

**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> Coyote 1-16 SWD		
<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> Water Disposal Well Coalbed Methane Well: NO				<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>		
<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> ML47045		<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>	2246 FNL 535 FEL	SENE	16	9.0 S	23.0 E	S
<b>Top of Uppermost Producing Zone</b>	2246 FNL 535 FEL	SENE	16	9.0 S	23.0 E	S
<b>At Total Depth</b>	2246 FNL 535 FEL	SENE	16	9.0 S	23.0 E	S
<b>21. COUNTY</b> UINTAH		<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 535		<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 404		
		<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 0		<b>26. PROPOSED DEPTH</b> MD: 1970 TVD: 1970		
<b>27. ELEVATION - GROUND LEVEL</b> 4947		<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> 10/29/2009	<b>EMAIL</b> kaylene_gardner@eogresources.com
<b>API NUMBER ASSIGNED</b> 43047508060000	<b>APPROVAL</b>   Permit Manager	

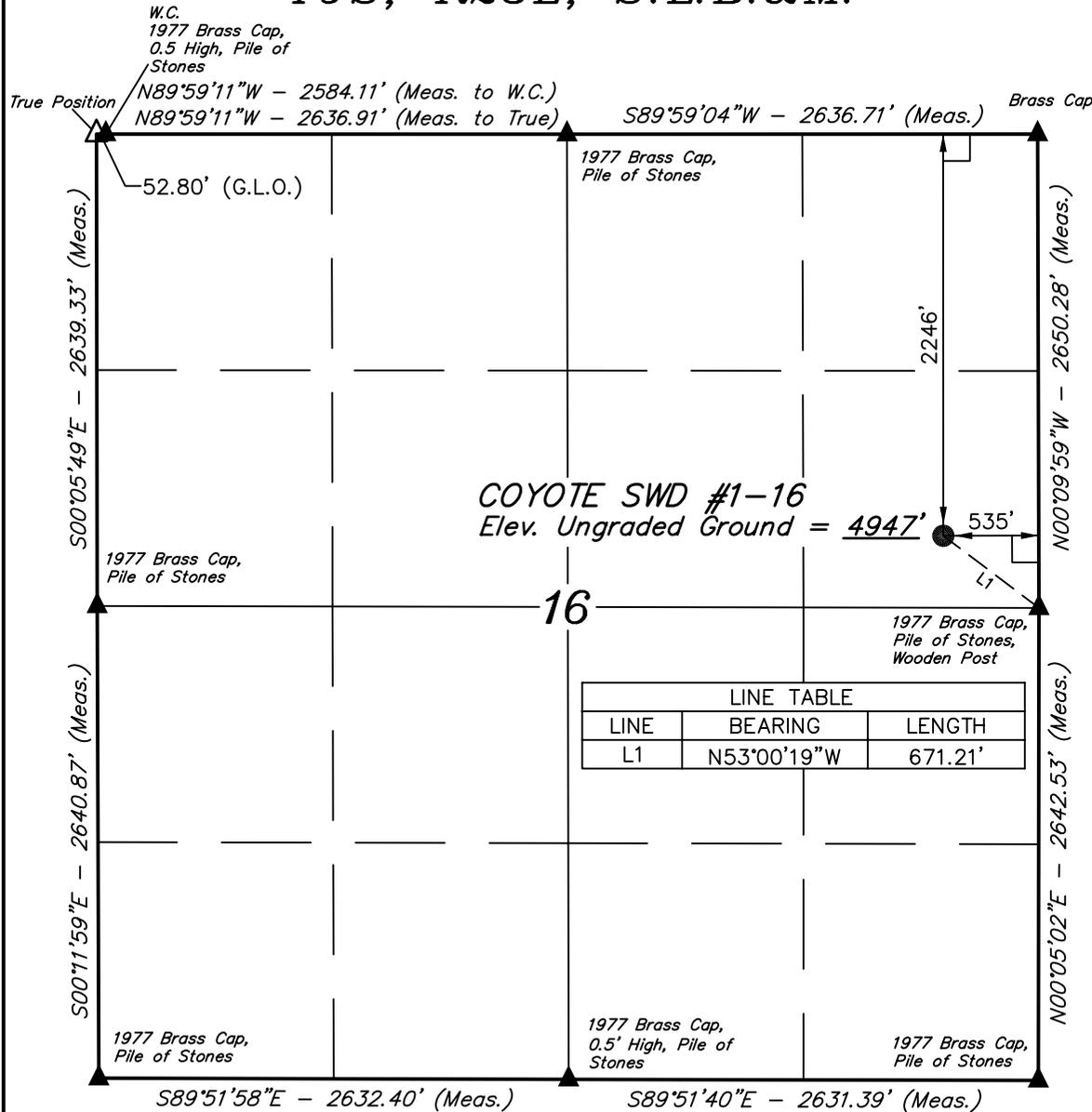
**Proposed Hole, Casing, and Cement**

<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	1675		
<b>Pipe</b>	<b>Grade</b>	<b>Length</b>	<b>Weight</b>			
	Grade J-55 ST&C	1675	36.0			

# T9S, R23E, S.L.B.&M.

EOG RESOURCES, INC.

APIWellNo:43047508060000



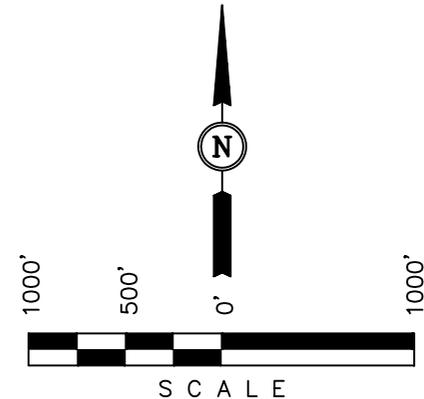
Well location, COYOTE SWD #1-16, located as shown in SE 1/4 NE 1/4 of Section 16, T9S, R23E, S.L.B.&M., Uintah County, Utah.

## BASIS OF ELEVATION

BENCH MARK 58EAM(1965) LOCATED IN THE NE 1/4 OF SECTION 30, T9S, R23E, S.L.B.&M. TAKEN FROM THE RED WASH 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 5132 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

**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 = 40°02'13.34" (40.037039)  
LONGITUDE = 109°19'27.91" (109.324419)  
(NAD 27)  
LATITUDE = 40°02'13.46" (40.037072)  
LONGITUDE = 109°19'25.47" (109.323742)

SCALE 1" = 1000'	DATE SURVEYED: 01-15-08	DATE DRAWN: 01-23-08
PARTY G.S. C.R. J.R. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EIGHT POINT PLAN**

**COYOTE 01-16 SWD**

**SE/NE, SEC. 16, T9S, R23E, 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>	
Uinta FM	3			
Green River FM	1,418		Shale	
Birdsnest Zone	1,706	P	Dolomite	
Lower Confining Zone	1,964		Shale	
Mahogany Oil Shale Bed	2,320		Shale	Oil
<b>TD</b>	<b>1,970</b>			

**EST. TD: 1,970'**

**Anticipated BHP: 500 Psig**

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Uinta Formation.
2. Cement isolation is installed to surface of the well.
3. Surface Casing will be set at a depth 35' above Birds Nest estimated at 1675' ±

**3. PRESSURE CONTROL EQUIPMENT:**

Flanged Pressure Diverter with an 8" or larger diverter line.

**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>	<b>20"</b>	<b>0 – 80'</b>	<b>13 3/8"</b>	<b>48.0#</b>	<b>H-40</b>	<b>STC</b>	<b>770 PSI</b>	<b>1730 PSI</b>	<b>322,000#</b>
<b>Surface</b>	<b>12 1/4"</b>	<b>0– 1675' KB±</b>	<b>9-5/8"</b>	<b>36.0#</b>	<b>J-55</b>	<b>STC</b>	<b>2020 PSI</b>	<b>3520 Psi</b>	<b>394,000#</b>

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

**EIGHT POINT PLAN**

**COYOTE 01-16 SWD**

**SE/NE, SEC. 16, T9S, R23E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**5. Float Equipment:**

**Conductor Hole Procedure (0 - 80' ± Below GL):**

No Float Equipment

**Surface Hole Procedure (Surface ± - 1675'):**

Guide Shoe

Insert Float Collar (PDC drillable)

Centralizers: 1 – 5-10' above shoe, every collar for next 3 joints (4 total).

**6. MUD PROGRAM:**

**Conductor Hole Procedure (0 - 80' ± below GL):**

None

**Surface Hole Procedure (Surface ± - 1675):**

Air/air mist or aerated water

Anticipated mud weight of 8.4 ppg or less. Actual wellbore conditions may differ.

**Production Hole Procedure (1675 ± - TD):**

Anticipated mud weight 8.4 depending on actual wellbore condition encountered while drilling.

**7. VARIANCE REQUESTS:**

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

EOG Resources, Inc. requests a variance to regulations requiring the blooie line to be 100' in length.

Due to reduce location excavation, the blooie line will be approximately 75' in length

**8. EVALUATION PROGRAM:**

**Open Hole Logs:**

Open Hole Logs will be run consisting of the following:

**Schlumberger Platform Express: Open Hole Gamma Ray, Resistivity, CBL  
and Neutron Porosity.**

**9. CEMENT PROGRAM:**

**EIGHT POINT PLAN**

**COYOTE 01-16 SWD**

**SE/NE, SEC. 16, T9S, R23E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**Conductor Hole Procedure (0-80' ± Below GL)**

**Lead:** Ready Mix Cement

**Top Out:** Top out with Ready Mix Cement

Install 6' x 4' cellar ring, drill rat and mouse holes with spud rig.

**Note:** **Cement volumes will be calculated to bring cement to surface.**

**Surface Hole Procedure (Surface to 1675' ±)**

**Lead:** **470 sks** Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) & 0.25 pps  
D29 (cellophane flakes), mixed at 15.8 ppg, 1.16 ft<sup>3</sup>./sk., 4.95 gps  
water.

**Top Out:** **210 sks** Top out with Class 'G' cement with 2% S1 (CaCl<sub>2</sub>) in mix water,  
15.8 ppg, 1.16ft<sup>3</sup>./sk., 4.95 gps via 1" tubing set at 25' if needed.

Install 6' x 4' cellar ring, drill rat and mouse holes with spud rig.

**Note:** **Cement volumes will be calculated to bring cement to surface.**

**10. ABNORMAL CONDITIONS:**

**Surface Hole (Surface - 1675'±):**

Lost circulation

**11. 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.

**EOG RESOURCES, INC.**  
**COYOTE SWD #1-16**  
**LOCATED IN UINTAH COUNTY, UTAH**  
**SECTION 16, T9S, R23E, S.L.B.&M.**



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

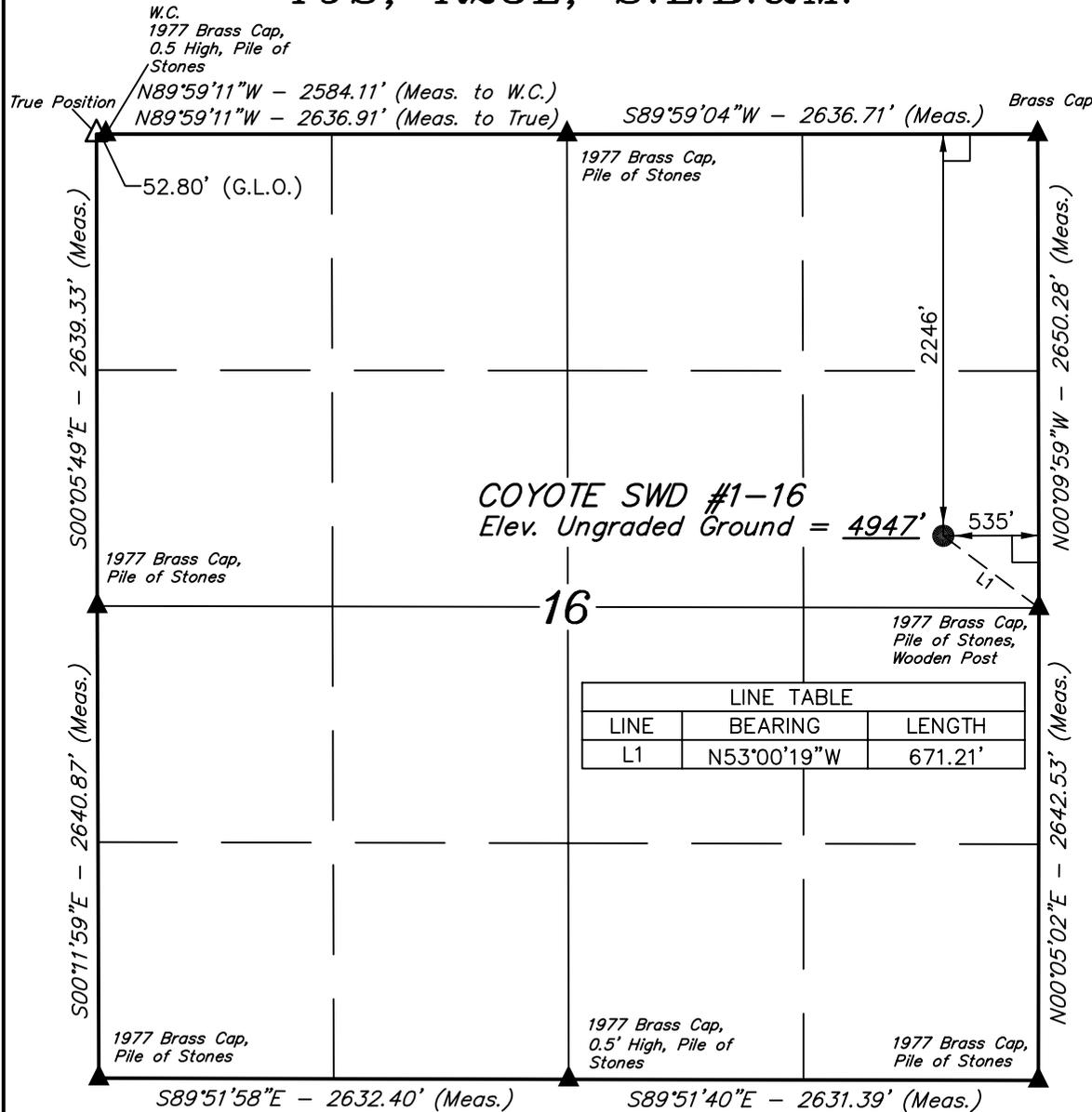
**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

<b>LOCATION PHOTOS</b>	<b>01</b>	<b>23</b>	<b>09</b>	<b>PHOTO</b>
TAKEN BY: C.R.	MONTH	DAY	YEAR	
DRAWN BY: J.H.	REVISED: 00-00-00			

# T9S, R23E, S.L.B.&M.

EOG RESOURCES, INC.

