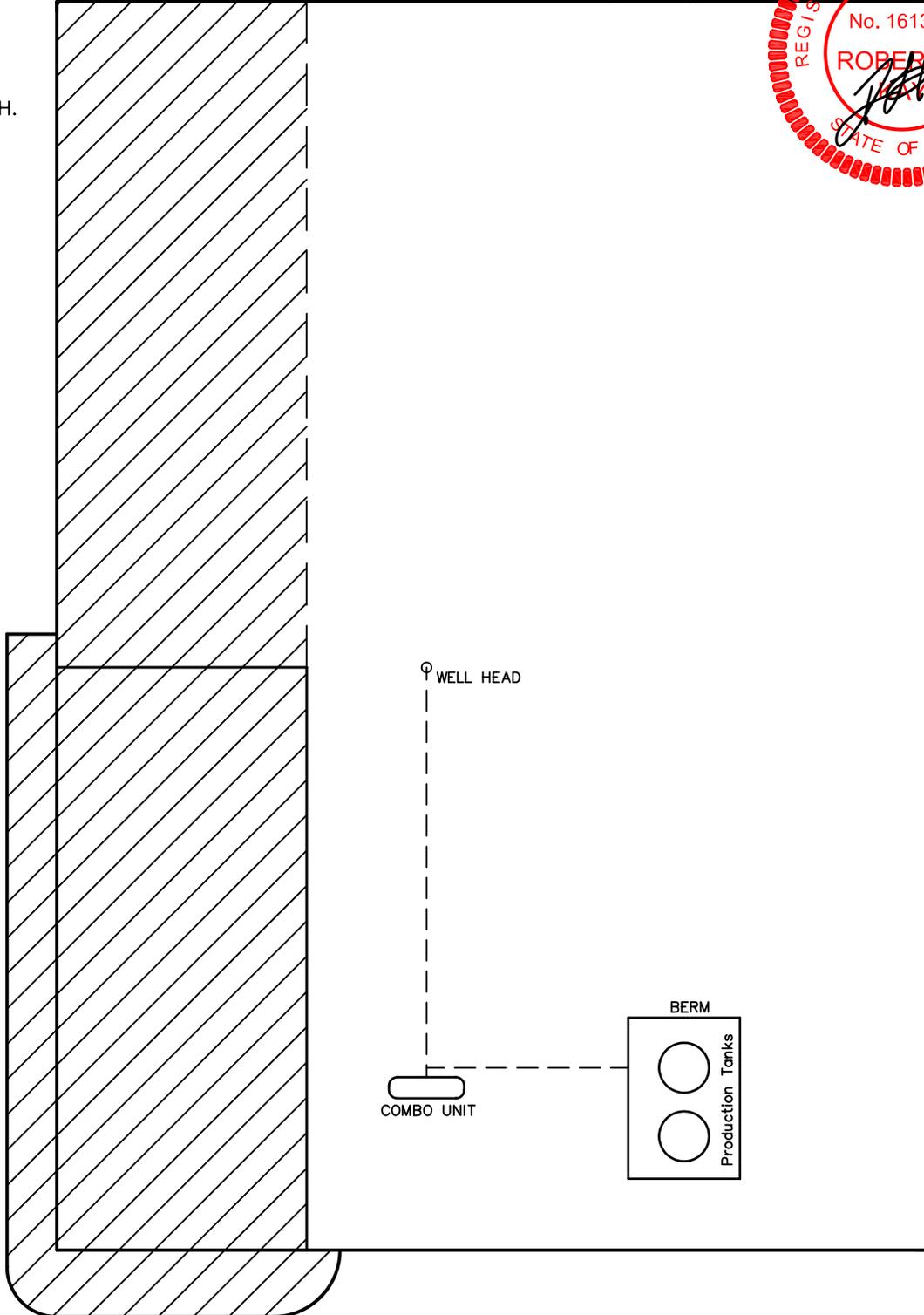
EOG RESOURCES, INC.  
PRODUCTION FACILITY LAYOUT FOR  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #3



Access  
Road

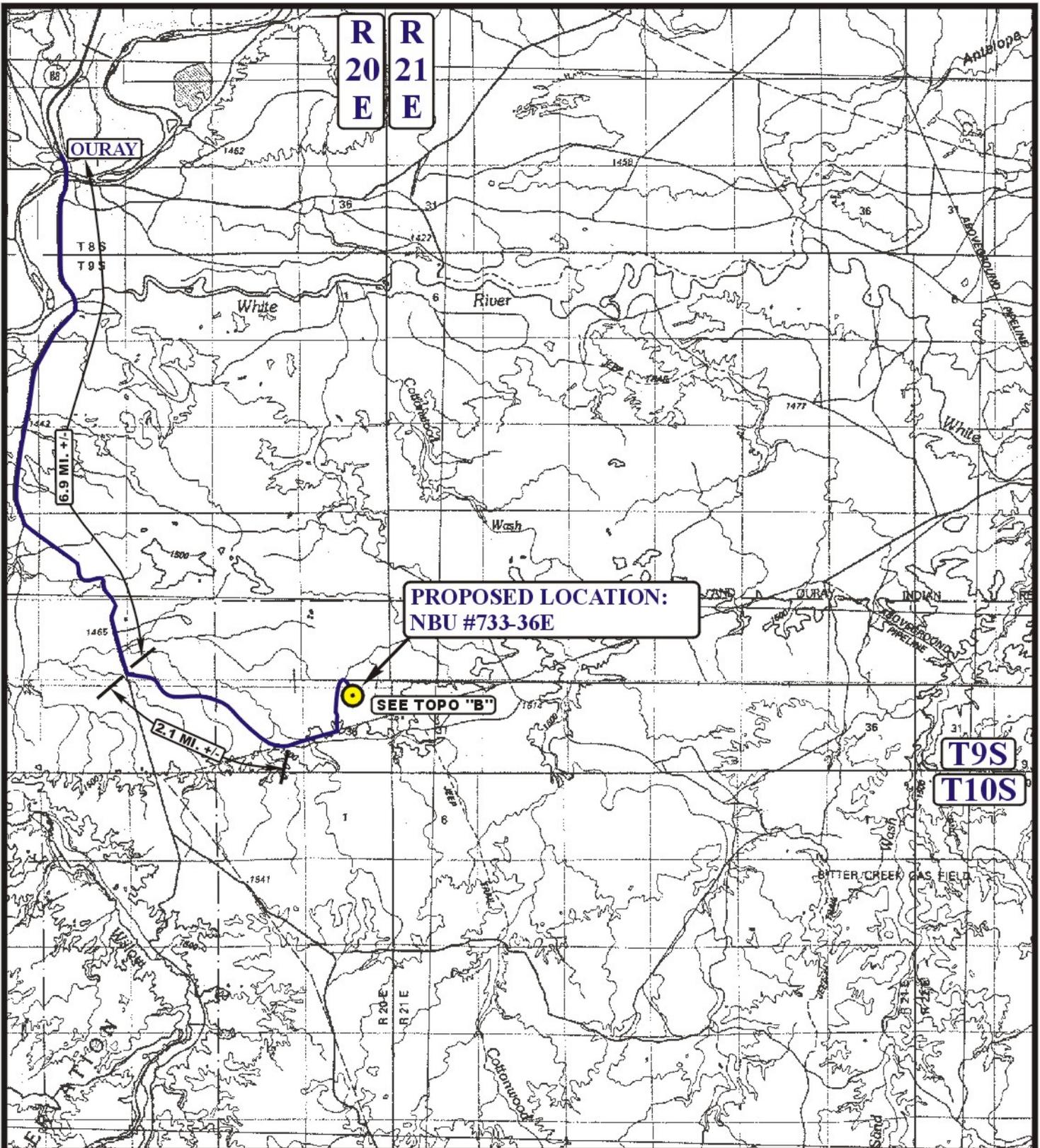
SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



 RE-HABED AREA

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

RECEIVED July 29, 2009



**LEGEND:**

 PROPOSED LOCATION

**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**



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



**TOPOGRAPHIC**  
**MAP**

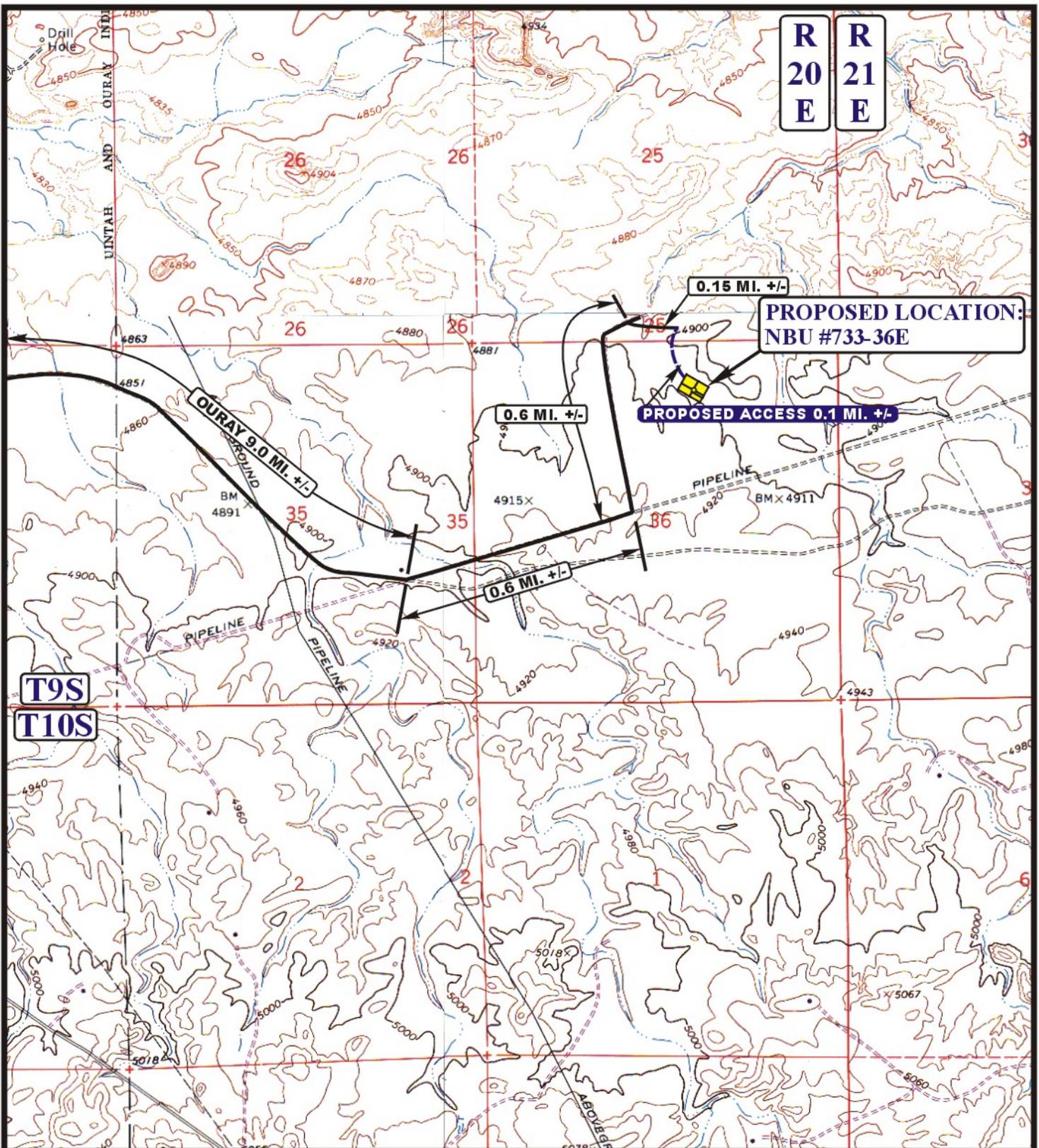
**03 24 08**  
 MONTH DAY YEAR

SCALE: 1:100,000

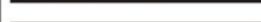
DRAWN BY: Z.L.

REV: 06-24-08 J.J.





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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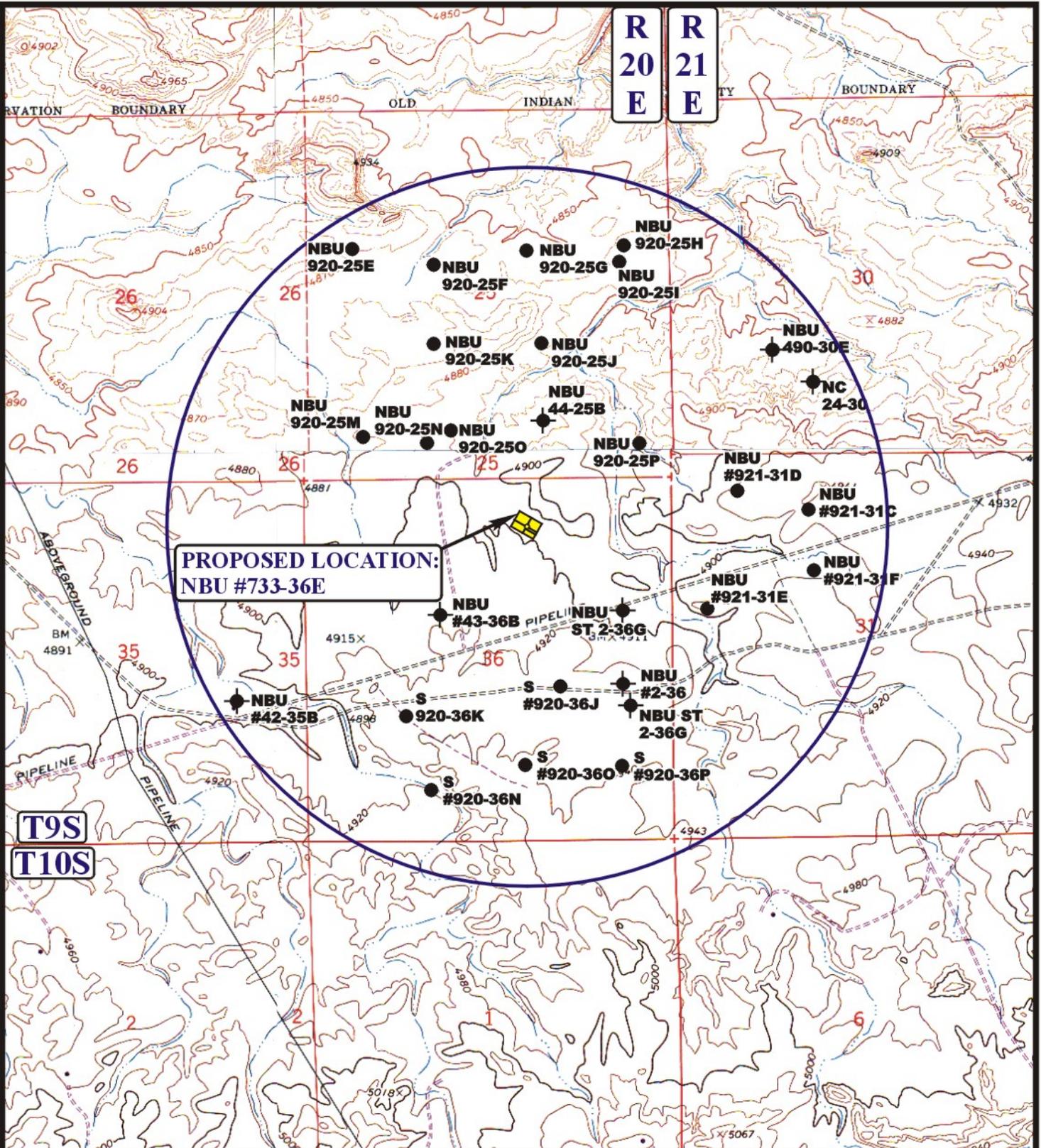


**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**TOPOGRAPHIC MAP** 03 24 08  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**PROPOSED LOCATION:  
NBU #733-36E**

**T9S  
T10S**

**R 20  
E**

**R 21  
E**

**LEGEND:**

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



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**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**TOPOGRAPHIC  
MAP**

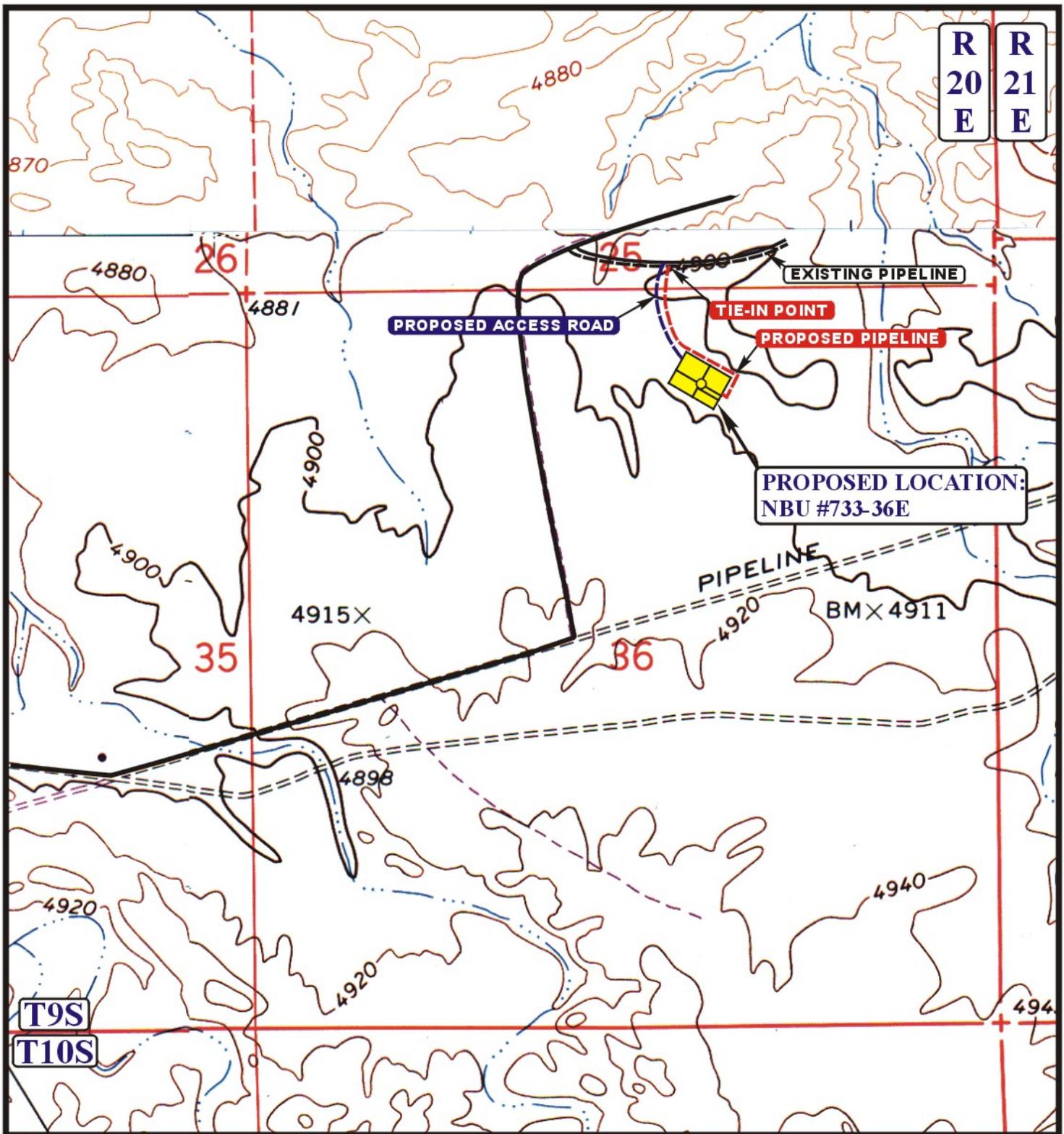
**03 24 08**  
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: Z.L.

REV: 06-24-08 J.J.





**APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



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



**TOPOGRAPHIC MAP** 03 24 08  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 J.J.



<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-3140.5
<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 733-36E
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047500420000
<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> 0775 FNL 2134 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/10/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input 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 checked="" 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.**

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

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

**Date:** July 13, 2010

**By:**

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/7/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047500420000

API: 43047500420000

Well Name: NBU 733-36E

Location: 0775 FNL 2134 FEL QTR NWNE SEC 36 TWNP 090S RNG 200E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 7/10/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?
• Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?
• Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?
• Has the approved source of water for drilling changed?
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?
• Is bonding still in place, which covers this proposed well?

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot

Date: 7/7/2010

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: July 13, 2010

By:

Handwritten signature



GARY R. HERBERT  
Governor

GREGORY S. BELL  
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

August 3, 2011

Kerr McGee Oil & Gas Onshore, L.P.  
P.O. Box 173779  
Denver, CO 80217

43 047 50042  
NBU 733-36E  
9S 20E 30

Re: APDs Rescinded for Kerr McGee Oil & Gas Onshore, L.P.  
Uintah County

Ladies and Gentlemen:

Enclosed find the list of APDs that are being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective August 3, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Ed Bonner, SITLA

43-047-39522	Tribal 822-31O
43-047-50037	NBU 495-31E
43-047-50038	NBU 731-36E
43-047-50039	NBU 735-36E
43-047-50040	NBU 743-31E
→ 43-047-50042	NBU 733-36E
43-047-37957	State 921-32N
43-047-37958	State 921-32O
43-047-39033	NBU 1022-25H
43-047-39034	State 1022-25I
43-047-39402	NBU 921-34MT

**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 733-36E		
<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@egoresources.com		
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> ML-3140 1/2		<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 FROM MULTIPLE FORMATIONS</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"/>		
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>
LOCATION AT SURFACE	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S
Top of Uppermost Producing Zone	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S
At Total Depth	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 671		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 280		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1870		<b>26. PROPOSED DEPTH</b> MD: 7050 TVD: 7050		
<b>27. ELEVATION - GROUND LEVEL</b> 4891		<b>28. BOND NUMBER</b> 6196017		<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-225		

**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

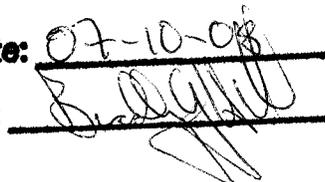
<b>NAME</b> Kaylene Gardner	<b>TITLE</b> Lead Regulatory Assistant	<b>PHONE</b> 435 781-9111
<b>SIGNATURE</b>	<b>DATE</b> 04/15/2008	<b>EMAIL</b> kaylene_gardner@egoresources.com

API NUMBER ASSIGNED 43047500420000

APPROVAL

618514X  
44281304  
39.996934  
-109.611715

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 07-10-08  
By: 

# Application for Permit to Drill

## Statement of Basis

6/9/2008

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
744	43-047-50042-00-00	SITLA	GW	S	No
<b>Operator</b>	EOG RESOURCES, INC.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 733-36E		<b>Unit</b>		
<b>Field</b>	NATURAL BUTTES		NATURAL BUTTES		
<b>Location</b>	NWNE 36 9S 20E S 671 FNL 2075 FEL		<b>Type of Work</b>		
	GPS Coord (UTM) 618514E 4428130N		DRILL		

### Geologic Statement of Basis

EOG proposes to set 2,300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of section 36. 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. The proposed casing and cement program should adequately protect usable ground water in the area.

Brad Hill  
APD Evaluator

6/9/2008  
Date / Time

### Surface Statement of Basis

This location is in the Natural Buttes Unit approximately 10.4 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 0.15 miles of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 733-36E gas well is in rolling terrain in the bottom of a shallow basin or swale with very little drainage relief. A previously staked location was rejected because adequate drainage around the pad had not been identified. It appeared that water would pond on both sides of the pad which extended across the shallow drainage. The location was moved a short distance and re-staked in a suitable site. The new location has a very slight drainage to the northwest. Fill from the south and west portions of the location will be moved to the north to construct the pad. The fill along this north and east side will provide for a diversion around the pad. No other diversions are needed. A culvert is needed where the access road enters the location. A narrow 2-3 inch wide gilsonite vein transects the area and the well site

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA attended the pre-site evaluation. He had no concerns regarding the location as now staked.

Ben Williams representing the UDWR stated the area is classified as yearlong crucial habitat for antelope. He stated the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Byron Tolman, representing EOG and Mr. Davis of SITLA copies of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the location.

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# Application for Permit to Drill

## Statement of Basis

6/9/2008

Utah Division of Oil, Gas and Mining

Page 2

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Floyd Bartlett  
Onsite Evaluator

6/3/2008  
Date / Time

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

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** EOG RESOURCES, INC.  
**Well Name** NBU 733-36E  
**API Number** 43-047-50042-0      **APD No** 744      **Field/Unit** NATURAL BUTTES  
**Location:** 1/4,1/4 NWNE      **Sec** 36    **Tw** 9S    **Rng** 20E    671 FNL 2075 FEL  
**GPS Coord (UTM)** 618490      4428105      **Surface Owner**

### Participants

Floyd Bartlett (DOGM), Jim Davis (SITLA), Byron Tolman (Agent for EOG), Ben Williams (Utah Division of Wildlife Resources)

### Regional/Local Setting & Topography

This location is in the Natural Buttes Unit approximately 10.4 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 0.15 miles of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 733-36E gas well is in rolling terrain in the bottom of a shallow basin or swale with very little drainage relief. A previously staked location was rejected because adequate drainage around the pad had not been identified. It appeared that water would pond on both sides of the pad which extended across the shallow drainage. The location was moved a short distance and re-staked in a suitable site. The new location has a very slight drainage to the northwest. Fill from the south and west portions of the location will be moved to the north to construct the pad. The fill along this north and east side will provide for a diversion around the pad. No other diversions are needed. A culvert is needed where the access road enters the location. A narrow 2-3 inch wide gilsonite vein transects the area and the well site

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA attended the pre-site evaluation. He had no concerns regarding the location as now staked.

### Surface Use Plan

#### **Current Surface Use**

Grazing  
Recreational  
Wildlfe Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.15	<b>Width</b> 276 <b>Length</b> 375	Onsite	UNTA

**Ancillary Facilities** N

### Waste Management Plan Adequate?

### Environmental Parameters

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

The area is poorly vegetated. . Principal species present are Gardner saltbrush, shadscale, horsebrush, budsage, lomatium, cheatgrass, halogeton, wild onions.

Cattle, antelope and small mammals and birds.

**Soil Type and Characteristics**

Soils are a moderately shallow rocky sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** Y

The fill along the north and east side will provide for a diversion around the pad. No other diversions are needed.

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

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

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	>1000	0
<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	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score**      30    1    **Sensitivity Level**

**Characteristics / Requirements**

The reserve pit is planned in an area of cut in the southeast corner of the location. Dimensions are 75' x 175' x 12' deep with 2' of freeboard. A liner with a minimum thickness of 16 mils. and a felt sub-liner are required.

