

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER NORTH DUCK CREEK 346-24				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WONSITS VALLEY				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR EOG Resources, Inc.						7. OPERATOR PHONE 435 781-9111				
8. ADDRESS OF OPERATOR 600 17th Street, Suite 1000 N, Denver, CO, 80202						9. OPERATOR E-MAIL kaylene_gardner@eogresources.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU9613			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') UTE INDIAN TRIBE			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		631 FSL 869 FEL		SESE	24	8.0 S	21.0 E	S		
Top of Uppermost Producing Zone		631 FSL 869 FEL		SESE	24	8.0 S	21.0 E	S		
At Total Depth		631 FSL 869 FEL		SESE	24	8.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 631			23. NUMBER OF ACRES IN DRILLING UNIT 1920				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 5260			26. PROPOSED DEPTH MD: 11980 TVD: 11980				
27. ELEVATION - GROUND LEVEL 4761			28. BOND NUMBER NM2308			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Water Right # 49-225 (A31368)				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	12.25	9.625	0 - 3100	36.0	J-55 ST&C	0.0	Type III	200	4.1	10.5
							Type V	135	1.18	15.6
Prod	7.875	4.5	0 - 11980	11.6	P-110 LT&C	10.5	Halliburton Premium , Type Unknown	215	1.61	12.5
							50/50 Poz	240	1.47	13.5
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					
NAME Kaylene Gardner			TITLE Regulatory Administrator			PHONE 435 781-9111				
SIGNATURE			DATE 11/04/2011			EMAIL kaylene_gardner@eogresources.com				
API NUMBER ASSIGNED 43047521700000			APPROVAL			 Permit Manager				

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Green River	2,228		Shale	
Birdsnest Zone	2,482		Dolomite	
Mahogany Oil Shale Bed	3,118		Shale	
Wasatch	5,578		Sandstone	
Chapita Wells	6,207		Sandstone	
Buck Canyon	6,927	Secondary	Sandstone	Gas
North Horn	7,598	Primary	Sandstone	Gas
KMV Price River	8,757	Primary	Sandstone	Gas
KMV Price River Middle	9,506	Primary	Sandstone	Gas
KMV Price River Lower	10,313	Primary	Sandstone	Gas
Sego	10,798	Secondary	Sandstone	Gas
KMV Castlegate	10,973		Sandstone	
Base Castlegate SS	11,206		Sandstone	
KMV Black Hawk	11,315	Primary	Sandstone	Gas
TD	11,980			

Estimated TD: 11,980' or 200'± below TD**Anticipated BHP: 7,476 psi**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,228 ft ±.
2. Cement to be installed to surface of the well isolating all zones.

3. PRESSURE CONTROL EQUIPMENT:Intermediate/Production Hole – 5000 psi
BOP schematic diagrams attached.**4. CASING PROGRAM:****All casing will be new or inspected.****Note:**

- **12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" casing to that depth as detailed below. Drilled depth may be shallower or deeper than the 3100' shown below, depending on the actual depth of the loss zone.**
- **Below the 9 5/8" surface casing EOG will drill an 8.75" hole to ± 7500'. At this point, EOG will determine whether wellbore conditions encountered (sloughing/swelling shales, key seat development, and lost circulation) will warrant running a 7" intermediate casing string to this depth in order to reach the proposed TD for the well. Determination to run intermediate casing will be made by the EOG Resources Drilling Engineer, Drilling Superintendent, and Drilling Manager. In the event that intermediate casing is run, all regulatory agencies will be properly notified. If intermediate casing is run, EOG Resources will properly cement the 7" casing, then drill the remaining production hole below it to TD with a 6.25" bit and run and cement 4 1/2" production casing at TD. If**

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**4. CASING PROGRAM (cont'd):**

intermediate casing is not needed, EOG will remove the 8.75" bit at ± 7500' and drill the remainder of the production hole with a 7.875" bit to TD, then run and cement 4 ½" production casing at TD. Casing string and cementing details for these options are shown in the Casing Program and Cement Program sections below.

If Intermediate Casing string is required, casing program will be as follows:

<u>Casing</u>	<u>Hole Size</u>	<u>Length</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Collapse Rating</u>	<u>Burst Rating</u>	<u>Tensile Rating</u>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 psi	1,730 psi	322,000#
Surface	12.25"	0 – 3100' KB±	9.625"	36.0#	J-55	STC	2,020 psi	3,520 psi	394,000#
Intermediate	8.75"	0 - 7500' KB±	7"	23.0#	HC N-80	LTC	5,650 psi	6,340 psi	485,000#
Production	6.25"	Surface – TD	4.5"	11.6#	HC P-110	LTC	8,650 psi	10,690 psi	279,000#

If Intermediate Casing string is not run, casing program will be as follows:

<u>Casing</u>	<u>Hole Size</u>	<u>Length</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Collapse Rating</u>	<u>Burst Rating</u>	<u>Tensile Rating</u>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 psi	1,730 psi	322,000#
Surface	12.25"	0 – 3100' KB±	9.625"	36.0#	J-55	STC	2,020 psi	3,520 psi	394,000#
Production	8.75" / 7.875"	Surface – TD	4.5"	11.6#	HC P-110	LTC	8,650 psi	10,690 psi	279,000#

5. FLOAT EQUIPMENT:**Surface Casing (0' - 3100'±)**

Guide Shoe

Insert Float Collar

Centralizers: 1 in middle of shoe joint, then top of every joint for next 7 joints. (8 total)

Intermediate Casing (0' - 7500'±) (If Run)

Float shoe, 1 joint of casing, float collar and balance of casing to surface. Conventional bow-spring centralizer to be placed 5' above shoe on joint #1 and on top of joints #2 & #3, then every 5th joint to 400' above the top of the Wasatch. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint.

Production Casing (0' - TD):

Float shoe, 1 joint of casing, float collar and balance of casing to surface. 4-½", 11.6#, HC P-110 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every 3rd joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint.

DRILLING PLAN

NORTH DUCK CREEK 346-24
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH

6. MUD PROGRAM:

Surface Hole (Surface - 3100'±):

Air/Air mist/Aerated water* (*A standby water source will be available at all times to act as a kill medium when conducting air drilling operations)

or

A closed-loop system utilizing a gelled bentonite mud will be employed.
LCM sweeps, additions, etc. will be used as necessary.

Intermediate Hole (3100' - 7500'±):

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed-loop 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.

Production Hole (7500'± - TD):

Anticipated mud weight 9.5 – 12.0 ppg depending on actual wellbore conditions encountered while drilling.

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 <10cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 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:

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

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**9. CEMENT PROGRAM:****Surface Casing (Surface - 3100'±):**

Lead: Lead volume to be calculated to bring cement from 500' above casing shoe to surface. Lead cement will be:

200 sx. HES VariCem (Type III) + 2% Cal-Seal (Thixotropic Additive) + 0.3% Versaset (Thixotropic Additive) + 2% Econolite (Light Weight Additive), mixed at 10.5 ppg, 4.10 cfps, 26.88 gps fresh water

Tail: Tail volume to be calculated to bring cement 500' above casing shoe. Tail cement will be:

135 sx. HES HalCem (Type V) + 2% CaCl₂ (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water

Top Out: As necessary with:

HES HalCem (Type V) + 2% CaCl₂ (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water

Note: The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess on the lead slurry and gauge hole + 100% excess on the tail slurry.

Intermediate Casing (3100'± - 7500'±) (If Run)

Lead: Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at intermediate casing point and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **140 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **165 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **190 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **215 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

210 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

Tail: Tail volume to be calculated to bring cement from 7500'± to 400' above top of Wasatch Formation. Tail cement will be:

240 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: Above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 50% excess on lead slurry, gauge hole + 70% excess on the tail slurry.

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**9. CEMENT PROGRAM (cont'd):****Production Casing (7500'± - TD) (With Intermediate Casing String Run)**

Slurry volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation inside the 7" X 4 1/2" casing annulus. Cement will be:

855 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess in the open hole and 0% excess in the 7" X 4 1/2" casing annulus.

Production Casing (3100'± - TD) (Without Intermediate Casing String)

Lead: Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **280 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **330 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **385 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **435 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

430 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

Tail: Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

1180 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

DRILLING PLAN

NORTH DUCK CREEK 346-24
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH

10. ABNORMAL CONDITIONS:

Surface Hole (Surface - 3100'±):

Lost circulation

Intermediate / Production Hole (3100'± - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation. Black Hawk formation pressure 12.0 ppg EMW.

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)

T8S, R21E, S.L.B.&M.

EOG RESOURCES, INC.