APIWellNo:43047508060000



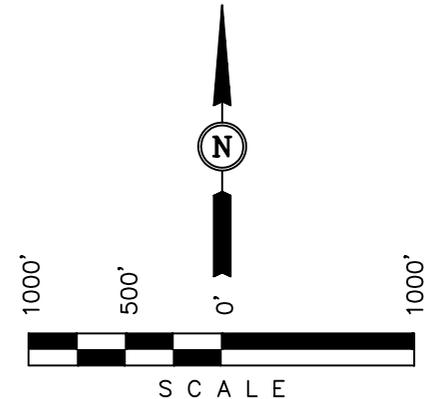
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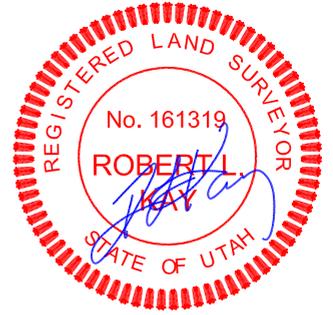
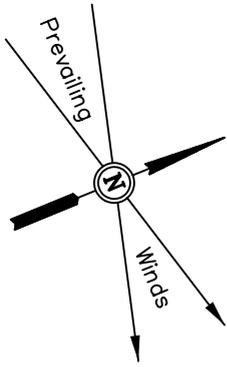
SCALE 1" = 1000'	DATE SURVEYED: 01-15-08	DATE DRAWN: 01-23-08
PARTY G.S. C.R. J.R. C.C.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE EOG RESOURCES, INC.	

**EOG RESOURCES, INC.**

LOCATION LAYOUT FOR

COYOTE SWD #1-16  
SECTION 16, T9S, R23E, S.L.B.&M.  
2246' FNL 535' FEL

**FIGURE #1**



SCALE: 1" = 50'  
DATE: 01-23-09  
Drawn By: C.C.

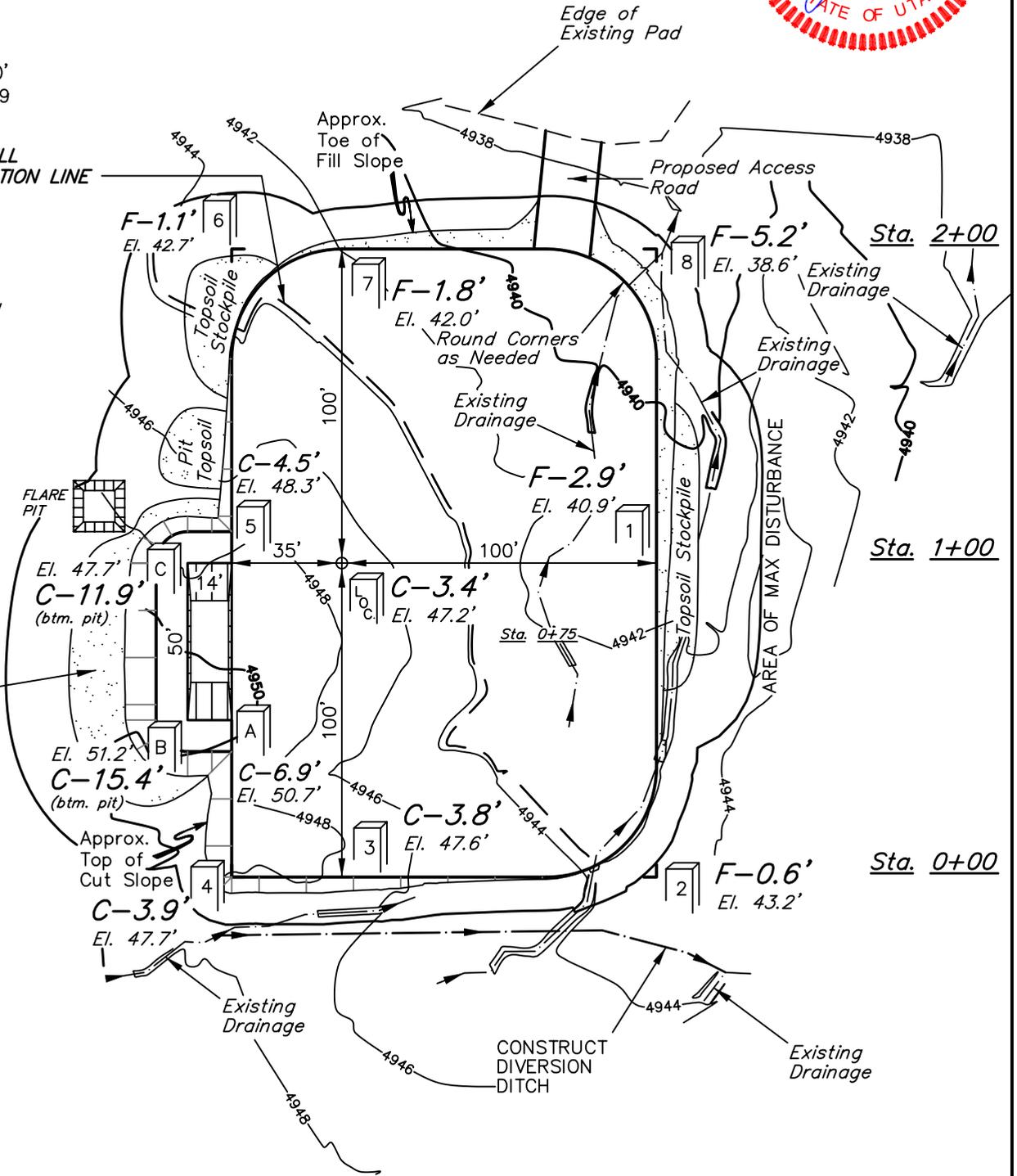
**CUT/FILL TRANSITION LINE**

**NOTE:**

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

**RESERVE PIT**  
Total Pit Capacity  
W/2' of Freeboard  
= 480 Bbbls. ±  
Total Pit Volume  
= 150 Cu. Yds.  
(8' Deep)

Reserve Pit Backfill & Spoils Stockpile



**NOTES:**

Elev. Ungraded Ground At Loc. Stake = **4947.2'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **4943.8'**

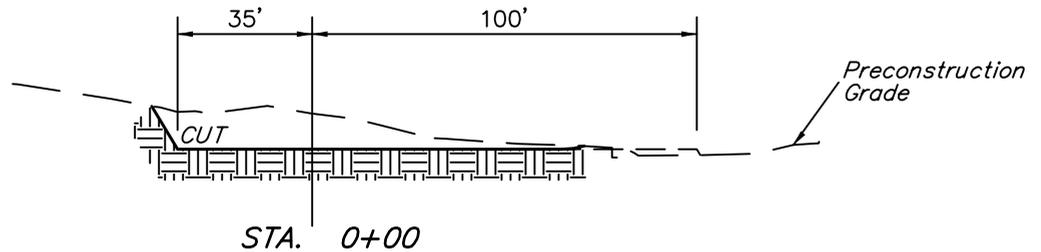
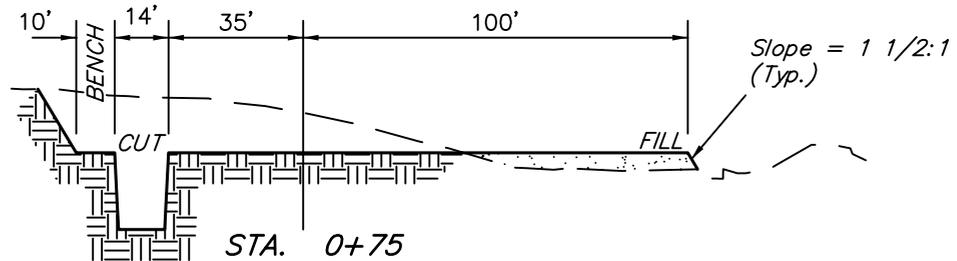
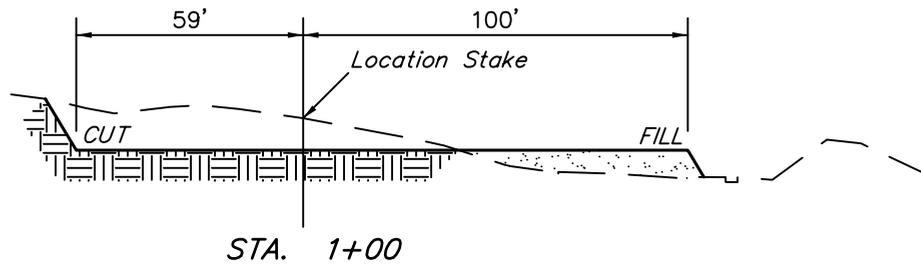
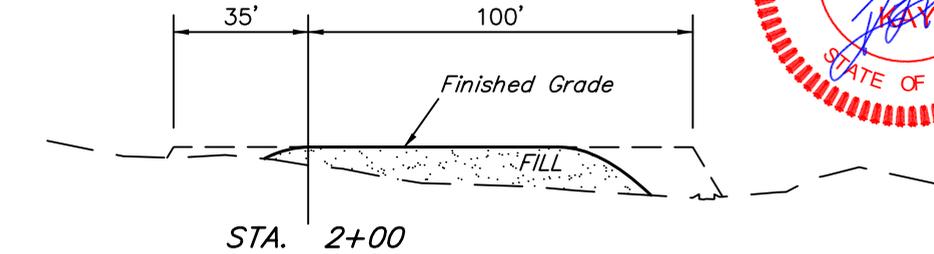
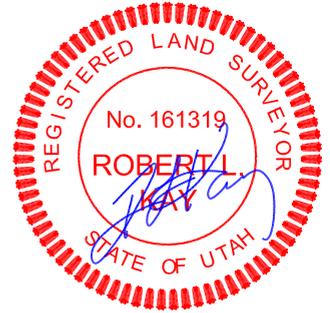
**EOG RESOURCES, INC.**

**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR**

**COYOTE SWD #1-16  
SECTION 16, T9S, R23E, S.L.B.&M.  
2246' FNL 535' FEL**

1" = 20'  
X-Section  
Scale  
1" = 50'  
DATE: 01-23-09  
Drawn By: C.C.



**NOTE:**

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ±1.066 ACRES  
ACCESS ROAD DISTURBANCE = ±0.022 ACRES  
PIPELINE DISTURBANCE = ±0.122 ACRES  
TOTAL = ±1.210 ACRES

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

**CUT**  
(6") Topsoil Stripping = 600 Cu. Yds.  
Remaining Location = 1,530 Cu. Yds.  
**TOTAL CUT = 2,130 CU.YDS.**  
**FILL = 1,450 CU.YDS.**

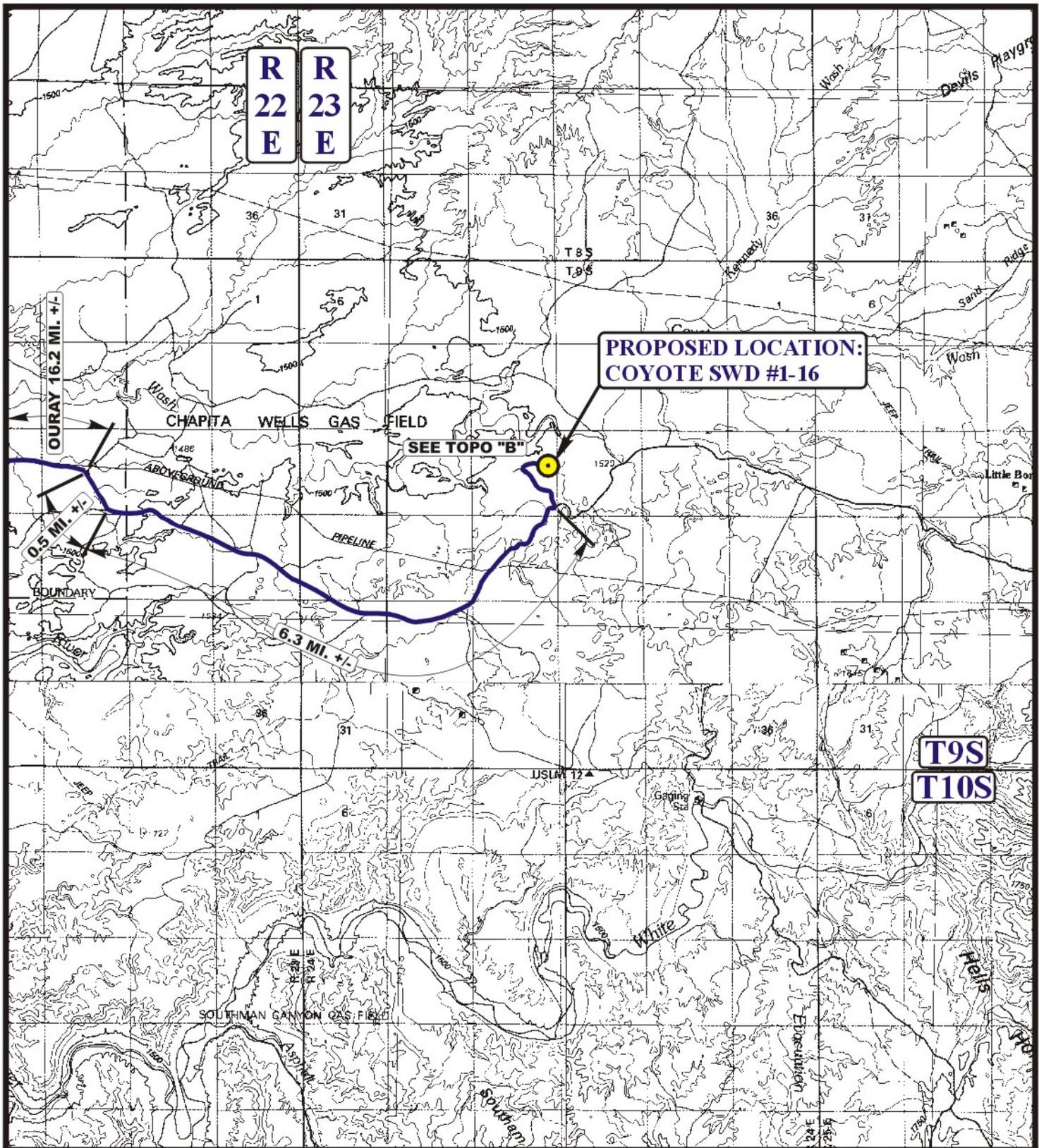
EXCESS MATERIAL = 680 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 680 Cu. Yds.  
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
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**EOG RESOURCES, INC.**  
**COYOTE SWD #1-16**  
**SECTION 16, T9S, R23E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.3 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 12.3 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 6.3 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 NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.35 MILES TO THE #48-16 LOCATION AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 35' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 55.05 MILES.