**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 location.

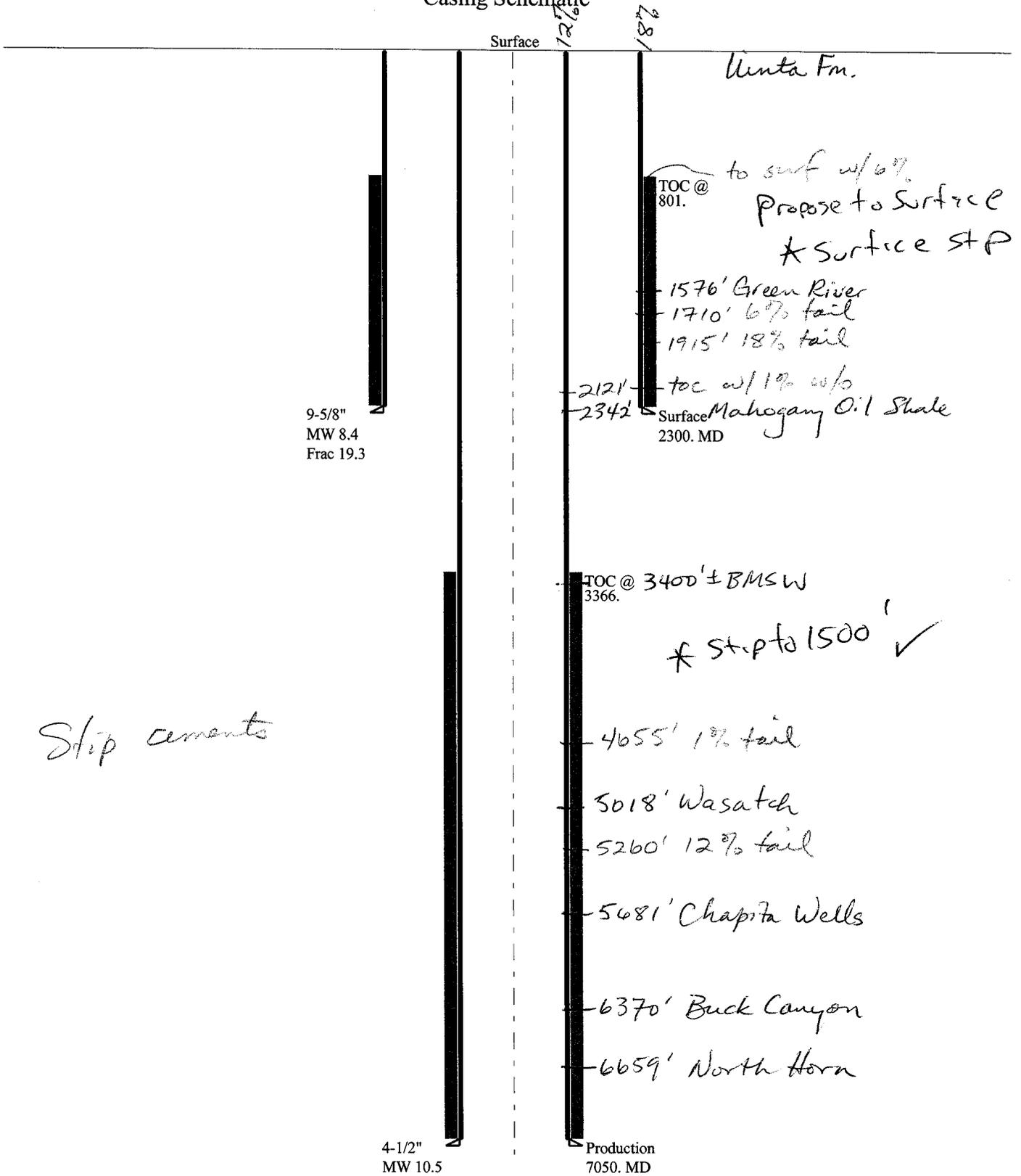
Indian artifacts have been located on the site.

Floyd Bartlett  
**Evaluator**

6/3/2008  
**Date / Time**

2008-06 EOG NBU 733-36E

Casing Schematic



Well name:	<b>2008-06 EOG NBU 733-36E</b>	
Operator:	<b>EOG Resources Inc.</b>	Project ID:
String type:	Surface	43-047-50042
Location:	Uintah County	

**Design parameters:**

**Collapse**

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

**Burst**

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

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 2,014 ft

**Environment:**

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

Cement top: 801 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 7,050 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 3,845 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: June 25, 2008  
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>2008-06 EOG NBU 733-36E</b>	
Operator:	<b>EOG Resources Inc.</b>	Project ID:
String type:	Production	43-047-50042
Location:	Uintah County	

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 2,294 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 3,845 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

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

Tension is based on buoyed weight.  
 Neutral point: 5,943 ft

**Environment:**

H2S considered? No  
 Surface temperature: 75 °F  
 Bottom hole temperature: 174 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,500 ft  
 Cement top: 3,366 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	7050	4.5	11.60	N-80	LT&C	7050	7050	3.875	615.2
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	3845	6350	1.651	3845	7780	2.02	69	223	3.23 J

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

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

Date: June 25, 2008  
 Salt Lake City, Utah

Remarks:  
 Collapse is based on a vertical depth of 7050 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.

**BOPE REVIEW**

**EOG NBU 733-36E API# 43-047-50042**

**INPUT**

Well Name	EOG NBU 733-36E API# 43-047-50042		
Casing Size (")	String 1	String 2	
Setting Depth (TVD)	9 5/8	4 1/2	
Previous Shoe Setting Depth (TVD)	2300	7050	
Max Mud Weight (ppg)	60	2300	
BOPE Proposed (psi)	8.4	10.5	
Casing Internal Yield (psi)	1000	5000	
Operators Max Anticipated Pressure (psi)	3520	7780	
	3849	10.5 ppg	

Calculations	String 1	9 5/8 "	
Max BHP [psi]	.052*Setting Depth*MW =	1005	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	729	YES <i>20K</i> Air Drill to surface shoe
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	499	YES <i>20K</i>
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	512	← NO <i>reasonable depth - no expected press.</i>
Required Casing/BOPE Test Pressure		2300 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		60 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	4 1/2 "	
Max BHP [psi]	.052*Setting Depth*MW =	3849	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3003	YES ✓
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	2298	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	2804	← NO <i>O.K.</i>
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2300 psi	*Assumes 1psi/ft frac gradient

**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	60		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	H-40S	60	48.0			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	0			
		<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-55S	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

**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	7050		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	N-80L	7050	11.6			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		2300	7050			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			HG	152	3.91	11.0
			50	439	1.28	14.1

**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 733-36E	
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<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-3140 1/2			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>	
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<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 FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>	
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>	<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>	
<b>LOCATION AT SURFACE</b>	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S	
<b>Top of Uppermost Producing Zone</b>	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S	
<b>At Total Depth</b>	671 FNL 2075 FEL	NWNE	36	9.0 S	20.0 E	S	
<b>21. COUNTY</b> UINTAH			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 671			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 280	
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1870			<b>26. PROPOSED DEPTH</b> MD: 7050 TVD: 7050	
<b>27. ELEVATION - GROUND LEVEL</b> 4891			<b>28. BOND NUMBER</b> 6196017			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 49-225	
<b>ATTACHMENTS</b>							
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>							
<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> Kaylene Gardner		<b>TITLE</b> Regulatory Administrator			<b>PHONE</b> 435 781-9111		
<b>SIGNATURE</b>		<b>DATE</b> 09/11/2008			<b>EMAIL</b> kaylene_gardner@eogresources.com		
<b>API NUMBER ASSIGNED</b> 43047500420000		<b>APPROVAL</b>			 Permit Manager		

<b>Proposed Hole, Casing, and Cement</b>						
<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	60		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade H-40 ST&C	60	48.0			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		0	0			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			Class C Cement	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>			
	Grade J-55 ST&C	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>
			Class G Cement	185	3.82	11.0

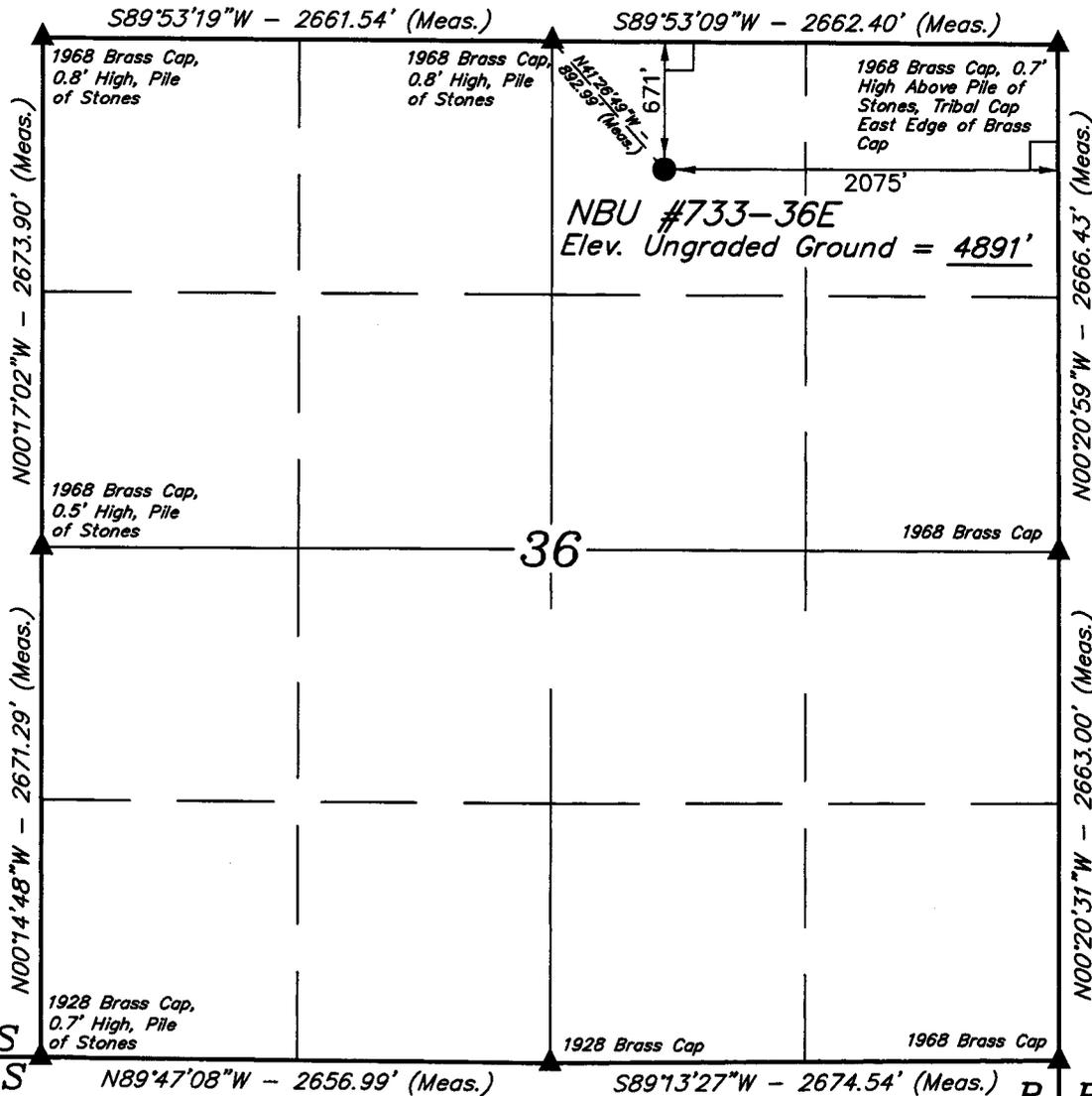
**Proposed Hole, Casing, and Cement**

<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>		
Prod	7.875	4.5	0	7050		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade N-80 LT&C	7050	11.6			
	<b>Cement Interval</b>	<b>Top (MD)</b>	<b>Bottom (MD)</b>			
		2300	7050			
		<b>Cement Description</b>	<b>Class</b>	<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>
			Hi Lift "G"	152	3.91	11.0
			50/50 Poz	439	1.28	14.1

# T9S, R20E, S.L.B.&M.

# EOG RESOURCES, INC.

Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

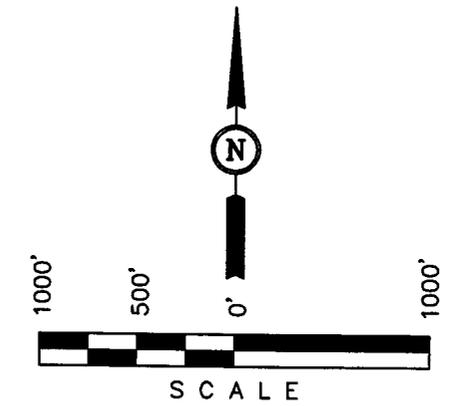


### BASIS OF ELEVATION

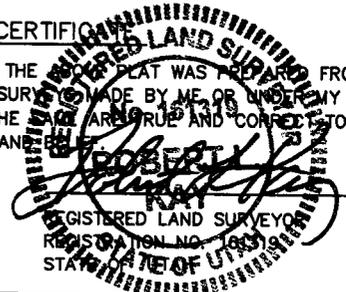
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238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

### BASIS OF BEARINGS

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



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



<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 03-19-08	DATE DRAWN: 03-21-08
PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

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

(NAD 83)  
 LATITUDE = 39°59'49.00" (39.996944)  
 LONGITUDE = 109°36'44.71" (109.612419)  
 (NAD 27)  
 LATITUDE = 39°59'49.13" (39.996981)  
 LONGITUDE = 109°36'42.22" (109.611728)

API Well No: 43047500420000

**EIGHT POINT PLAN****NATURAL BUTTES UNIT 733-36E****NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH****1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

<b>FORMATION</b>	<b>TVD-RKB (ft)</b>	<b>Objective</b>	<b>Lithology</b>	
Green River	1,576		Shale	
Mahogany Oil Shale Bed	2,342		Shale	
Wasatch	5,018	Primary	Sandstone	Gas
Chapita Wells	5,681	Primary	Sandstone	Gas
Buck Canyon	6,370	Primary	Sandstone	Gas
North Horn	6,659	Primary	Sandstone	Gas
<b>TD</b>	<b>7,050</b>			

Estimated TD: **7,050' or 200'± below TD****Anticipated BHP: 3,849 Psig**

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

**3. PRESSURE CONTROL EQUIPMENT:**Production Hole – 5000 Psig  
BOP schematic diagrams attached.**4. CASING PROGRAM:**

<b>CASING</b>	<b>Hole Size</b>	<b>Length</b>	<b>Size</b>	<b>WEIGHT</b>	<b>Grade</b>	<b>Thread</b>	<b>Rating Collapse</b>	<b>Factor Burst</b>	<b>Tensile</b>
<b>Conductor</b>	17 ½"	0 – 60'	13 ⅝"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
<b>Surface</b>	12 ¼"	0' – 2,300' KB±	9-⅝"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#
<b>Production</b>	7-7/8"	Surface – TD	4-½"	11.6#	N-80	LTC	6350 PSI	7780 Psi	233,000#

**Note:** 12-¼" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased w/9-⅝" as shown to that depth. Drilled depth may be shallower or deeper than the 2300' shown above depending on the actual depth of the loss zone.

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

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**  
**NW/NE, SEC. 36, T9S, 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. 4-1/2", 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.

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**  
**NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**  
**UINTAH COUNTY, UTAH**

**1. VARIANCE REQUESTS:**

**Reference:** Onshore Oil and Gas Order No. 1  
Onshore Oil and Gas Order No. 2 – Section E: Special Drilling Operations

- 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).
- 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.
- 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.
- 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).
- 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).

**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**

**EIGHT POINT PLAN****NATURAL BUTTES UNIT 733-36E****NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..****UINTAH COUNTY, UTAH****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:** 152 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:** 439 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.**

**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.

**EIGHT POINT PLAN**

**NATURAL BUTTES UNIT 733-36E**

**NW/NE, SEC. 36, T9S, R20E, S.L.B.&M..**

**UINTAH COUNTY, UTAH**

**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.

**13. 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.

(Attachment: BOP Schematic Diagram)

**EOG RESOURCES, INC.**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**

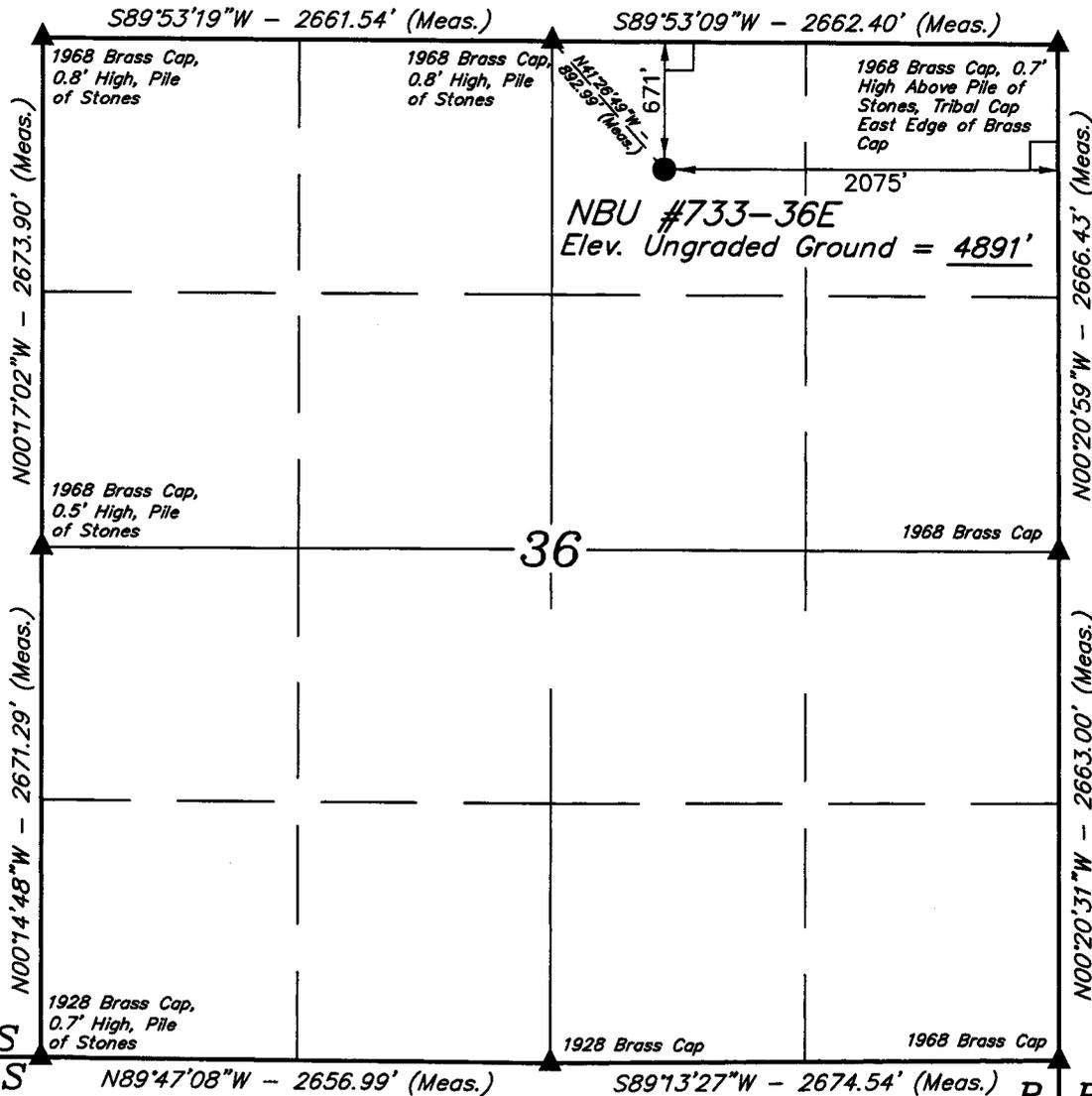
PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.35 MILES.

# T9S, R20E, S.L.B.&M.

# EOG RESOURCES, INC.

Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

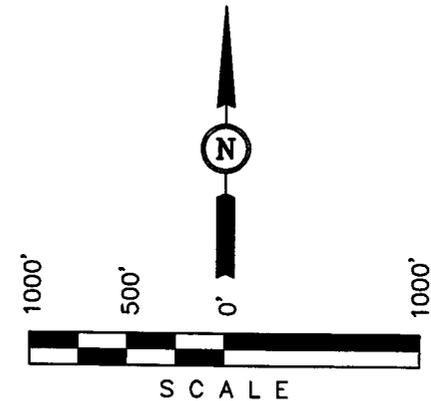


## BASIS OF ELEVATION

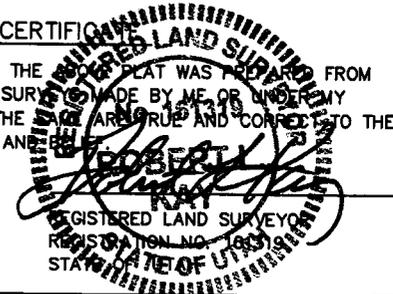
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238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

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

## LEGEND:

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

(NAD 83)  
 LATITUDE = 39°59'49.00" (39.996944)  
 LONGITUDE = 109°36'44.71" (109.612419)  
 (NAD 27)  
 LATITUDE = 39°59'49.13" (39.996981)  
 LONGITUDE = 109°36'42.22" (109.611728)

R  
20  
E

SCALE 1" = 1000'	DATE SURVEYED: 03-19-08	DATE DRAWN: 03-21-08
PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EOG RESOURCES, INC.**

**LOCATION LAYOUT FOR**

NBU #733-36E

SECTION 36, T9S, R20E, S.L.B.&M.

671' FNL 2075' FEL

**FIGURE #1**

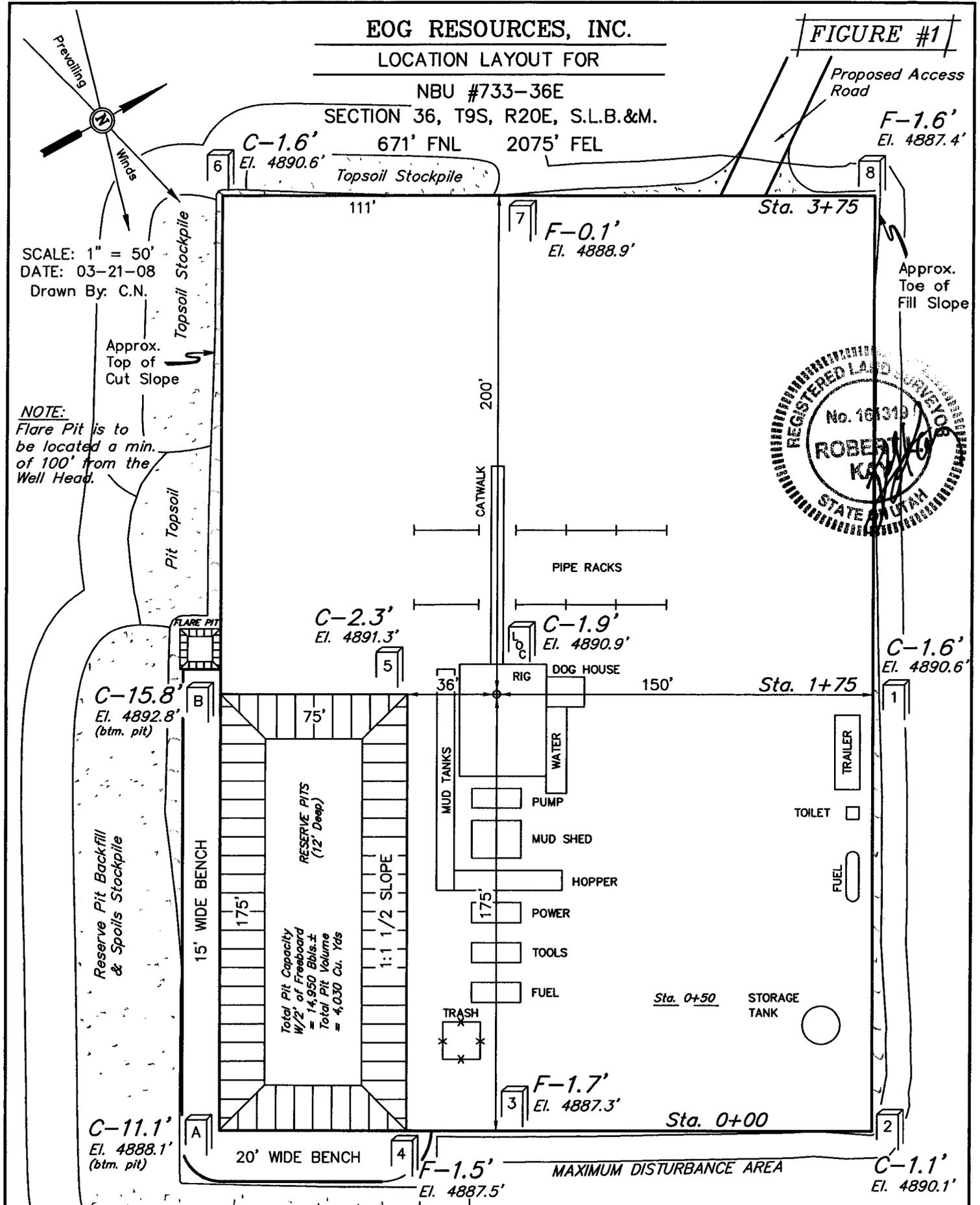
Proposed Access Road

F-1.6' El. 4887.4'

SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.

Approx. Top of Cut Slope

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



Elev. Ungraded Ground at Location Stake = 4890.9'  
Elev. Graded Ground at Location Stake = 4889.0'

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

**EOG RESOURCES, INC.**

**TYPICAL CROSS SECTIONS FOR**

**NBU #733-36E**

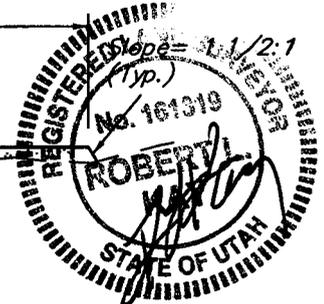
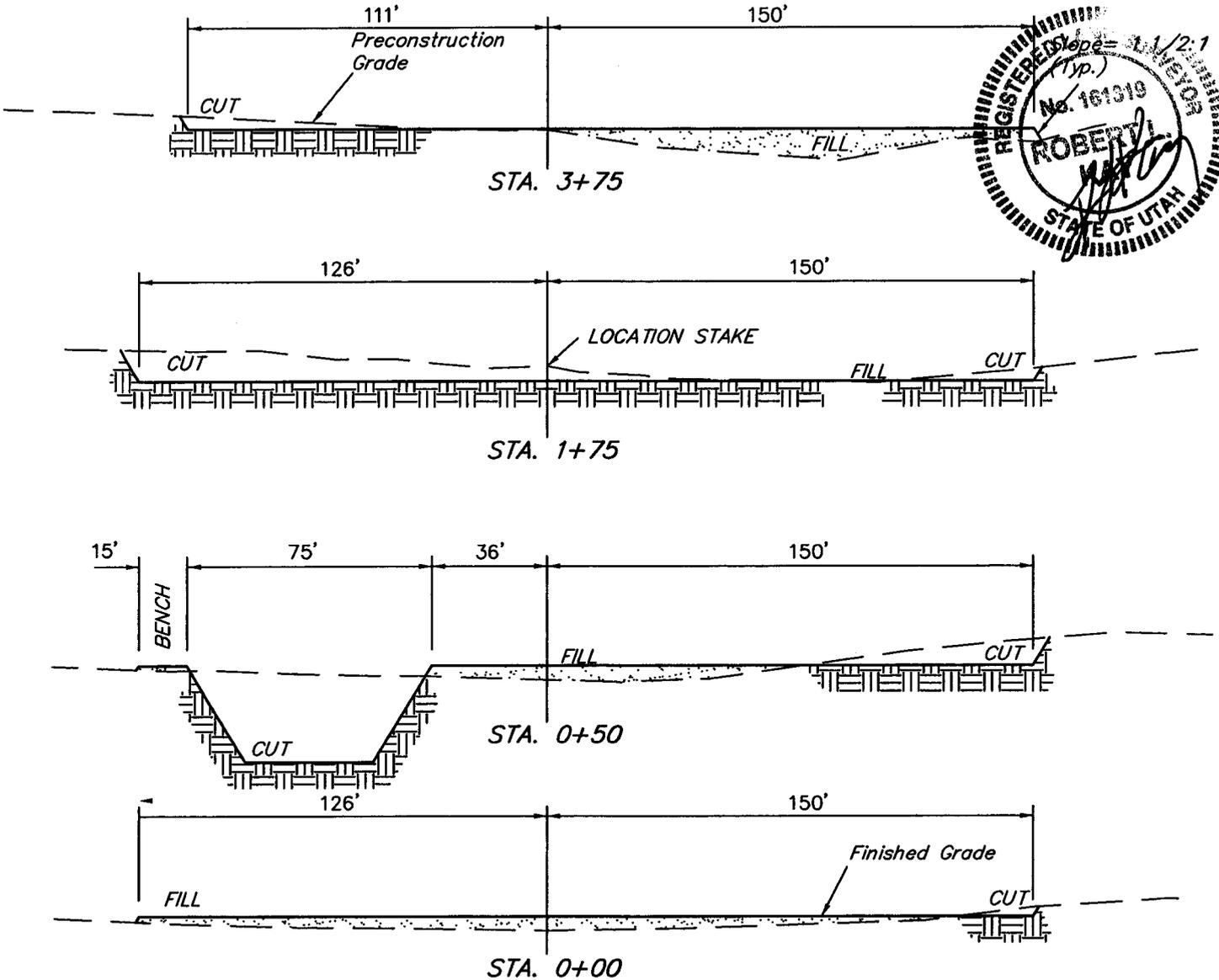
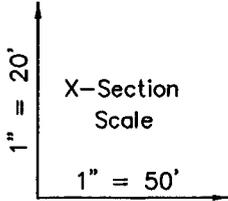
**SECTION 36, T9S, R20E, S.L.B.&M.**

**671' FNL 2075' FEL**

**FIGURE #2**

DATE: 03-21-08

Drawn By: C.N.