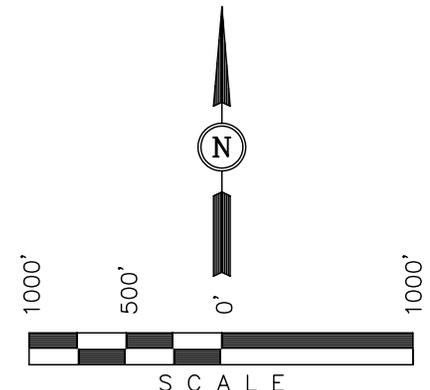
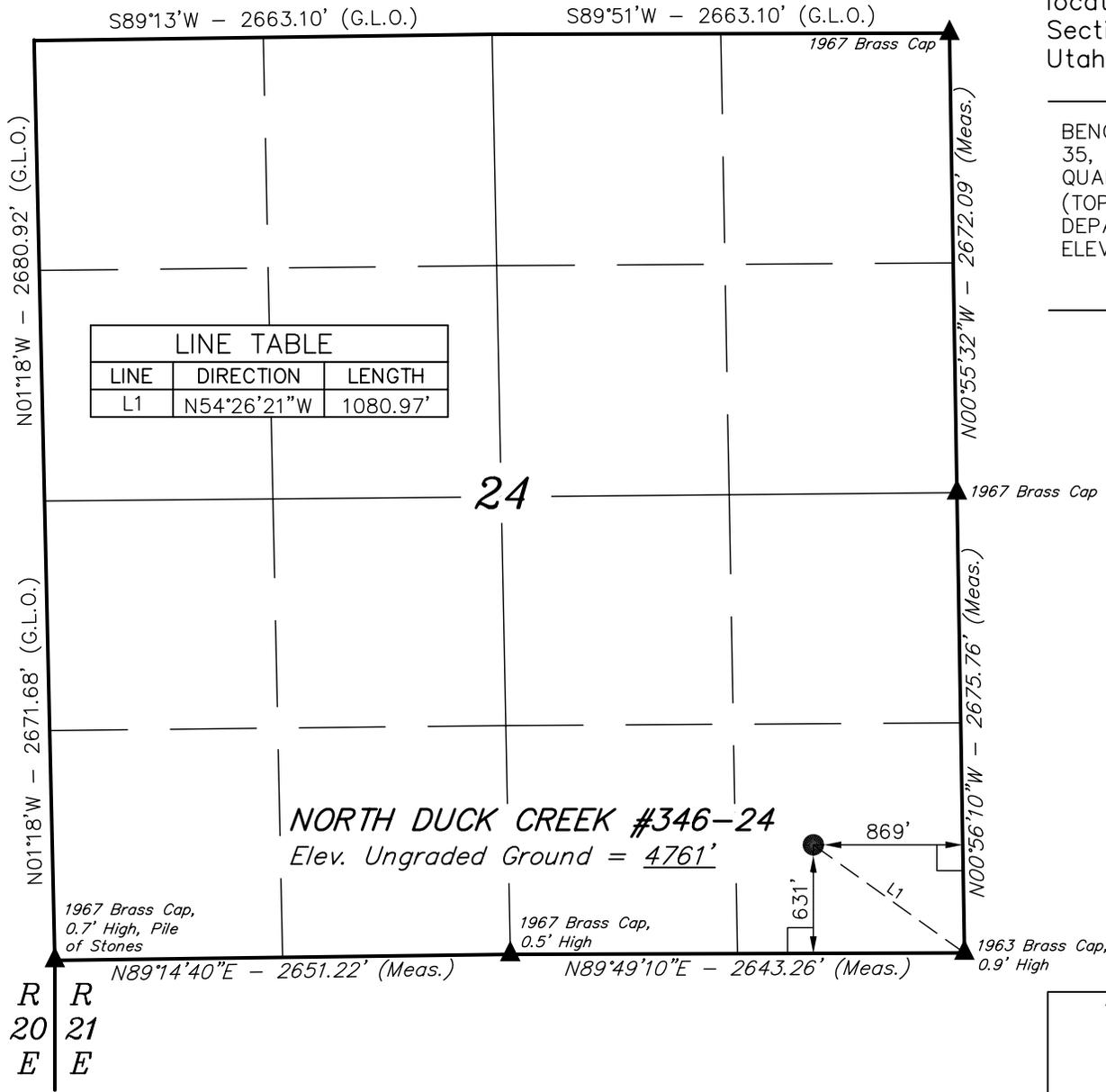
Well location, NORTH DUCK CREEK #346-24, located as shown in the SE 1/4 SE 1/4 of Section 24, T8S, R21E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

BENCH MARK 20EAM LOCATED IN THE SE 1/4 OF SECTION 35, T8S, R21E, S.L.B.&M. TAKEN FROM THE OURAY SE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4697 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 L. KAY
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

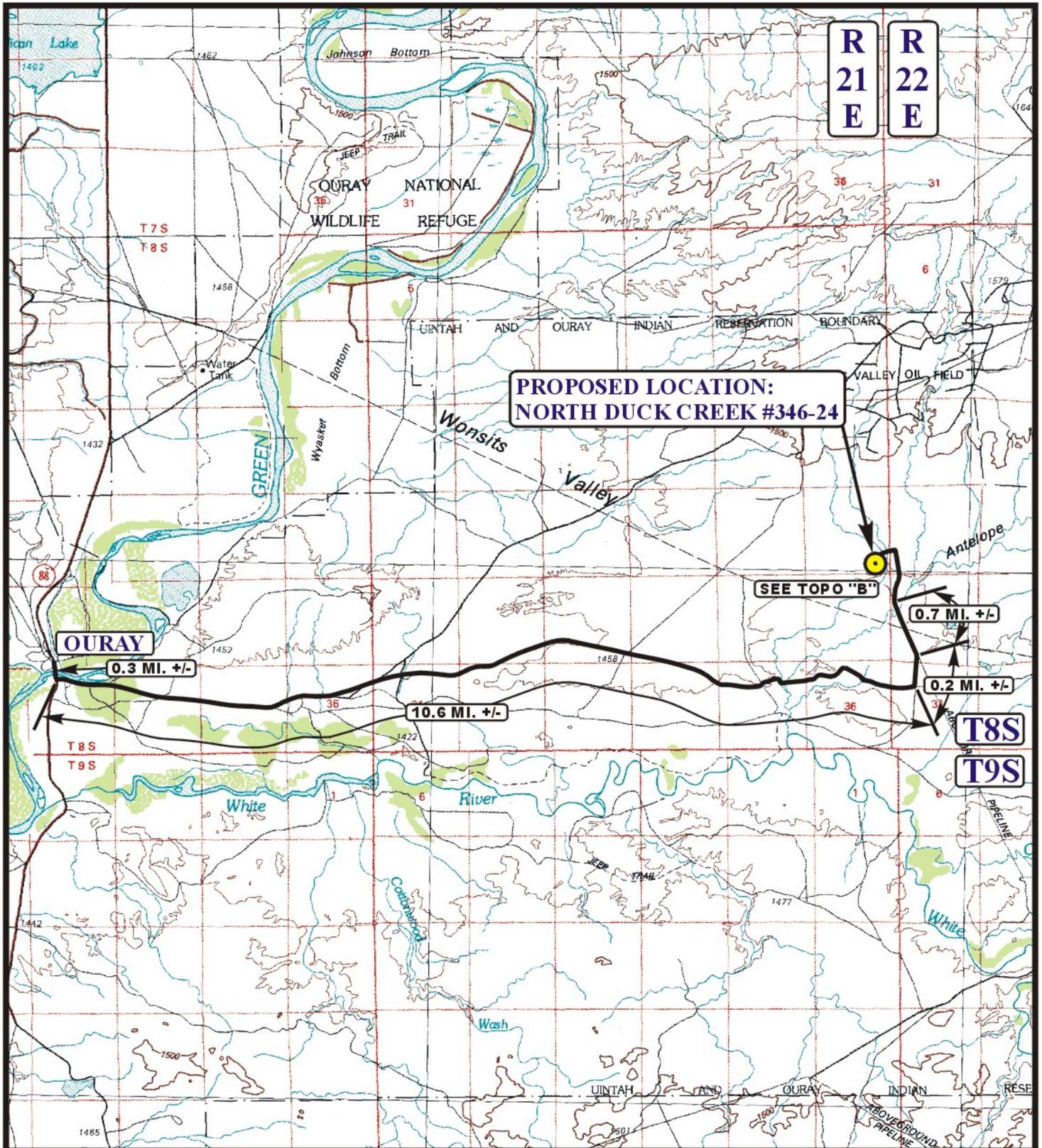
UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 11-15-10	DATE DRAWN: 12-1-10
PARTY G.S. T.H. J.I.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE EOG RESOURCES, INC.	

LEGEND:

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

(NAD 83)
 LATITUDE = 40°06'12.91" (40.103586)
 LONGITUDE = 109°29'44.65" (109.495736)
 (NAD 27)
 LATITUDE = 40°06'13.04" (40.103622)
 LONGITUDE = 109°29'42.17" (109.495047)

RECEIVED: November 04, 2011



**PROPOSED LOCATION:
NORTH DUCK CREEK #346-24**

SEE TOPO "B"

0.7 MI. +/-

0.2 MI. +/-

0.3 MI. +/-

10.6 MI. +/-

LEGEND:

PROPOSED LOCATION



EOG RESOURCES, INC.

**NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL**



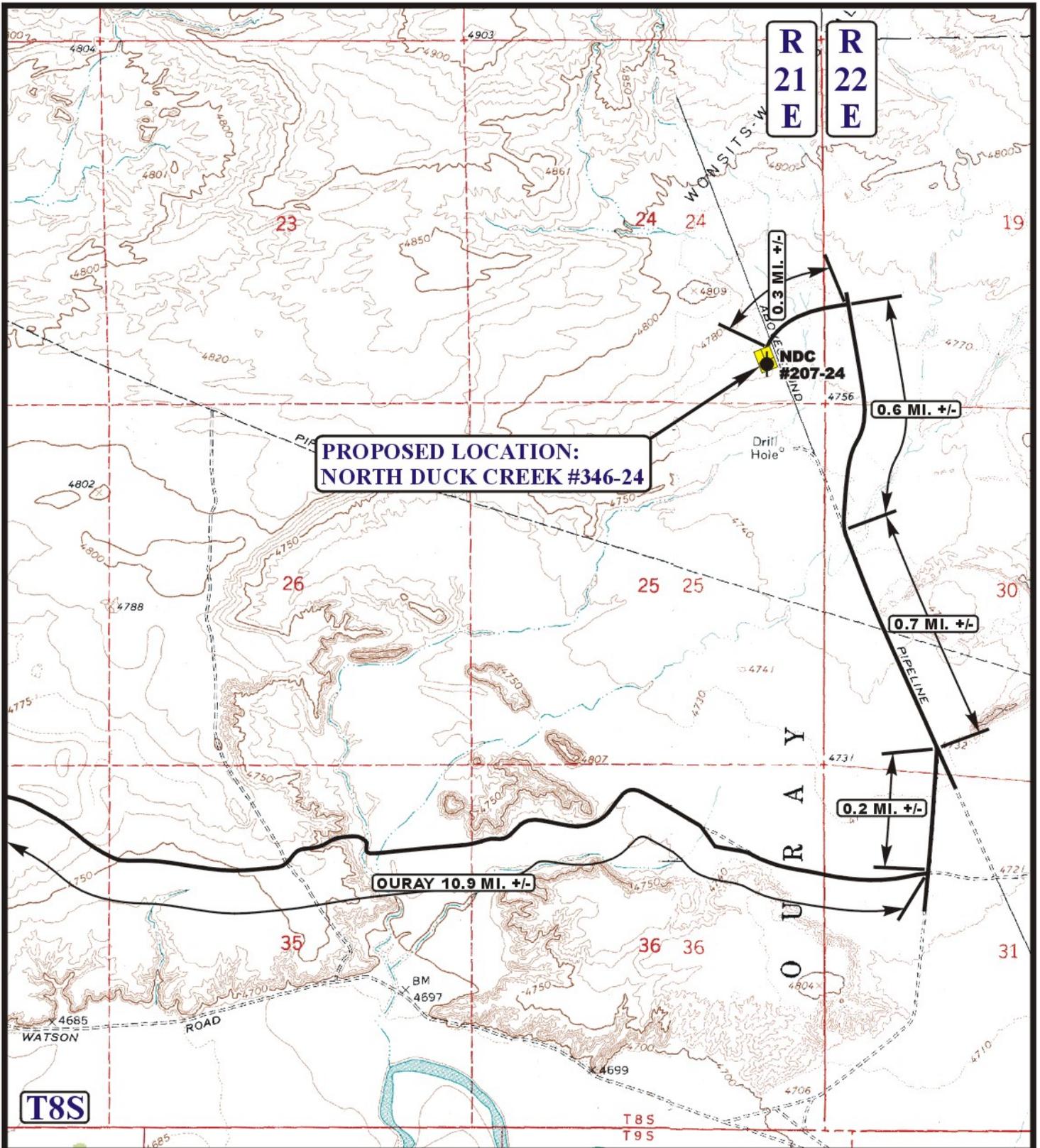
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

12 13 10
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





LEGEND:

————— EXISTING ROAD

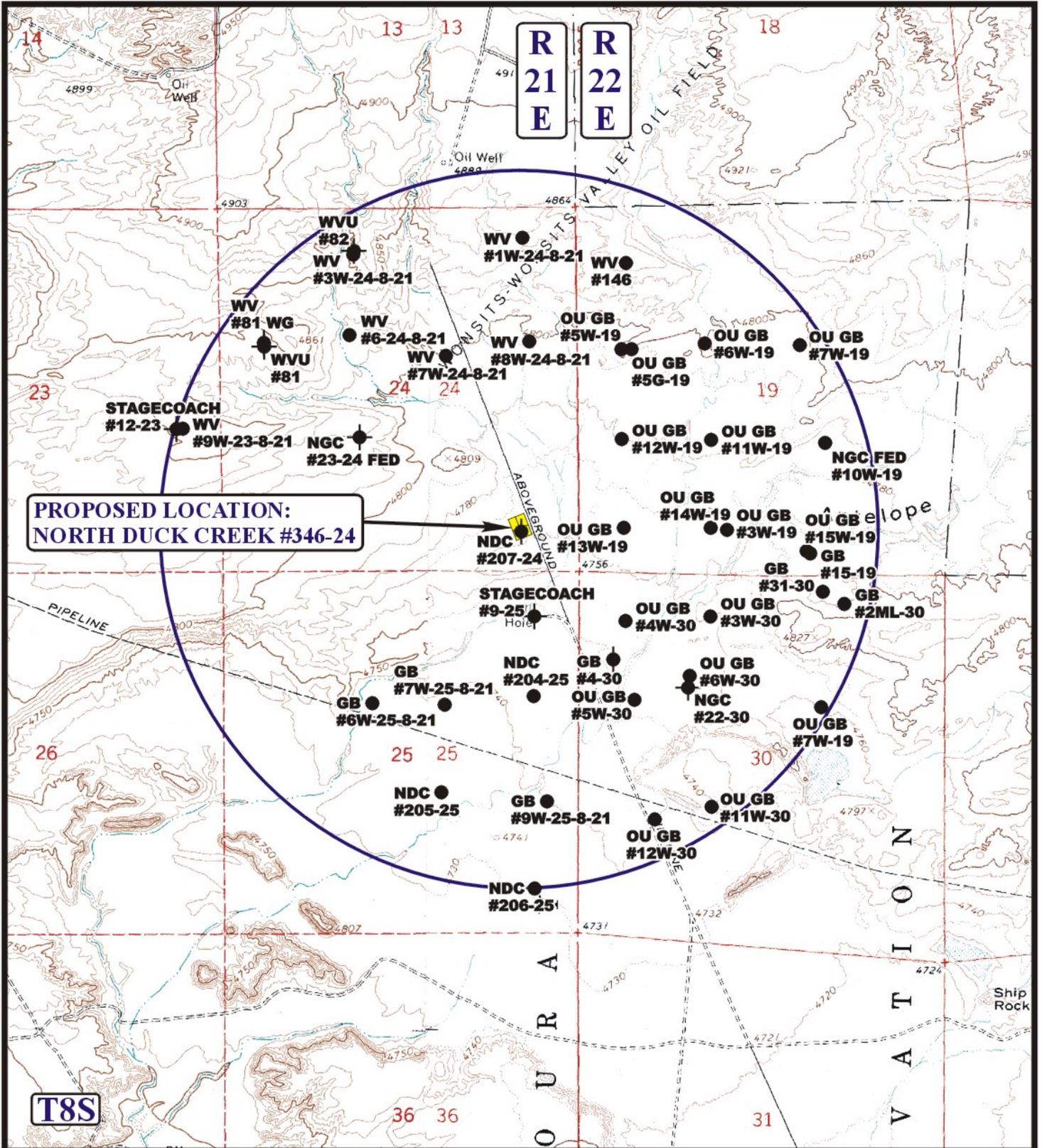


EOG RESOURCES, INC.

**NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL**

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

TOPOGRAPHIC 12 13 10
MAP MONTH DAY YEAR
SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00 **B**
TOPO



**PROPOSED LOCATION:
NORTH DUCK CREEK #346-24**

LEGEND:

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



EOG RESOURCES, INC.

**NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL**



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

**TOPOGRAPHIC
MAP**

12 13 10
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00



DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**1. & 2. ESTIMATED TOPS & ANTICIPATED OIL, GAS, & WATER ZONES:**

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KMV Price River	8,757	Primary	Sandstone	Gas
KMV Price River Middle	9,506	Primary	Sandstone	Gas
KMV Price River Lower	10,313	Primary	Sandstone	Gas
Sego	10,798	Secondary	Sandstone	Gas
KMV Castlegate	10,973		Sandstone	
Base Castlegate SS	11,206		Sandstone	
KMV Black Hawk	11,315	Primary	Sandstone	Gas
TD	11,980			

Estimated TD: 11,980' or 200'± below TD**Anticipated BHP: 7,476 psi**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,228 ft ±.
2. Cement to be installed to surface of the well isolating all zones.

3. PRESSURE CONTROL EQUIPMENT:Intermediate/Production Hole – 5000 psi
BOP schematic diagrams attached.**4. CASING PROGRAM:****All casing will be new or inspected.****Note:**

- **12-1/4" surface hole will be drilled to a total depth of 200'± below the base of the Green River lost circulation zone and cased with 9-5/8" casing to that depth as detailed below. Drilled depth may be shallower or deeper than the 3100' shown below, depending on the actual depth of the loss zone.**
- **Below the 9 5/8" surface casing EOG will drill an 8.75" hole to ± 7500'. At this point, EOG will determine whether wellbore conditions encountered (sloughing/swelling shales, key seat development, and lost circulation) will warrant running a 7" intermediate casing string to this depth in order to reach the proposed TD for the well. Determination to run intermediate casing will be made by the EOG Resources Drilling Engineer, Drilling Superintendent, and Drilling Manager. In the event that intermediate casing is run, all regulatory agencies will be properly notified. If intermediate casing is run, EOG Resources will properly cement the 7" casing, then drill the remaining production hole below it to TD with a 6.25" bit and run and cement 4 1/2" production casing at TD. If**

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**4. CASING PROGRAM (cont'd):**

intermediate casing is not needed, EOG will remove the 8.75" bit at ± 7500' and drill the remainder of the production hole with a 7.875" bit to TD, then run and cement 4 ½" production casing at TD. Casing string and cementing details for these options are shown in the Casing Program and Cement Program sections below.