**LEGEND:**

 PROPOSED LOCATION

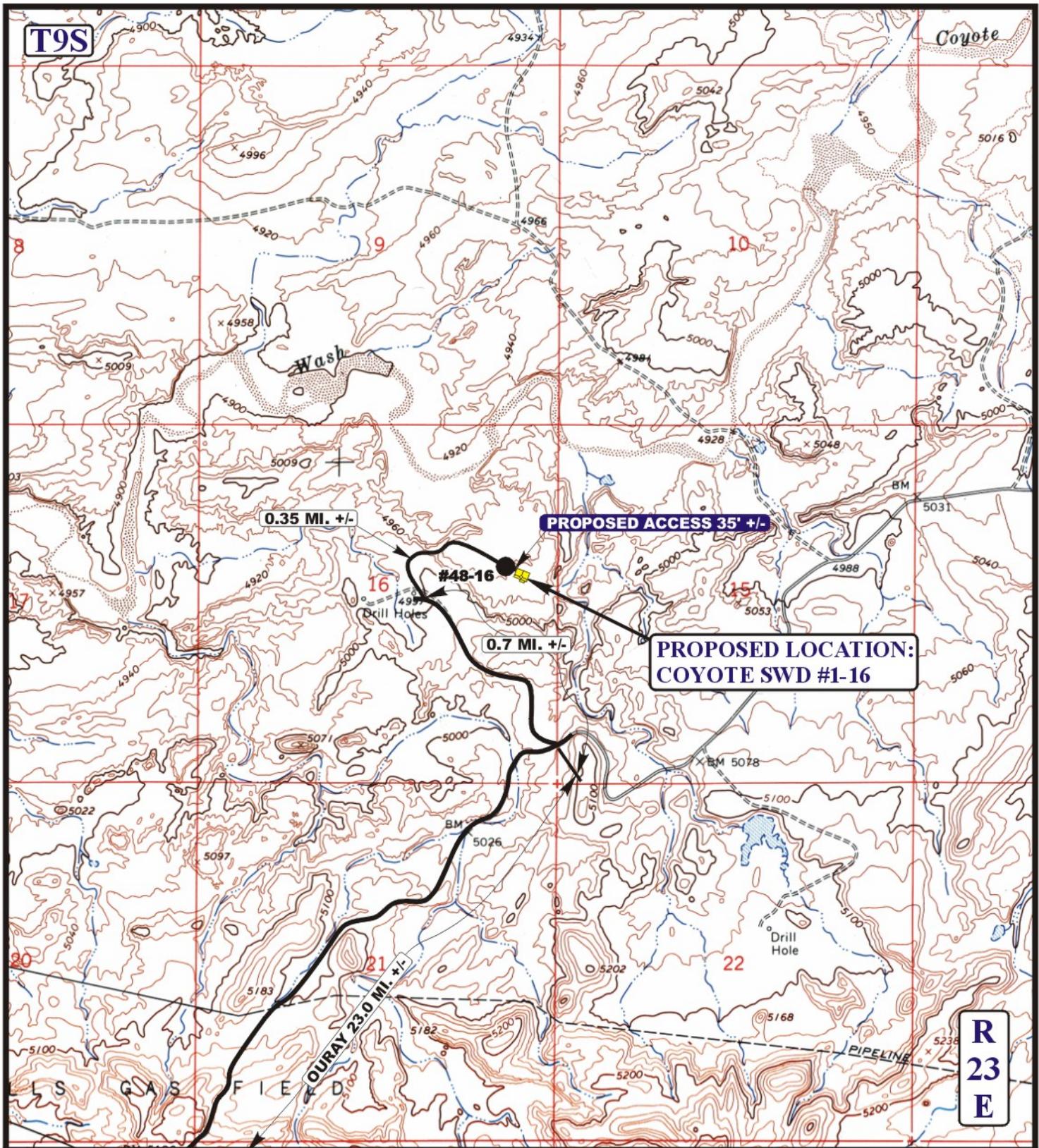


**EOG RESOURCES, INC.**

**COYOTE SWD #1-16**  
**SECTION 16, T9S, R23E, S.L.B.&M.**  
**2246' FNL 535' FEL**

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

**TOPOGRAPHIC** **01 23 09**  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: J.H. REVISED: 00-00-00 **TOPO**



**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

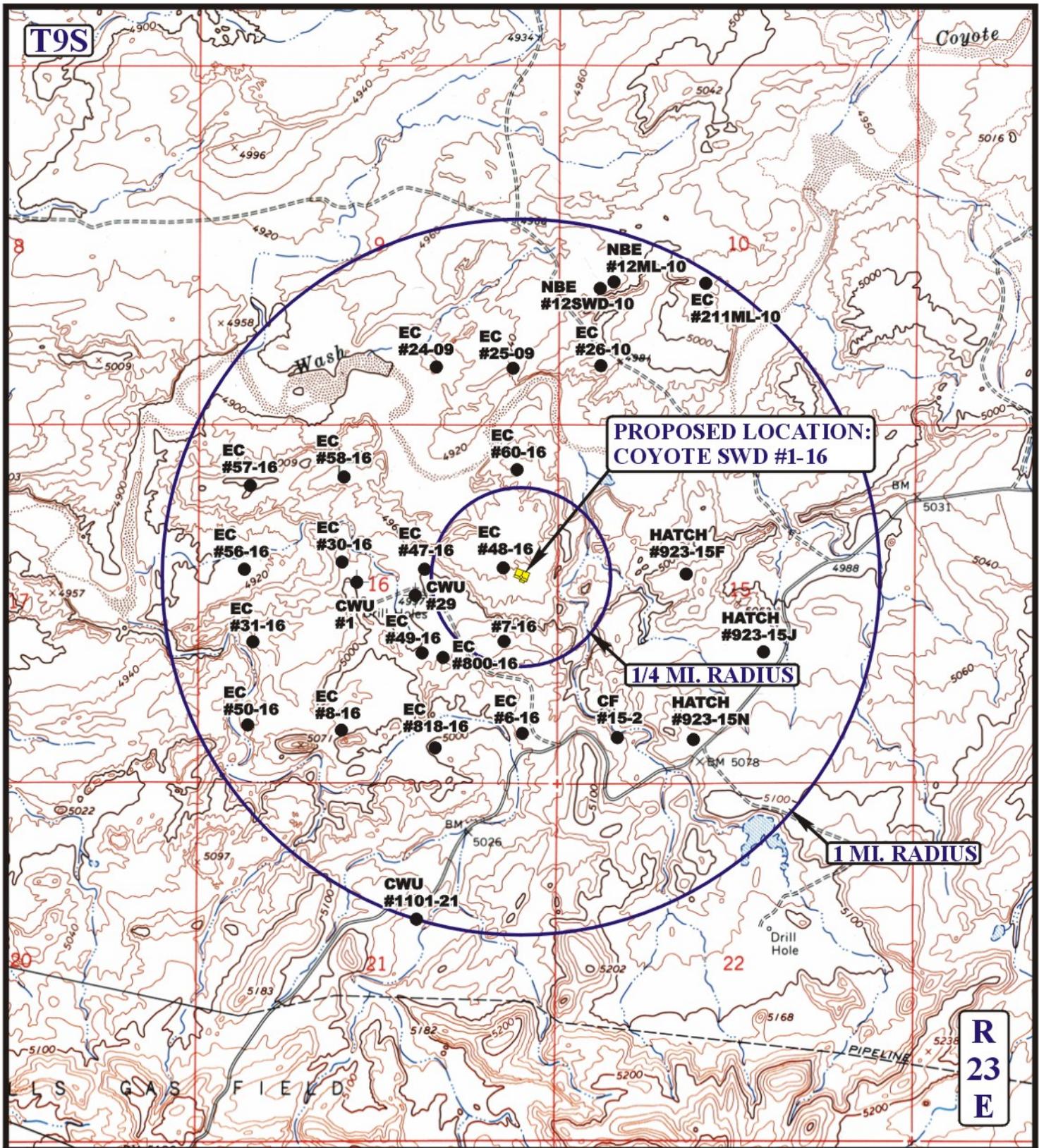


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**TOPOGRAPHIC MAP** **01 23 09**  
MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 00-00-00 **B TOPO**



**LEGEND:**

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

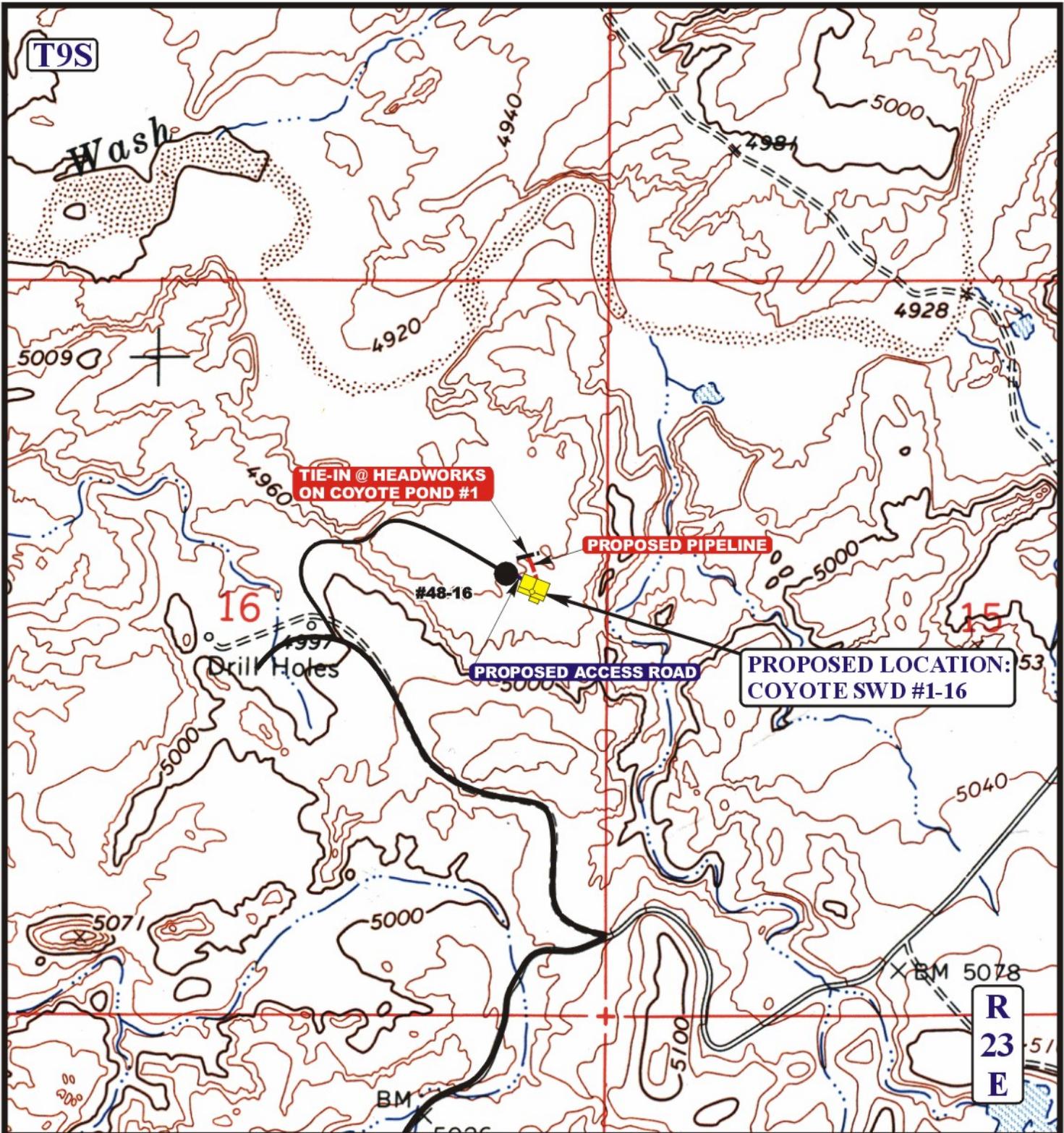


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**TOPOGRAPHIC MAP** 01 23 09  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.H. REVISED: 01-26-09 **C TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 177' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE

**EOG RESOURCES, INC.**

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**TOPOGRAPHIC** 01 23 09  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: J.H. REVISED: 01-26-09 **D**  
**TOPO**

**API Number: 4304750806**  
**Well Name: Coyote 1-16 SWD**  
**Township 09.0 S Range 23.0 E Section 16**  
**Meridian: SLBM**  
 Operator: EOG RESOURCES, INC.