**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 2.877 ACRES  
 PIPELINE DISTURBANCE = ± 0.847 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.479 ACRES  
**TOTAL = ± 4.203 ACRES**

**NOTE:**

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

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2010 Cu. Yds.  
 Remaining Location = 5860 Cu. Yds.  
**TOTAL CUT = 7870 CU. YDS.**  
**FILL = 3840 CU. YDS.**

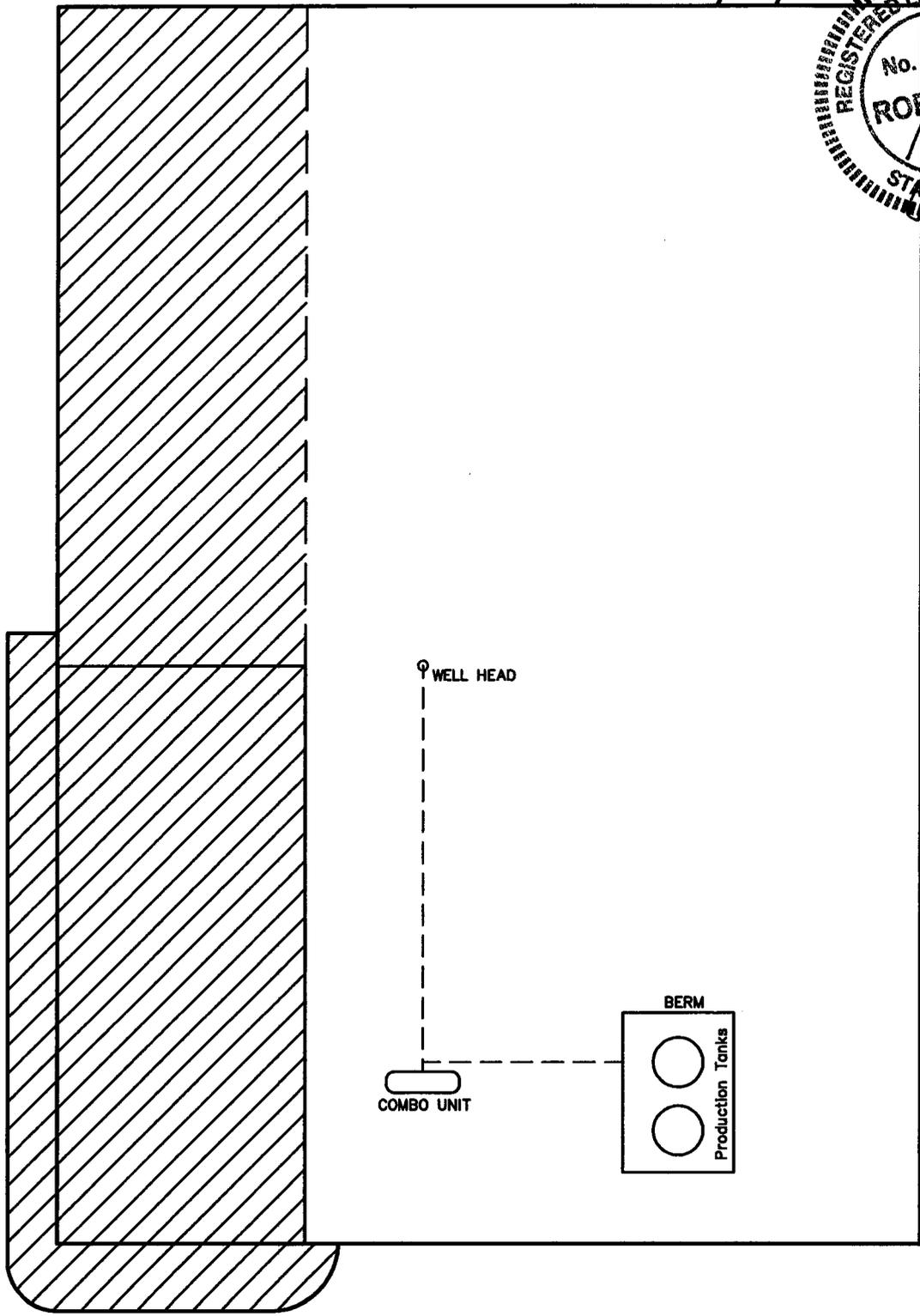
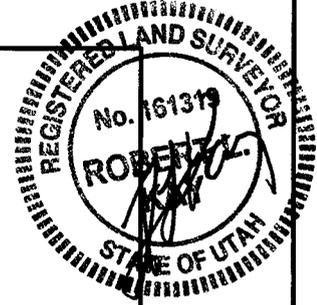
EXCESS MATERIAL = 4030 Cu. Yds.  
 Topsoil & Pit Backfill = 4030 Cu. Yds.  
 (1/2 Pit Vol.)  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
 NBU #733-36E  
 SECTION 36, T9S, R20E, S.L.B.&M.  
 671' FNL 2075' FEL

**FIGURE #3**

DATE: 03-21-08  
Drawn By: C.N.

Access  
Road



RE-HABED AREA

# EOG RESOURCES, INC.

## NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.

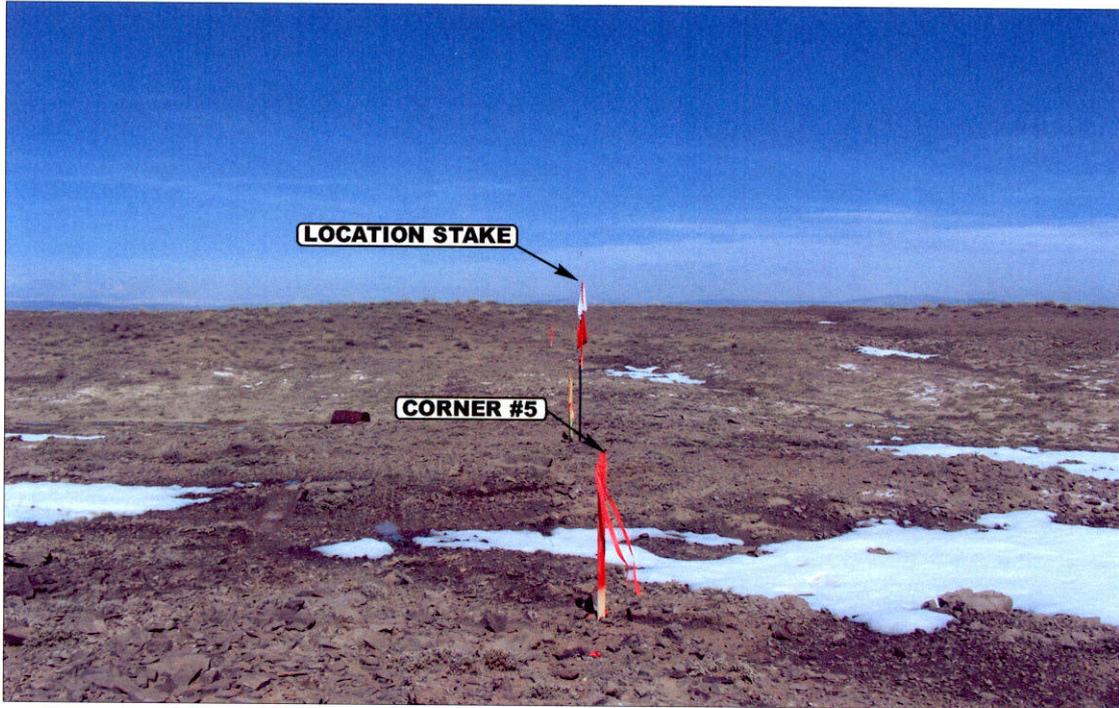


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

**LOCATION PHOTOS**

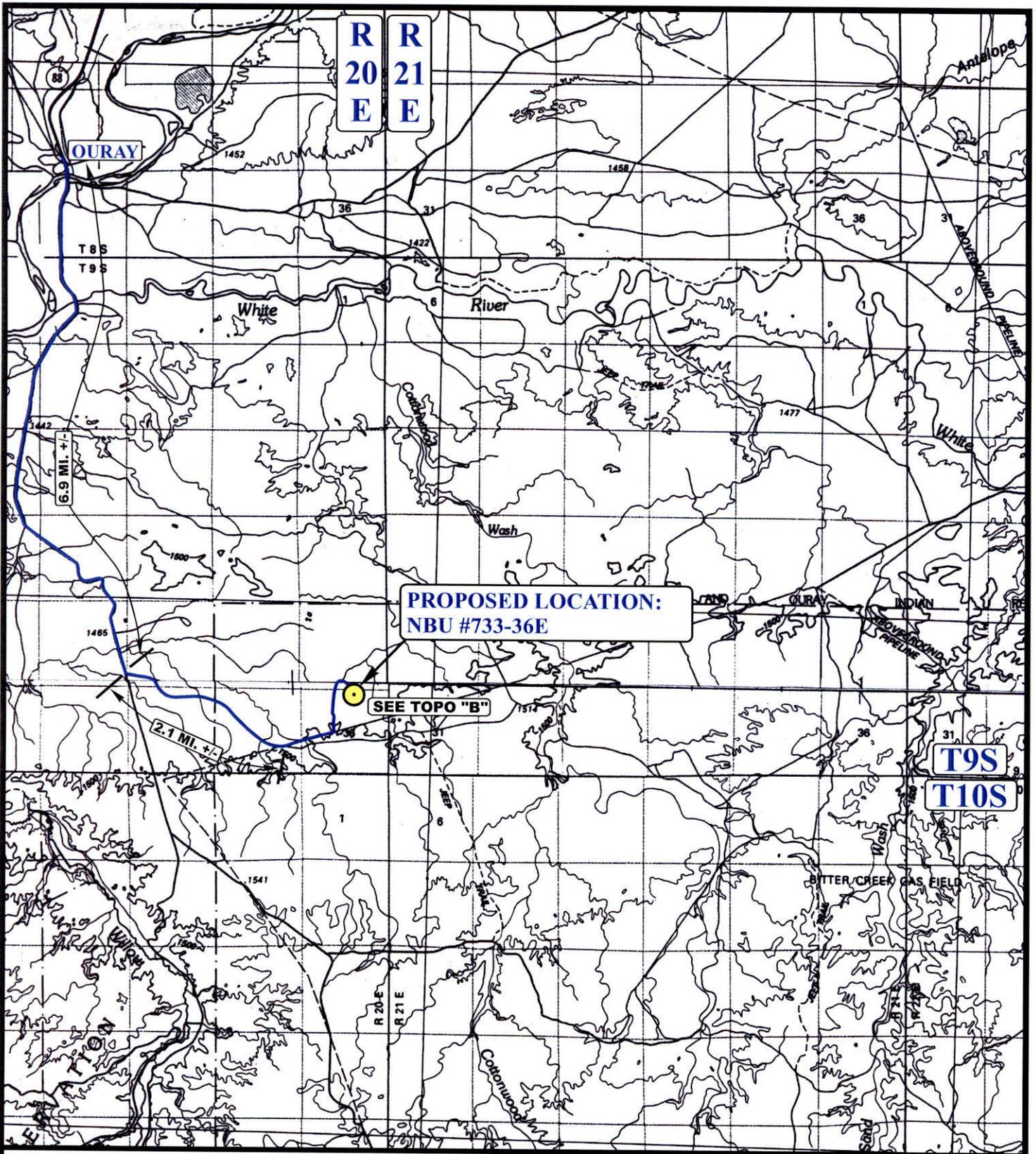
**03 24 08**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: C.R.

DRAWN BY: C.N.

REVISED: 00-00-00



**PROPOSED LOCATION:  
NBU #733-36E**

**SEE TOPO "B"**

**T9S  
T10S**

**LEGEND:**

 **PROPOSED LOCATION**



**EOG RESOURCES, INC.**

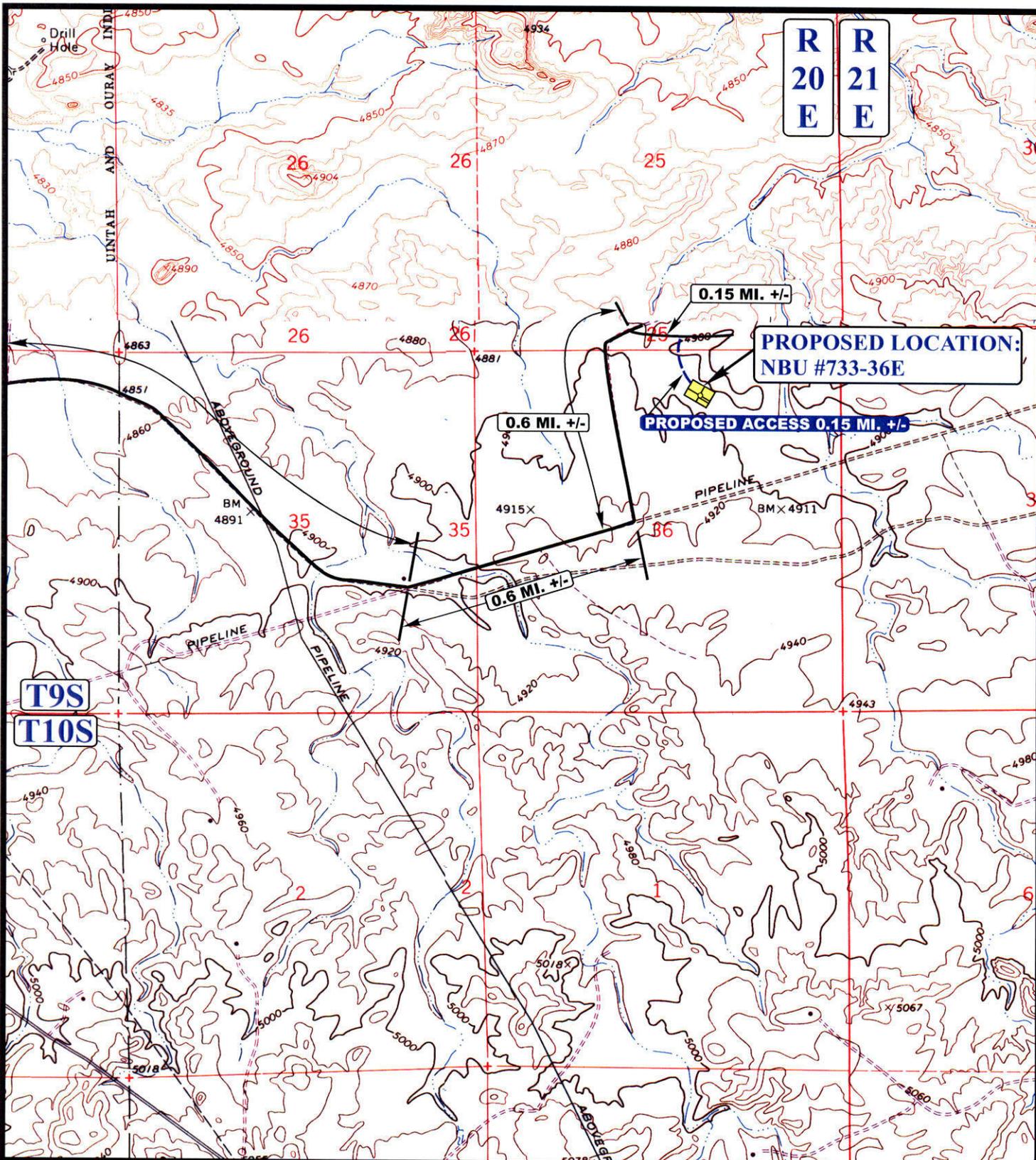
**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
671' FNL 2075' FEL**



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

**TOPOGRAPHIC MAP** **03 24 08**  
MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: C.N. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



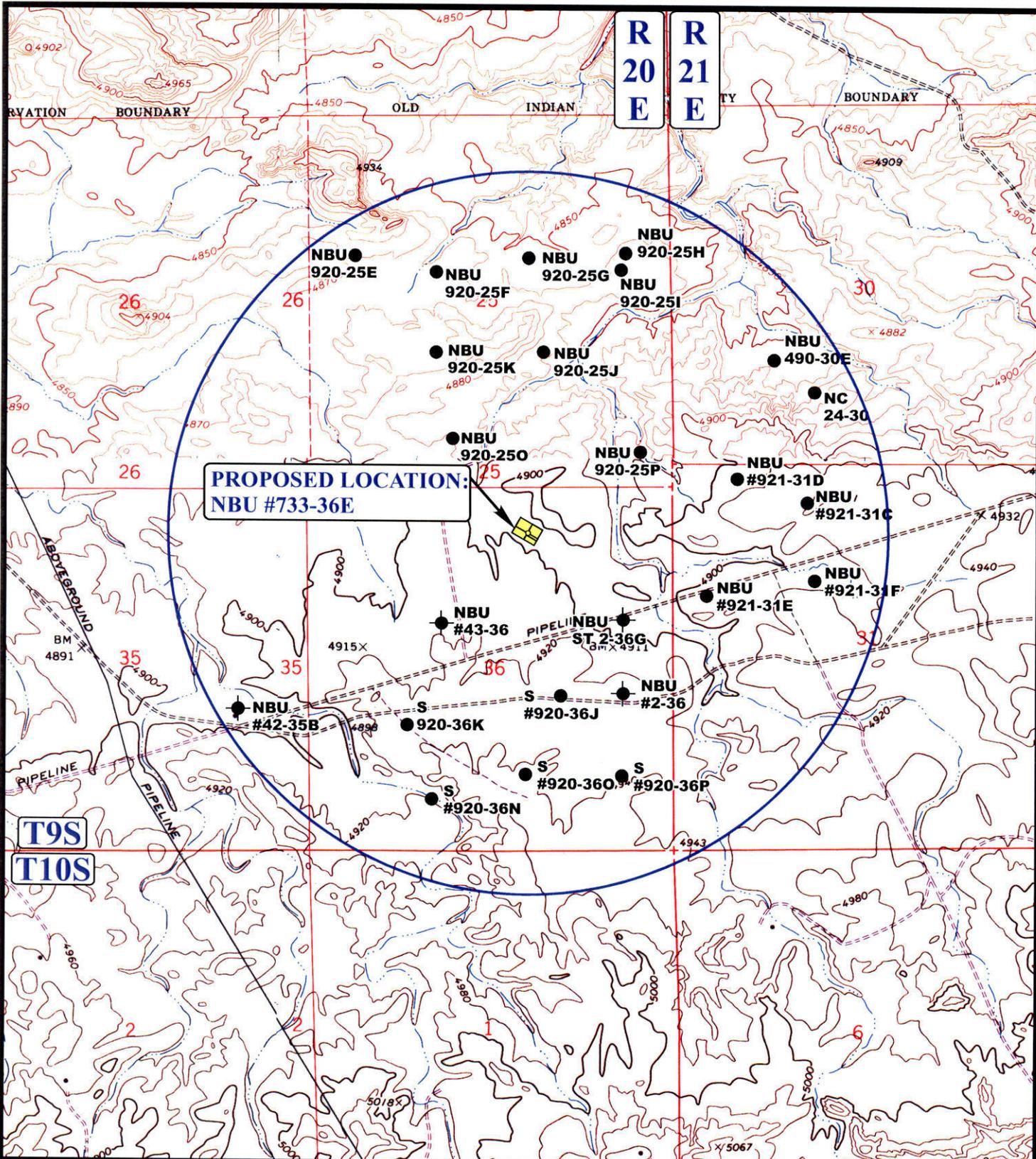
**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**671' FNL 2075' FEL**

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

**TOPOGRAPHIC MAP** **03 24 08**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.N. REVISED: 00-00-00





**PROPOSED LOCATION:**  
NBU #733-36

**LEGEND:**

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

EOG RESOURCES, INC.

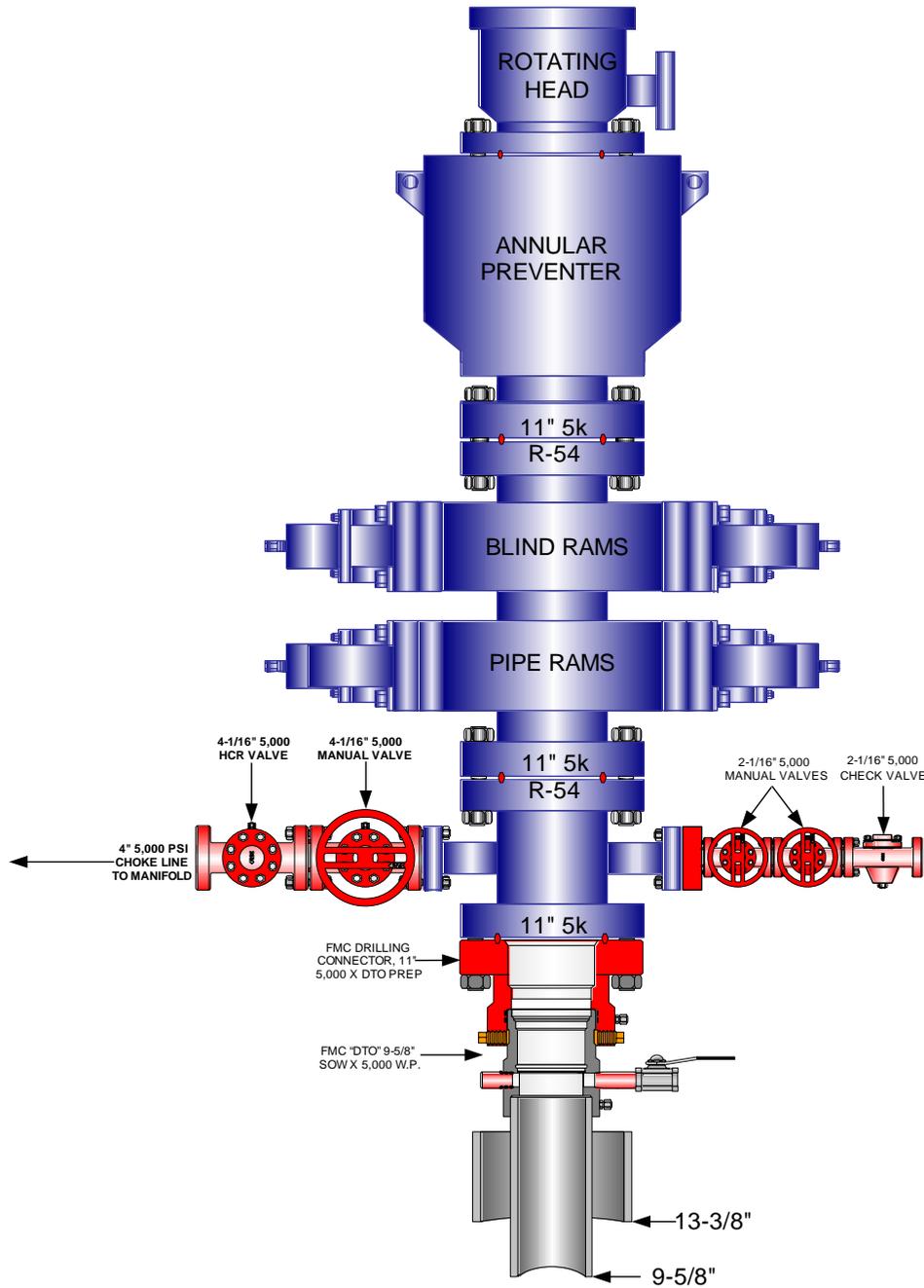
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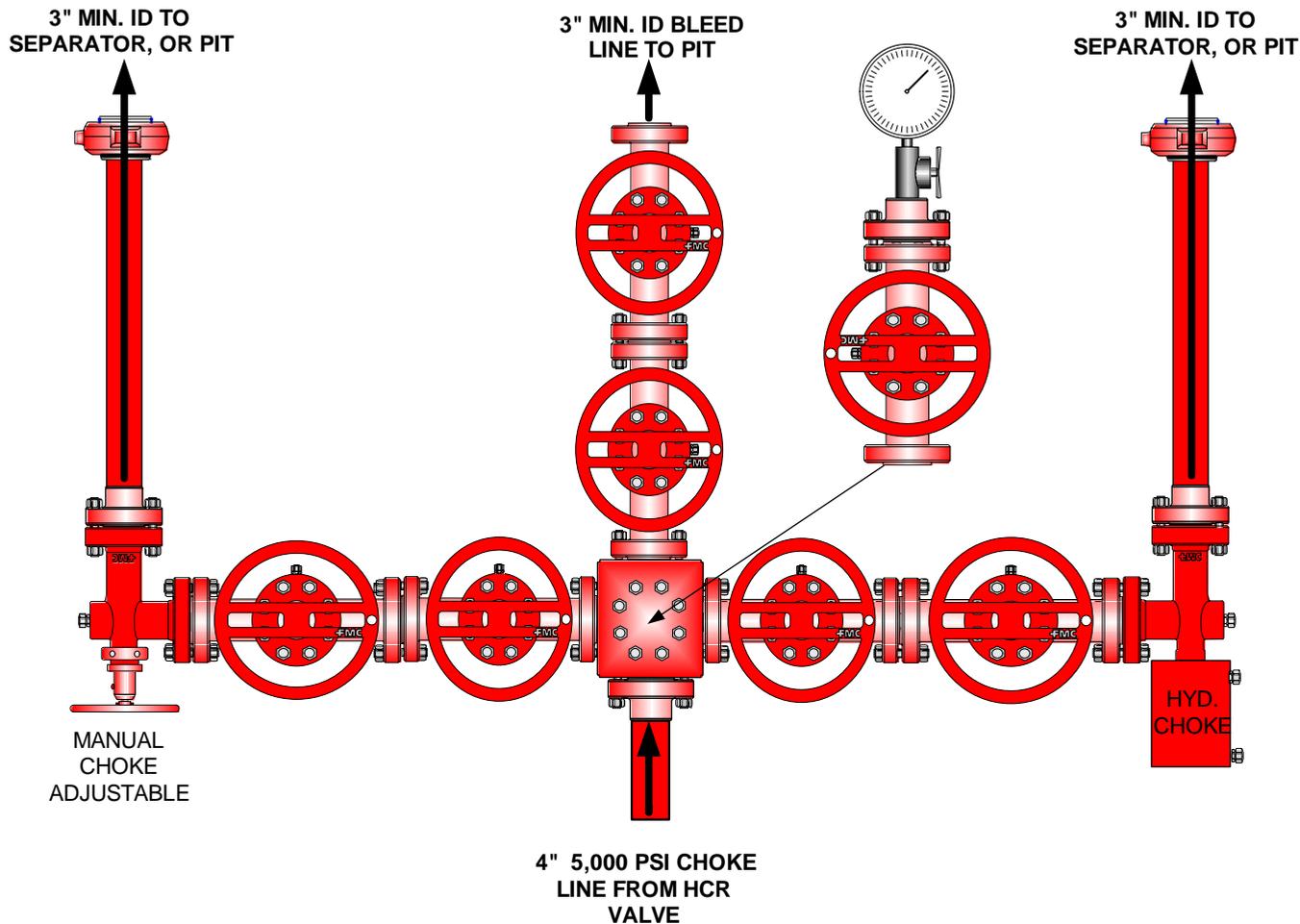


**EOG RESOURCES 11" 5,000 PSI W.P. BOP  
CONFIGURATION**



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

PAGE 2 OF 2



**Testing Procedure:**

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



***Natural Buttes Unit 733-36E  
NWNE, Section 36, T9S, 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 41.4 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 792' in length, 140' located within Section 25, T9S, R20E. 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 used.
- J. No additional storage areas will be needed for storing equipment, stockpiling, or vehicle parking.