If Intermediate Casing string is required, casing program will be as follows:

<u>Casing</u>	<u>Hole Size</u>	<u>Length</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Collapse Rating</u>	<u>Burst Rating</u>	<u>Tensile Rating</u>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 psi	1,730 psi	322,000#
Surface	12.25"	0 – 3100' KB±	9.625"	36.0#	J-55	STC	2,020 psi	3,520 psi	394,000#
Intermediate	8.75"	0 - 7500' KB±	7"	23.0#	HC N-80	LTC	5,650 psi	6,340 psi	485,000#
Production	6.25"	Surface – TD	4.5"	11.6#	HC P-110	LTC	8,650 psi	10,690 psi	279,000#

If Intermediate Casing string is not run, casing program will be as follows:

<u>Casing</u>	<u>Hole Size</u>	<u>Length</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Thread</u>	<u>Collapse Rating</u>	<u>Burst Rating</u>	<u>Tensile Rating</u>
Conductor	20"	0 – 60'	14"	48.0#	H-40	STC	770 psi	1,730 psi	322,000#
Surface	12.25"	0 – 3100' KB±	9.625"	36.0#	J-55	STC	2,020 psi	3,520 psi	394,000#
Production	8.75" / 7.875"	Surface – TD	4.5"	11.6#	HC P-110	LTC	8,650 psi	10,690 psi	279,000#

5. FLOAT EQUIPMENT:**Surface Casing (0' - 3100'±)**

Guide Shoe

Insert Float Collar

Centralizers: 1 in middle of shoe joint, then top of every joint for next 7 joints. (8 total)

Intermediate Casing (0' - 7500'±) (If Run)

Float shoe, 1 joint of casing, float collar and balance of casing to surface. Conventional bow-spring centralizer to be placed 5' above shoe on joint #1 and on top of joints #2 & #3, then every 5th joint to 400' above the top of the Wasatch. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint.

Production Casing (0' - TD):

Float shoe, 1 joint of casing, float collar and balance of casing to surface. 4-½", 11.6#, HC P-110 or equivalent marker collars or short casing joints to be placed at top of Price River and 400' above top of Wasatch. 1 turbulizer to be placed 5' above shoe on joint #1 and on the middle of joints #2 & #3. Conventional bow-spring centralizer on top of joint #4, then every 3rd joint to 400' above the top of primary objective. Thread lock float shoe, top and bottom of float collar, and top of 2nd joint.

DRILLING PLAN

NORTH DUCK CREEK 346-24
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH

6. MUD PROGRAM:

Surface Hole (Surface - 3100'±):

Air/Air mist/Aerated water* (*A standby water source will be available at all times to act as a kill medium when conducting air drilling operations)

or

A closed-loop system utilizing a gelled bentonite mud will be employed.
LCM sweeps, additions, etc. will be used as necessary.

Intermediate Hole (3100' - 7500'±):

Anticipated mud weight 9.5 – 10.5 ppg depending on actual wellbore conditions encountered while drilling.

A closed-loop 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.

Production Hole (7500'± - TD):

Anticipated mud weight 9.5 – 12.0 ppg depending on actual wellbore conditions encountered while drilling.

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 <10cc's using white starch or PAC. Bactericides will be used as needed. Anticipated pH will range from 9.0-10.0. Mud weight will be adjusted as necessary for well control. Deflocculants/thinners will be used as necessary to maintain mud quality. LCM sweeps will be utilized as necessary to control lost circulation and mud loss. CO2 contamination, if encountered, will be treated with lime and gypsum

7. VARIANCE REQUESTS:

Reference: Onshore Oil and Gas Order No. 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:

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

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**9. CEMENT PROGRAM:****Surface Casing (Surface - 3100'±):**

Lead: Lead volume to be calculated to bring cement from 500' above casing shoe to surface. Lead cement will be:

200 sx. HES VariCem (Type III) + 2% Cal-Seal (Thixotropic Additive) + 0.3% Versaset (Thixotropic Additive) + 2% Econolite (Light Weight Additive), mixed at 10.5 ppg, 4.10 cfps, 26.88 gps fresh water

Tail: Tail volume to be calculated to bring cement 500' above casing shoe. Tail cement will be:

135 sx. HES HalCem (Type V) + 2% CaCl₂ (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water

Top Out: As necessary with:

HES HalCem (Type V) + 2% CaCl₂ (Accelerator), mixed at 15.6 ppg, 1.18 cfps, 5.05 gps fresh water

Note: The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess on the lead slurry and gauge hole + 100% excess on the tail slurry.

Intermediate Casing (3100'± - 7500'±) (If Run)

Lead: Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at intermediate casing point and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **140 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **165 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **190 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **215 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

210 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

Tail: Tail volume to be calculated to bring cement from 7500'± to 400' above top of Wasatch Formation. Tail cement will be:

240 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: Above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 50% excess on lead slurry, gauge hole + 70% excess on the tail slurry.

DRILLING PLAN**NORTH DUCK CREEK 346-24**
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH**9. CEMENT PROGRAM (cont'd):****Production Casing (7500'± - TD) (With Intermediate Casing String Run)**

Slurry volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation inside the 7" X 4 1/2" casing annulus. Cement will be:

855 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks are calculated based on gauge hole. Final field cement volumes will be based on gauge hole + 70% excess in the open hole and 0% excess in the 7" X 4 1/2" casing annulus.

Production Casing (3100'± - TD) (Without Intermediate Casing String)

Lead: Lead volume to be calculated to bring cement from 400' above top of Wasatch Formation to 200'± above 9 5/8" surface casing shoe. For improved mud displacement, lead slurry weight will be a minimum of 0.5 ppg over mud weight utilized at well TD and vary from 11.0 – 13.0 ppg.

If lead slurry weight required is 11.0 ppg – 12.5 ppg, cement will be:

HES Highbond 75 (75/25 Poz/G) + 6% Bentonite (Extender) + 0.3% Versaset (Thixotropic Additive) + 2% Microbond (Expansion Additive)

Calculated sacks with corresponding mixed slurry weights, yields and water requirements for above cement will be as follows:

- **280 sx. if 11.0 ppg, 2.52 cfps, 14.96 gps fresh water**
- **330 sx. if 11.5 ppg, 2.12 cfps, 11.98 gps fresh water**
- **385 sx. if 12.0 ppg, 1.83 cfps, 9.82 gps fresh water**
- **435 sx. if 12.5 ppg, 1.61 cfps, 8.17 gps fresh water**

If lead slurry weight required is 13.0 ppg, cement will be:

430 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.0 ppg, 1.63 cfps, 8.16 gps fresh water

Tail: Tail volume to be calculated to bring cement from TD to 400' above top of Wasatch Formation. Tail cement will be:

1180 sx. HES ExtendaCem (50/50 Poz/G) + 0.125 pps Pol-E-Flake (Lost Circulation Additive) + 0.1% HR-5 (Retarder), mixed at 13.5 ppg, 1.47 cfps, 6.98 gps fresh water

Note: The above number of sacks in all cases are calculated based on gauge hole. Final field cement volumes will be based on gauge hole plus 50% excess on the lead slurry and gauge hole plus 70% excess on the tail slurry.

DRILLING PLAN

NORTH DUCK CREEK 346-24
SE/SE, SEC. 24, T8S, R21E, S.L.B.&M..
UINTAH COUNTY, UTAH

10. ABNORMAL CONDITIONS:

Surface Hole (Surface - 3100'±):

Lost circulation

Intermediate / Production Hole (3100'± - TD):

Sloughing shales, lost circulation and key seat development are possible in the Wasatch Formation. Black Hawk formation pressure 12.0 ppg EMW.