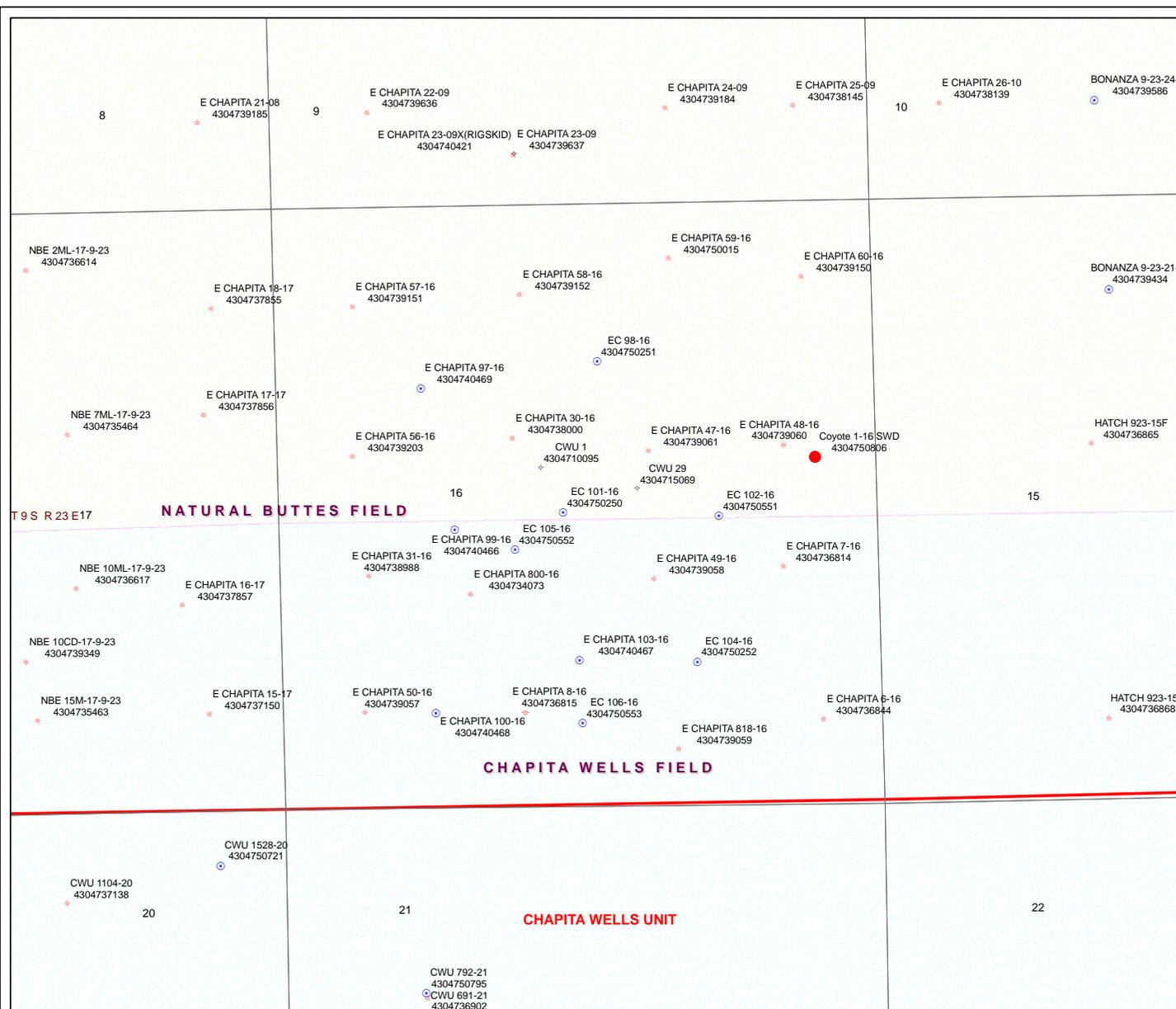
Map Prepared:  
 Map Produced by Diana Mason

- GAS INJECTION
  - GAS STORAGE
  - NEW LOCATION
  - PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - SHUT-IN OIL
  - TEMP. ABANDONED
  - TEST WELL
  - WATER INJECTION
  - WATER SUPPLY
  - WATER DISPOSAL
- Units
  - Spacing Index
  - ACTIVE FIELD
  - COMBINED FIELD



200 Feet

1:10,852



Well Name	EOG Resources, Inc. Coyote 1-16 SWD 43047508060000		
String	Surf		
Casing Size(")	13.375	9.625	
Setting Depth (TVD)	80	1675	
Previous Shoe Setting Depth (TVD)	0	80	
Max Mud Weight (ppg)	8.3	8.3	
BOPE Proposed (psi)	0	500	
Casing Internal Yield (psi)	1730	3350	
Operators Max Anticipated Pressure (psi)	500	4.9	

Calculations	Surf String	13.375	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	35	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	25	NO
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	17	NO      OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	17	NO
Required Casing/BOPE Test Pressure=		80	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi      *Assumes 1psi/ft frac gradient

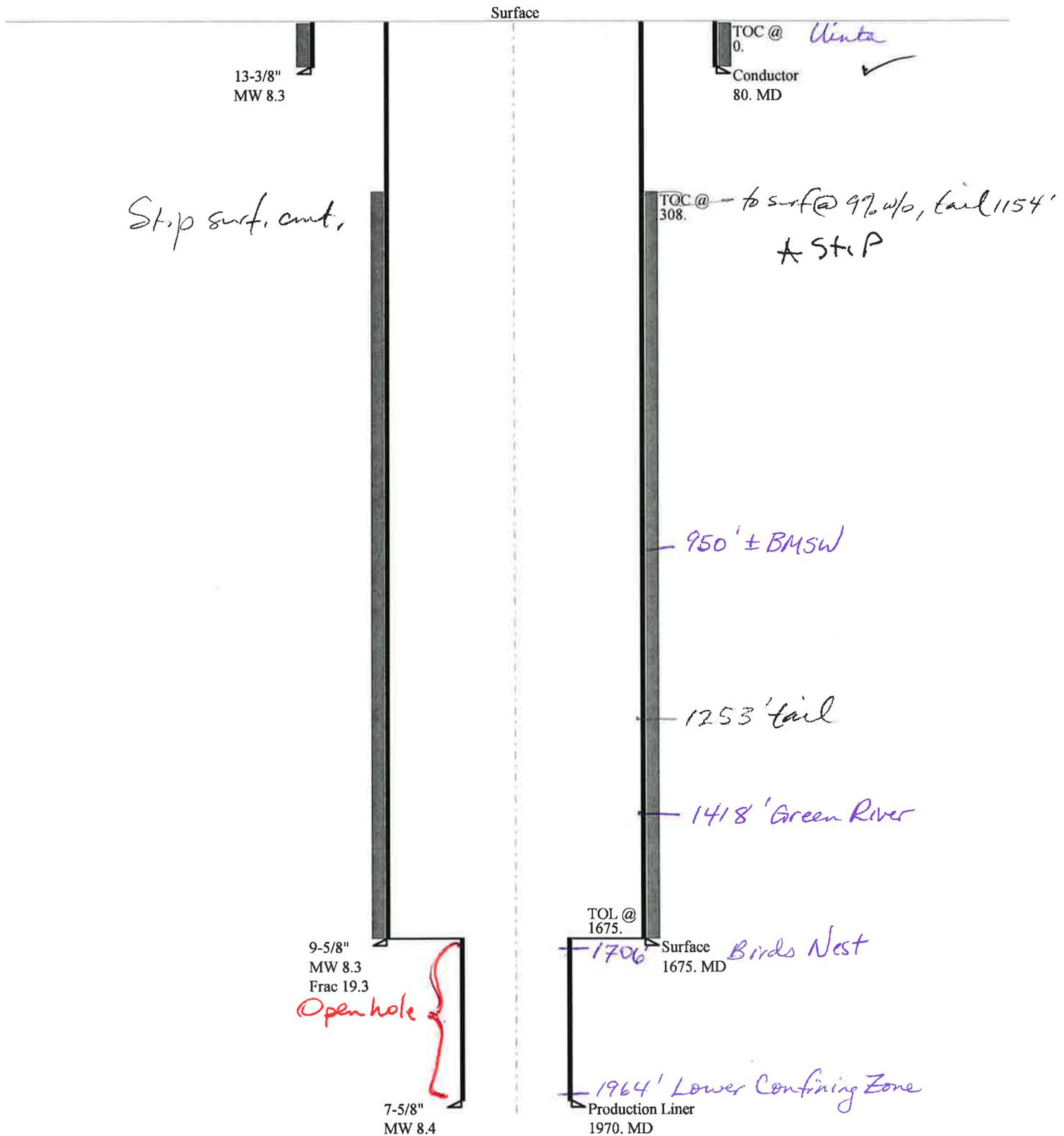
Calculations	String	9.625	"
Max BHP (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	850	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	614	NO      air drill
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	417	YES      OK
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	434	NO      Reasonable depth
Required Casing/BOPE Test Pressure=		500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi      *Assumes 1psi/ft frac gradient

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

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

# 43047508060000 Coyote 1-16 SWD

## Casing Schematic



Well name:	<b>43047508060000 Coyote 1-16 SWD</b>		
Operator:	<b>EOG Resources, Inc.</b>		Project ID:
String type:	Conductor		43-047-50806
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.330 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: 74 °F  
 Bottom hole temperature: 75 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft  
 Cement top: 1 ft

**Burst**

Max anticipated surface pressure: 25 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 35 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: 1.60 (B)

Tension is based on air weight.  
 Neutral point: 70 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)	Est. Cost (\$)
1	80	13.375	48.00	H-40	ST&C	80	80	12.59	992
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	35	740	21.376	35	1730	49.97	3.8	322	83.85 J

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

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

Date: January 19, 2010  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 80 ft, a mud weight of 8.33 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>43047508060000 Coyote 1-16 SWD</b>		
Operator:	<b>EOG Resources, Inc.</b>		
String type:	Surface	Project ID:	43-047-50806
Location:	UINTAH	COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 8.330 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 623 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 824 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: 1.60 (B)

Tension is based on air weight.  
 Neutral point: 1,469 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 97 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: 308 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 1,970 ft  
 Next mud weight: 8.400 ppg  
 Next setting BHP: 860 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 1,675 ft  
 Injection pressure: 1,675 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)	Est. Cost (\$)
1	1675	9.625	36.00	J-55	ST&C	1675	1675	8.796	14559
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	725	2020	2.787	824	3520	4.27	60.3	394	6.53 J

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

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

Date: April 21, 2010  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1675 ft, a mud weight of 8.33 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.



*EOG Resources, Inc.  
1060 E Hwy 40  
Vernal, Utah 84078*

September 21, 2010

Mr. Brad Hill  
Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84116

**RE: Coyote 1-16 SWD**

Dear Mr. Hill:

This letter is to certify, EOG Resources, Inc. will not establish hydrocarbon production from the Coyote 1-16 SWD well bore. The proposed well bore will be used for the disposal of produced water as authorized by The Environmental Protection Agency. Please contact me at (435) 781-9111 if you have any additional questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Kaylene R. Gardner", with a horizontal line extending to the right.

Kaylene R. Gardner  
Sr. Regulatory Administrator

cc: File

**RECEIVED**

**SEP 23 2010**

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

**From:** Chris Fausett  
**To:** Hill, Brad; Mason, Diana  
**CC:** Gardner, Kaylene  
**Date:** 12/9/2010 3:45 PM  
**Subject:** EOG Coyote 1-16 SWD APD Approval

SITLA approves the APD for EOG Resources, Inc's Coyote 1-16 SWD Well (API #43-047-50806), subject to the following stipulations. Please include the following in the APD's conditions of approval:

1. Prior to the injection of any produced water into the above referenced well, the operator must obtain authorization from SITLA in the form of a surface special use lease specifically authorizing the operation of a disposal well on the leased premises.
2. The operator shall promptly provide to SITLA, attn: Chris Fausett, copies of all Weekly Progress Reports for drilling and completion activities.
3. Pursuant to the paleontological report submitted by Intermountain Paleo Consulting (IPC #10-174), a permitted paleontologist shall be present to monitor all ground disturbing activities in the development of this project.

An archaeological survey of the project area has been conducted and the area has been cleared for cultural resources. The SITLA contact for this project is Chris Fausett, 801-538-5139, [chrisfausett@utah.gov](mailto:chrisfausett@utah.gov).

Thanks,

Chris Fausett  
Resource Specialist  
State of Utah  
School and Institutional Trust Lands Administration  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102-2818  
Phone: (801) 538-5139

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** EOG RESOURCES, INC.  
**Well Name** Coyote 1-16 SWD  
**API Number** 43047508060000      **APD No** 2150      **Field/Unit** NATURAL BUTTES  
**Location: 1/4,1/4** SENE      **Sec** 16      **Tw** 9.0S      **Rng** 23.0E      2246 FNL 535 FEL  
**GPS Coord (UTM)** 643012 4433011      **Surface Owner**

**Participants**

Floyd Bartlett (DOGM), Kaylene Gardner and Robert Wilkins (EOG), Jim Davis and Kurt Higgins (SITLA), Ben Williams (UDWR)

**Regional/Local Setting & Topography**

The general area is the Natural Buttes unit within the Coyote Wash drainage of Uintah County. Coyote Wash is a significant drainage beginning near the Utah-Colorado border to the east and joining the White River several miles to the west and south. The wash is dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. The topography is characterized by rolling hills, frequently divided by gentle to deep draws, which flow into Coyote Wash. The draws are often rimmed with steep side hills with exposed sand stone bedrock cliffs. Vernal, Utah is approximately 33 air miles and 55 road miles to the northwest. Utah State, Uintah County and oilfield development roads access the area to within 35 feet, which will require new construction.

The proposed Coyote 1-16 SWD (water disposal well) is in the vicinity of the Coyote water disposal ponds. It is near the head of this small valley. The bottom of Coyote Wash is less than ¼ mile to the north. The location is bordered on the north and east by water storage tanks. To the south and west are elevated ridges with sandstone rock outcrops. Small drainages intersect the proposed site and will be diverted to the north and west around the pad. The finished pad will be small (135' x 200'). The well will be drilled with an air rig to a proposed depth of 1970 feet. A small pit will be constructed on the southeast side of the pad for the cuttings. If any fluids are required, the pit will be lined with betenote. The site appears to be a suitable location for constructing and operating a well as proposed.