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

New or reconstructed roads will be centerlined – flagged at time of location staking. The road shall be constructed/upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Construction/upgrading shall include ditching, draining, graveling, crowning, and capping the roadbed as necessary to provide a well constructed safe road. Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 40-foot right-of-way will not be allowed. Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

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

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

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

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

### **4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

#### **A. On Well Pad**

1. Production facilities will be set on location if the well is successfully completed for production. Facilities will consist of wellhead valves, combo separator-dehy unit with meter, two (2) 400-bbl vertical tanks and attaching piping.
2. Gas gathering lines – A 4" gathering line will be buried from dehy to the edge of the location.

#### **B. Off Well Pad**

1. Proposed pipeline will transport natural gas.
2. The pipeline will be a permanent feeder line.
3. The length of the proposed pipeline is 1230' x 40'. The proposed pipeline leaves the northeastern edge of the proposed location proceeding in a northerly direction for an approximate distance of 1230' tying into an existing pipeline in

the SWSE of Section 25, T9S, 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.** 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, CWU 2-29 SWD, Red Wash Evaporation Ponds, 1, 2, 3, 4, 5, or 6, or EOG Resources, Inc. drilling operations (Chapita Wells Unit, Natural Buttes Unit & Stagecoach Unit).
  5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on the drilling rig to avoid leakage of oil to the pit.
- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in the reserve pit or by removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to the reserve pit will be avoided by flaring them off in the flare pit at the time of recovery.

The reserve pit will be constructed so as not to leak, break, or allow discharge. If the reserve pit requires padding prior to lining (due to rocky conditions) felt padding will be used.

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

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

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

#### **8. ANCILLARY FACILITIES:**

None anticipated.

**9. WELL SITE LAYOUT:**

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location 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 south corner of the location. The flare pit will be located downwind of the prevailing wind direction on the southwest 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 – See attached Figure #3. The reserve pit will be reclaimed within 90 days from the date of the well completion, or as soon as environmental conditions allow. Before any dirt takes place, the reserve pit must be completely dry and free of all foreign obstacles.

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

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

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

## **11. SURFACE OWNERSHIP:**

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

**State of Utah**

**12. OTHER INFORMATION:**

A. EOG Resources, Inc. will inform all persons in the area who are associated with this project that they are subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator will immediately stop work that might further disturb such materials, and contact the Authorized Officer. Within five working days the Authorized Officer will inform the operator as to:

- Whether the materials appear eligible for the National Register of Historic Places;
- The mitigation measures the operator will likely have to undertake before the site can be used.
- A time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

If the operator wished, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Officer will assume responsibility for whatever recordation and stabilization of the exposed materials that may be required. Otherwise, the operator will be responsible for mitigation costs. The Authorized Officer will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Officer that required mitigation has been completed, the operator will then be allowed to resume construction.

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

industry. There are commercial facilities available for stacking and storing drilling rigs.)

- D. The drilling rig and ancillary equipment will be removed from the location prior to commencement of completion operations. Completion operations will be conducted utilizing a completion/workover rig.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for 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 and paleontology survey will be conducted and submitted by Montgomery Archaeological Consultants.

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

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

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

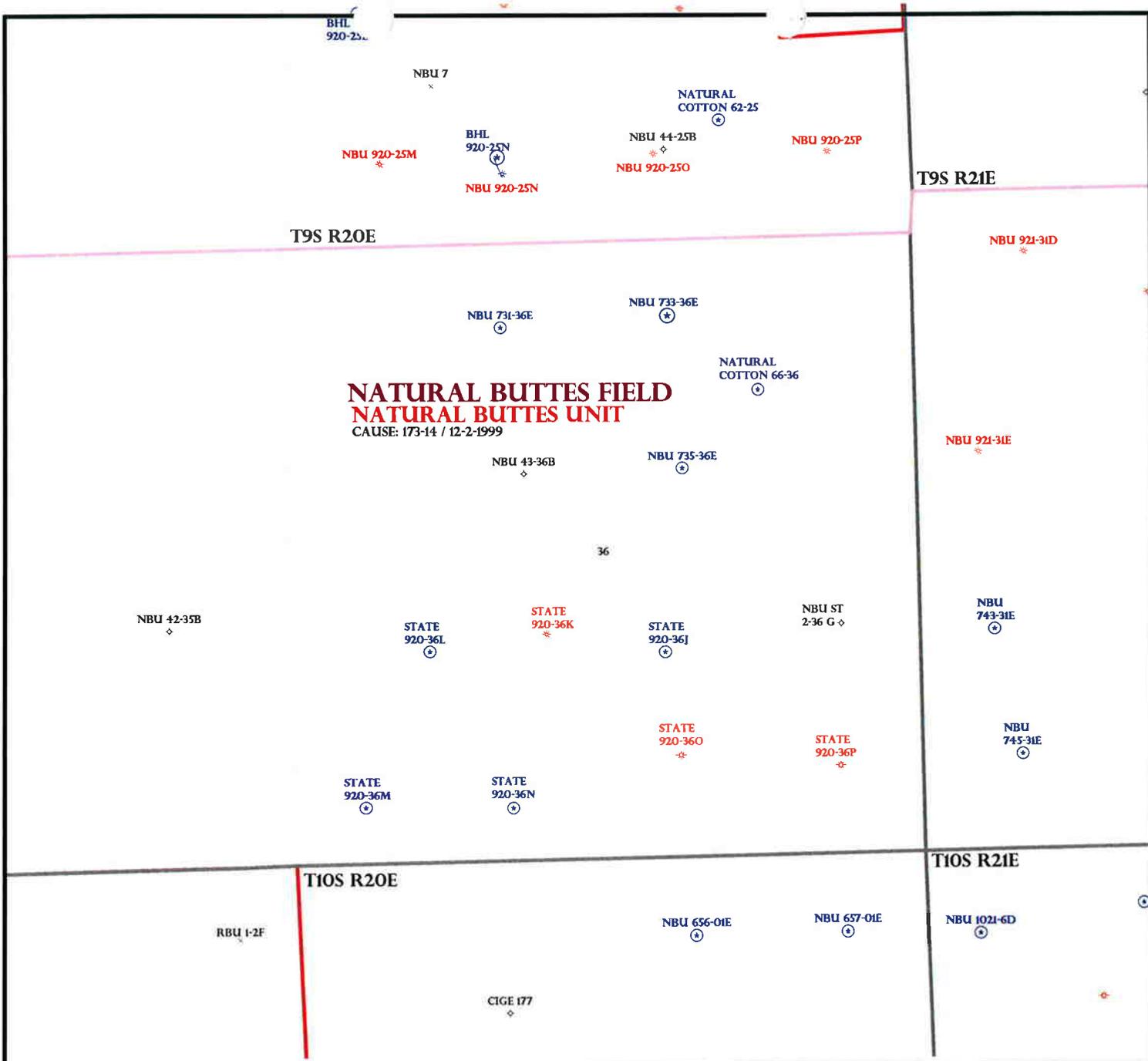
**CERTIFICATION:**

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by EOG Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Please be advised that EOG Resources, Inc. is considered to be the operator of the Natural Buttes Unit 733-36E Well, located in the NWNE, of Section 36, T9S, 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.

April 7, 2008 \_\_\_\_\_  
Date

\_\_\_\_\_  
Kaylene R. Gardner, Lead Regulatory Assistant



OPERATOR: EOG RESOURCES INC (N9550)

SEC: 36 T.9S 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



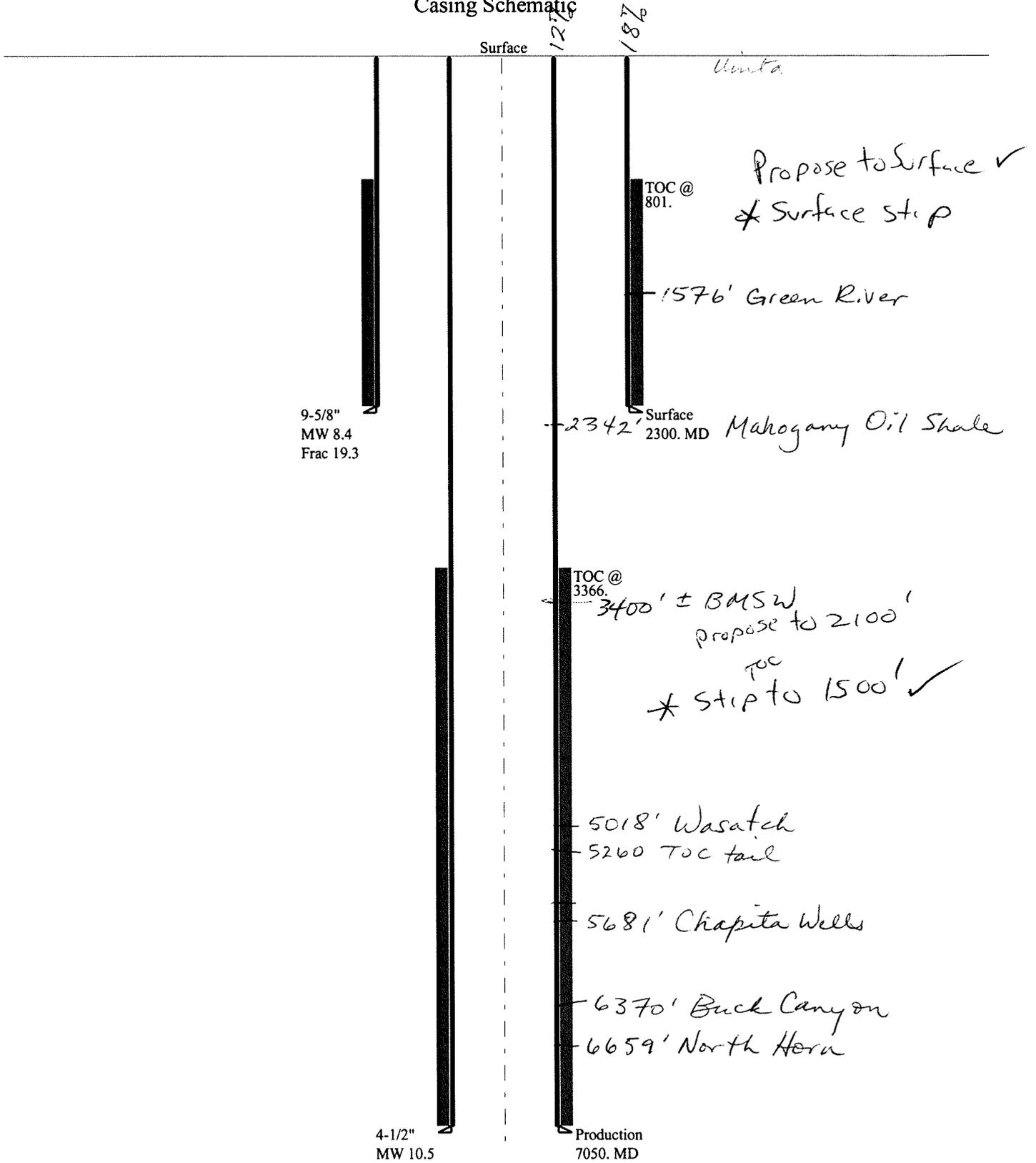
OIL, GAS & MINING



PREPARED BY: DIANA MASON  
 DATE: 15-APRIL-2008

# 2008-05 EOG NBU 733-36E

## Casing Schematic



Well name:	<b>2008-05 EOG NBU 733-36E</b>	
Operator:	<b>EOG Resources Inc.</b>	Project ID:
String type:	Surface	43-047-50042
Location:	Uintah County	

**Design parameters:****Collapse**

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

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

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

Cement top: 801 ft

**Burst**

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

No backup mud specified.

**Tension:**

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

Tension is based on buoyed weight.  
Neutral point: 2,014 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 7,050 ft  
Next mud weight: 10.500 ppg  
Next setting BHP: 3,845 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	998.2
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	72	394	5.43 J

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

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

Date: May 12, 2008  
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:

**2008-05 EOG NBU 733-36E**Operator: **EOG Resources Inc.**

String type: Production

Project ID:

43-047-50042

Location: Uintah County

**Design parameters:****Collapse**Mud weight: 10.500 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

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

Cement top: 3,366 ft

**Burst**Max anticipated surface  
pressure: 2,294 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 3,845 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 5,943 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft <sup>3</sup> )
1	7050	4.5	11.60	N-80	LT&C	7050	7050	3.875	615.2
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	3845	6350	1.651	3845	7780	2.02	69	223	3.23 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MineralsPhone: 801-538-5357  
FAX: 801-359-3940Date: May 12, 2008  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 7050 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 &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

**BOPE REVIEW** **EOG NBU 733-36E API 43-047-50042**

INPUT		EOG NBU 733-36E API 43-047-50042	
Well Name		String 1	String 2
Casing Size (")		9 5/8	4 1/2
Setting Depth (TVD)		2300	7050
Previous Shoe Setting Depth (TVD)		60	2300
Max Mud Weight (ppg)		8.4	10.5
BOPE Proposed (psi)		500	5000
Casing Internal Yield (psi)		3520	7780
Operators Max Anticipated Pressure (psi)		3849	10.5 ppg

Calculations	String 1	9 5/8 "	
Max BHP [psi]	$.052 \times \text{Setting Depth} \times \text{MW} =$	1005	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	729	NO ~ o.k. - Air Drill to surface shoe
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	499	YES
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	512	NO Reasonable depth - no expected pressure
Required Casing/BOPE Test Pressure		2300 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		60 psi	

Calculations	String 2	4 1/2 "	
Max BHP [psi]	$.052 \times \text{Setting Depth} \times \text{MW} =$	3849	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	$\text{Max BHP} - (0.12 \times \text{Setting Depth}) =$	3003	YES
MASP (Gas/Mud) [psi]	$\text{Max BHP} - (0.22 \times \text{Setting Depth}) =$	2298	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 \times (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	2804	NO o.k.
Required Casing/BOPE Test Pressure		5000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2300 psi	*Assumes 1psi/ft frac gradient

# Application for Permit to Drill

## Statement of Basis

6/9/2008

### Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
764	43-047-50050-00-00	LOCKED	GW	S	No
<b>Operator</b>	EOG RESOURCES, INC.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	NBU 748-31E	<b>Unit</b>	NATURAL BUTTES		
<b>Field</b>	NATURAL BUTTES	<b>Type of Work</b>	DRILL		
<b>Location</b>	SWSE 31 9S 21E S 950 FSL 2056 FEL GPS Coord (UTM) 620273E 4427034N				

#### Geologic Statement of Basis

Kerr McGee proposes to set 2,300' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of section 31. The well is located over a mile to the east, is 200 feet deep and listed as used for oil & gasdrilling. 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. The production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole. The proposed surface casing and cement should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

6/9/2008  
Date / Time

#### Surface Statement of Basis

This location is approximately 11 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 340 feet of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 748-31E gas well is proposed on a sandy flat which has a plugged well operated by Belco (NBU 51-31B). It appears it has been abandoned for many years. Only remnants of the old location are the well head, a few pieces of rusty metal and black scattered partially exposed black vinyl sheets. No defined drainages exist through the proposed pad area. A small drainage exist to the south and runs to the west. The site appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA. Jim Davis of SITLA attended the pre-site evaluation. He had no concerns regarding the location.

Ben Williams representing the UDWR stated the area is classified as yearlong crucial habitat for antelope. He stated the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Byron Tolman, representing EOG, a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when re-vegetating the location.

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# Application for Permit to Drill

## Statement of Basis

6/9/2008

**Utah Division of Oil, Gas and Mining**Page 2

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Floyd Bartlett  
**Onsite Evaluator**

6/3/2008  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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

**Operator** EOG RESOURCES, INC.  
**Well Name** NBU 748-31E  
**API Number** 43-047-50050-0      **APD No** 764      **Field/Unit** NATURAL BUTTES  
**Location: 1/4,1/4 SWSE**      **Sec** 31    **Tw** 9S    **Rng** 21E    950 FSL 2056 FEL  
**GPS Coord (UTM)** 620272      4427051      **Surface Owner**

**Participants**

Floyd Bartlett (DOGM), Jim Davis (SITLA), Byron Tolman (Agent for EOG), Ben Williams (Utah Division of Wildlife Resources)

**Regional/Local Setting & Topography**

This location is approximately 11 miles southeast of Ouray, Ut.. It is accessed by the Seep Ridge Road to the Uintah County Middle Road then by existing or planned oil field development roads to within 340 feet of the site, which will require new construction.

The general area is within a long unnamed wash immediately west of Cottonwood Wash. Both washes enter the White River in the same general area, approximately six miles below the site. The area is characterized by rolling hills, which are frequently divided by somewhat gentle draws which drain northerly. This unnamed wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. The washes are sometimes rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims.

The proposed NBU 748-31E gas well is proposed on a sandy flat which has a plugged well operated by Belco (NBU 51-31B). It appears it has been abandoned for many years. Only remnants of the old location are the well head, a few pieces of rusty metal and black scattered partially exposed black vinyl sheets. No defined drainages exist through the proposed pad area. A small drainage exist to the south and runs to the west. The site appears to be a good location for constructing a pad, drilling and operating a well.

Both the surface and minerals are owned by SITLA.

**Surface Use Plan****Current Surface Use**

Grazing  
Recreational  
Wildlfe Habitat

**New Road**

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

**Ancillary Facilities** N

**Waste Management Plan Adequate?****Environmental Parameters**

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

Vegetation is a salt desert shrub type. Principal species present are rabbit brush, shadscale, horsebrush, cheatgrass, halogeton, wild onions, loco weed, Russian thistle, 4-wing saltbush and prickly pear.

Cattle, antelope and small mammals and birds.

### Soil Type and Characteristics

Soils are a moderately deep sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** N

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?**

**Paleo Potential Observed?**

**Cultural Survey Run?**

**Cultural Resources?**

### Reserve Pit

#### Site-Specific Factors

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

**Final Score** 25 1 **Sensitivity Level**

#### Characteristics / Requirements

The reserve pit is in an area of cut in the southeast corner of the location. Dimensions are 75' x 175' x 12' deep with 2' of freeboard. A liner with a minimum thickness of 16 mils. and a felt sub-liner are required.

**Closed Loop Mud Required?** N

**Liner Required?** Y

**Liner Thickness** 16

**Pit Underlayment Required?** Y

### Other Observations / Comments

Floyd Bartlett  
Evaluator

6/3/2008  
Date / Time

**From:** Jim Davis  
**To:** Bonner, Ed; Mason, Diana  
**Date:** 8/28/2008 3:18 PM  
**Subject:** SITLA well approval

The following wells have been approved by SITLA including arch and paleo clearance.

4304750038	89550.1	NBU 731-36E	UINTAH
4304750039	89550.1	NBU 735-36E	UINTAH
4304750042	89550.1	NBU 733-36E	UINTAH

-Jim

Jim Davis  
Utah Trust Lands Administration  
jimdavis1@utah.gov  
Phone: (801) 538-5156

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/14/2008

API NO. ASSIGNED: 43-047-50042

WELL NAME: NBU 733-36E  
 OPERATOR: EOG RESOURCES, INC. ( N9550 )  
 CONTACT: Kaylene Gardner

PHONE NUMBER: 435 781-9111

PROPOSED LOCATION:

NWNE 36 090S 200E  
 SURFACE: 0671 FNL 2075 FEL  
 BOTTOM: 0671 FNL 2075 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.99694 LONGITUDE: -109.6117  
 UTM SURF EASTINGS: 618514 NORTHINGS: 4428130  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	Ded	5/08
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-3140 1/2  
 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 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- 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' fr Wldg & Noncom. Trees
- R649-3-11. Directional Drill

COMMENTS:

Needs Permit (06-03-08)

STIPULATIONS:

- 1- OIL SHALE
- 2- STATEMENT OF BASIS
- 3- Surface Csg Cont Stud

**From:** Ed Bonner  
**To:** Mason, Diana  
**Date:** 7/10/2008 10:46 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 735-36E (API 43 047 50039)  
NBU 733-36E (API 43 047 50042)  
NBU 731-36E (API 43 047 50038)  
NBU 670-29E (API 43 047 40084)  
NBU 495-31E (API 43 047 50037)  
NBU 743-31E (API 43 047 50040)

As per recommendations in paleo report, SITLA is requiring paleo monitoring of the NBU 743-31E location when construction begins and spotchecks during construction.

Kerr-McGee Oil & Gas Onshore LP

NBU 921-26A1CS (API 43 047 40099)  
NBU 921-25D4AS (API 43 047 40102)  
NBU 921-26N2AS (API 43 047 40110)  
NBU 921-26M4AS (API 43 047 40111)  
NBU 921-26N2DS (API 43 047 40112)

XTO Energy, Inc

AP 16-2J (API 43 047 40103)  
AP 14-2J (API 43 047 40104)  
AP 7-2J (API 43 047 40105)  
AP 6-2J (API 43 047 40106)  
AP 5-2JX (API 43 047 40107)  
AP 4-2J (API 43 047 40108)

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

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/14/2008

**API NO. ASSIGNED:** 43047500420000

**WELL NAME:** NBU 733-36E

**OPERATOR:** EOG Resources, Inc. (N9550)

**PHONE NUMBER:** 435 781-9111

**CONTACT:** Kaylene Gardner

**PROPOSED LOCATION:** NWNE 36 090S 200E

**Permit Tech Review:**

**SURFACE:** 0671 FNL 2075 FEL

**Engineering Review:**

**BOTTOM:** 0671 FNL 2075 FEL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 39.99694

**LONGITUDE:** -109.61172

**UTM SURF EASTINGS:** 618514.00

**NORTHINGS:** 4428130.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML-3140 1/2

**PROPOSED FORMATION:** NHORN

**SURFACE OWNER:** 3 - State

**COALBED METHANE:** NO

**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** STATE/FEE - 6196017
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** 49-225
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**LOCATION AND SITING:**

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:**
- Effective Date:**
- Siting:**
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 5 - Statement of Basis - bhll  
9 - Cement casing to Surface - ddoucet  
13 - Cement Volume Formation (3a) - ddoucet  
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil, Gas and Mining**

JOHN R. BAZA  
Division Director

July 10, 2008

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

Re: NBU 733-36E Well, 671' FNL, 2075' FEL, NW NE, Sec. 36, T. 9 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 43-047-50042.

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 733-36E

API Number: 43-047-50042

Lease: ML-3140 ½

Location: NW NE                      Sec. 36                      T. 9 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. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.



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*

## Permit To Drill

\*\*\*\*\*

**Well Name:** NBU 733-36E  
**API Well Number:** 43047500420000  
**Lease Number:** ML-3140 1/2  
**Surface Owner:** STATE  
**Approval Date:** 9/11/2008

**Issued to:**

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

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause No. 173-14.

**Duration:**

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

**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.

**Conditions of Approval:**

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

The cement volumes for the 9 5/8" surface casing shall be determined from actual hole conditions and the setting depth of the casing in order to place cement from the pipe setting depth back to the surface.

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 1500' MD in order to adequately isolate the Green River formation.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Notification Requirements:**

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

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

Dustin Doucet

- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

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

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

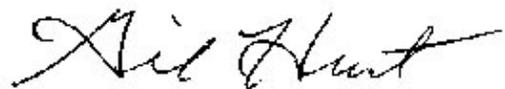
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

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

**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.

**Approved By:**



Gil Hunt  
Associate Director, Oil & Gas

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-3140-1/2</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		7. UNIT or CA AGREEMENT NAME: <b>Natural Buttes Unit</b>
		8. WELL NAME and NUMBER: <b>Natural Buttes Unit 733-36E</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____	2. NAME OF OPERATOR: <b>EOG Resources, Inc.</b>	9. API NUMBER: <b>43-047-50042</b>
3. ADDRESS OF OPERATOR: 1060 East Highway 40 CITY <b>Vernal</b> STATE <b>UT</b> ZIP <b>84078</b>	PHONE NUMBER: <b>(435) 781-9145</b>	10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>775' FNL &amp; 2134' FEL</b>		COUNTY: <b>UINTAH</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NWNE 36 9S 20E S</b>		STATE: <b>UTAH</b>

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

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

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

EOG Resources, Inc. respectfully requests authorization to change the approach for the access road as per the attached revised plat packet. (See figure #1).