11. STANDARD REQUIRED EQUIPMENT:

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

12. HAZARDOUS CHEMICALS:

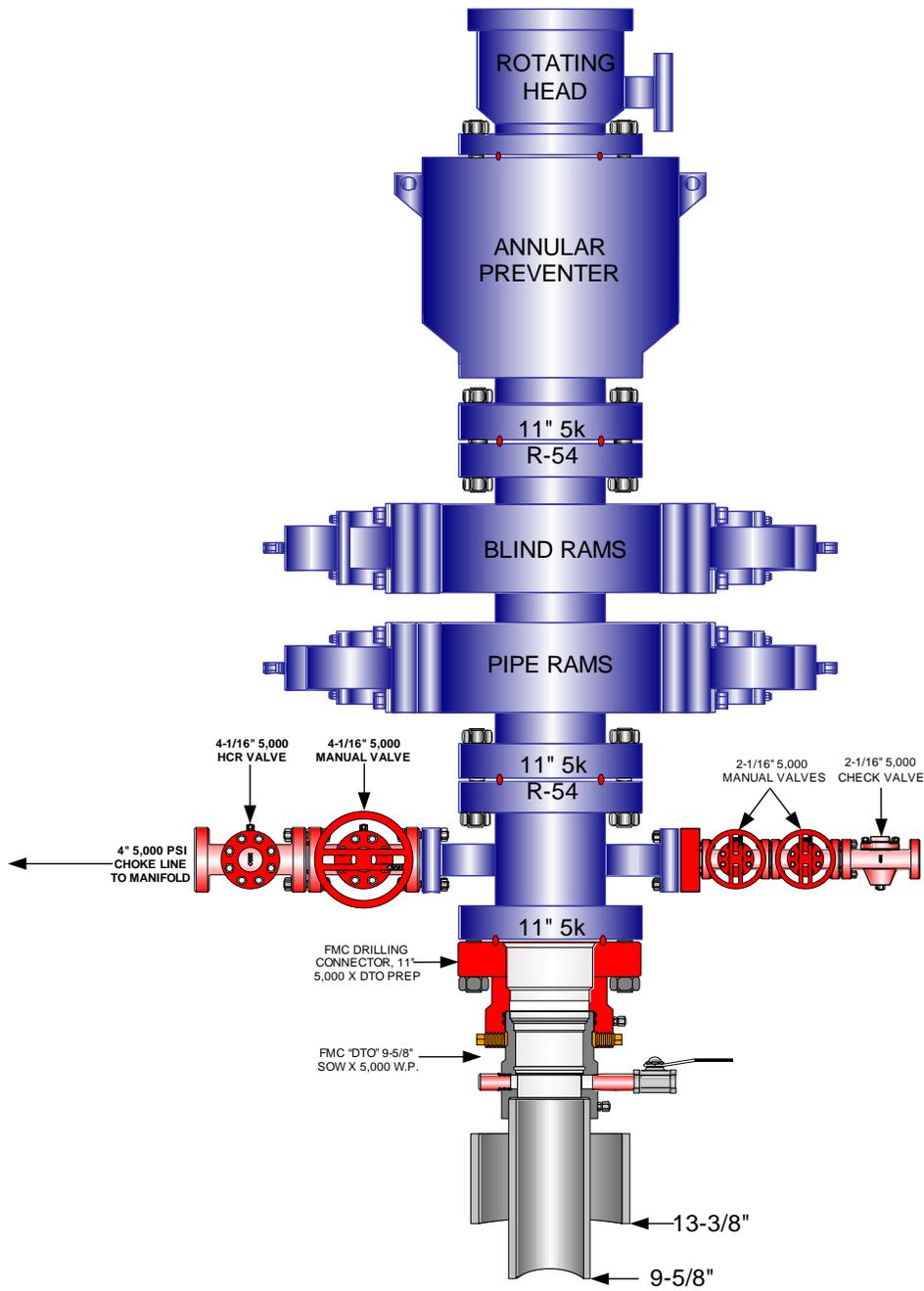
No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold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

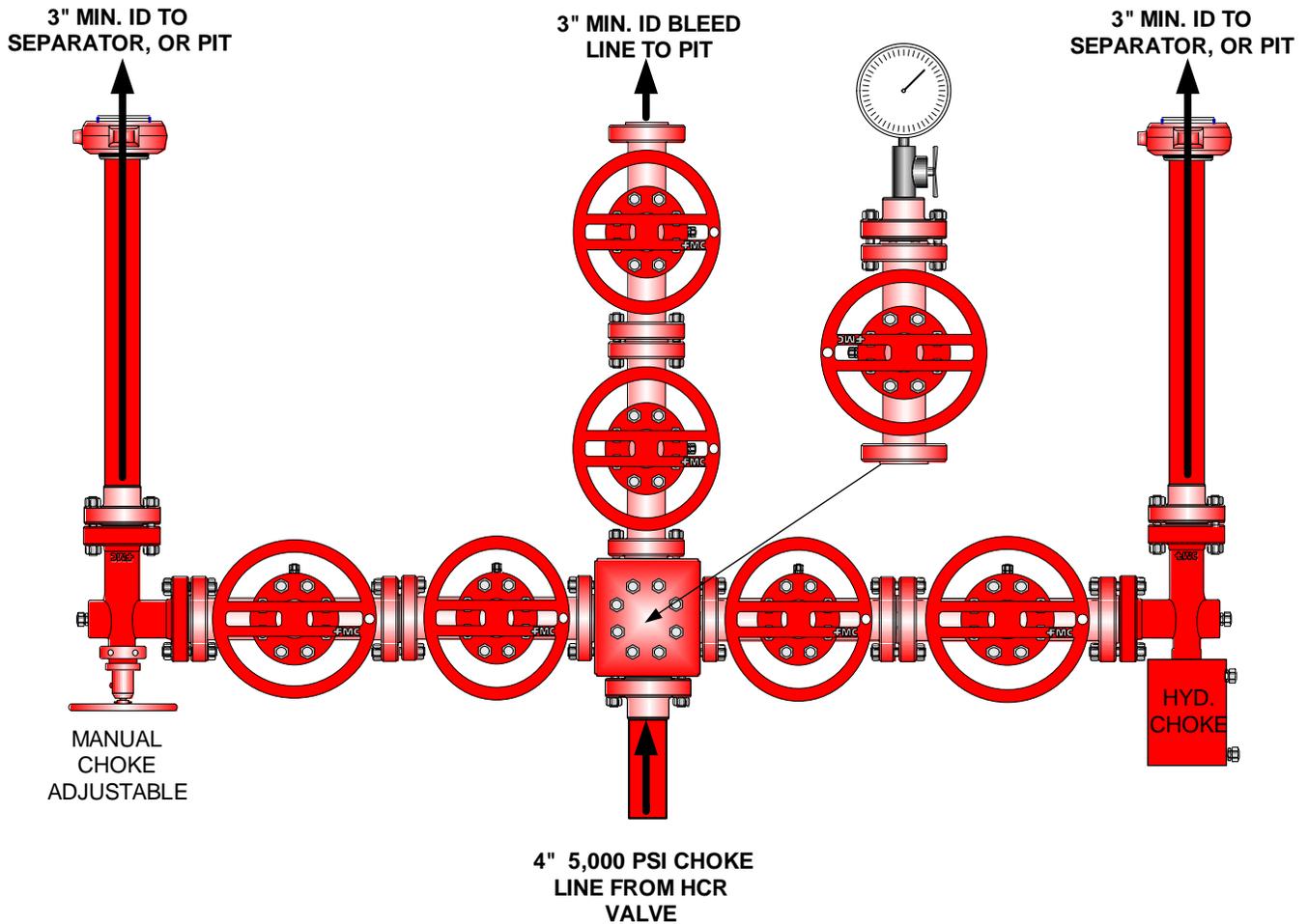
(Attachment: BOP Schematic Diagram)

EOG RESOURCES 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.

RECEIVED: November 04, 2011

EOG RESOURCES, INC.
NORTH DUCK CREEK #346-24
LOCATED IN UINTAH COUNTY, UTAH
SECTION 24, T8S, R21E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHERLY



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

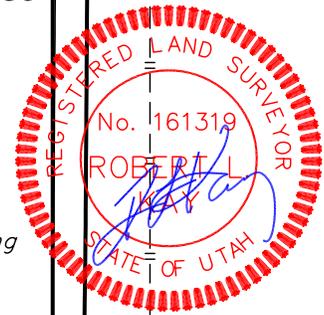
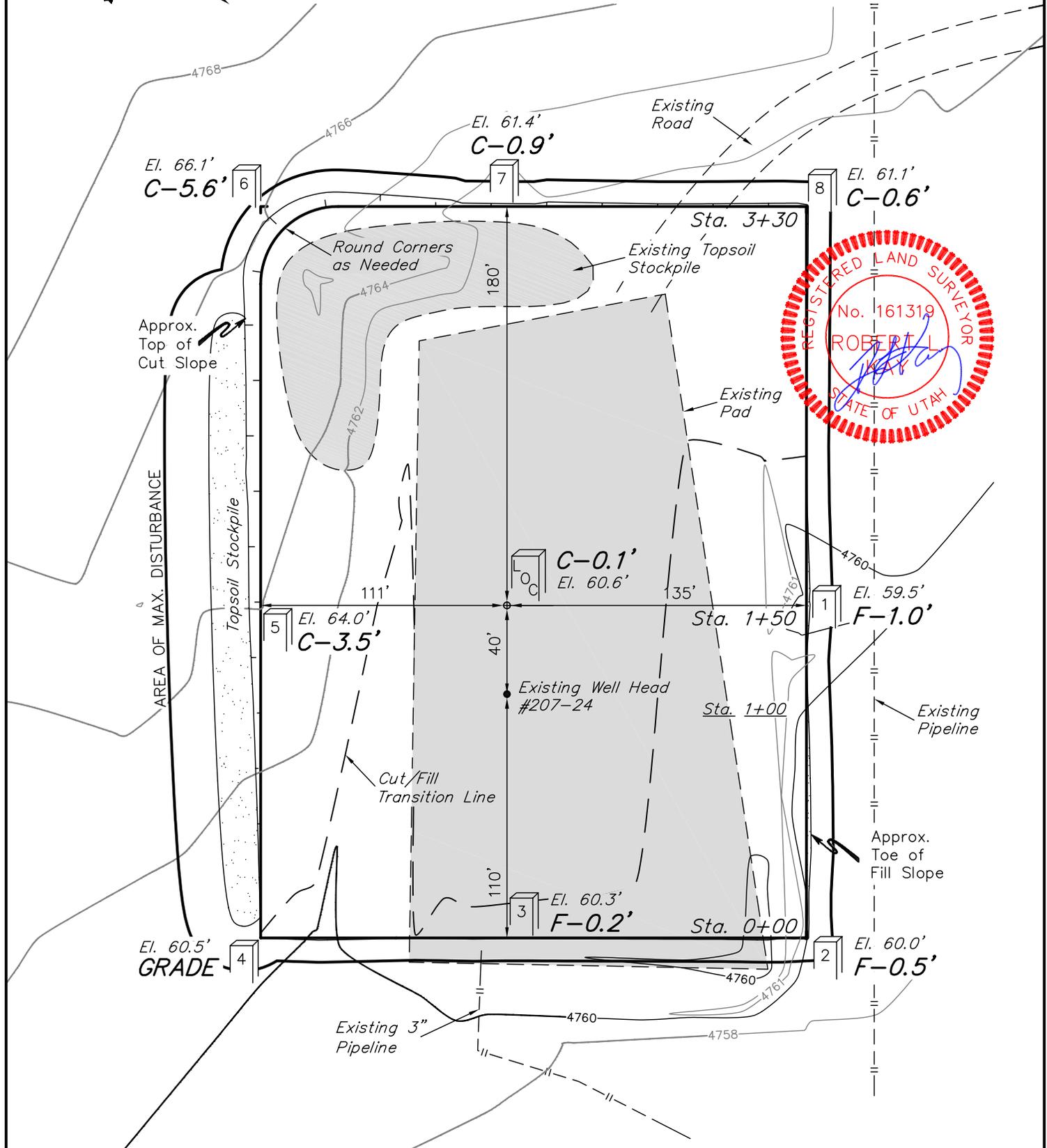
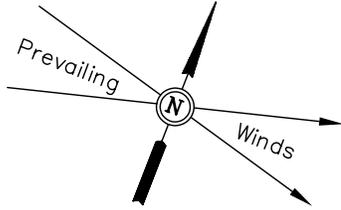
LOCATION PHOTOS	12	13	10	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: G.S.	DRAWN BY: Z.L.		REVISED: 00-00-00	