The surface and minerals for this location are owned by SITLA. Both Kurt Higgins and Jim Davis of SITLA attended the site visit and had no concerns regarding the proposal.

**Surface Use Plan**

**Current Surface Use**  
 Industrial

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.01	<b>Width</b> 185 <b>Length</b> 200	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?**

**Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

The area was covered with about 6 inches of snow. Identified vegetation includes sagebrush, bud sage, greasewood, halogeton, Indian ricegrass, curly mesquite, shadscale, cheatgrass, broom snakeweed, Russian thistle, rabbit brush and spring annuals.

Antelope, small mammals and birds.

**Soil Type and Characteristics**

Moderately rocky shallow sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** Y

Small drainages intersect the proposed site and will be diverted to the north and west around the pad.

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

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

**Reserve Pit**

<b>Site-Specific Factors</b>	<b>Site Ranking</b>	
<b>Distance to Groundwater (feet)</b>		20
<b>Distance to Surface Water (feet)</b>	300 to 1000	2
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	47
		1 Sensitivity Level

**Characteristics / Requirements**

The well will be drilled by an air rig. A small pit will be constructed on the southeast side of the pad for the cuttings. If any fluids are required, the pit will be lined with betenoite.

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

**Other Observations / Comments**

Floyd Bartlett  
**Evaluator**

12/8/2009  
**Date / Time**

# Application for Permit to Drill

## Statement of Basis

12/14/2010

### 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 Owner</b>	<b>CBM</b>
2150	43047508060000	REVISION	WD	S	No
<b>Operator</b>	EOG RESOURCES, INC.		<b>Surface Owner-APD</b>		
<b>Well Name</b>	Coyote 1-16 SWD		<b>Unit</b>		
<b>Field</b>	NATURAL BUTTES		<b>Type of Work</b>	DRILL	
<b>Location</b>	SENE 16 9S 23E S 2246 FNL 535 FEL GPS Coord (UTM) 643020E 4433008N				

### Geologic Statement of Basis

EOG proposes to set 1,970' of surface casing at this location. The well is proposed as a produced water disposal well with a total depth of 1,970'. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 950'. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of Section 16. This well is located approximately 1 mile west of the proposed well. It is listed as 700 feet in depth and is used for oilfield purposes. 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 proposed casing and cement should adequately protect any usable ground water.

Brad Hill  
**APD Evaluator**

1/11/2010  
**Date / Time**

### Surface Statement of Basis

The general area is the Natural Buttes unit within the Coyote Wash drainage of Uintah County. Coyote Wash is a significant drainage beginning near the Utah-Colorado border to the east and joining the White River several miles to the west and south. The wash is dry except for ephemeral flows. No seeps or springs exist in the area. An occasional pond has been constructed to supply water for livestock and antelope. The topography is characterized by rolling hills, frequently divided by gentle to deep draws, which flow into Coyote Wash. The draws are often rimmed with steep side hills with exposed sand stone bedrock cliffs. Vernal, Utah is approximately 33 air miles and 55 road miles to the northwest. Utah State, Uintah County and oilfield development roads access the area to within 35 feet, which will require new construction.

The proposed Coyote 1-16 SWD (water disposal well) is in the vicinity of the Coyote water disposal ponds. It is near the head of this small valley. The bottom of Coyote Wash is less than ¼ mile to the north. The location is bordered on the north and east by water storage tanks. To the south and west are elevated ridges with sandstone rock outcrops. Small drainages intersect the proposed site and will be diverted to the north and west around the pad. The finished pad will be small (135' x 200'). The well will be drilled with an air rig to a proposed depth of 1970 feet. A small pit will be constructed on the southeast side of the pad for the cuttings. If any fluids are required, the pit will be lined with betenoite. The site appears to be a suitable location for constructing and operating a well as proposed.

The surface and minerals for this location are owned by SITLA. Both Kurt Higgins and Jim Davis of SITLA attended the site visit and had no concerns regarding the proposal. Ben Williams represented the Utah Division of Wildlife Resources. He also had no comments regarding wildlife issues. EOG's Reclamation Plan will be used when the site is reclaimed. Mr. Davis said this was ok but this effort needs to be coordinated with SITLA for review

Floyd Bartlett  
**Onsite Evaluator**

12/8/2009  
**Date / Time**

---

# Application for Permit to Drill Statement of Basis

12/14/2010

Utah Division of Oil, Gas and Mining

Page 2

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## Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 10/29/2009

**API NO. ASSIGNED:** 43047508060000

**WELL NAME:** Coyote 1-16 SWD

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

**PHONE NUMBER:** 435 781-9111

**CONTACT:** Kaylene Gardner

**PROPOSED LOCATION:** SENE 16 090S 230E

**Permit Tech Review:**

**SURFACE:** 2246 FNL 0535 FEL

**Engineering Review:**

**BOTTOM:** 2246 FNL 0535 FEL

**Geology Review:**

**COUNTY:** UINTAH

**LATITUDE:** 40.03708

**LONGITUDE:** -109.32369

**UTM SURF EASTINGS:** 643020.00

**NORTHINGS:** 4433008.00

**FIELD NAME:** NATURAL BUTTES

**LEASE TYPE:** 3 - State

**LEASE NUMBER:** ML47045

**PROPOSED PRODUCING FORMATION(S):** MAHOGANY BENCH

**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

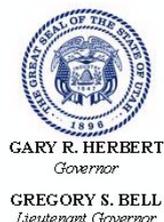
Commingling Approved

## LOCATION AND SITING:

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

**Comments:** Presite Completed

**Stipulations:**  
1 - Exception Location - dmason  
5 - Statement of Basis - bhill  
9 - Cement casing to Surface - hmacdonald



# 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:** Coyote 1-16 SWD  
**API Well Number:** 43047508060000  
**Lease Number:** ML47045  
**Surface Owner:** STATE  
**Approval Date:** 12/14/2010

**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 R649-3-3. The expected producing formation or pool is the MAHOGANY BENCH 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

**Exception Location:**

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

**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:**

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

The cement volumes for the 9 5/8" 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.

**Additional Approvals:**

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

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

**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  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

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

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**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:**



For John Rogers  
Associate Director, Oil & Gas



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202-1129  
<http://www.epa.gov/region8>

Ref: 8P-W-GW

**DEC 08 2010**

**RECEIVED**

**DEC 22 2010**

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

DIV. OF OIL, GAS & MINING

Mr. Ed Forsman  
EOG Resources, Inc.  
211 S, 100 East  
Vernal, UT 84078

Accepted by the  
Utah Division of  
Oil, Gas and Mining

**FOR RECORD ONLY**

Re: FINAL Permit  
EPA UIC Permit UT22165-08747  
Well: Coyote SWD 1-16  
SENE Sec. 16-T9S-R23E  
Uintah County, UT  
API No.: 43-047-50806

Dear Mr. Forsman:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Program Permit for the proposed Coyote SWD 1-16 injection well. A Statement of Basis that discusses the conditions and requirements of this Environmental Protection Agency (EPA) UIC Permit, is also included.

**NOV 18 2010**

The public comment period for this permit ended on \_\_\_\_\_ . No comments on the draft permit were received during the public notice period; therefore the effective date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this final permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the final permit, Part II Section C.1, and obtain written Authorization to Inject from EPA. It is your responsibility to be familiar with and to comply with all provisions of your final permit. The EPA forms referenced in the permit are available at <http://www.epa.gov/safewater/uic/reportingforms.html>. Guidance documents for Cement Bond Logging, Radioactive Tracer Testing, Step Rate Testing, Mechanical Integrity Demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at [http://www.epa.gov/region8/water/uic/deep\\_injection.html](http://www.epa.gov/region8/water/uic/deep_injection.html). Upon request, hard copies of the EPA forms and guidances can be provided.



Printed on Recycled Paper

This EPA UIC permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed final permit or Statement of Basis, please call Emmett Schmitz of my staff at (303) 312-6174, or toll-free at (800) 227-8917, ext. 312-6174.

Sincerely,



for

Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

Enclosure: Final UIC Permit  
Statement of Basis

cc: cc Letter Only:

Uintah & Ouray Business Committee:  
Richard Jenks, Jr., Chairman  
Frances Poowegup, Vice-Chairwoman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman  
Irene Cuch, Councilwoman  
Curtis Cesspooch, Councilman

Daniel Picard  
BIA – Uintah & Ouray Indian Agency

All Enclosures:

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

Fluid Minerals Engineering Office  
BLM – Vernal Utah

Michael Guinn  
District Manager  
Newfield Production Company  
Myton, Utah



**UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT**

PREPARED: December 2010

**Permit No. UT22165-08747**

Class II Salt Water Disposal Well

**Coyote SWD 1-16  
Uintah County, UT**

Issued To

**EOG Resources, Inc**  
P.O. Box 4362  
Houston, TX 77251-4362

## Part I. AUTHORIZATION TO CONSTRUCT AND OPERATE

Under the authority of the Safe Drinking Water Act and Underground Injection Control (UIC) Program regulations of the U. S. Environmental Protection Agency (EPA) codified at Title 40 of the Code of Federal Regulations (40 CFR) Parts 2, 124, 144, 146, and 147, and according to the terms of this Permit,

EOG Resources, Inc  
P.O. Box 4362  
Houston, TX 77251-4362

is authorized to construct and to operate the following Class II injection well or wells:

Coyote SWD 1-16  
2246' FNL & 535' FEL, SENE S16, T9S, R23E  
Uintah County, UT

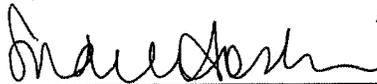
EPA regulates the injection of fluids into injection wells so that injection does not endanger underground sources of drinking water (USDWs). EPA UIC Permit conditions are based on authorities set forth at 40 CFR Parts 144 and 146, and address potential impacts to USDWs.

Under 40 CFR Part 144, Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General permit conditions for which the content is mandatory and not subject to site-specific differences are not discussed in this document. Issuance of this Permit does not convey any property rights of any sort or any exclusive privilege, nor does it authorize injury to persons or property or invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. (40 CFR §144.35) An EPA UIC Permit may be issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR §144.39, 144.40 and 144.41; and may be reviewed at least once every five (5) years to determine if action is required under 40 CFR §144.36(a).

This Permit is issued for the life of the well(s) unless modified, revoked and reissued, or terminated under 40 CFR §144.39 or 144.40. This EPA Permit may be adopted, modified, revoked and reissued, or terminated if primary enforcement authority for a UIC Program is delegated to an Indian Tribe or State. Upon the effective date of delegation, reports, notifications, questions and other correspondence should be directed to the Indian Tribe or State Director.

Issue Date: \_\_\_\_\_

Effective Date **DEC 08 2010**



Stephen S. Tuber  
Assistant Regional Administrator\*  
Office of Partnerships and Regulatory Assistance

\*NOTE: The person holding this title is referred to as the "Director" throughout this Permit.

## PART II. SPECIFIC PERMIT CONDITIONS

### Section A. WELL CONSTRUCTION REQUIREMENTS

These requirements represent the approved minimum construction standards for well casing and cement, injection tubing, and packer.

Details of the approved well construction plan are incorporated into this Permit as APPENDIX A. Changes to the approved plan that may occur during construction must be approved by the Director prior to being physically incorporated.

#### **1. Casing and Cement.**

The well or wells shall be cased and cemented to prevent the movement of fluids into or between underground sources of drinking water. The well casing and cement shall be designed for the life expectancy of the well and of the grade and size shown in APPENDIX A. Remedial cementing may be required if shown to be inadequate by cement bond log or other attempted demonstration of Part II (External) mechanical integrity.

#### **2. Injection Tubing and Packer.**

Injection tubing is required, and shall be run and set with a packer at or below the depth indicated in APPENDIX A. The packer setting depth may be changed provided it remains below the depth indicated in APPENDIX A and the Permittee provides notice and obtains the Director's approval for the change.

#### **3. Sampling and Monitoring Devices.**

The Permittee shall install and maintain in good operating condition:

- (a) a "tap" at a conveniently accessible location on the injection flow line between the pump house or storage tanks and the injection well, isolated by shut-off valves, for collection of representative samples of the injected fluid; and
- (b) one-half (1/2) inch female iron pipe fitting, isolated by shut-off valves and located at the wellhead at a conveniently accessible location, for the attachment of a pressure gauge capable of monitoring pressures ranging from normal operating pressures up to the Maximum Allowable Injection Pressure specified in APPENDIX C:
  - (i) on the injection tubing; and
  - (ii) on the tubing-casing annulus (TCA); and
- (c) a pressure actuated shut-off device attached to the injection flow line set to shut-off the injection pump when or before the Maximum Allowable Injection Pressure (MAIP) specified in APPENDIX C is reached at the wellhead; and
- (d) a non-resettable cumulative volume recorder attached to the injection line.

#### **4. Well Logging and Testing**

Well logging and testing requirements are found in APPENDIX B. The Permittee shall ensure the log and test requirements are performed within the time frames specified in APPENDIX B. Well logs and tests shall be performed according to current EPA-approved procedures. Well log and test results shall be submitted to the Director within sixty (60) days of completion of the logging or testing activity, and shall include a report describing the methods used during logging or testing and an interpretation of the test or log results.

#### **5. Postponement of Construction or Conversion**

The Permittee shall complete well construction within one year of the Effective Date of the Permit, or in the case of an Area Permit within one year of Authorization of the additional well. Authorization to construct and operate shall expire if the well has not been constructed within one year of the Effective Date of the Permit or Authorization and the Permit may be terminated under 40 CFR 144.40, unless the Permittee has notified the Director and requested an extension prior to expiration. Notification shall be in writing, and shall state the reasons for the delay and provide an estimated completion date. Once Authorization has expired under this part, the complete permit process including opportunity for public comment may be required before Authorization to construct and operate may be reissued.