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

Date: 02-23-09  
By: [Signature]

COPY SENT TO OPERATOR  
Date: 3.4.2009  
Initials: KS

*MAY REQUIRE SITLA APPROVAL*

NAME (PLEASE PRINT) <u>Kaylene R. Gardner</u>	TITLE <u>Regulatory Administrator</u>
SIGNATURE <u>[Signature]</u>	DATE <u>2/2/2009</u>

(This space for State use only)

**RECEIVED**  
**FEB 10 2009**

**EOG RESOURCES, INC.**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

# EOG RESOURCES, INC.

## NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.

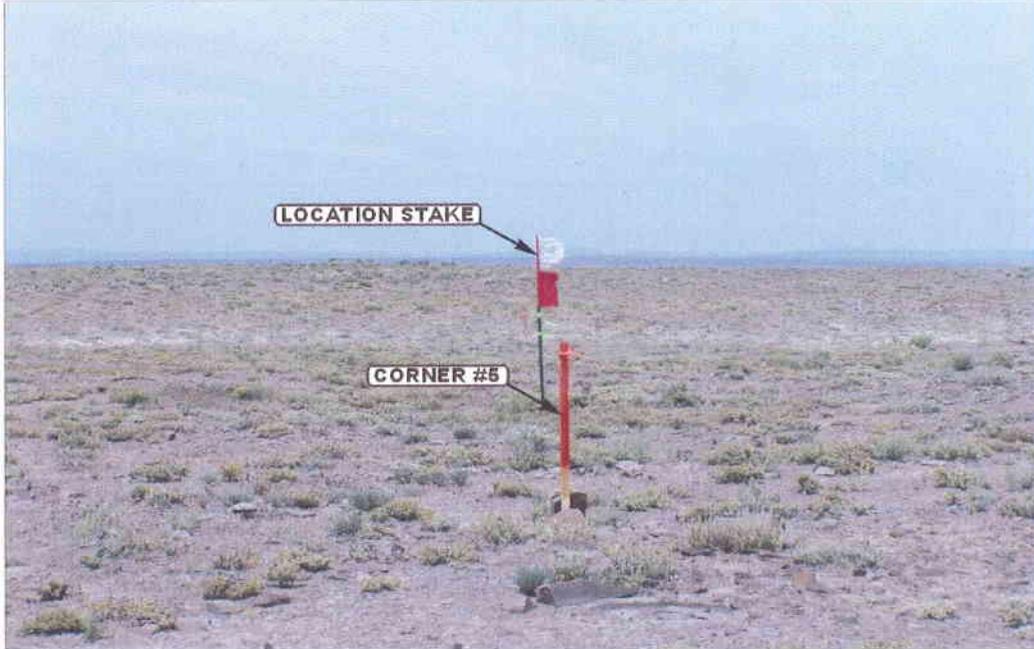


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS

03 24 08  
MONTH DAY YEAR

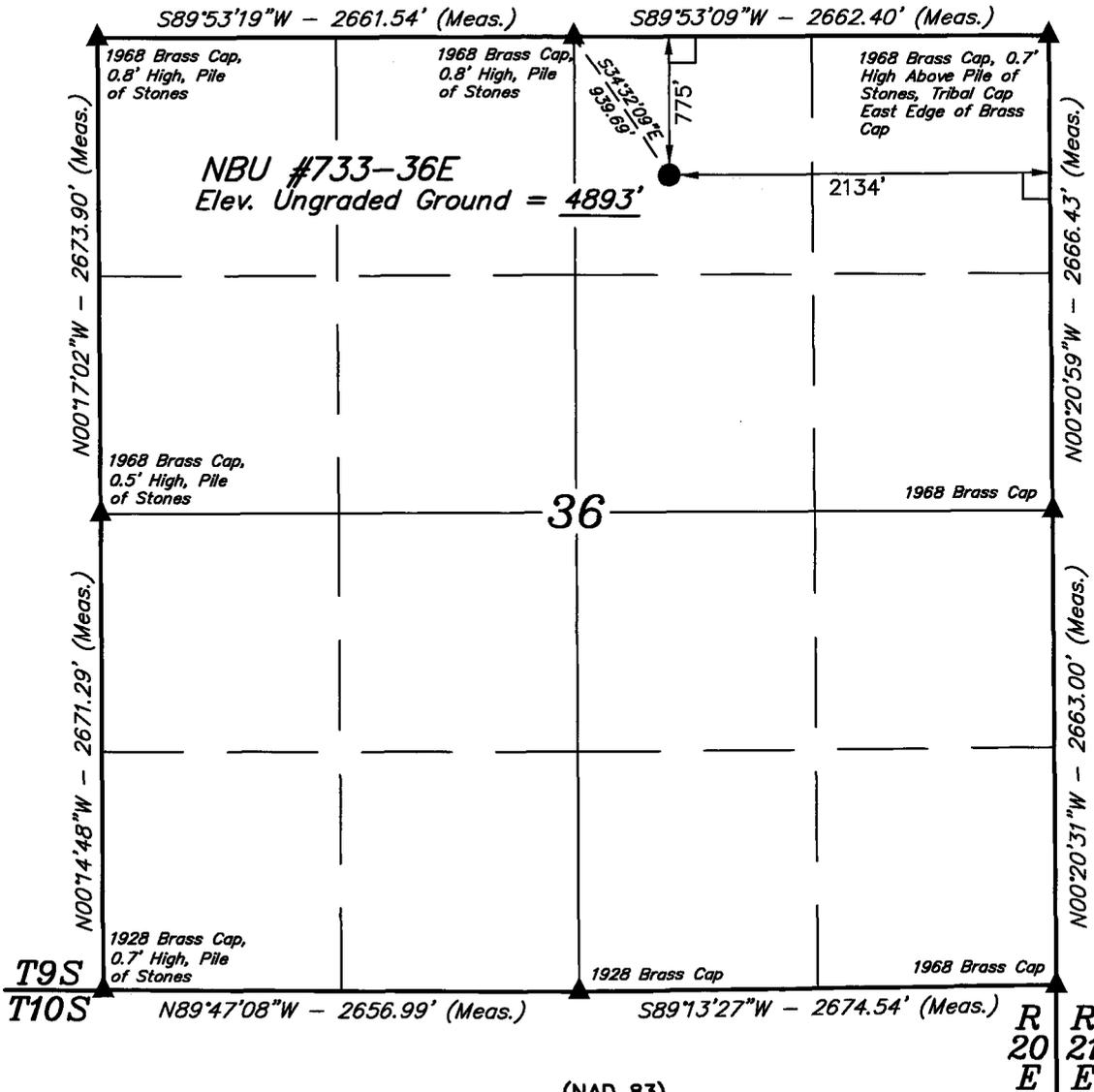
PHOTO

TAKEN BY: G.S.

DRAWN BY: Z.L.

REV: 06-24-08 J.J.

# T9S, R20E, S.L.B.&M.



### LEGEND:

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

(NAD 83)  
 LATITUDE = 39°59'47.97" (39.996658)  
 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)

## EOG RESOURCES, INC.

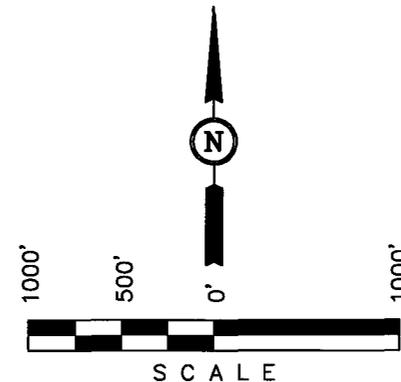
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.L.B.&M., Uintah County, Utah.

### 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, UTAH 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.

### BASIS OF BEARINGS

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



### CERTIFICATE

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

*Robert Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

REVISED: 06-02-08 C.H.

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

SCALE 1" = 1000'	DATE SURVEYED: 03-19-08	DATE DRAWN: 03-21-08
PARTY C.R. C.M. C.N.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

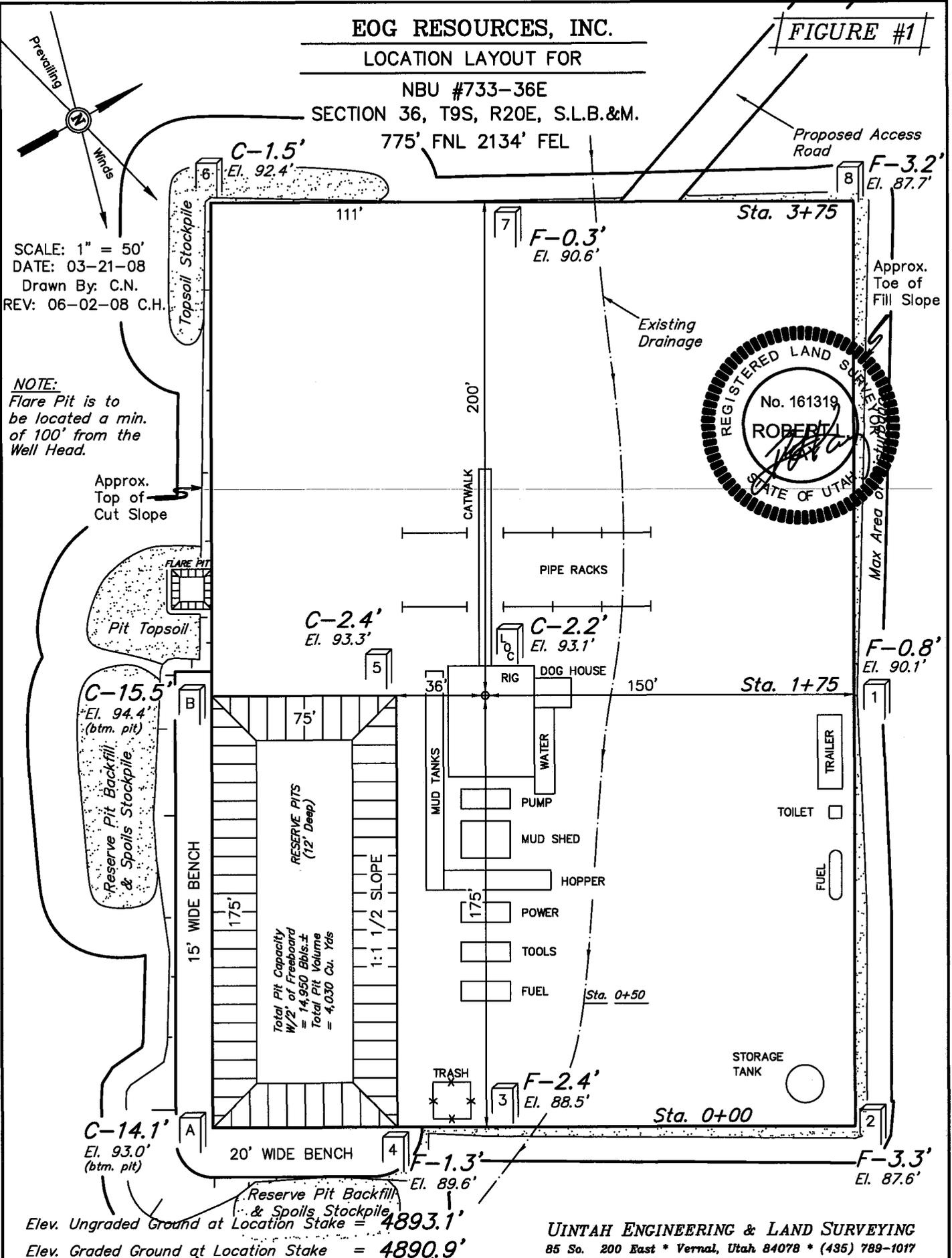
EOG RESOURCES, INC.

LOCATION LAYOUT FOR

NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.

775' FNL 2134' FEL

FIGURE #1



Elev. Ungraded Ground at Location Stake = 4893.1'  
Elev. Graded Ground at Location Stake = 4890.9'

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

**EOG RESOURCES, INC.**

**TYPICAL CROSS SECTIONS FOR**

**NBU #733-36E**

**SECTION 36, T9S, R20E, S.L.B.&M.**

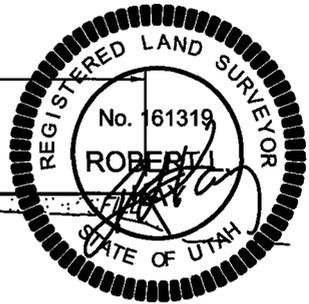
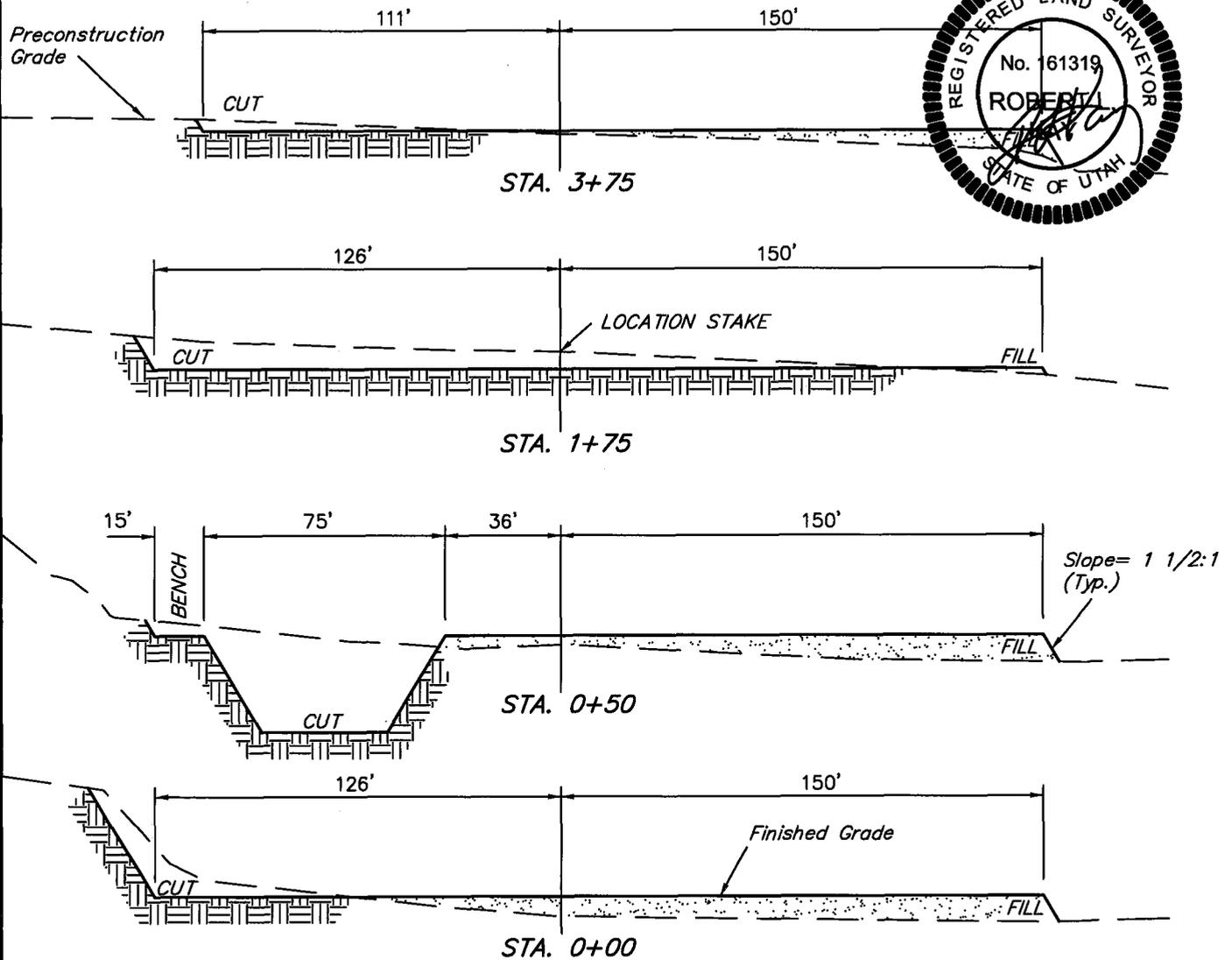
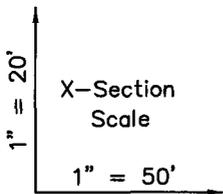
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08

Drawn By: C.N.

REV: 06-02-08 C.H.



**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 2.603 ACRES

ACCESS ROAD DISTURBANCE = ± 0.479 ACRES

PIPELINE DISTURBANCE = ± 0.872 ACRES

TOTAL = ± 3.954 ACRES

**NOTE:**

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

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	=	2,070 Cu. Yds.
Remaining Location	=	5,810 Cu. Yds.
<b>TOTAL CUT</b>	=	<b>7,880 CU. YDS.</b>
<b>FILL</b>	=	<b>3,790 CU. YDS.</b>

EXCESS MATERIAL	=	4,090 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	4,090 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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

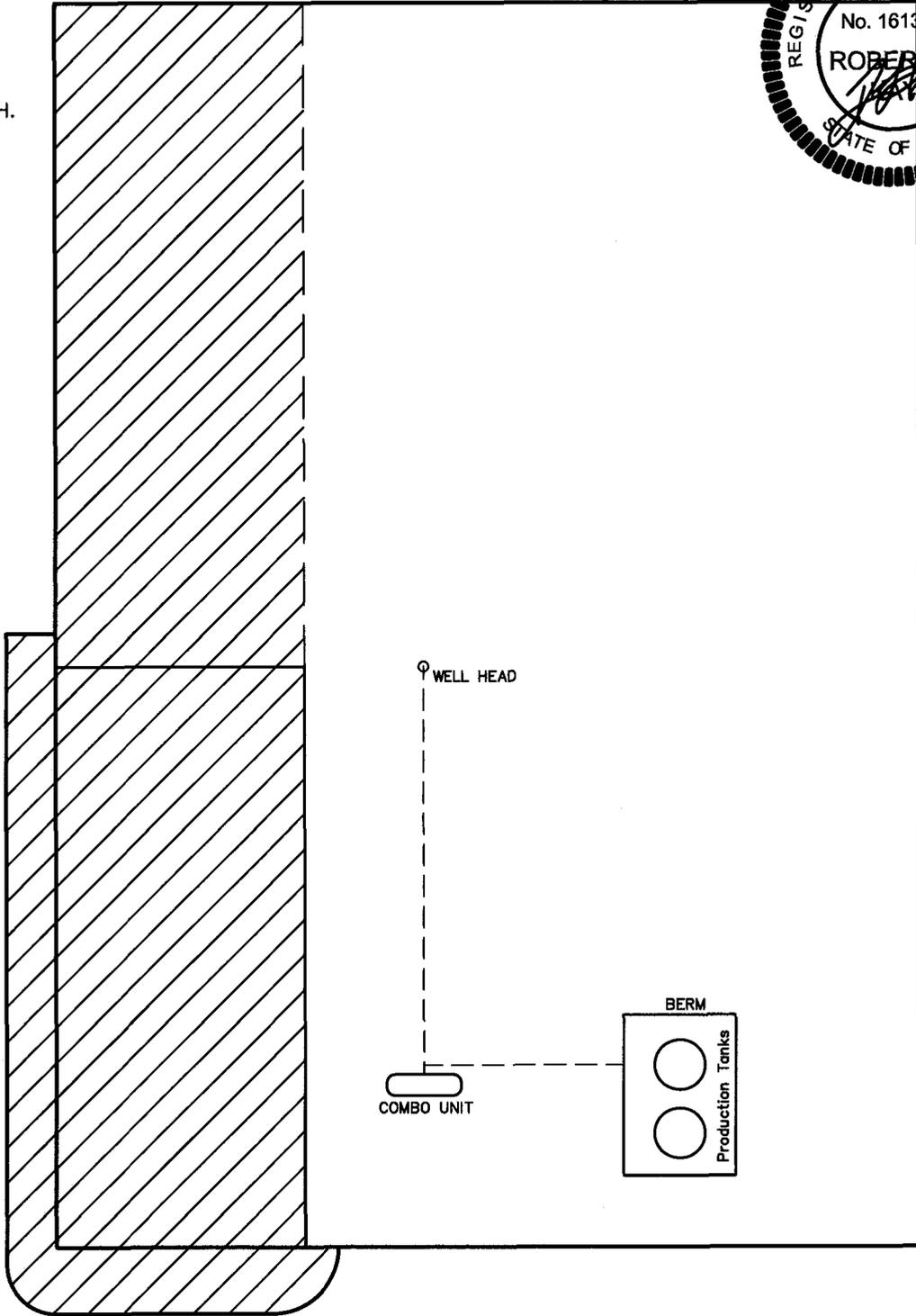
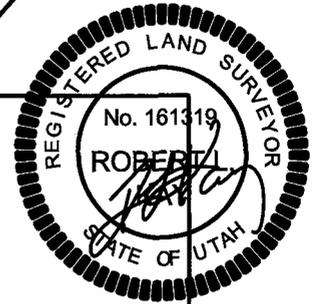
**EOG RESOURCES, INC.**  
**PRODUCTION FACILITY LAYOUT FOR**  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

**FIGURE #3**

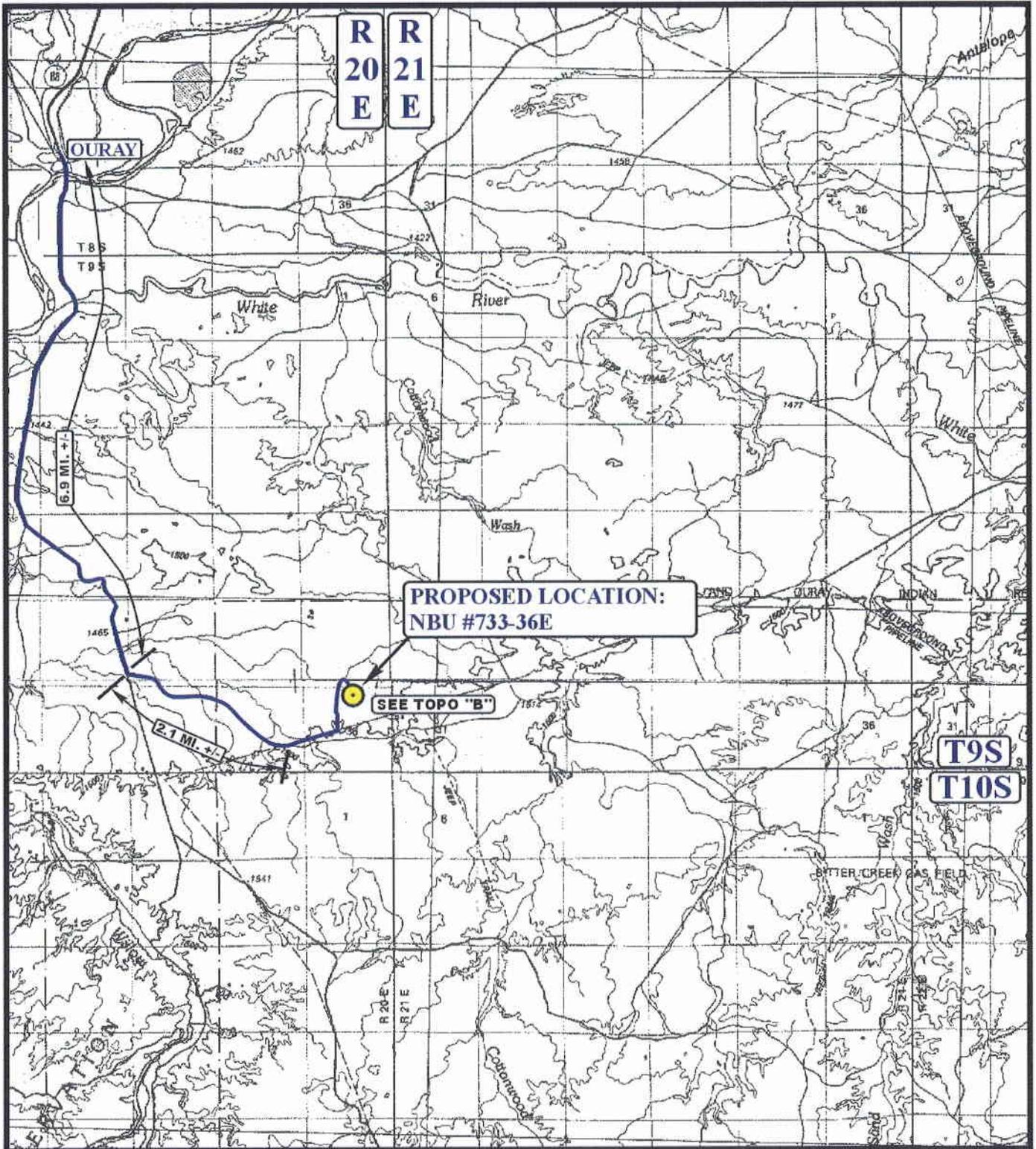


Access  
Road

SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



 RE-HABED AREA



**LEGEND:**

 PROPOSED LOCATION



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

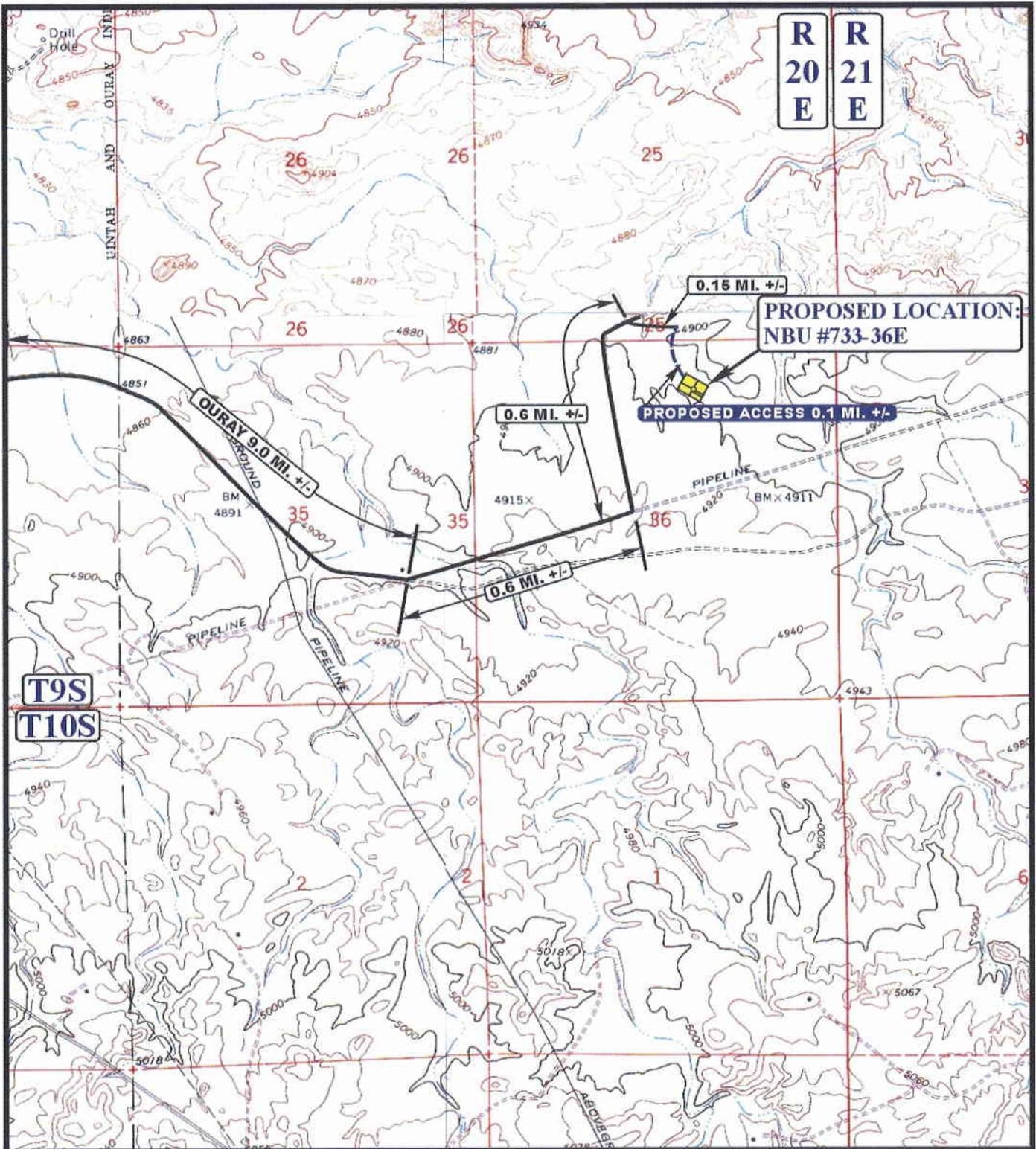


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **03 24 08**  
**MAP** MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 06-24-08 J.J.