EOG RESOURCES, INC.

LOCATION LAYOUT FOR
NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 12-1-10
DRAWN BY: J.I.



Elev. Ungraded Ground At Loc. Stake = 4760.6'
FINISHED GRADE ELEV. AT LOC. STAKE = 4760.5'

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

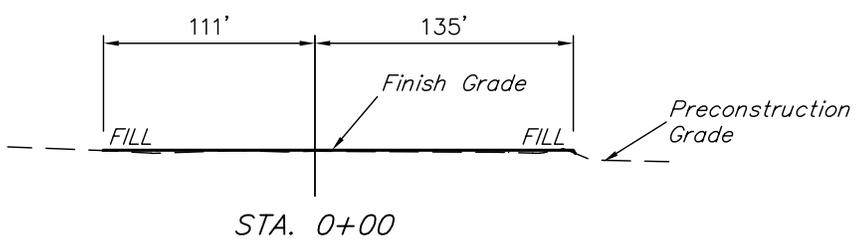
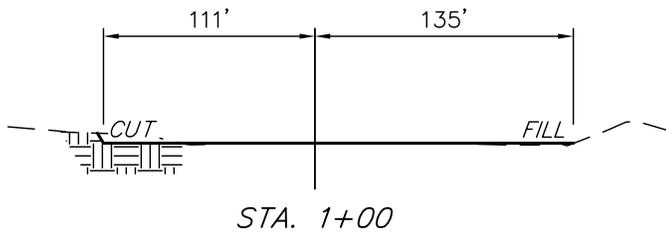
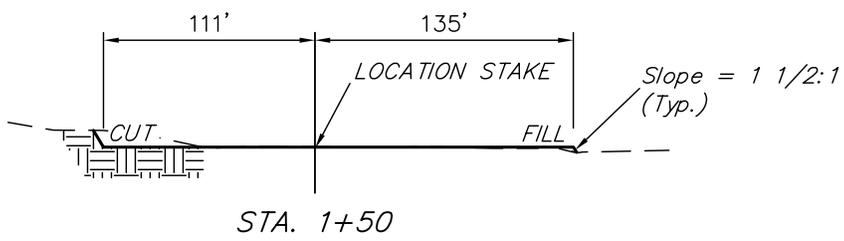
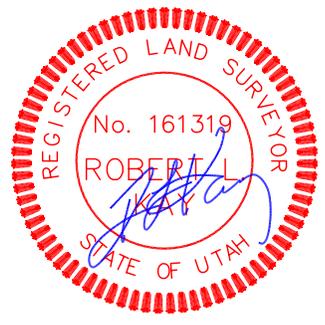
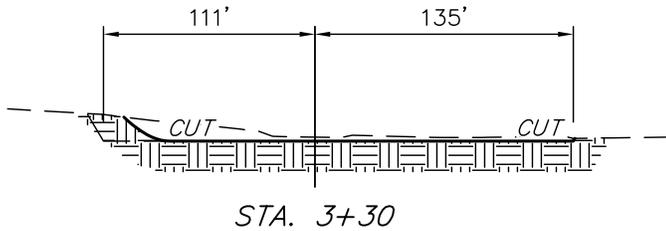
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EOG RESOURCES, INC.

FIGURE #2

X-Section Scale
1" = 100'
DATE: 12-1-10
DRAWN BY: J.I.

TYPICAL CROSS SECTIONS FOR
NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL



APPROXIMATE ACREAGES
 EXISTING WELL SITE DISTURBANCE = ± 0.919 ACRES
 PROPOSED WELL SITE DISTURBANCE = ± 2.149 ACRES
TOTAL = ± 3.068 ACRES

* NOTE:
 FILL QUANTITY INCLUDES
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 1,590 Cu. Yds.
 (New Construction Only)
 Remaining Location = 1,370 Cu. Yds.
 TOTAL CUT = 2,960 CU.YDS.
 FILL = 1,370 CU.YDS.

EXCESS MATERIAL = 1,590 Cu. Yds.
 Topsoil = 1,590 Cu. Yds.
 EXCESS UNBALANCE = 0 Cu. Yds.
 (After Interim Rehabilitation)

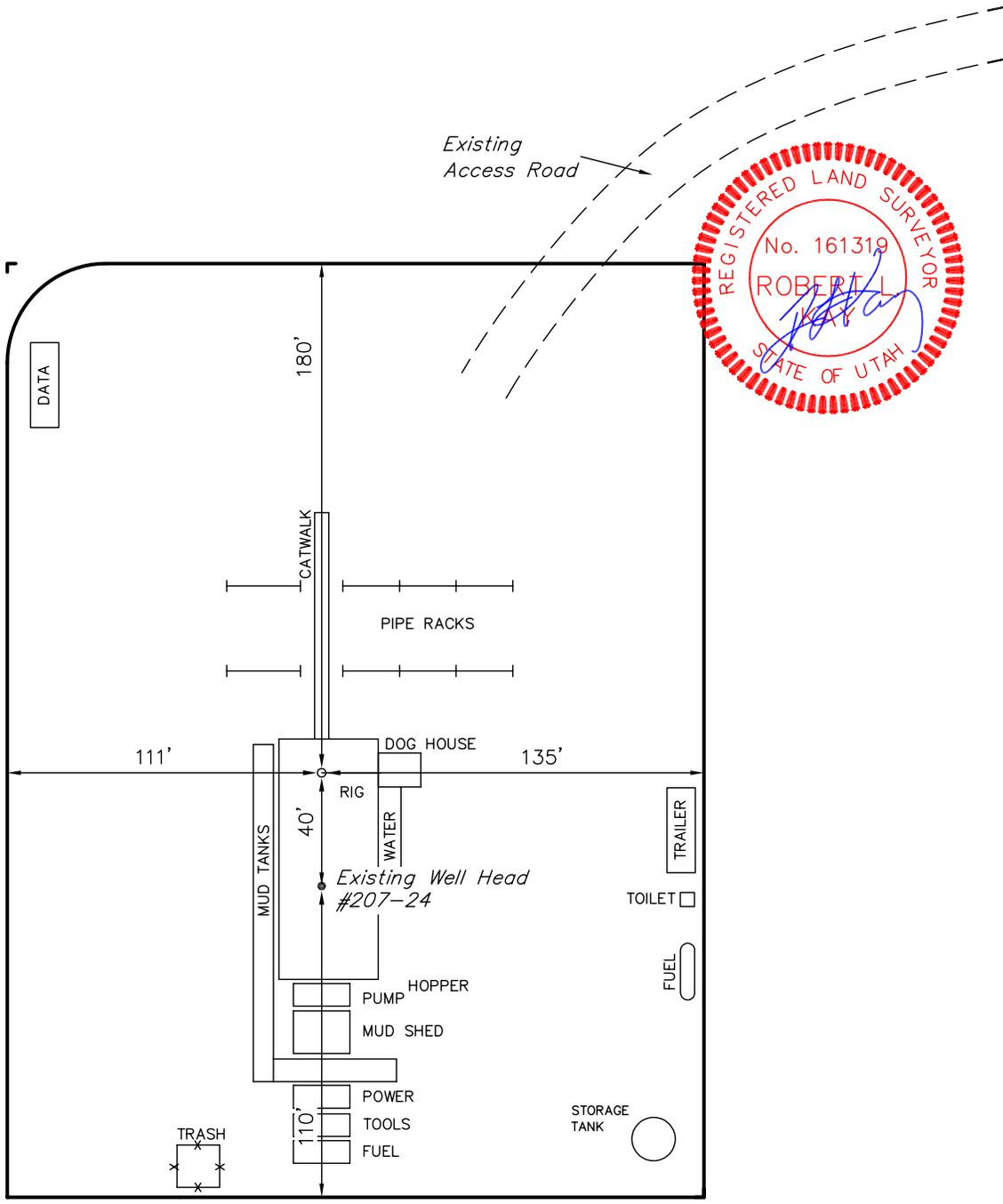
UINTAH ENGINEERING & LAND SURVEYING
 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

EOG RESOURCES, INC.