#### **6. Workovers and Alterations**

Workovers and alterations shall meet all conditions of the Permit. Prior to beginning any addition or physical alteration to an injection well that may significantly affect the tubing, packer or casing, the Permittee shall give advance notice to the Director and obtain the Director's approval. The Permittee shall record all changes to well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workover, logging, or test data to EPA within sixty (60) days of completion of the activity.

A successful demonstration of Part I MI is required following the completion of any well workover or alteration which affects the casing, tubing, or packer. Injection operations shall not be resumed until the well has successfully demonstrated mechanical integrity and the Director has provided written approval to resume injection.

### **Section B. MECHANICAL INTEGRITY**

The Permittee is required to ensure each injection well maintains mechanical integrity at all times. The Director, by written notice, may require the Permittee to comply with a schedule describing when mechanical integrity demonstrations shall be made.

An injection well has mechanical integrity if:

- (a) There is no significant leak in the casing, tubing, or packer (Part I); and
- (b) There is no significant fluid movement into an underground source of drinking water through vertical channels adjacent to the injection well bore (Part II).

### **1. Demonstration of Mechanical Integrity (MI).**

The operator shall demonstrate MI prior to commencing injection and periodically thereafter. Well-specific conditions dictate the methods and the frequency for demonstrating MI and are discussed in the Statement of Basis. The logs and tests are designed to demonstrate both internal (Part I) and external (Part II) MI as described above. The conditions present at this well site warrant the methods and frequency required in Appendix B of this Permit.

In addition to these regularly scheduled demonstrations of MI, the operator shall demonstrate internal (Part I) MI after any workover which affects the tubing, packer or casing.

The Director may require additional or alternative tests if the results presented by the operator are not satisfactory to the Director to demonstrate there is no movement of fluid into or between USDWs resulting from injection activity. Results of MI tests shall be submitted to the Director as soon as possible but no later than sixty (60) days after the test is complete.

### **2. Mechanical Integrity Test Methods and Criteria**

EPA-approved methods shall be used to demonstrate mechanical integrity. Ground Water Section Guidance No. 34 "Cement Bond Logging Techniques and Interpretation", Ground Water Section Guidance No. 37, "Demonstrating Part II (External) Mechanical Integrity for a Class II injection well permit", and Ground Water Section Guidance No. 39, "Pressure Testing Injection Wells for Part I (Internal) Mechanical Integrity" are available from EPA and will be provided upon request.

The Director may stipulate specific test methods and criteria best suited for a specific well construction and injection operation.

### **3. Notification Prior to Testing.**

The Permittee shall notify the Director at least 30 days prior to any scheduled mechanical integrity test. The Director may allow a shorter notification period if it would be sufficient to enable EPA to witness the mechanical integrity test. Notification may be in the form of a yearly or quarterly schedule of planned mechanical integrity tests, or it may be on an individual basis.

### **4. Loss of Mechanical Integrity.**

If the well fails to demonstrate mechanical integrity during a test, or a loss of mechanical integrity becomes evident during operation (such as presence of pressure in the TCA, water flowing at the surface, etc.), the Permittee shall notify the Director within 24 hours (see Part III Section E Paragraph 11(e) of this Permit) and the well shall be shut-in within 48 hours unless the Director requires immediate shut-in.

Within five days, the Permittee shall submit a follow-up written report that documents test results, repairs undertaken or a proposed remedial action plan.

Injection operations shall not be resumed until after the well has successfully been repaired and demonstrated mechanical integrity, and the Director has provided approval to resume injection.

**Section C. WELL OPERATION**

**INJECTION BETWEEN THE OUTERMOST CASING PROTECTING UNDERGROUND SOURCES OF DRINKING WATER AND THE WELL BORE IS PROHIBITED.**

Injection is approved under the following conditions:

**1. Requirements Prior to Commencing Injection.**

Well injection, including for new wells authorized by an Area Permit under 40 CFR 144.33 (c), may commence only after all well construction and pre-injection requirements herein have been met and approved. The Permittee may not commence injection until construction is complete, and

- (a) The Permittee has submitted to the Director a notice of completion of construction and a completed EPA Form 7520-10 or 7520-12; all applicable logging and testing requirements of this Permit (see APPENDIX B) have been fulfilled and the records submitted to the Director; mechanical integrity pursuant to 40 CFR 146.8 and Part II Section B of this Permit has been demonstrated; and
  - (i) The Director has inspected or otherwise reviewed the new injection well and finds it is in compliance with the conditions of the Permit; or
  - (ii) The Permittee has not received notice from the Director of his or her intent to inspect or otherwise review the new injection well within 13 days of the date of the notice in Paragraph 1a, in which case prior inspection or review is waived and the Permittee may commence injection.

As described in Appendix B, the permittee must collect a representative, isolated sample of injection zone formation water and analyze for naturally occurring hydrocarbons. The following procedure describes how all water samples will be analyzed for hydrocarbon content:

The water sample will be captured in a container while maintaining a volume of empty headspace in the container above the water sample. The headspace volume will be tested using gas chromatography for methane, ethane, propane, iso-butane, butane and pentane resulting from the degassing of any dissolved gases from the water into the headspace of a sampling container. To analyze for other hydrocarbons, the water sample will be solvent extracted with dichloromethane (DCM). The resulting extract will be analyzed by gas chromatography. These results will be submitted to the appropriate offices of BLM and EPA within thirty days of the completion of the specified laboratory analyses.

## **2. Injection Interval.**

Injection is permitted only within the approved injection interval, listed in APPENDIX C. Additional individual injection perforations may be added provided that they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6.

In order to establish how the Bird's Nest reacts to injection, permit conditions will require the injection well to undergo monitoring of annual fluid levels. During these tests, the injection well is shut-in and the static fluid level is allowed to stabilize. After the fluid level has stabilized, the static fluid level is measured, cumulative injected volume determined, and the fluid in the well is sampled and analyzed for specific gravity in order to determine the pressure in the Bird's Nest. This information will be tracked year-to-year in order to show the buildup of pressure in the Bird's Nest and the relationship between that pressure and the cumulative volume injected of fluid injected into the disposal well.

## **3. Injection Pressure Limitation**

- (a) The permitted Maximum Allowable Injection Pressure (MAIP), measured at the wellhead, is found in APPENDIX C. Injection pressure shall not exceed the amount the Director determines is appropriate to ensure that injection does not initiate new fractures or propagate existing fractures in the confining zone adjacent to USDWs. In no case shall injection pressure cause the movement of injection or formation fluids into a USDW.
- (b) The Permittee may request a change of the MAIP, or the MAIP may be increased or decreased by the Director in order to ensure that the requirements in Paragraph (a) above are fulfilled. The Permittee may be required to conduct a step rate injection test or other suitable test to provide information for determining the fracture pressure of the injection zone. Change of the permitted MAIP by the Director shall be by modification of this Permit and APPENDIX C.

## **4. Injection Volume Limitation.**

Injection volume is limited to the total volume specified in APPENDIX C.

## **5. Injection Fluid Limitation.**

Injected fluids are limited to those which are brought to the surface in connection with conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations unless those waters are classified as a hazardous waste at the time of injection, pursuant to 40 CFR 144.6(b). The well also may be used to inject approved Class II wastes brought to the surface such as drilling fluids and spent well completion, treatment and stimulation fluids. Non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes and vacuum truck wastes, are NOT approved. This well is NOT approved for commercial brine or other fluid disposal operation.

The source of injected fluids is limited to oil and gas production wells operated by the permittee.

## **6. Tubing-Casing Annulus (TCA)**

The tubing-casing annulus (TCA) shall be filled with water treated with a corrosion inhibitor, or other fluid approved by the Director. The TCA valve shall remain closed during normal operating conditions and the TCA pressure shall be maintained at zero (0) psi.

If TCA pressure cannot be maintained at zero (0) psi, the Permittee shall follow the procedures in Ground Water Section Guidance No. 35 "Procedures to follow when excessive annular pressure is observed on a well."

## **Section D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS**

### **1. Monitoring Parameters, Frequency, Records and Reports.**

Monitoring parameters are specified in APPENDIX D. Pressure monitoring recordings shall be taken at the wellhead. The listed parameters are to be monitored, recorded and reported at the frequency indicated in APPENDIX D even during periods when the well is not operating.

Monitoring records must include:

- (a) the date, time, exact place and the results of the observation, sampling, measurement, or analysis, and;
- (b) the name of the individual(s) who performed the observation, sampling, measurement, or analysis, and;
- (c) the analytical techniques or methods used for analysis.

### **2. Monitoring Methods.**

- (a) Monitoring observations, measurements, samples, etc. taken for the purpose of complying with these requirements shall be representative of the activity or condition being monitored.
- (b) Methods used to monitor the nature of the injected fluids must comply with analytical methods cited and described in Table 1 of 40 CFR 136.3 or Appendix III of 40 CFR 261, or by other methods that have been approved in writing by the Director.
- (c) Injection pressure, annulus pressure, injection rate, and cumulative injected volumes shall be observed and recorded at the wellhead under normal operating conditions, and all parameters shall be observed simultaneously to provide a clear depiction of well operation.
- (d) Pressures are to be measured in pounds per square inch (psi).
- (e) Fluid volumes are to be measured in standard oil field barrels (bbl).
- (f) Fluid rates are to be measured in barrels per day (bbl/day).

### **3. Records Retention.**

- (a) Records of calibration and maintenance, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained for a period of AT LEAST THREE (3) YEARS from the date of the sample, measurement, report, or application. This period may be extended anytime prior to its expiration by request of the Director.
- (b) Records of the nature and composition of all injected fluids must be retained until three (3) years after the completion of any plugging and abandonment (P&A) procedures specified under 40 CFR 144.52(a)(6) or under Part 146 Subpart G, as appropriate. The Director may require the Permittee to deliver the records to the Director at the conclusion of the retention period. The Permittee shall continue to retain the records after the three (3) year retention period unless the Permittee delivers the records to the Director or obtains written approval from the Director to discard the records.

### **4. Annual Reports.**

Whether the well is operating or not, the Permittee shall submit an Annual Report to the Director that summarizes the results of the monitoring required by Part II Section D and APPENDIX D. The report of fluids injected during the year must identify each new fluid source by well name and location, and the field name or facility name.

The first Annual Report shall cover the period from the effective date of the Permit through December 31 of that year. Subsequent Annual Reports shall cover the period from January 1 through December 31 of the reporting year. Annual Reports shall be submitted by February 15 of the year following data collection. EPA Form 7520-11 may be copied and shall be used to submit the Annual Report, however, the monitoring requirements specified in this Permit are mandatory even if EPA Form 7520-11 indicates otherwise.

## **Section E. PLUGGING AND ABANDONMENT**

### **1. Notification of Well Abandonment, Conversion or Closure.**

The Permittee shall notify the Director in writing at least forty-five (45) days prior to: 1) plugging and abandoning an injection well, 2) converting to a non-injection well, and 3) in the case of an Area Permit, before closure of the project.

## **2. Well Plugging Requirements**

Prior to abandonment, the injection well shall be plugged with cement in a manner which isolates the injection zone and prevents the movement of fluids into or between underground sources of drinking water, and in accordance with 40 CFR 146.10 and other applicable Federal, State or local law or regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Prior to placement of the cement plug(s) the well shall be in a state of static equilibrium with the mud weight equalized top to bottom, either by circulating the mud in the well at least once or by a comparable method prescribed by the Director.

## **3. Approved Plugging and Abandonment Plan.**

The approved plugging and abandonment plan is incorporated into this Permit as APPENDIX E. Changes to the approved plugging and abandonment plan must be approved by the Director prior to beginning plugging operations. The Director also may require revision of the approved plugging and abandonment plan at any time prior to plugging the well.

## **4. Forty Five (45) Day Notice of Plugging and Abandonment.**

The Permittee shall notify the Director at least forty-five (45) days prior to plugging and abandoning a well and provide notice of any anticipated change to the approved plugging and abandonment plan.

## **5. Plugging and Abandonment Report.**

Within sixty (60) days after plugging a well, the Permittee shall submit a report (EPA Form 7520-13) to the Director. The plugging report shall be certified as accurate by the person who performed the plugging operation. Such report shall consist of either:

- (a) A statement that the well was plugged in accordance with the approved plugging and abandonment plan; or
- (b) Where actual plugging differed from the approved plugging and abandonment plan, an updated version of the plan, on the form supplied by the Director, specifying the differences.

## **6. Inactive Wells.**

After any period of two years during which there is no injection the Permittee shall plug and abandon the well in accordance with Part II Section E Paragraph 2 of this Permit unless the Permittee:

- (a) Provides written notice to the Director;

- (b) Describes the actions or procedures the Permittee will take to ensure that the well will not endanger USDWs during the period of inactivity. These actions and procedures shall include compliance with mechanical integrity demonstration, Financial Responsibility and all other permit requirements designed to protect USDWs; and
- (c) Receives written notice by the Director temporarily waiving plugging and abandonment requirements.

## PART III. CONDITIONS APPLICABLE TO ALL PERMITS

### Section A. EFFECT OF PERMIT

The Permittee is allowed to engage in underground injection in accordance with the conditions of this Permit. The Permittee shall not construct, operate, maintain, convert, plug, abandon, or conduct any other activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR 142 or may otherwise adversely affect the health of persons. Any underground injection activity not authorized by this Permit or by rule is prohibited. Issuance of this Permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of any other Federal, State or local law or regulations. Compliance with the terms of this Permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment, for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the Permittee's independent obligation to comply with all UIC regulations. Nothing in this Permit relieves the Permittee of any duties under applicable regulations.

### Section B. CHANGES TO PERMIT CONDITIONS

#### **1. Modification, Reissuance, or Termination.**

The Director may, for cause or upon a request from the Permittee, modify, revoke and reissue, or terminate this Permit in accordance with 40 CFR 124.5, 144.12, 144.39, and 144.40. Also, this Permit is subject to minor modification for causes as specified in 40 CFR 144.41. The filing of a request for modification, revocation and reissuance, termination, or the notification of planned changes or anticipated noncompliance on the part of the Permittee does not stay the applicability or enforceability of any condition of this Permit.