**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

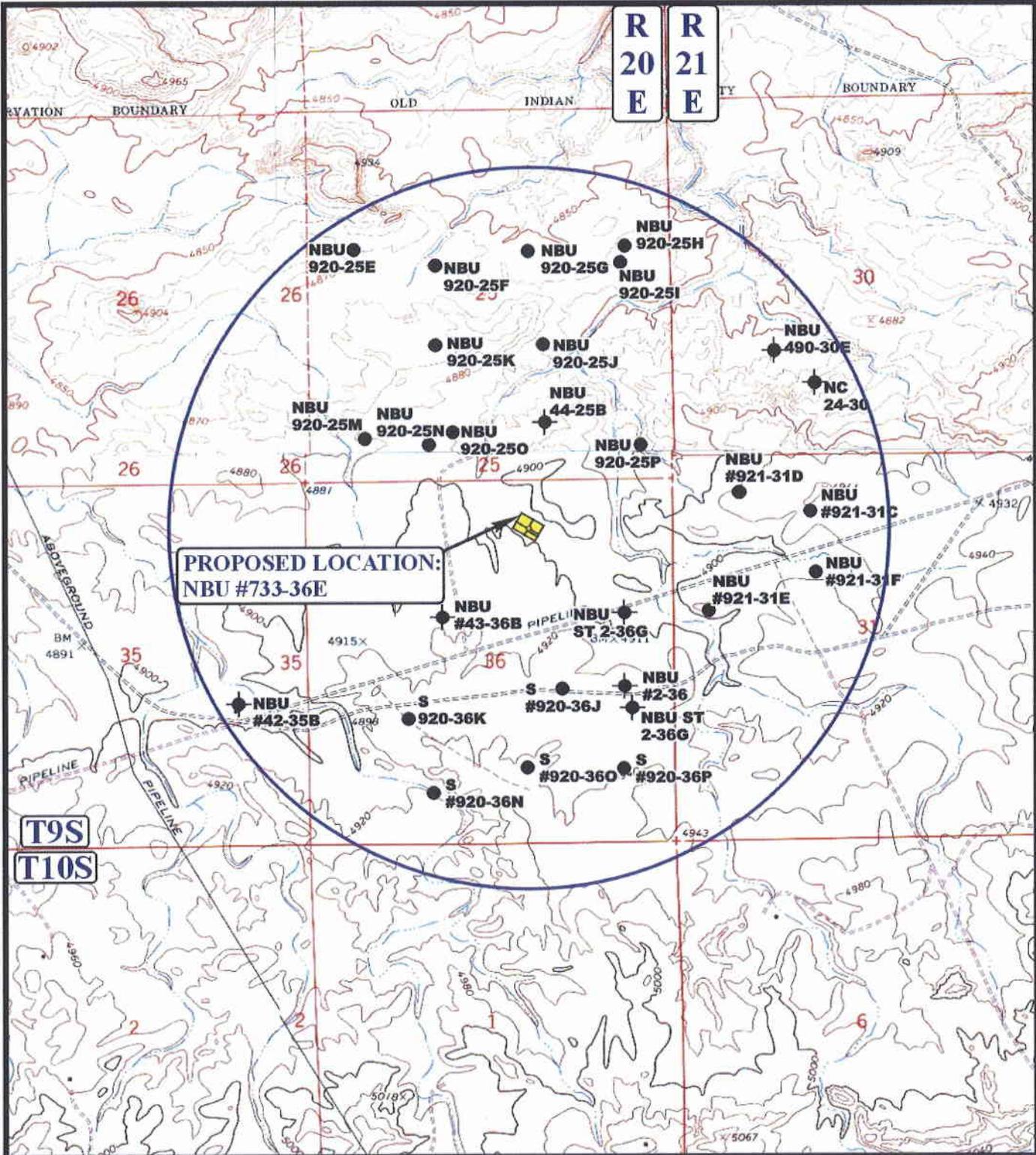


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 03 24 08  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**PROPOSED LOCATION:  
NBU #733-36E**

**LEGEND:**

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



**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



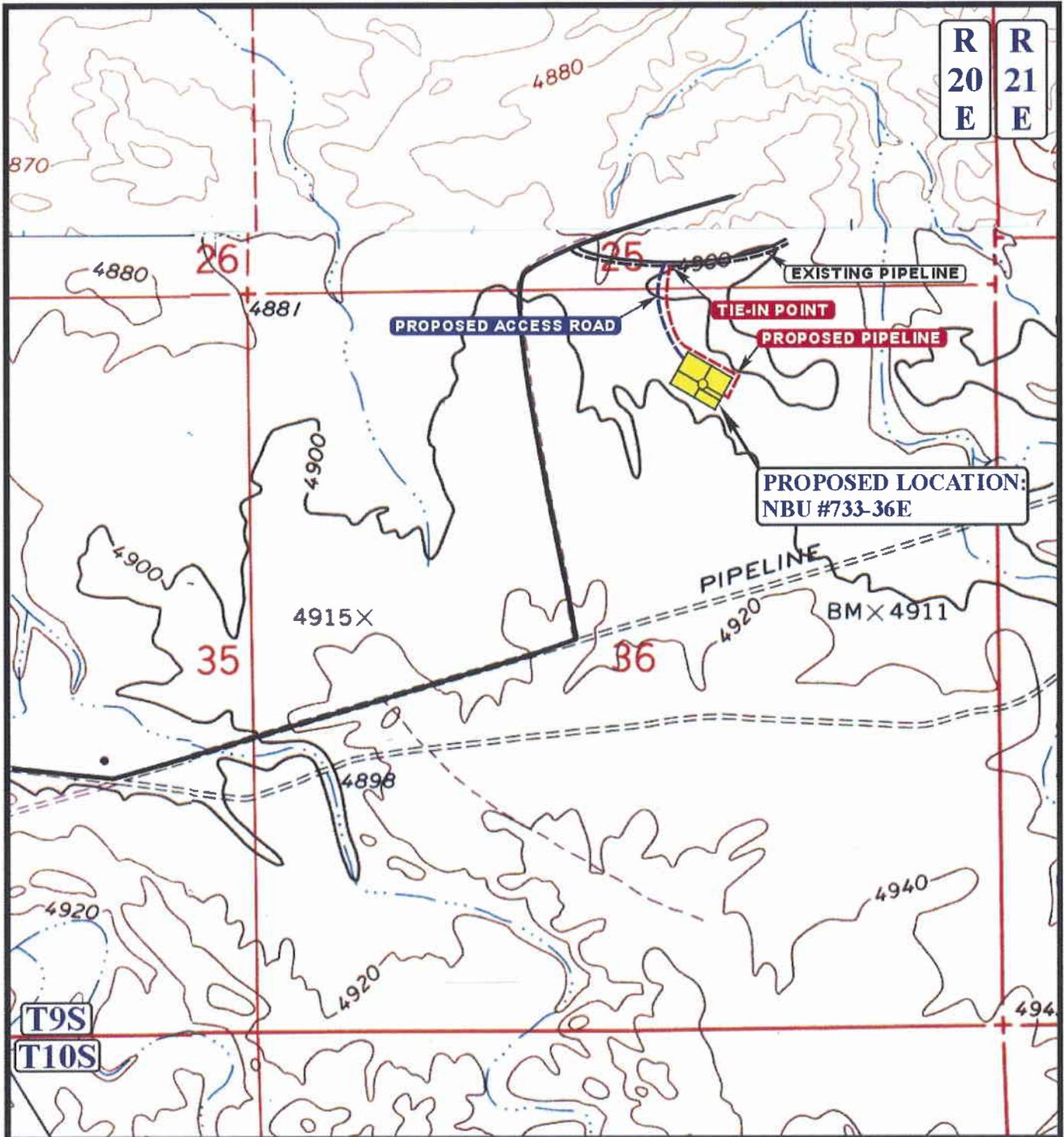
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**03 24 08**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**



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

**TOPOGRAPHIC**  
**MAP**

**03 24 08**  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 JJ.



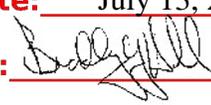
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3140 1/2
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below 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 733-36E
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047500420000
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0671 FNL 2075 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/10/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input 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 checked="" type="checkbox"/> <b>APD EXTENSION</b>
	<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.**  
 EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: July 13, 2009  
 By: 

<b>NAME (PLEASE PRINT)</b> Mickenzie Thacker	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/10/2009	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047500420000**

**API:** 43047500420000

**Well Name:** NBU 733-36E

**Location:** 0671 FNL 2075 FEL QTR NWNE SEC 36 TWNP 090S RNG 200E MER S

**Company Permit Issued to:** EOG RESOURCES, INC.

**Date Original Permit Issued:** 7/10/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

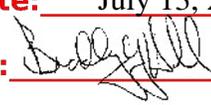
**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Mickenzie Thacker

**Date:** 7/10/2009

**Title:** Operations Clerk **Representing:** EOG RESOURCES, INC.

**Date:** July 13, 2009

**By:** 

**RECEIVED** July 10, 2009

<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.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-3140 1/2
	<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 733-36E
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047500420000
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<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 0671 FNL 2075 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/29/2009	<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
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<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Move Location"/>

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

As per onsite conducted 4/22/2008, EOG respectfully requests authorization to move the referenced location, From: 671 FNL - 2075 FEL To: 775 FNL - 2134 FEL Revised plats attached.

**Approved by the Utah Division of Oil, Gas and Mining**  
  
**Date:** August 04, 2009  
**By:**

<b>NAME (PLEASE PRINT)</b> Kaylene Gardner	<b>PHONE NUMBER</b> 435 781-9111	<b>TITLE</b> Regulatory Administrator
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/29/2009	

EOG RESOURCES, INC.  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

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

**Date:** August 04, 2009

**By:** 

# EOG RESOURCES, INC.

NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS	03	24	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: Z.L.	REV: 06-24-08 J.J.		

**RECEIVED** July 29, 2009

# T9S, R20E, S.1.B.&M.

EOG RESOURCES, INC.

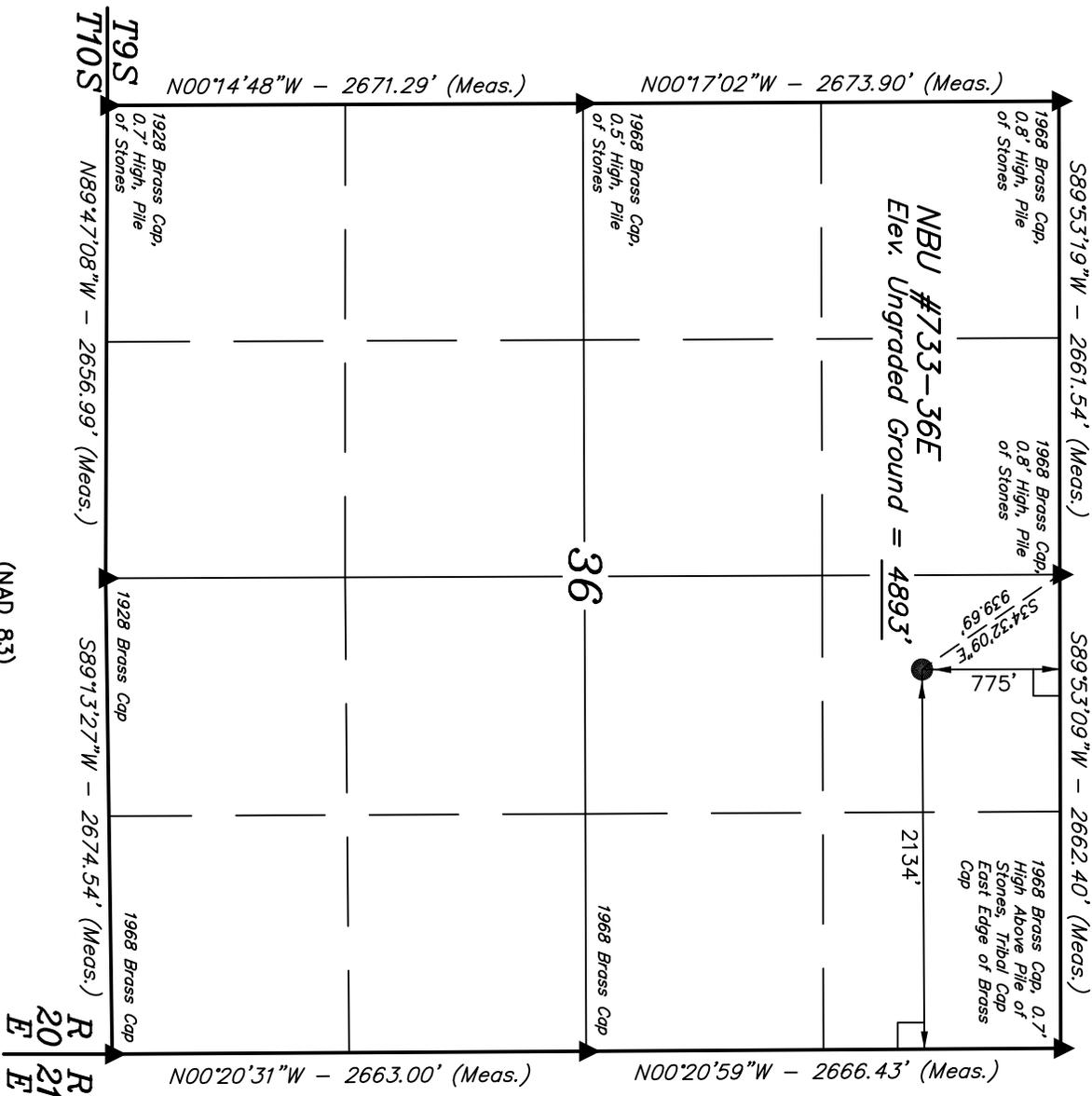
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.1.B.&M., Utah County, Utah.

### BASIS OF ELEVATION

TWO BENCH MARK STATION LOCATED IN THE NW 1/4 OF SECTION 16, T9S, R21E, S.1.B.&M. TAKEN FROM THE BIG PARK MOUNTAIN QUADRANGLE, UTAH, UTAH 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.

### BASIS OF BEARINGS

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

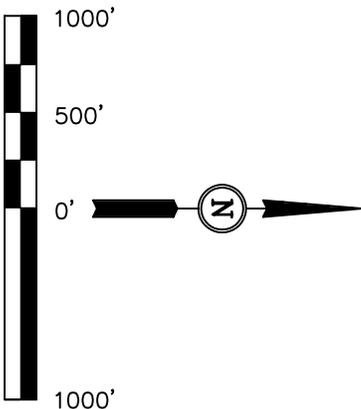


R 20 E  
T 9 S

### LEGEND:

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

(NAD 83)  
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 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)



### CERTIFICATE

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

REVISED: 06-02-08 C.H.

REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 181319  
 STATE OF UTAH

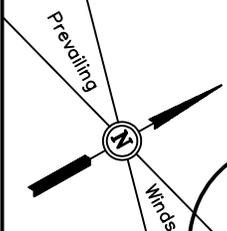
UNTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	03-19-08	DATE DRAWN:	03-21-08
PARTY	C.R. C.M. C.N.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	EOG RESOURCES, INC.		

EOG RESOURCES, INC.

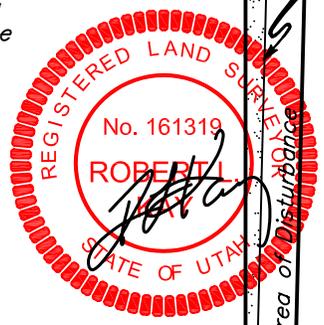
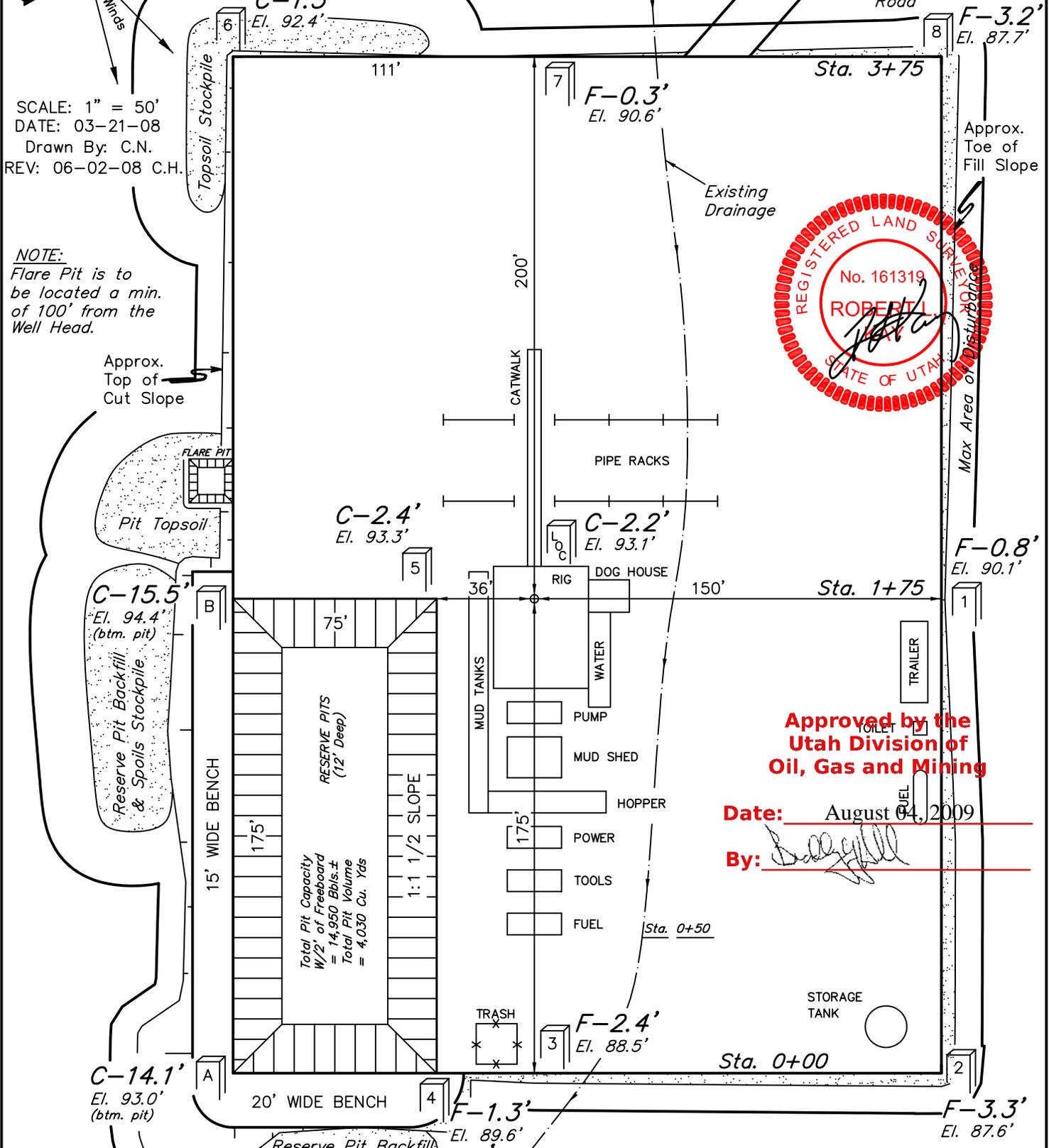
LOCATION LAYOUT FOR  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #1



SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.

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



Approved by the Utah Division of Oil, Gas and Mining

Date: August 04, 2009

By: [Signature]

Elev. Ungraded Ground at Location Stake = 4893.1'  
Elev. Graded Ground at Location Stake = 4890.9'

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

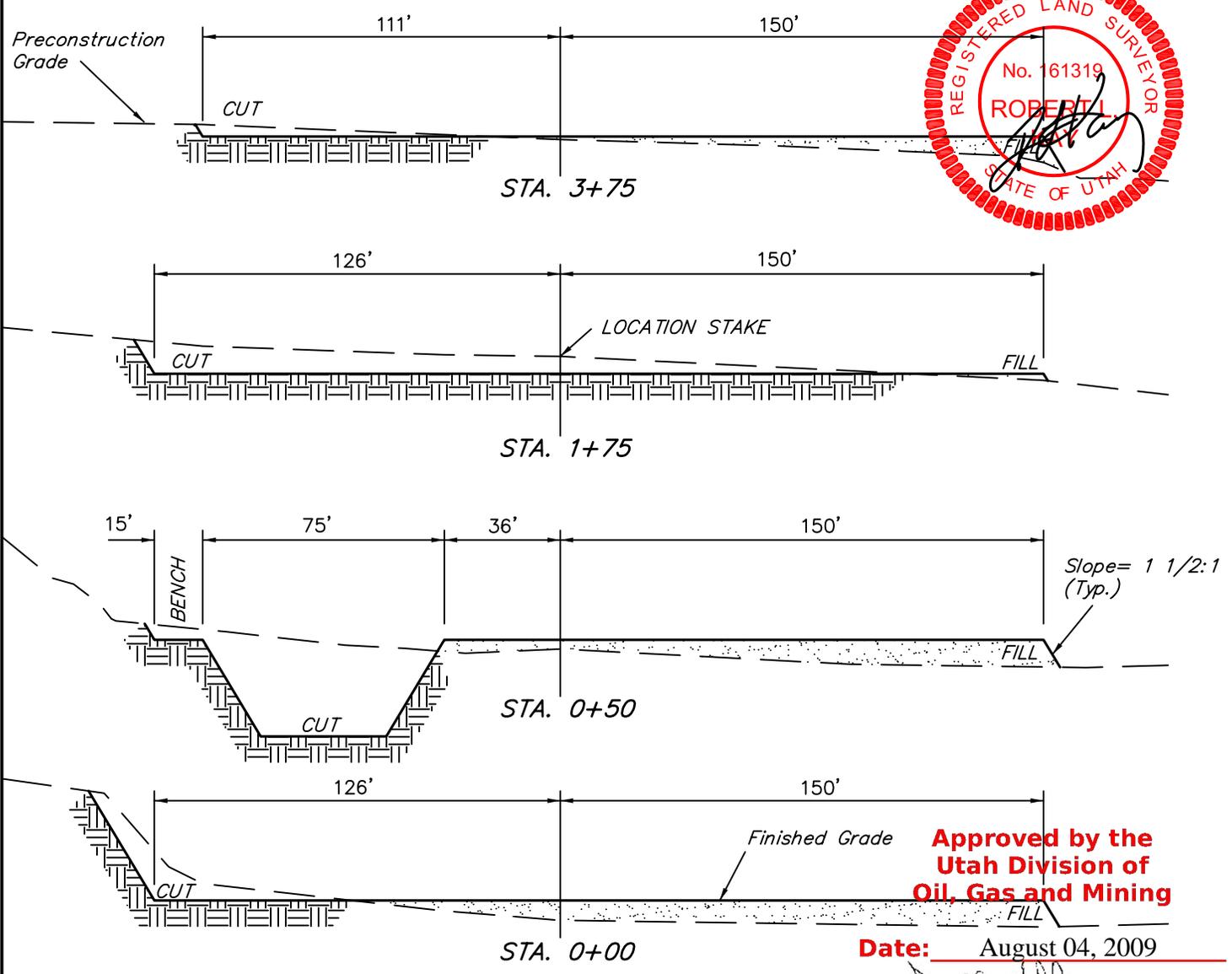
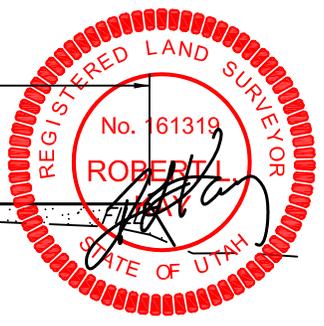
RECEIVED July 29, 2009

**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.

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



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

**Date:** August 04, 2009

**By:** [Signature]

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE	= ± 2.603 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.479 ACRES
PIPELINE DISTURBANCE	= ± 0.872 ACRES
<b>TOTAL</b>	<b>= ± 3.954 ACRES</b>

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

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

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 2,070 Cu. Yds.
Remaining Location	= 5,810 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 7,880 CU. YDS.</b>
<b>FILL</b>	<b>= 3,790 CU. YDS.</b>

EXCESS MATERIAL	= 4,090 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 4,090 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

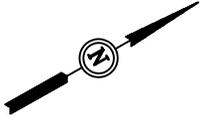
**UINTAH ENGINEERING & LAND SURVEYING**  
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EOG RESOURCES, INC.  
PRODUCTION FACILITY LAYOUT FOR

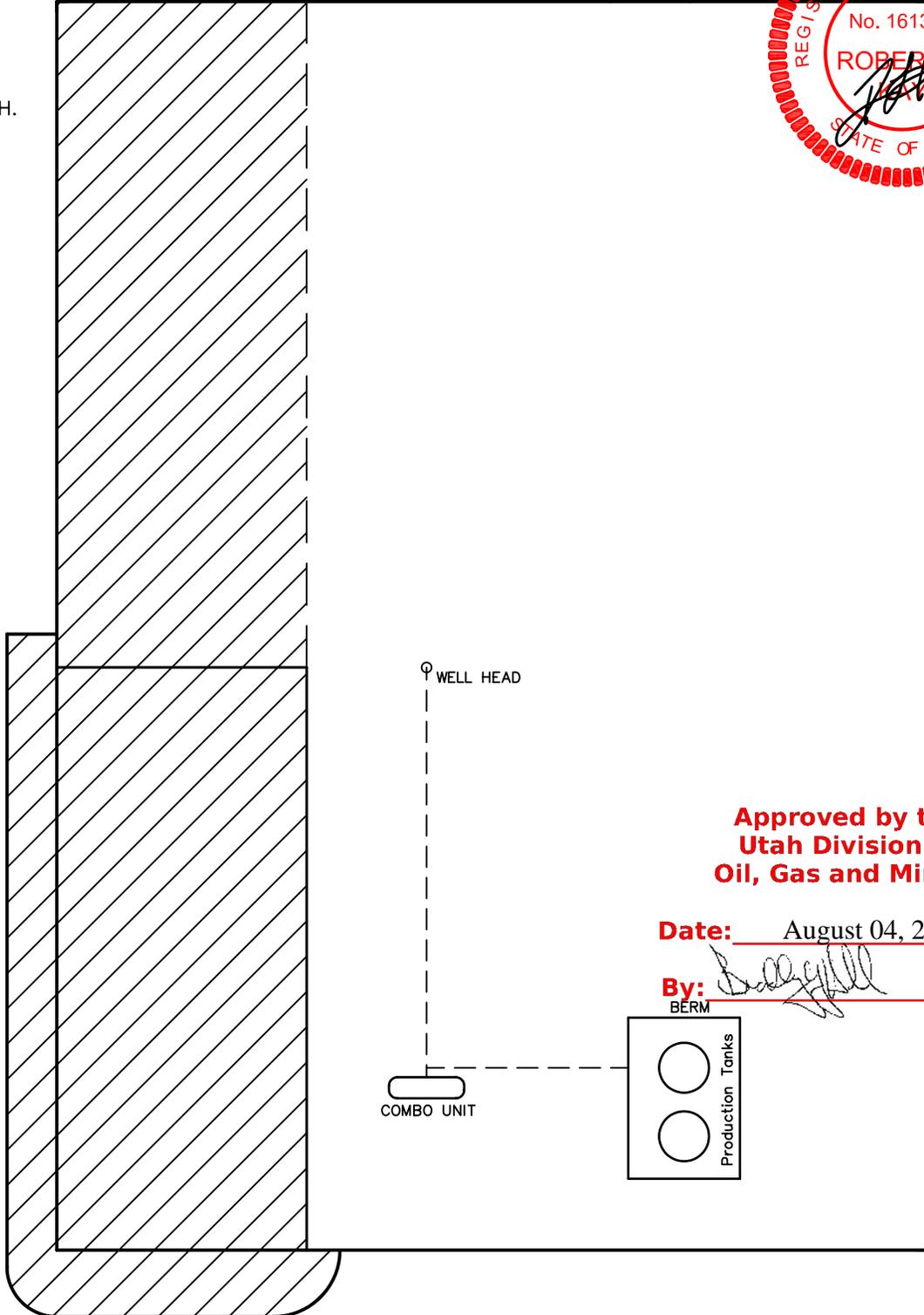
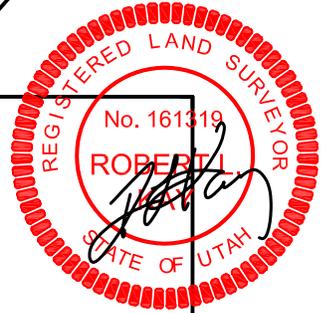
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #3