TYPICAL RIG LAYOUT FOR
NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL

FIGURE #3

SCALE: 1" = 60'
DATE: 12-1-10
DRAWN BY: J.I.

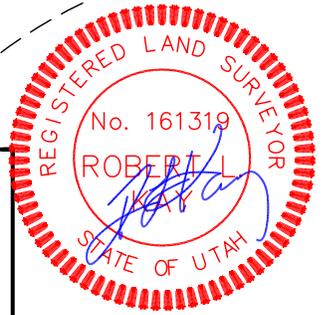
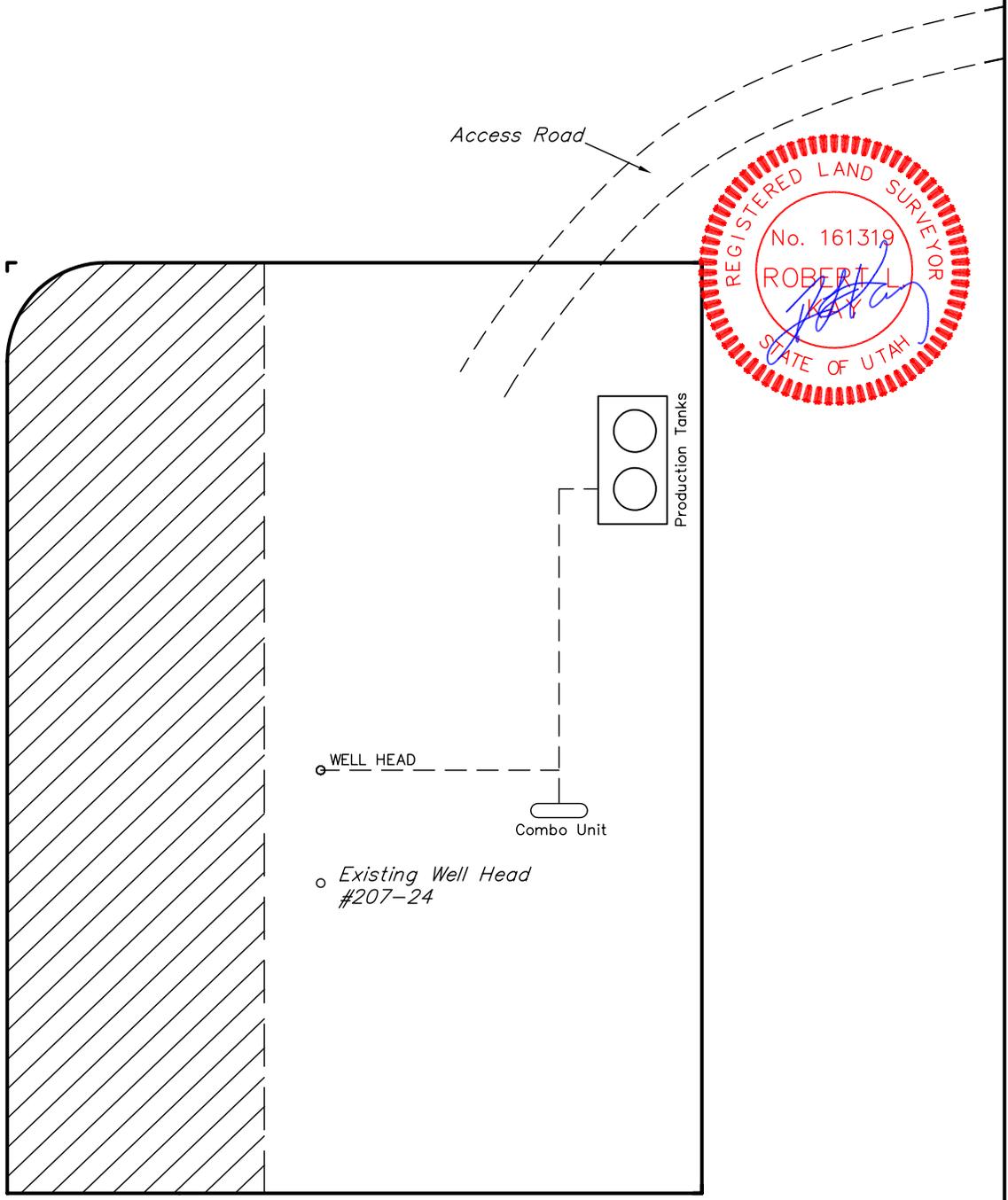




EOG RESOURCES, INC.
PRODUCTION FACILITY LAYOUT FOR
NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.
631' FSL 869' FEL

FIGURE #4

SCALE: 1" = 60'
DATE: 12-1-10
DRAWN BY: J.I.



 RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING
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RECEIVED: November 04, 2011

**EOG RESOURCES, INC.
NORTH DUCK CREEK #346-24
SECTION 24, T8S, R21E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN NORTHEASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 10.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXSITING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.7 MILES.

EOG RESOURCES, INC.
NORTH DUCK CREEK #346-24
SURFACE USE AREA, ROAD & PIPELINE RIGHT-OF-WAY
SECTION 24, T8S, R21E, S.L.B.&M.

TOTAL ROAD RIGHT-OF-WAY ON UTE TRIBAL LANDS

ROAD RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

TOTAL PIPELINE RIGHT-OF-WAY ON UTE TRIBAL LANDS

PIPELINE RIGHT-OF-WAY CONTAINED WITHIN SURFACE USE AREA.

ENGINEER'S AFFIDAVIT

STATE OF UTAH)
COUNTY OF UINTAH) SS

ROBERT L. KAY, BEING FIRST DULY SWORN DEPOSES AND STATES THAT HE IS THE REGISTERED LAND SURVEYOR, FOR EOG RESOURCES, INC., THAT THESE SURVEYS WERE MADE BY HIM (OR UNDER HIS SUPERVISION) THAT HE HAS EXAMINED THE FIELD NOTES OF THE SURVEYS OF THE SURFACE USE AREA, ROAD AND PIPELINE RIGHT-OF-WAY AS DESCRIBED AND SHOWN ON THIS MAP, THAT THIS MAP WAS PREPARED UNDER HIS DIRECTION FROM SAID FIELD NOTES; AND THAT SAID RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN ON THIS MAP IS ACCURATELY REPRESENTED.



ACKNOWLEDGEMENT

SUBSCRIBED AND SWORN BEFORE ME THIS ____ DAY OF _____ 2010.

MY COMMISSION EXPIRES _____.

NOTARY PUBLIC
VERNAL, UTAH

APPLICANT'S CERTIFICATE

I, _____, DO HEREBY CERTIFY THAT I AM THE AGENT FOR EOG RESOURCES, INC., HEREINAFTER DESIGNATED THE APPLICANT; THAT ROBERT L. KAY WHO SUBSCRIBED TO THE FOREGOING AFFIDAVIT, IS EMPLOYED BY THE APPLICANT AS A LAND SURVEYOR AND THAT HE WAS DIRECTED BY THE APPLICANT TO SURVEY THE LOCATION OF THIS SURFACE USE AREA, ROAD AND PIPELINE RIGHT-OF-WAY, BEGINNING AND ENDING AS SHOWN, THAT SAID SURFACE USE AREA, ROAD AND PIPELINE RIGHT-OF-WAY ARE ACCURATELY REPRESENTED ON THIS MAP; THAT SUCH SURVEY AS REPRESENTED ON THIS MAP HAS BEEN ADOPTED BY THE APPLICANT AS THE DEFINITE LOCATION OF THE RIGHT-OF-WAY THEREBY SHOWN; AND THAT THE MAP HAS BEEN PREPARED TO BE FILED WITH THE SECRETARY OF THE INTERIOR OR HIS DULY AUTHORIZED REPRESENTATIVE AS PART OF THE APPLICATION FOR SAID RIGHT-OF-WAY TO BE GRANTED THE APPLICANT, ITS SUCCESSORS AND ASSIGNS, WITH THE RIGHT TO CONSTRUCT, MAINTAIN, AND REPAIR IMPROVEMENTS, THEREON AND THEREOVER, FOR SUCH PURPOSES, AND WITH THE FURTHER RIGHT IN THE APPLICANT, ITS SUCCESSORS AND ASSIGNS TO TRANSFER THIS RIGHT-OF-WAY BY ASSIGNMENT, GRANT, OR OTHERWISE.

APPLICANT

TITLE

NW 1/4

NE 1/4

1/4 Section Line
Sec. 24

1/16 Section Line

ROAD RIGHT-OF-WAY DESCRIPTION

ROAD RIGHT-OF-WAY CONTAINED WITHIN THE DAMAGE AREA.