#### **2. Conversions.**

The Director may, for cause or upon a written request from the Permittee, allow conversion of the well from a Class II injection well to a non-Class II well. Conversion may not proceed until the Permittee receives written approval from the Director. Conditions of such conversion may include but are not limited to, approval of the proposed well rework, follow up demonstration of mechanical integrity, well-specific monitoring and reporting following the conversion, and demonstration of practical use of the converted configuration.

#### **3. Transfer of Permit.**

Under 40 CFR 144.38, this Permit is transferable provided the current Permittee notifies the Director at least thirty (30) days in advance of the proposed transfer date (EPA Form 7520-7) and provides a written agreement between the existing and new Permittees containing a specific date for transfer of Permit responsibility, coverage and liability between them. The notice shall adequately demonstrate that the financial responsibility requirements of 40 CFR 144.52(a)(7) will be met by the new Permittee. The Director may require modification or revocation and reissuance of the Permit to change the name of the Permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act; in some cases, modification or revocation and reissuance is mandatory.

#### **4. Permittee Change of Address.**

Upon the Permittee's change of address, or whenever the operator changes the address where monitoring records are kept, the Permittee must provide written notice to the Director within 30 days.

#### **5. Construction Changes, Workovers, Logging and Testing Data**

The Permittee shall give advance notice to the Director, and shall obtain the Director's written approval prior to any physical alterations or additions to the permitted facility. Alterations or workovers shall meet all conditions as set forth in this permit. The Permittee shall record any changes to the well construction on a Well Rework Record (EPA Form 7520-12), and shall provide this and any other record of well workovers, logging, or test data to EPA within sixty (60) days of completion of the activity.

Following the completion of any well workovers or alterations which affect the casing, tubing, or packer, a successful demonstration of mechanical integrity (Part III, Section F of this Permit) shall be made, and written authorization from the Director received, prior to resuming injection activities.

### **Section C. SEVERABILITY**

The Provisions of this Permit are severable, and if any provision of this Permit or the application of any provision of this Permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this Permit shall not be affected thereby.

### **Section D. CONFIDENTIALITY**

In accordance with 40 CFR Part 2 and 40 CFR 144.5, information submitted to EPA pursuant to this Permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the Permittee, and
- information which deals with the existence, absence or level of contaminants in drinking water.

### **Section E. GENERAL PERMIT REQUIREMENTS**

#### **1. Duty to Comply.**

The Permittee must comply with all conditions of this Permit. Any noncompliance constitutes a violation of the Safe Drinking Water Act (SDWA) and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application; except that the Permittee need not comply with the provisions of this Permit to the extent and for the duration such noncompliance is authorized in an emergency permit under 40 CFR 144.34. All violations of the SDWA may subject the Permittee to penalties and/or criminal prosecution as specified in Section 1423 of the SDWA.

**2. Duty to Reapply.**

If the Permittee wishes to continue an activity regulated by this Permit after the expiration date of this Permit, under 40 CFR 144.37 the Permittee must apply for a new permit prior to the expiration date.

**3. Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

**4. Duty to Mitigate.**

The Permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this Permit.

**5. Proper Operation and Maintenance.**

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of this Permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this Permit.

**6. Permit Actions.**

This Permit may be modified, revoked and reissued or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

**7. Property Rights.**

This Permit does not convey any property rights of any sort, or any exclusive privilege.

**8. Duty to Provide Information.**

The Permittee shall furnish to the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Director, upon request, copies of records required to be kept by this Permit. The Permittee is required to submit any information required by this Permit or by the Director to the mailing address designated in writing by the Director.

**9. Inspection and Entry.**

The Permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (a) Enter upon the Permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this Permit;

- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- (c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Permit; and,
- (d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the SDWA, any substances or parameters at any location.

**10. Signatory Requirements.**

All applications, reports or other information submitted to the Director shall be signed and certified according to 40 CFR 144.32. This section explains the requirements for persons duly authorized to sign documents, and provides wording for required certification.

**11. Reporting Requirements.**

- (a) Planned changes. The Permittee shall give notice to the Director as soon as possible of any planned changes, physical alterations or additions to the permitted facility, and prior to commencing such changes.
- (b) Anticipated noncompliance. The Permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- (c) Monitoring Reports. Monitoring results shall be reported at the intervals specified in this Permit.
- (d) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this Permit shall be submitted no later than 30 days following each schedule date.
- (e) Twenty-four hour reporting. The Permittee shall report to the Director any noncompliance which may endanger human health or the environment, including:
  - (i) Any monitoring or other information which indicates that any contaminant may cause endangerment to a USDW; or
  - (ii) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDWs.

Information shall be provided, either directly or by leaving a message, within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning (800) 227-8917 and requesting EPA Region VIII UIC Program Compliance and Technical Enforcement Director, or by contacting the EPA Region VIII Emergency Operations Center at (303) 293-1788.

In addition, a follow up written report shall be provided to the Director within five (5) days of the time the Permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance including exact dates and times, and if the noncompliance has not been corrected the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

- (f) Oil Spill and Chemical Release Reporting: The Permittee shall comply with all reporting requirements related to the occurrence of oil spills and chemical releases by contacting the National Response Center (NRC) at (800) 424-8802, (202) 267-2675, or through the NRC website <http://www.nrc.uscg.mil/index.htm>.
- (g) Other Noncompliance. The Permittee shall report all instances of noncompliance not reported under paragraphs Part III, Section E Paragraph 11(b) or Section E, Paragraph 11(e) at the time the monitoring reports are submitted. The reports shall contain the information listed in Paragraph 11(e) of this Section.
- (h) Other information. Where the Permittee becomes aware that it failed to submit any relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the Permittee shall promptly submit such facts or information to the Director.

## **Section F. FINANCIAL RESPONSIBILITY**

### ***1. Method of Providing Financial Responsibility.***

The Permittee shall maintain continuous compliance with the requirement to maintain financial responsibility and resources to close, plug, and abandon the underground injection well(s). No substitution of a demonstration of financial responsibility shall become effective until the Permittee receives written notification from the Director that the alternative demonstration of financial responsibility is acceptable. The Director may, on a periodic basis, require the holder of a permit to revise the estimate of the resources needed to plug and abandon the well to reflect changes in such costs and may require the Permittee to provide a revised demonstration of financial responsibility.

### ***2. Insolvency.***

In the event of:

- (a) the bankruptcy of the trustee or issuing institution of the financial mechanism; or
- (b) suspension or revocation of the authority of the trustee institution to act as trustee; or

- (c) the institution issuing the financial mechanism losing its authority to issue such an instrument

the Permittee must notify the Director in writing, within ten (10) business days, and the Permittee must establish other financial assurance or liability coverage acceptable to the Director within sixty (60) days after any event specified in (a), (b), or (c) above.

The Permittee must also notify the Director by certified mail of the commencement of voluntary or involuntary proceedings under Title 11 (Bankruptcy), U.S. Code naming the owner or operator as debtor, within ten (10) business days after the commencement of the proceeding. A guarantor, if named as debtor of a corporate guarantee, must make such a notification as required under the terms of the guarantee.

## APPENDIX A

### WELL CONSTRUCTION REQUIREMENTS

See diagram.

#### PROPOSED WELL CONSTRUCTION

All depths are approximates. The well construction process will involve the following generalized procedure:

1. Drill a 20 inch hole to 80 feet to set 13-3/8 inch conductor pipe. Cement to surface.
2. Drill a 12-1/4 inch hole from 80 feet to 1,675 feet. Sample any water influxes that may occur on the way to this point. Set 9-5/8 inch casing to 1,675 feet. Cement to surface.
3. Drill an 8-3/4 inch hole from 1,675 feet to approximate total depth (TD) 1,970 feet.
4. The packer will be set no higher than 100 feet above the base of the 9-5/8 inch casing.

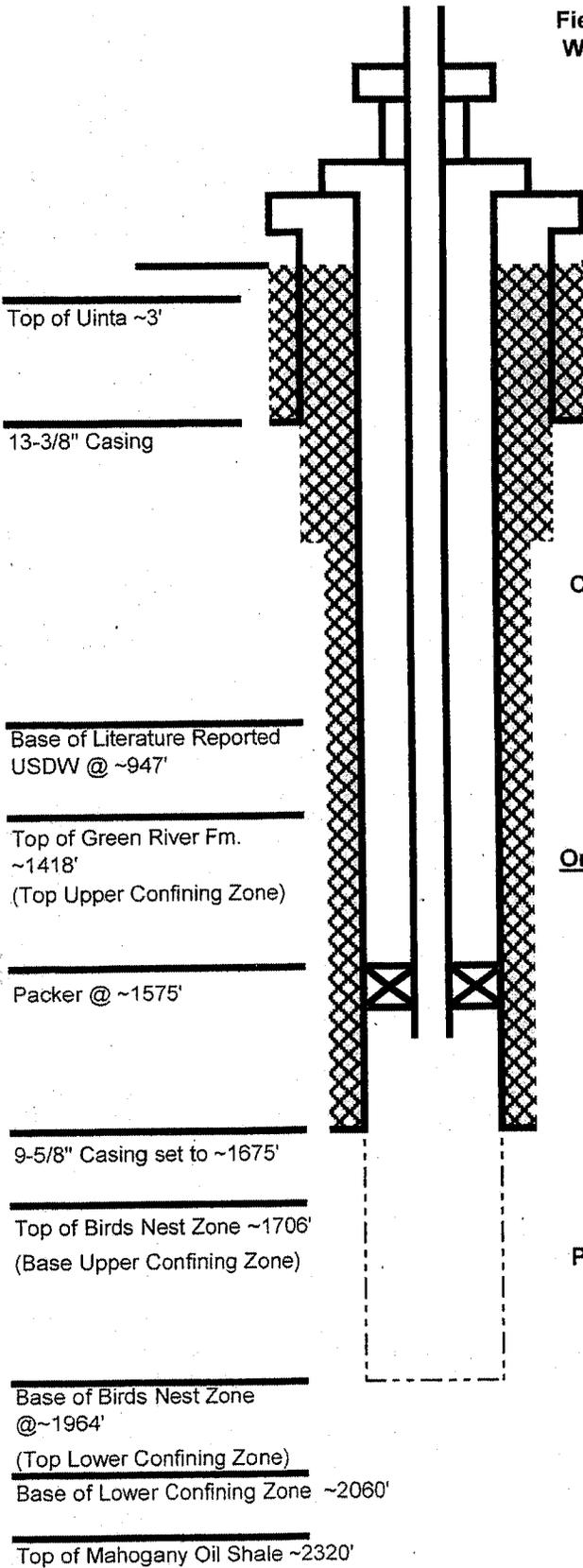
APPENDIX A-1 proposed well completion. Confining zone, injection interval and packer setting depths are approximate pending cased-hole logging results. The schematic assumes no corrective action such as remedial cementing will be required. A detailed completion procedure will be submitted for EPA approval after the well is drilled, cased, cemented and logged.

#### WELLHEAD EQUIPMENT:

- \* Sampling tap located to enable sampling fluid in the injection tubing
- \* Sampling tap located to enable sampling fluid in the tubing-casing annulus
- \* Pressure gauge isolated by 1/2" FIP shut-off valve or quick-connect and located to enable reading the pressure on the injection tubing
- \* Pressure gauge isolated by 1/2" FIP shut-off valve or quick-connect and located to enable reading the pressure on the tubing-casing annulus
- \* Pressure actuated shut-off device located on the injection line, and set to prevent injection operations from exceeding the maximum allowable injection pressure
- \* Non-resettable cumulative volume

**PROPOSED WELL BORE DIAGRAM**

Operator: EOG Resources, Inc.  
 Field Name: Chapita Wells/Badlands Area  
 Well Name: Coyote SWD 1-16  
 Location: 2246' FNL & 535' FEL (SE/NE) Sec. 16-  
 T9S-R23E  
 County: Uintah  
 API#: 43-047-50806  
 Date: 10/15/2010



GL: 4947'

KB: 4957' (est.)

Spud Date: ASAP after approval

Completion Date: ASAP after approval

**Conductor Casing:** Drill a 20" hole w/air to 0 - 80'  
 Run 13-3/8" 48# H-40 csg to +/- 80'  
 Cement to surface

**Surface Casing:** Drill a 12-1/4" hole w/air to ~1675'  
 Run 9-5/8", 36# J-55 csg to ~1675'  
 Cement w/580 sx Class "G"

All depths are approximate.  
 Actual depths will be determined  
 while drilling the well.

**Original Completion**

**Formation:** Green River (Birds Nest Zone)

**Perforations:** Open Hole ~1675' to ~1970'

**Tubing:** 3 1/2" 9.3#, J-55 (lined) @ tbd

**Packer:** To be placed within 100' of ~1675'

**PBTD:** ~1970'

**Production Casing:** Drill 8-3/4" hole to TD

**TD:** ~1970'

## APPENDIX B

### LOGGING AND TESTING REQUIREMENTS

#### Logs.

Logs will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well logging required as a condition of this permit.

WELL NAME: Coyote SWD 1-16	
TYPE OF LOG	DATE DUE
TEMP	AOR WELL East Chapita 102-16: Prior to receiving authorization to inject and at least once annually thereafter. Log should be run from 100 ft below lower confining zone to surface.
TEMP	AOR WELL East Chapita 7-16: Prior to receiving authorization to inject and at least once annually thereafter. Log should be run from 100 ft below lower confining zone to surface.
TEMP	AOR WELL East Chapita 48-16: Prior to receiving authorization to inject; 6 months after injection and at least once annually thereafter. Log should be run from 100 ft below lower confining zone to surface.
TEMP	Injection Well: If CBL fails to prove Part II Mechanical Integrity. Prior to receiving authorization to inject and at least once every five (5) years after the last successful demonstration.
RATS	Injection Well: If CBL fails to prove Part II Mechanical Integrity. Prior to receiving authorization to inject and at least once every five (5) years after the last successful demonstration.
DLL/SP/MSFL	Prior to receiving authorization to inject.
N-Density	Prior to receiving authorization to inject.
CBL/VDL/GAMMA RAY	Prior to receiving authorization to inject.