Access  
Road

SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



Approved by the  
Utah Division of  
Oil, Gas and Mining

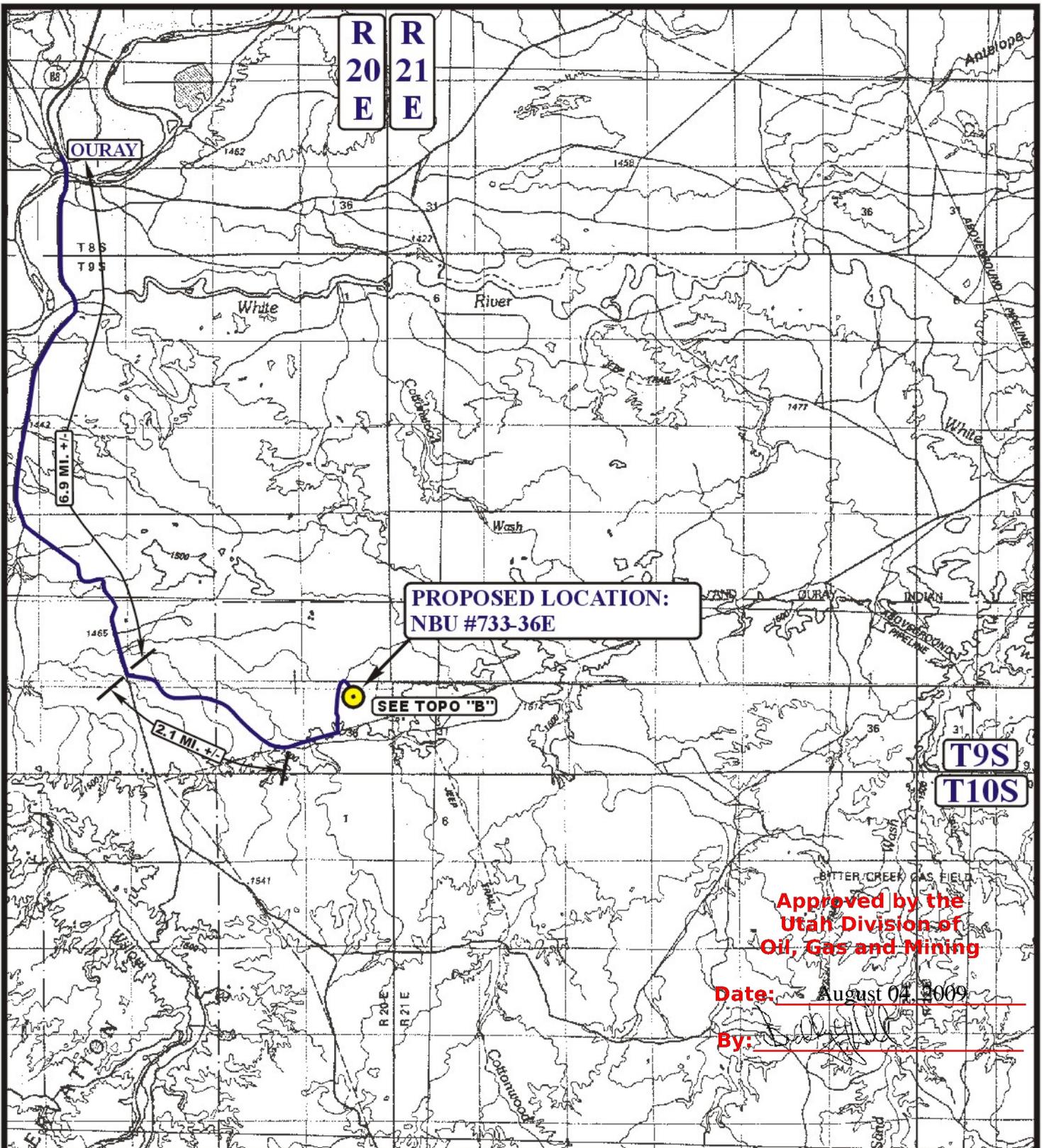
Date: August 04, 2009

By: *[Signature]*  
BERM

 RE-HABED AREA

UINTAH ENGINEERING & LAND SURVEYING  
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**R 20 E**  
**R 21 E**

**OURAY**

T 8 S  
T 9 S

White River

**PROPOSED LOCATION:  
NBU #733-36E**

**SEE TOPO "B"**

**T 9 S**  
**T 10 S**

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

**Date:** August 04, 2009

**By:** \_\_\_\_\_

**LEGEND:**

**PROPOSED LOCATION**

**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



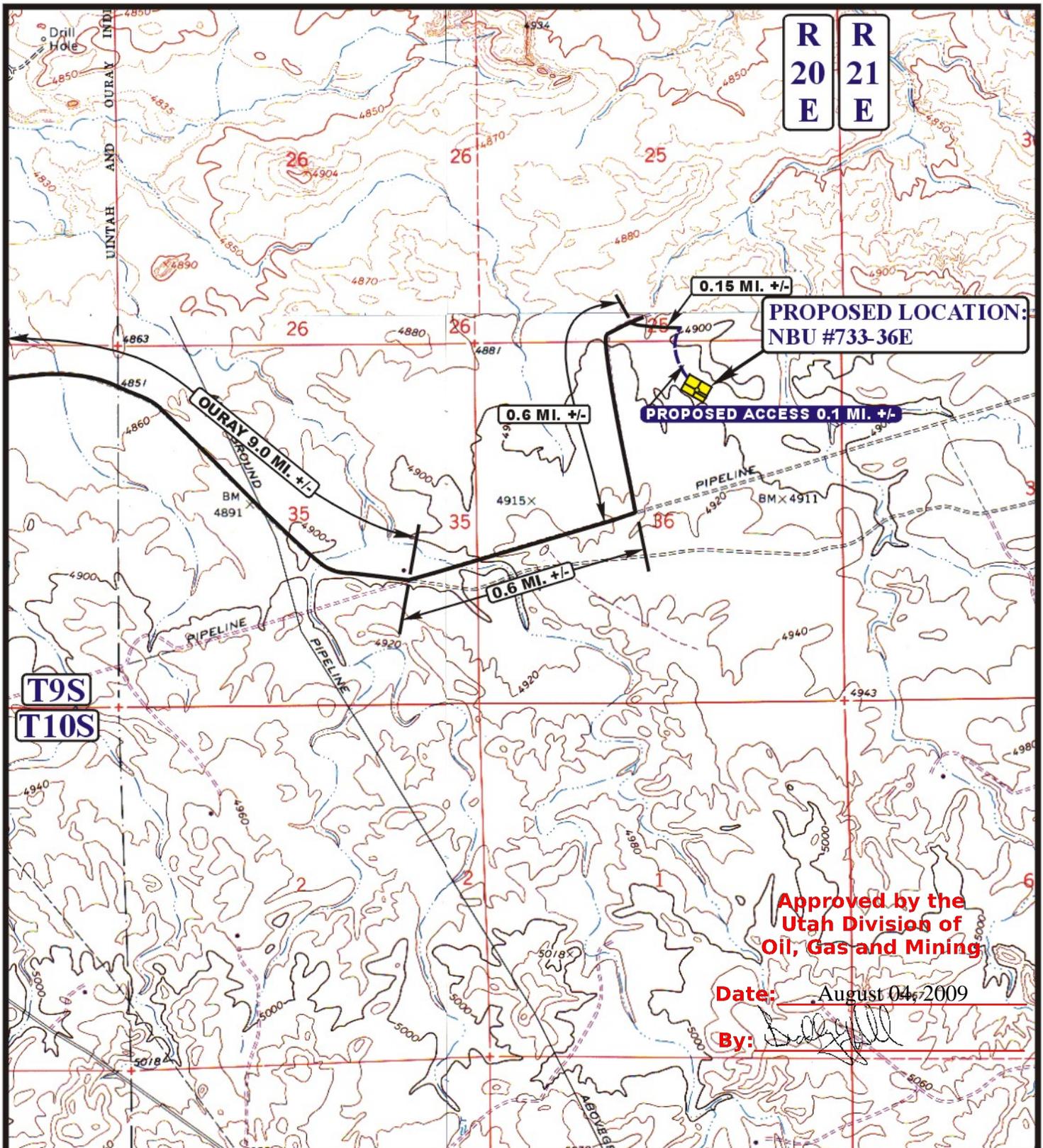
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **03 24 08**  
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 06-24-08 J.J.





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



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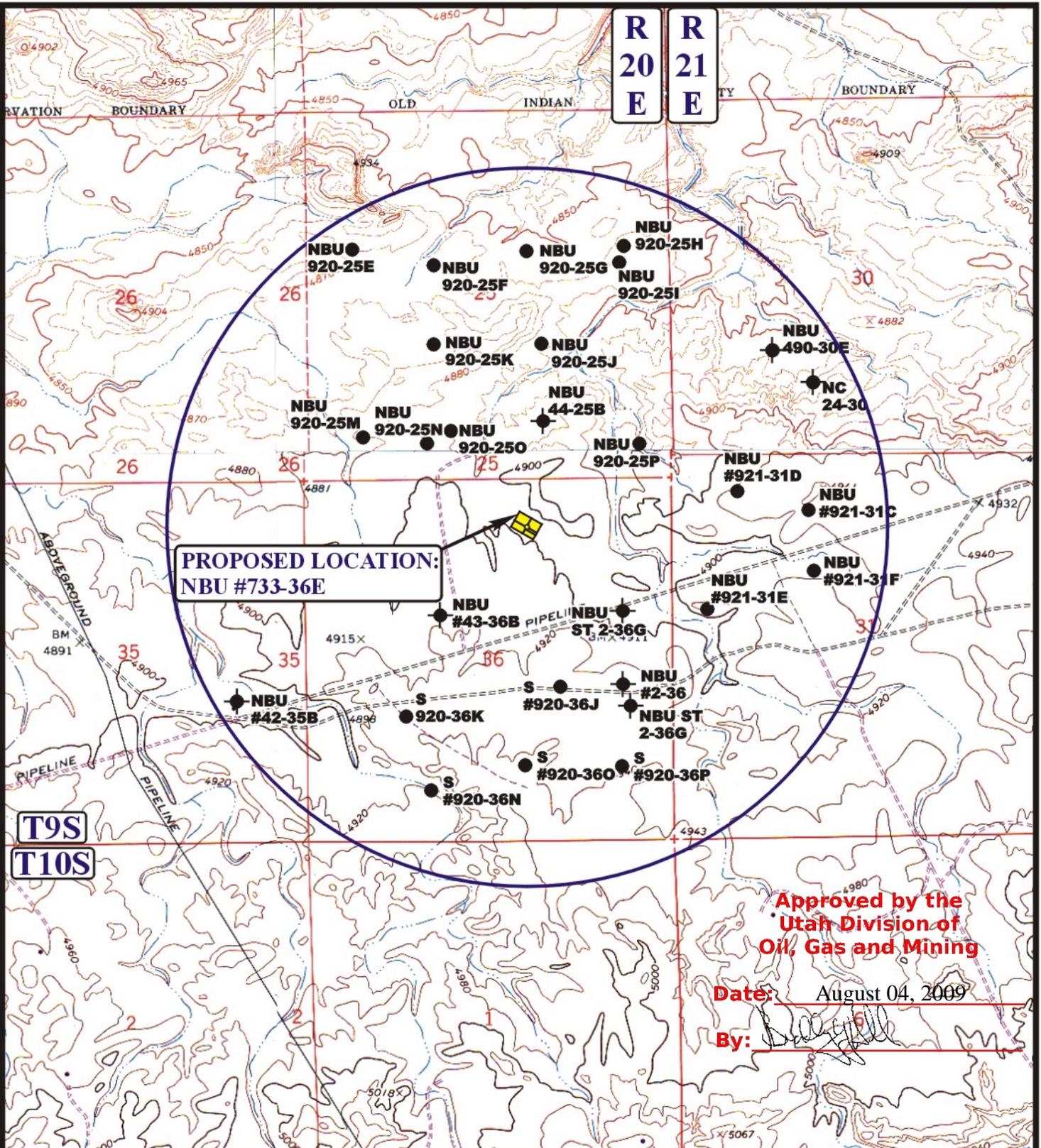
**EOG RESOURCES, INC.**

NBU #733-36E  
 SECTION 36, T9S, R20E, S.L.B.&M.  
 775' FNL 2134' FEL

<b>TOPOGRAPHIC MAP</b>	<b>03</b>	<b>24</b>	<b>08</b>
	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: Z.L.		REV: 06-24-08 J.J.



R 20  
E R 21  
E



**PROPOSED LOCATION:**  
NBU #733-36E

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: August 04, 2009

By: *[Signature]*

T9S  
T10S

**LEGEND:**

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



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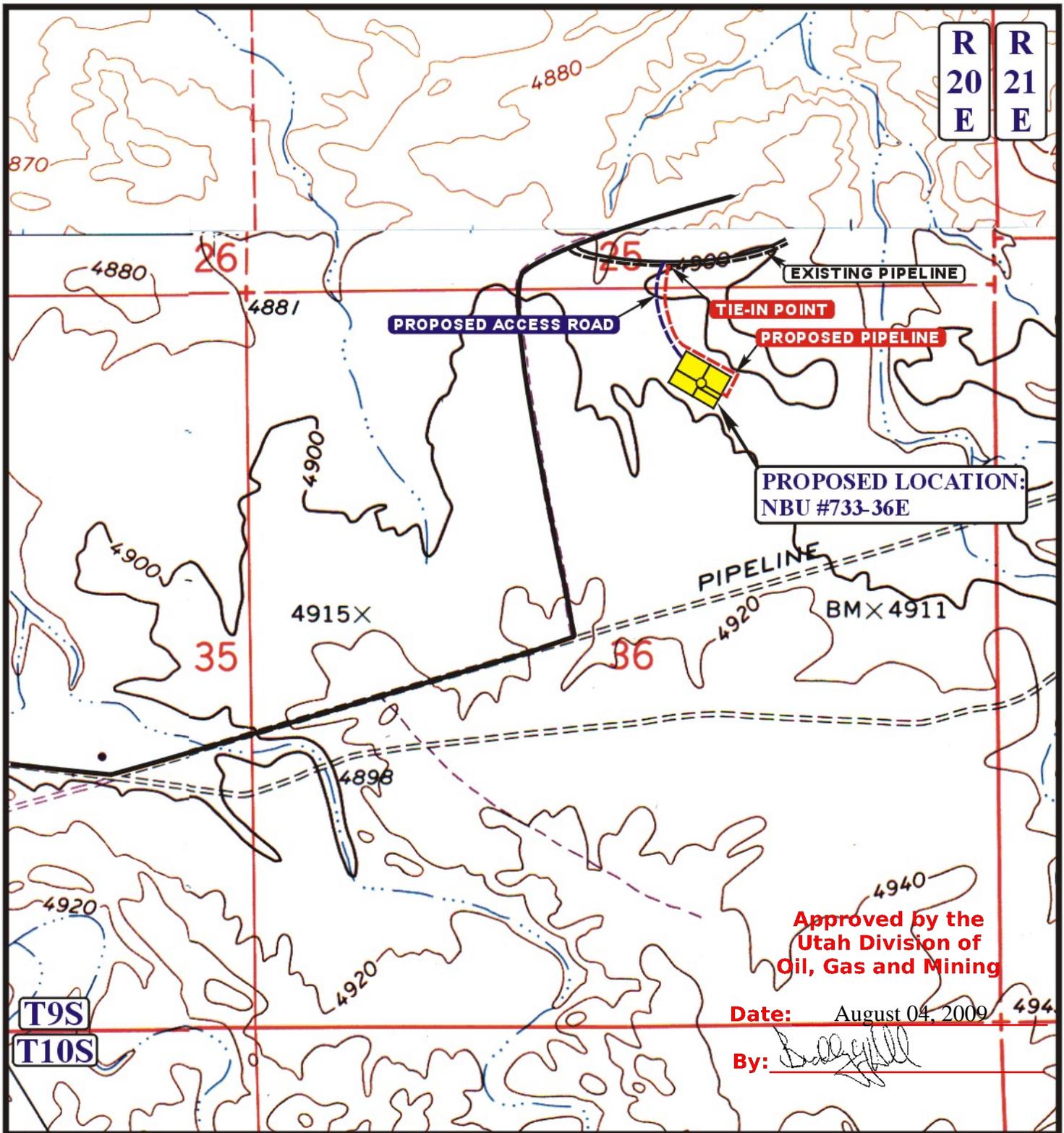


**EOG RESOURCES, INC.**

NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

TOPOGRAPHIC MAP 03 24 08  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





R 20 E R 21 E

PROPOSED LOCATION:  
NBU #733-36E

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: August 04, 2009

By: *[Signature]*

APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-

**LEGEND:**

	PROPOSED ACCESS ROAD
	EXISTING PIPELINE
	PROPOSED PIPELINE

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



**EOG RESOURCES, INC.**  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

**TOPOGRAPHIC MAP** 03 24 08  
MONTH DAY YEAR  
SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 J.J. **D TOPO**

EOG RESOURCES, INC.  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.6 TO THE JUNCTION OF THIS ROAD AND A EXISTING ROAD TO THE EAST; TURN RIGHT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.45 MILES.

# EOG RESOURCES, INC.

NBU #733-36E

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T9S, R20E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



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

LOCATION PHOTOS	03	24	08	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: Z.L.	REV: 06-24-08 J.J.		

**RECEIVED** July 29, 2009

# T9S, R20E, S.1.B.&M.

## EOG RESOURCES, INC.

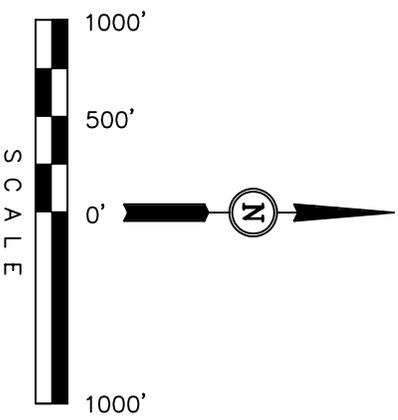
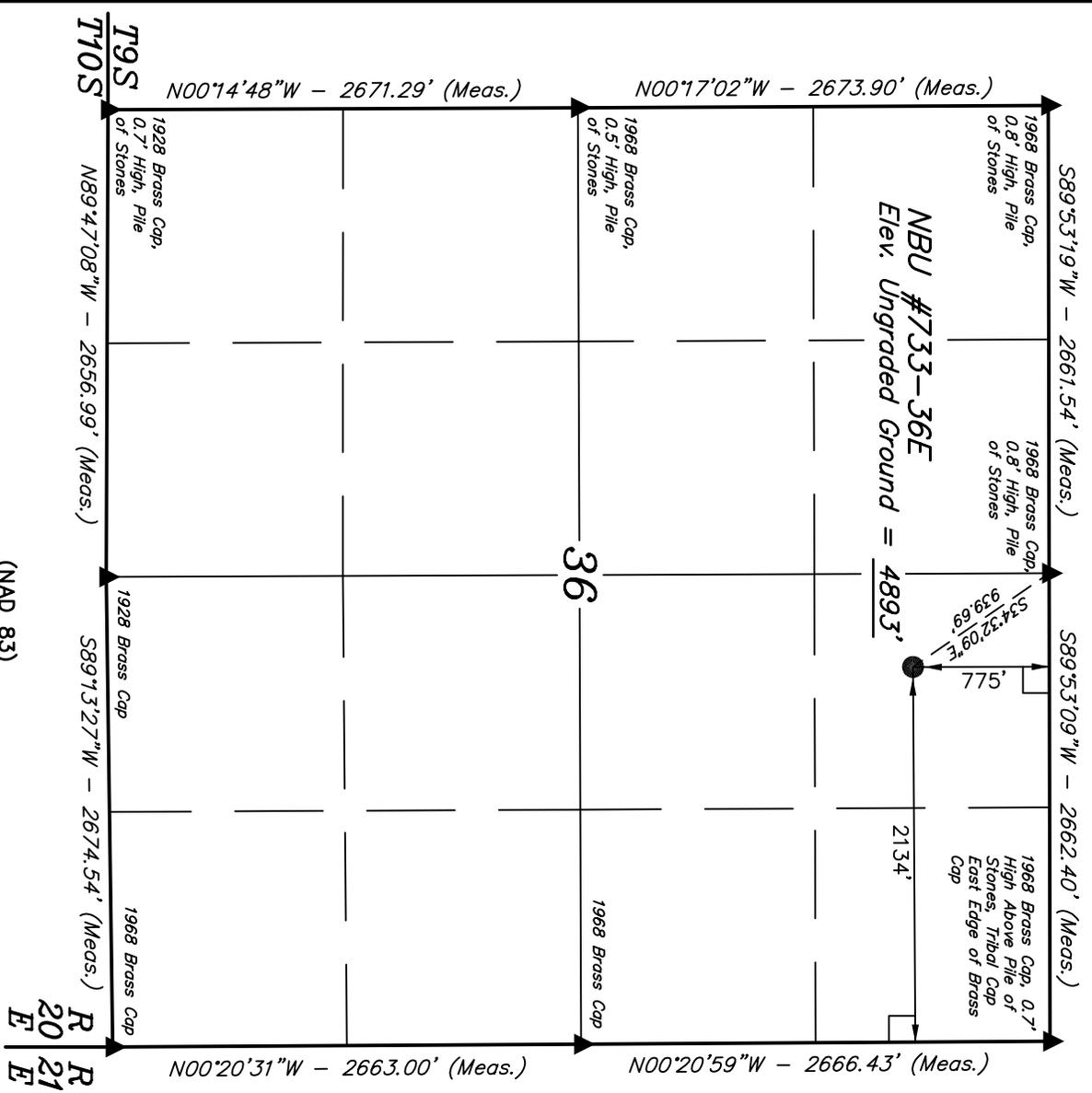
Well location, NBU #733-36E, located as shown in the NW 1/4 NE 1/4 of Section 36, T9S, R20E, S.1.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.1.B.&M. TAKEN FROM THE BIG PAK 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.

### BASIS OF BEARINGS

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



### CERTIFICATE

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

*Kathy E. Johnson*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 181319  
 STATE OF UTAH

REVISED: 06-02-08 C.H.

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

SCALE	1" = 1000'	DATE SURVEYED:	03-19-08	DATE DRAWN:	03-21-08
-------	------------	----------------	----------	-------------	----------

PARTY	C.R.	C.M.	C.N.	REFERENCES
				G.L.O. PLAT

WEATHER	COLD	FILE	EOG RESOURCES, INC.
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### LEGEND:

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

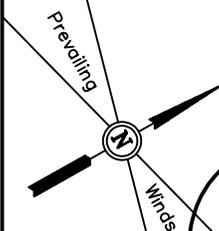
(NAD 83)  
 LATITUDE = 39°59'47.97" (39.996658)  
 LONGITUDE = 109°36'45.46" (109.612628)  
 (NAD 27)  
 LATITUDE = 39°59'48.10" (39.996694)  
 LONGITUDE = 109°36'42.97" (109.611936)

EOG RESOURCES, INC.

LOCATION LAYOUT FOR

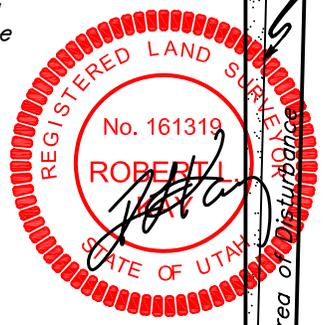
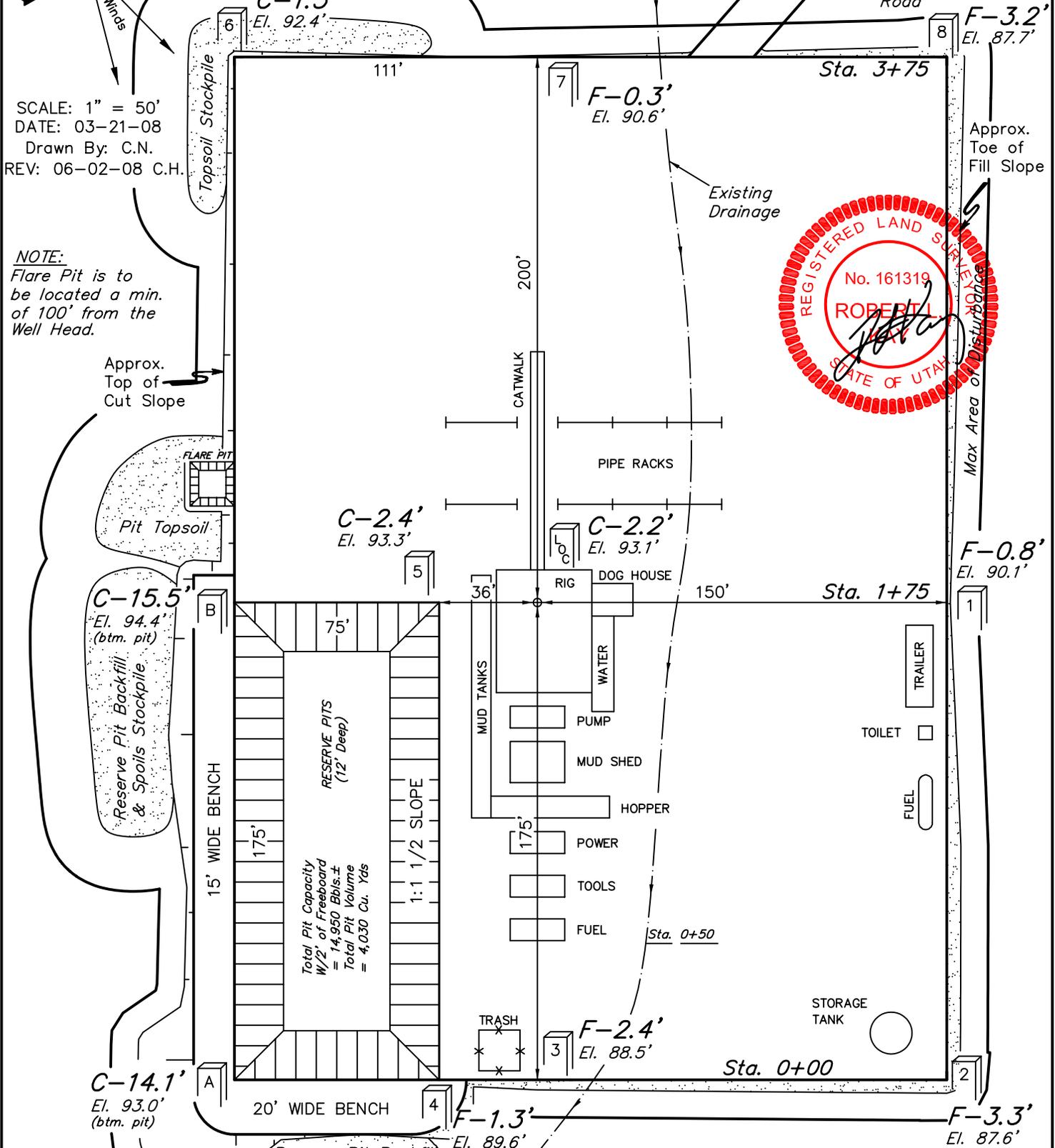
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #1



SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.