PIPELINE RIGHT-OF-WAY DESCRIPTION

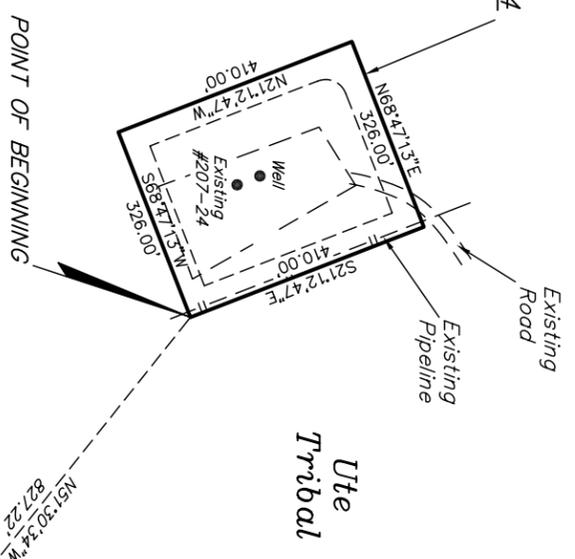
PIPELINE RIGHT-OF-WAY CONTAINED WITHIN THE DAMAGE AREA.

SW 1/4

SE 1/4

1/16 Section Line

SURFACE USE AREA
NORTH DUCK CREEK #346-24
Contains 3.068 Acres



1967 Brass Cap,
0.5' High

1967 Brass Cap

Section Line

Section Line

N89°49'10"E - 2643.26' (Meas.)

N00°56'10"W - 2675.76' (Meas.)

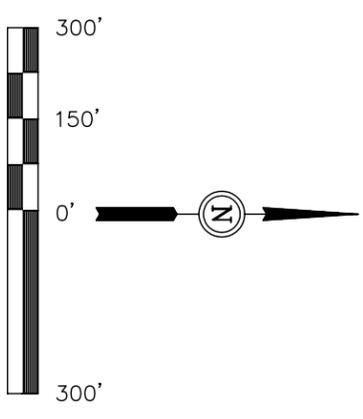
▲ = SECTION CORNERS LOCATED.

EOG RESOURCES, INC.

LOCATION SURFACE USE AREA, ROAD & PIPELINE RIGHT-OF-WAY ON UTE TRIBAL LANDS

(For NORTH DUCK CREEK #346-24)

LOCATED IN SECTION 24, T8S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH



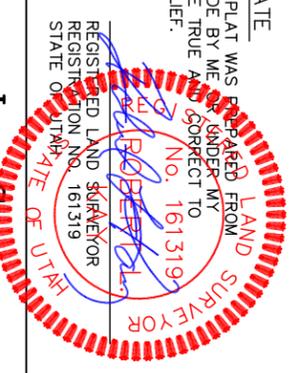
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 24, T8S, R21E, S.L.B.&M. WHICH BEARS N51°30'34"W 827.22' FROM THE SOUTHEAST CORNER OF SAID SECTION 24, THENCE S68°47'13"W 326.00'; THENCE N21°12'47"W 410.00'; THENCE N68°47'13"E 326.00'; THENCE S21°12'47"E 410.00' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.068 ACRES MORE OR LESS.

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.



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

SCALE	1" = 300'	DATE	12-1-10
PARTY	G.S. T.H. J.I.	REFERENCES	G.L.O. PLAT
WEATHER	COOL	FILE	5 0 1 8 5

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/4/2011

API NO. ASSIGNED: 43047521700000

WELL NAME: NORTH DUCK CREEK 346-24

OPERATOR: EOG Resources, Inc. (N9550)

PHONE NUMBER: 435 781-9111

CONTACT: Kaylene Gardner

PROPOSED LOCATION: SESE 24 080S 210E

Permit Tech Review:

SURFACE: 0631 FSL 0869 FEL

Engineering Review:

BOTTOM: 0631 FSL 0869 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.10350

LONGITUDE: -109.49581

UTM SURF EASTINGS: 628206.00

NORTHINGS: 4440329.00

FIELD NAME: WONSITS VALLEY

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU9613

PROPOSED PRODUCING FORMATION(S): BLACKHAWK

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT**
- Bond:** FEDERAL - NM2308
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** Water Right # 49-225 (A31368)
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

Commingleing Approved

LOCATION AND SITING:

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:** Cause 173-16
- Effective Date:** 1/14/2000
- Siting:** 460' Fr Ext U Bdry & 920' Fr Other Wells
- R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason



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

Permit To Drill

Well Name: NORTH DUCK CREEK 346-24
API Well Number: 43047521700000
Lease Number: UTU9613
Surface Owner: INDIAN
Approval Date: 11/21/2011

Issued to:

EOG Resources, Inc., 600 17th Street, Suite 1000 N, Denver, CO 80202

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 173-16. The expected producing formation or pool is the BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU9613
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE IN
2. NAME OF OPERATOR: EOG Resources, Inc.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 600 17th Street, Suite 1000 N , Denver, CO, 80202	8. WELL NAME and NUMBER: N DUCK CREEK 346-24
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0631 FSL 0869 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 08.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047521700000
9. FIELD and POOL or WILDCAT: WONSITS VALLEY	COUNTY: Uintah
9. API NUMBER: 43047521700000	STATE: UTAH

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

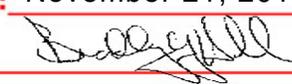
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/20/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input 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: <input style="width: 100px;" type="text"/>

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: November 21, 2012

By: 

NAME (PLEASE PRINT) Kaylene Gardner	PHONE NUMBER 435 781-9111	TITLE Regulatory Administrator
SIGNATURE N/A	DATE 11/20/2012	



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 43047521700000

API: 43047521700000

Well Name: N DUCK CREEK 346-24

Location: 0631 FSL 0869 FEL QTR SESE SEC 24 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

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

Signature: Kaylene Gardner

Date: 11/20/2012

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU9613
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE IN
2. NAME OF OPERATOR: EOG RESOURCES, INC.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	8. WELL NAME and NUMBER: N DUCK CREEK 346-24
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0631 FSL 0869 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 08.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047521700000
PHONE NUMBER: 435 781-9111 Ext	9. FIELD and POOL or WILDCAT: WONSITS VALLEY
COUNTY: UINTAH	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/14/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input 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: <input style="width: 100px;" type="text"/>

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: November 18, 2013

By:

NAME (PLEASE PRINT) Kaylene Gardner	PHONE NUMBER 435 781-9111	TITLE Regulatory Administrator
SIGNATURE N/A		DATE 11/14/2013



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 43047521700000

API: 43047521700000

Well Name: N DUCK CREEK 346-24

Location: 0631 FSL 0869 FEL QTR SESE SEC 24 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

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

Signature: Kaylene Gardner

Date: 11/14/2013

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU9613
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: N DUCK CREEK 346-24	
2. NAME OF OPERATOR: EOG RESOURCES, INC.	9. API NUMBER: 43047521700000	
3. ADDRESS OF OPERATOR: 600 17th Street, Suite 1000 N , Denver, CO, 80202	PHONE NUMBER: 435 781-9111 Ext	9. FIELD and POOL or WILDCAT: WONSITS VALLEY
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0631 FSL 0869 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 08.0S Range: 21.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/20/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
November 25, 2014
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Donna J Skinner	PHONE NUMBER 303 262-9467	TITLE Sr. Regulatory Assistant
SIGNATURE N/A	DATE 11/20/2014	



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 43047521700000

API: 43047521700000

Well Name: N DUCK CREEK 346-24

Location: 0631 FSL 0869 FEL QTR SESE SEC 24 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

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

Signature: Donna J Skinner

Date: 11/20/2014

Title: Sr. Regulatory Assistant Representing: EOG RESOURCES, INC.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU9613
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: EOG RESOURCES, INC.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	8. WELL NAME and NUMBER: N DUCK CREEK 346-24
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0631 FSL 0869 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 08.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047521700000
PHONE NUMBER: 435 781-9111 Ext	9. FIELD and POOL or WILDCAT: WONSITS VALLEY
COUNTY: UINTAH	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/13/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

EOG Resources, Inc. respectfully requests the APD for the referenced well be extended for one year.

Approved by the
October 15, 2015
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Kaylene Gardner	PHONE NUMBER 435 781-9111	TITLE Regulatory Administrator
SIGNATURE N/A	DATE 10/13/2015	



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 43047521700000

API: 43047521700000

Well Name: N DUCK CREEK 346-24

Location: 0631 FSL 0869 FEL QTR SESE SEC 24 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

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

Signature: Kaylene Gardner

Date: 10/13/2015

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU9613
1. TYPE OF WELL Gas Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: EOG RESOURCES, INC.	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 600 17th Street Ste 1000N , Denver, CO, 80202	8. WELL NAME and NUMBER: N DUCK CREEK 346-24
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0631 FSL 0869 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 24 Township: 08.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047521700000
PHONE NUMBER: 435 781-9111 Ext	9. FIELD and POOL or WILDCAT: WONSITS VALLEY
COUNTY: UINTAH	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/3/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input 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: <input style="width: 100px;" type="text"/>

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
October 13, 2016
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Kaylene Gardner	PHONE NUMBER 435 781-9111	TITLE Regulatory Administrator
SIGNATURE N/A	DATE 10/3/2016	



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 43047521700000

API: 43047521700000

Well Name: N DUCK CREEK 346-24

Location: 0631 FSL 0869 FEL QTR SESE SEC 24 TWNP 080S RNG 210E MER S

Company Permit Issued to: EOG RESOURCES, INC.

Date Original Permit Issued: 11/21/2011

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

Signature: Kaylene Gardner

Date: 10/3/2016

Title: Regulatory Administrator Representing: EOG RESOURCES, INC.