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



Elev. Ungraded Ground at Location Stake = 4893.1'  
Elev. Graded Ground at Location Stake = 4890.9'

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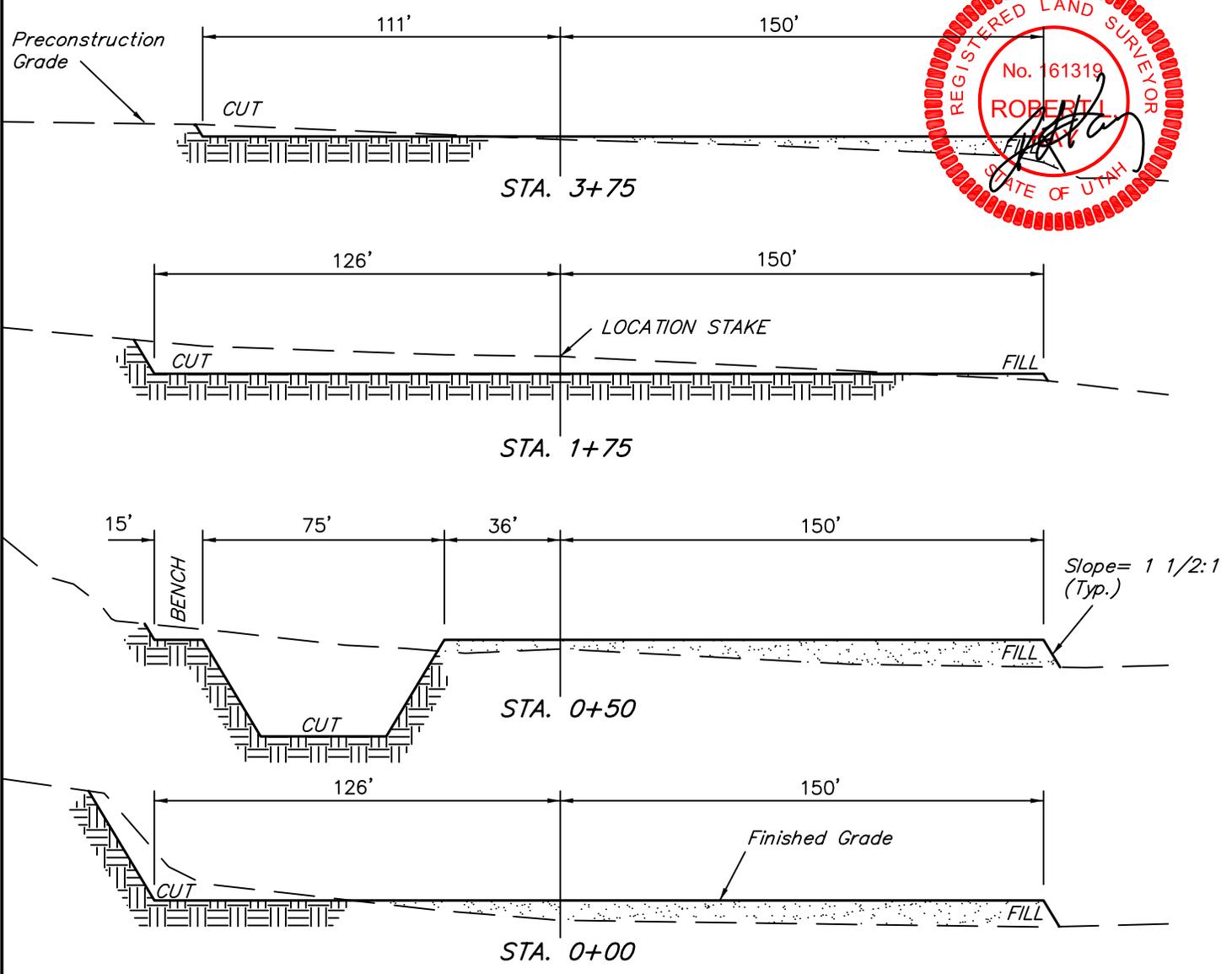
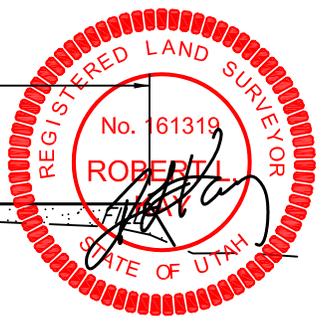
RECEIVED July 29, 2009

**EOG RESOURCES, INC.**  
**TYPICAL CROSS SECTIONS FOR**  
**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**FIGURE #2**

DATE: 03-21-08  
 Drawn By: C.N.  
 REV: 06-02-08 C.H.

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



APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.603 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.479 ACRES  
 PIPELINE DISTURBANCE = ± 0.872 ACRES  
**TOTAL = ± 3.954 ACRES**

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

\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

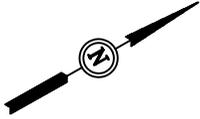
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 Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,090 Cu. Yds.  
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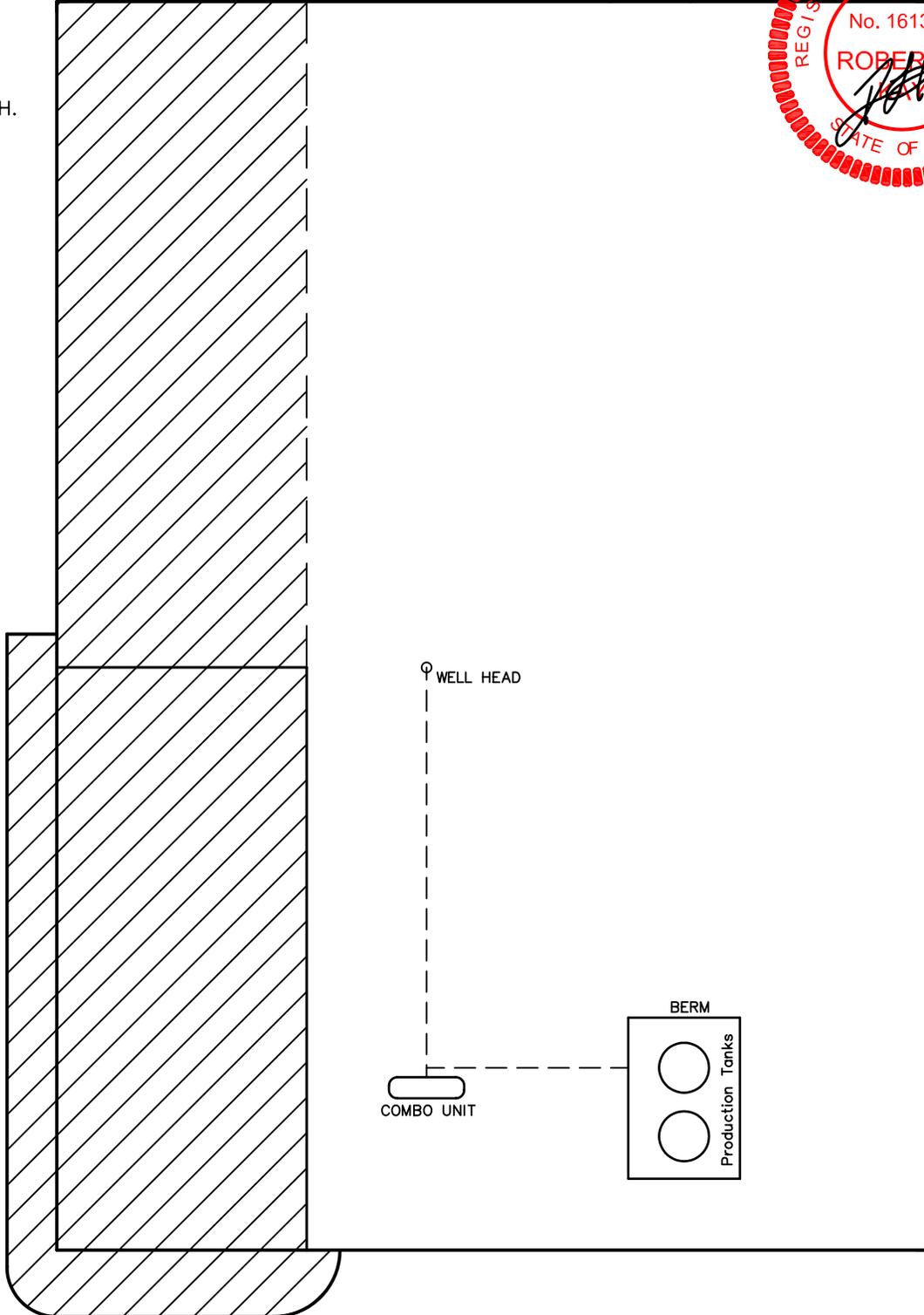
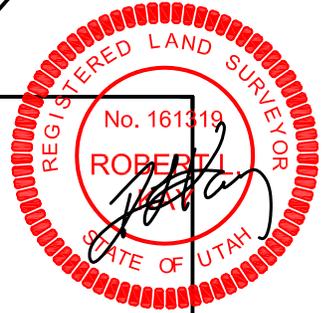
EOG RESOURCES, INC.  
PRODUCTION FACILITY LAYOUT FOR  
NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL

FIGURE #3



Access  
Road

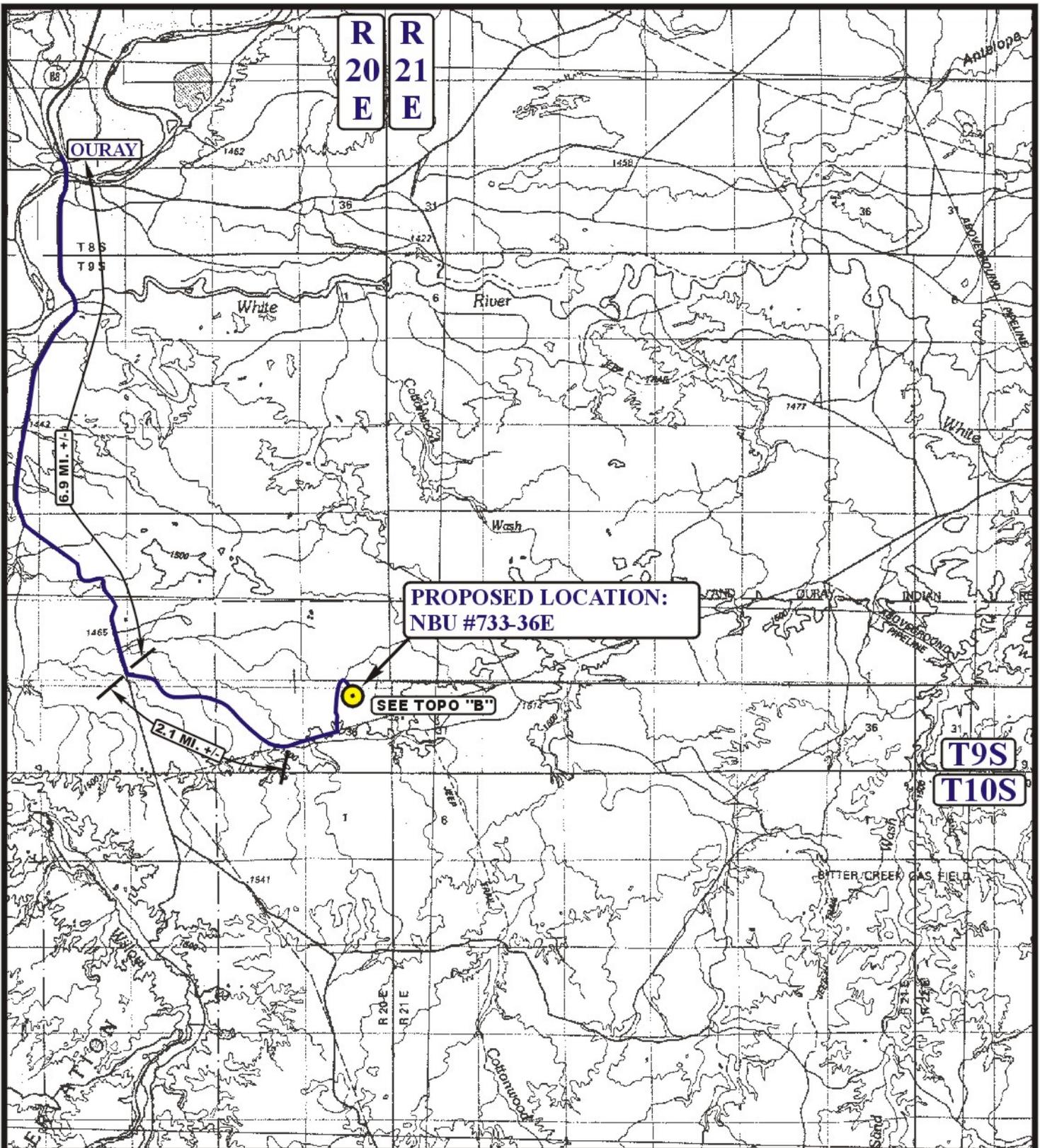
SCALE: 1" = 50'  
DATE: 03-21-08  
Drawn By: C.N.  
REV: 06-02-08 C.H.



 RE-HABED AREA

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85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED July 29, 2009



**LEGEND:**

 PROPOSED LOCATION



**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

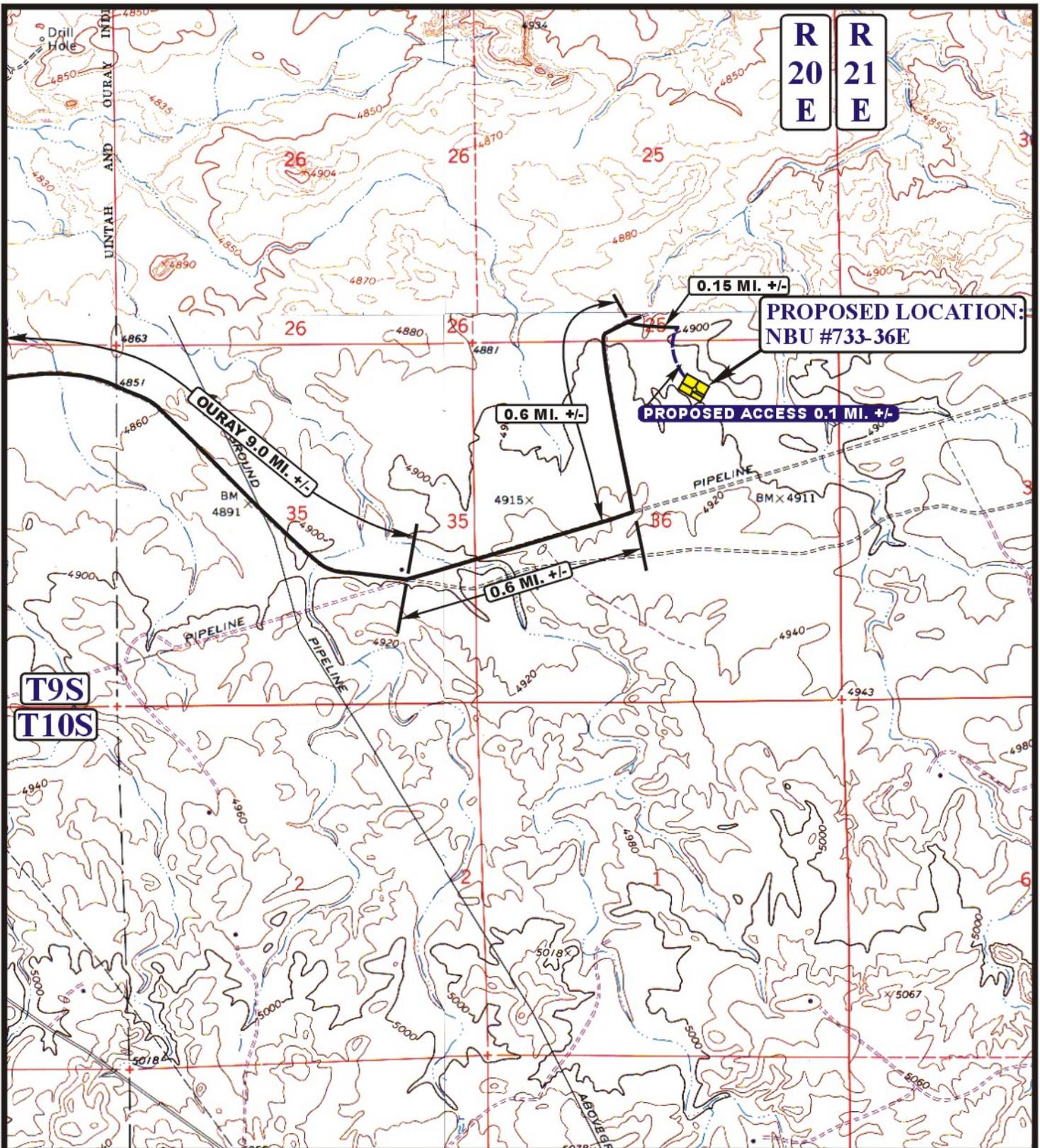


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 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **03 24 08**  
**MAP** MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REV: 06-24-08 J.J.





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



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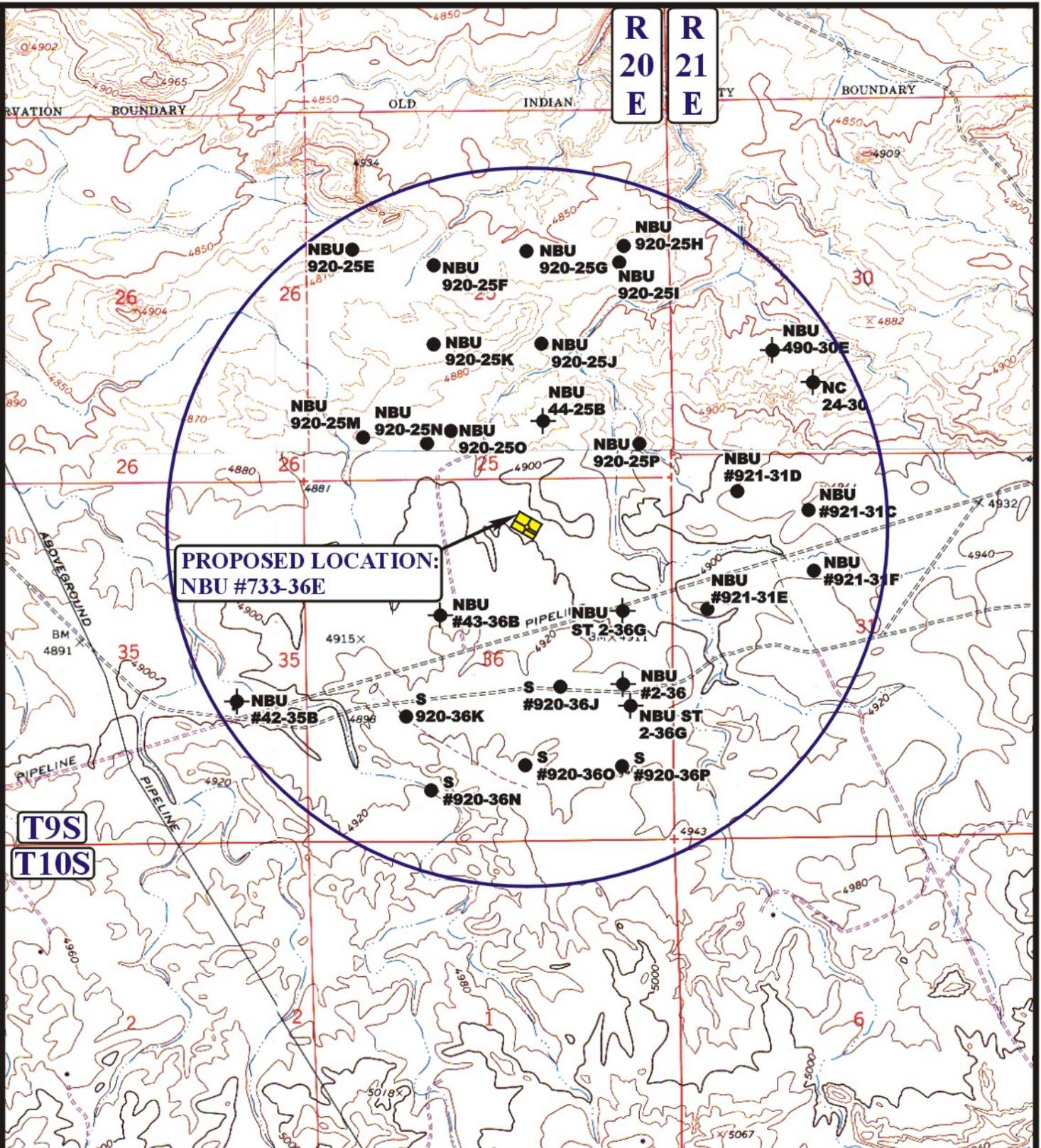


**EOG RESOURCES, INC.**

**NBU #733-36E**  
**SECTION 36, T9S, R20E, S.L.B.&M.**  
**775' FNL 2134' FEL**

**TOPOGRAPHIC MAP** 03 24 08  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**PROPOSED LOCATION:  
NBU #733-36E**

**LEGEND:**

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



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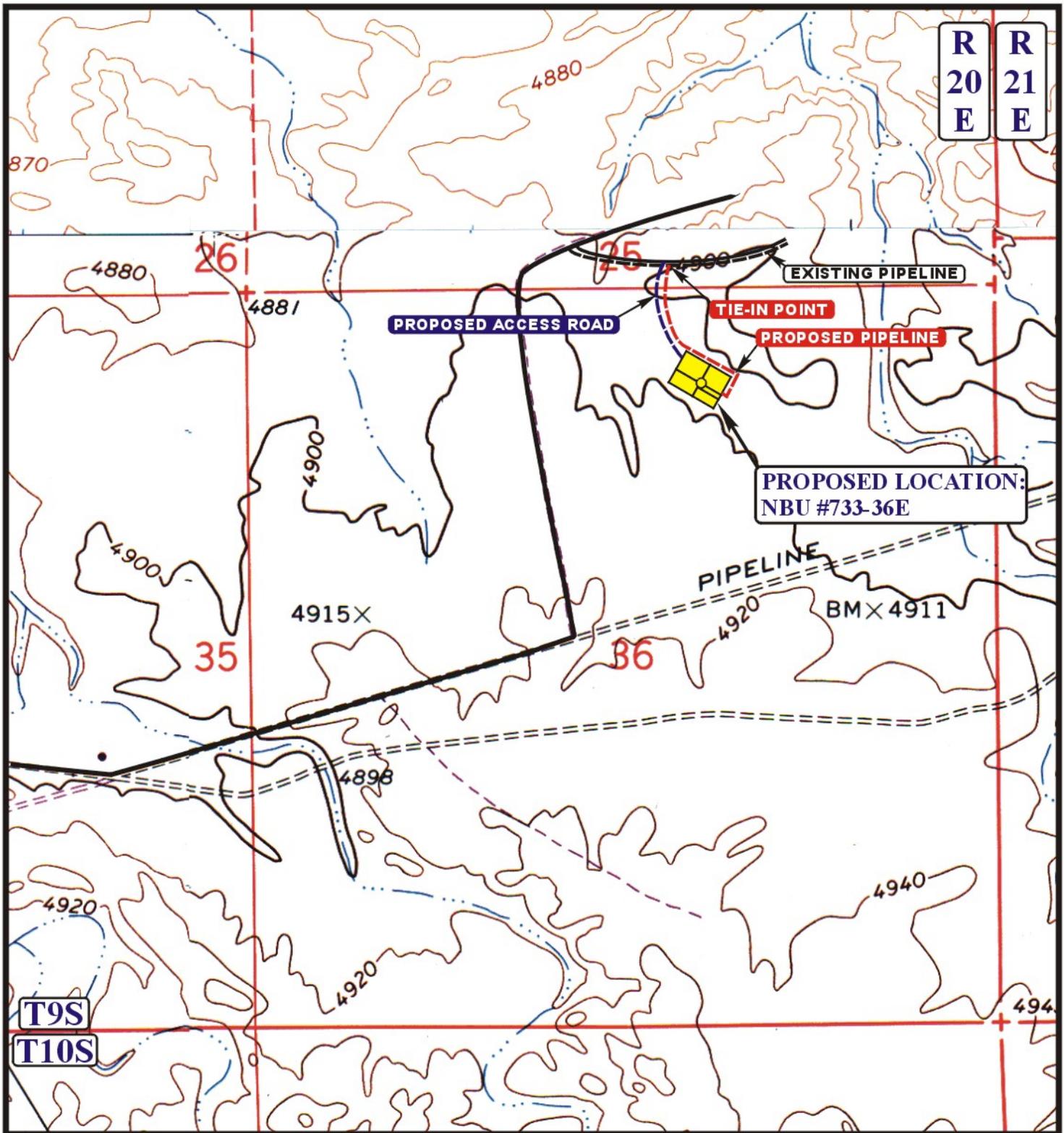
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**TOPOGRAPHIC MAP**

**03 24 08**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 06-24-08 J.J.





**APPROXIMATE TOTAL PIPELINE DISTANCE 1266' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**EOG RESOURCES, INC.**

**NBU #733-36E  
SECTION 36, T9S, R20E, S.L.B.&M.  
775' FNL 2134' FEL**



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**TOPOGRAPHIC MAP** 03 24 08  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 03-24-08 J.J.



<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-3140.5
<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 733-36E
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.	<b>9. API NUMBER:</b> 43047500420000
<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> 0775 FNL 2134 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNE Section: 36 Township: 09.0S 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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 7/10/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input 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 checked="" 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.**

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

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

**Date:** July 13, 2010

**By:**

<b>NAME (PLEASE PRINT)</b> Danielle Piernot	<b>PHONE NUMBER</b> 720 929-6156	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/7/2010	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047500420000**

**API:** 43047500420000

**Well Name:** NBU 733-36E

**Location:** 0775 FNL 2134 FEL QTR NWNE SEC 36 TWNP 090S RNG 200E MER S

**Company Permit Issued to:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 7/10/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

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

**Signature:** Danielle Piernot

**Date:** 7/7/2010

**Title:** Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date:** July 13, 2010

**By:** 



GARY R. HERBERT  
Governor

GREGORY S. BELL  
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

August 3, 2011

Kerr McGee Oil & Gas Onshore, L.P.  
P.O. Box 173779  
Denver, CO 80217

43 047 50042  
NBU 733-36E  
9S 20E 30

Re: APDs Rescinded for Kerr McGee Oil & Gas Onshore, L.P.  
Uintah County

Ladies and Gentlemen:

Enclosed find the list of APDs that are being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective August 3, 2011.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Ed Bonner, SITLA

43-047-39522	Tribal 822-31O
43-047-50037	NBU 495-31E
43-047-50038	NBU 731-36E
43-047-50039	NBU 735-36E
43-047-50040	NBU 743-31E
→ 43-047-50042	NBU 733-36E
43-047-37957	State 921-32N
43-047-37958	State 921-32O
43-047-39033	NBU 1022-25H
43-047-39034	State 1022-25I
43-047-39402	NBU 921-34MT