#### Tests.

Tests will be conducted according to current UIC guidance. It is the responsibility of the Permittee to obtain and use guidance prior to conducting any well test required as a condition of this permit.

**WELL NAME:** Coyote SWD 1-16

<b>TYPE OF TEST</b>	<b>DATE DUE</b>
Injectate Sample	Injection Well: A random, representative sample of the injection water will be collected annually at the sampling tap as described in the permit.
Step Rate Test	Injection Well: Prior to receiving authorization to inject. The SRT shall be performed following current EPA guidance.
Injection Zone Water Sample	Injection Well: Prior to receiving authorization to inject a representative sample from the injection zone will be analyzed for TDS, pH, Spec Grav, Spec Cond and naturally occurring hydrocarbons as described in Part II Section C.1 of the permit.
Pore Pressure	Injection Well: Prior to receiving authorization to inject (baseline) and at least annually to gauge how the birds nest formation reacts to injection.
Standard Annulus Pressure	Injection Well: Prior to receiving authorization to inject and at least once within any five year period following the last successful test.

## APPENDIX C

### OPERATING REQUIREMENTS

#### MAXIMUM ALLOWABLE INJECTION PRESSURE:

Maximum Allowable Injection Pressure (MAIP) as measured at the surface shall not exceed the pressure(s) listed below.

WELL NAME	MAXIMUM ALLOWED INJECTION PRESSURE (psi)
	ZONE 1 (Upper)
Coyote SWD 1-16	300

#### INJECTION INTERVAL(S):

Injection is permitted only within the approved injection interval listed below. Injection perforations may be altered provided they remain within the approved injection interval and the Permittee provides notice to the Director in accordance with Part II, Section A, Paragraph 6. Specific injection perforations can be found in Appendix A.

WELL NAME: Coyote SWD 1-16	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
FORMATION NAME			
Green River: Birds Nest	1,706.00	1,964.00	0.620

#### ANNULUS PRESSURE:

The annulus pressure shall be maintained at zero (0) psi as measured at the wellhead. If this pressure cannot be maintained, the Permittee shall follow the procedures listed under Part II, Section C. 6. of this permit.

#### MAXIMUM INJECTION VOLUME:

There is no limitation on the number of barrels per day (bbls/day) of water that shall be injected into this well, provided further that in no case shall injection pressure exceed that limit shown in Appendix C.

## APPENDIX D

### MONITORING AND REPORTING PARAMETERS

This is a listing of the parameters required to be observed, recorded, and reported. Refer to the permit Part II, Section D, for detailed requirements for observing, recording, and reporting these parameters.

<b>OBSERVE WEEKLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS</b>	
<b>OBSERVE AND RECORD</b>	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)
<b>ANNUALLY</b>	
<b>ANALYZE</b>	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH
<b>ANNUALLY</b>	
<b>REPORT</b>	Each month's maximum and averaged injection pressures (psig)
	Each month's maximum and minimum annulus pressure(s) (psig)
	Each month's injected volume (bbl)
	Fluid volume injected since the well began injecting (bbl)
	Written results of annual injected fluid analysis
	Sources of all fluids injected during the year

In addition to these items, additional Logging and Testing results may be required periodically. For a list of those items and their due dates, please refer to **APPENDIX B - LOGGING AND TESTING REQUIREMENTS**.

## APPENDIX E

### PLUGGING AND ABANDONMENT REQUIREMENTS

Coyote SWD 1-16 will be plugged and abandoned in accordance with EPA guidelines and requirements when its service life is over. The well shall be plugged in a manner that isolates the injection zone and prevents movement of fluids into or between USDWs, and in compliance with other federal, state and local regulations. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit a Plugging Record (EPA Form 7520-13) to the Director. The plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. Based on the proposed well completion, at a minimum the following plugs are required:

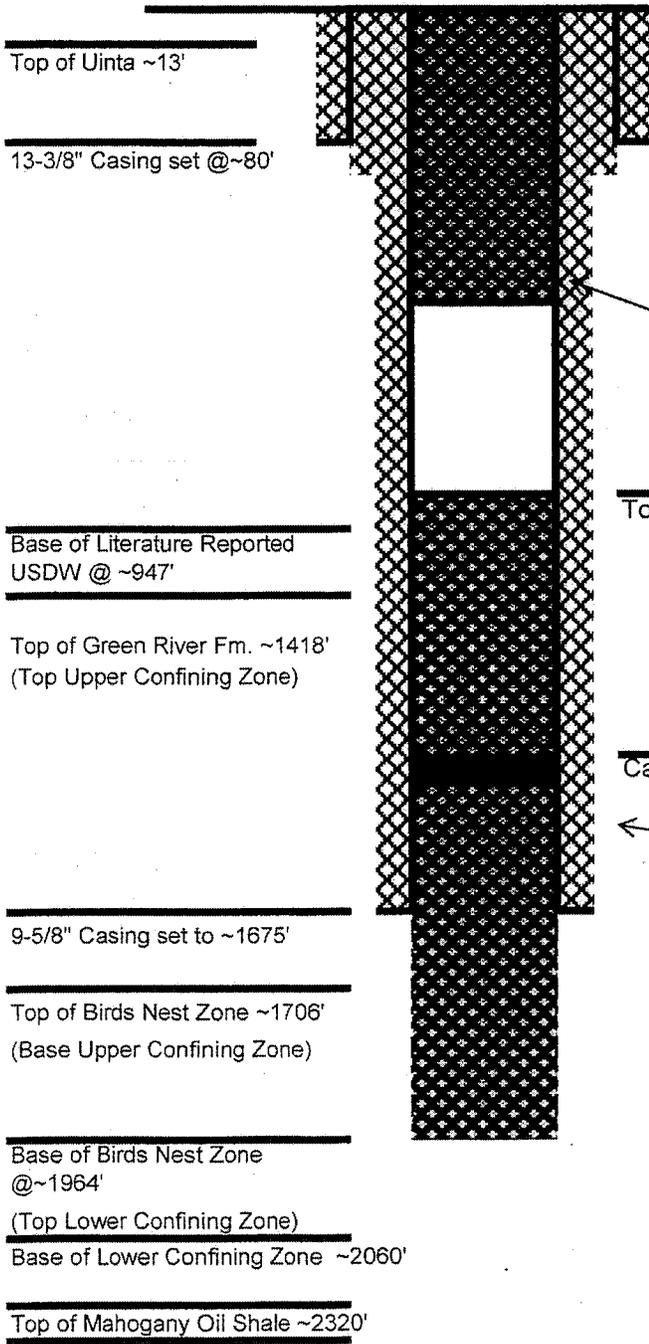
PROPOSED PLUG NO. 1: Set Cast Iron Cement Retainer (CICR) approximately 1,625 feet. Squeeze Class "G" cement through CICR to fill open-hole 1,675 feet - 1,970 feet. Set Class "G" cement from top of CICR to 897 feet., i.e., approximately 100 feet above base of literature reported USDW (Pub. 92).

PROPOSED PLUG NO. 2: Set Class "G" cement inside of 9-5/8 inch casing from surface to 250 feet.

See diagram.

**PROPOSED P&A WELL BORE DIAGRAM**

Operator: EOG Resources, Inc.  
 Field Name: Chapita Wells/Badlands Area  
 Well Name: Coyote SWD 1-16  
 Location: 2246' FNL & 535' FEL (SE/NE) Sec. 16-  
 T9S-R23E  
 County: Uintah  
 API#: 43-047-5086  
 Date: 10/15/2010



GL: 4947'  
 KB: 4957' (est.)  
 Spud Date: ASAP after approval  
 Completion Date: ASAP after approval  
 Conductor Casing: Drill a 20" hole w/air to 0 - 80'  
 Run 13-3/8" 48# H-40 csg to +/- 80'  
 Cement to surface  
 Surface Casing: Drill a 12-1/4" hole w/air to ~1675'  
 Run 9-5/8", 36# J-55 csg to ~1675'  
 Cement w/580 sx Class "G"  
 Proposed plug #2: 50 sx Class G cmt  
 plug from 250 ft. to surface

Top of Plug #1 @ ~897'  
 All depths are approximate.  
 Actual depths will determined while drilling  
 the well.

Cast Iron Cement Retainer @ 1625'  
 Proposed plug #1: Set CICR @~1675'.  
 Sqz a sufficient volume of cmt through  
 CICR to fill the open hole (approx. 126  
 sx Class G). Cmt top above CICR to  
 1318' (100' above the top of the Green  
 River formation) w/ approx. 275 sx  
 Class G cmt.

PBTD: ~1970'  
 TD: ~1970'

Production Casing: Drill 8-3/4" hole to TD

## APPENDIX F

### CORRECTIVE ACTION REQUIREMENTS

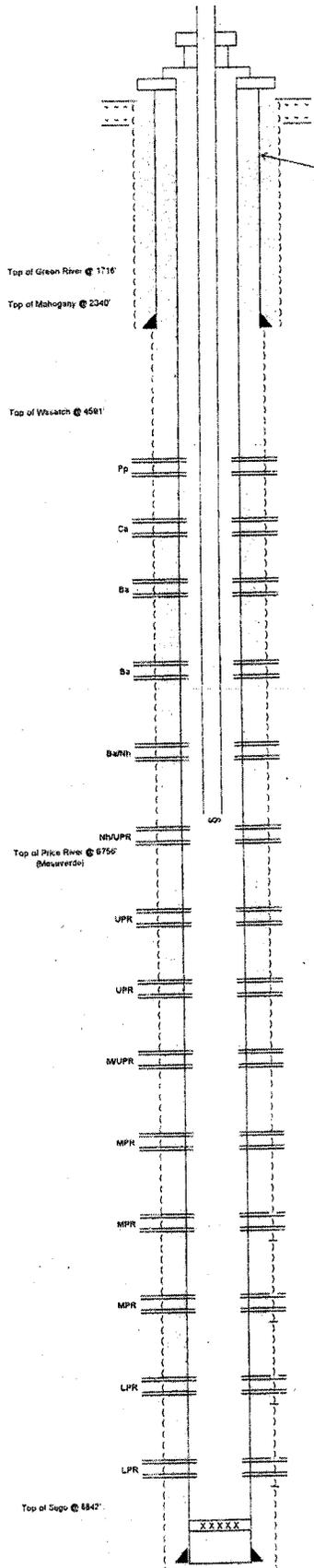
East Chapita 48-16, East Chapita 102-16 and East Chapita 7-16 exhibit annulus cement necessary to cover the Bird's Nest injection zone, but Cement Bond Logs indicate a lack of requisite 80% annulus cement bond across Upper and Lower Confining Zones. In order to verify that these wells are cemented in a manner to prevent fluid movement beyond the authorized injection interval, these three wells are required to run Temperature Survey logs on an annual basis. The Temperature Logs will be evaluated annually to determine if the Temperature Log requirement can be removed. The specifics are detailed in Appendix B.

If the results of a Temperature Log demonstrates injectate movement beyond the Bird's Nest, injection into the Coyote SWD 1-16 shall cease and corrective action shall be initiated to ensure Permit compliance.

Schematics for these area of review wells are attached.

WELLBORE DIAGRAM

Well Name: ECW 48-16  
 Operator: EOG Resources, Inc.  
 Field Name: Chapala Wells Unit - Deep  
 Location: Sec. 16-T09S-R23E  
 County: Uintah  
 API #: 43-047-39060  
 Date: 5/19/2010



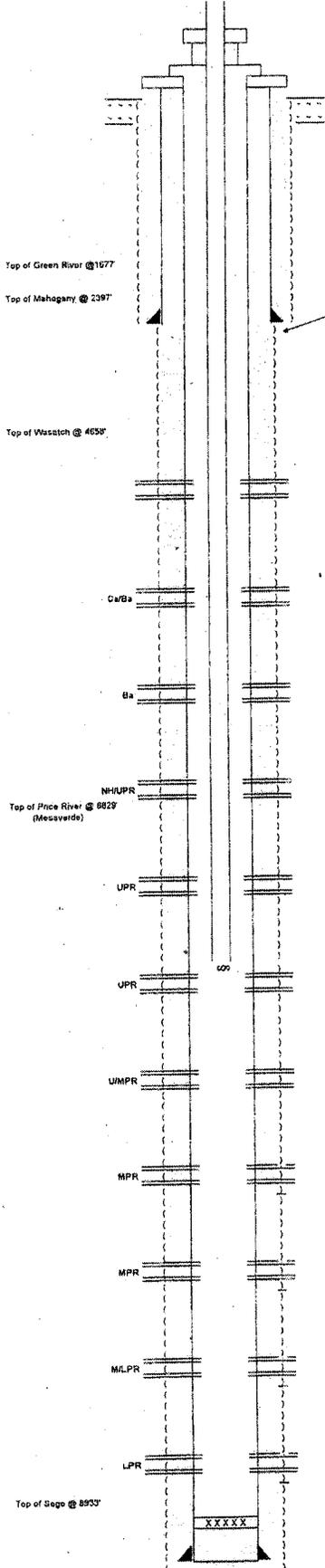
GL: 4,937  
 KB: 4,950  
 Spud Date: 5/13/2008 3:00 PM  
 Completion Date: 3/18/2008  
 Surface Casing: 5-6 1/2", 36#, 4-56 @ 2,424' KB w/800 cc Premium cement TOC @ Surface  
 Production Casing: 4-1/2", 11.6#, N-40 @ 3,002' KB w/800 cc G + Lead cement followed by 1,481 cc 60/80 Pcc G cement TOC @ 420' from CBL  
 Tubing: 2-3/4", 4.7#, N-80 @ 8,864'

ORIGINAL COMPLETION

Formation	Perforations	Treatment
Pp	5,082-88, 5,074-76; 5,081-83, 5,091-85; 5,097-89, 5,104-90; 5,114-16 (3 SPP)	165 gals Cyprton T-106 w/7,056 gals YF-116 Pad followed by 34,643 gals YF-116 and 113,400 20/40 sand down casing
Ca	5,181-87, 5,189-97; 5,205-97, 5,213-16; 5,217-21, 5,220-27; 5,262-64 (3 SPP)	165 gals Cyprton T-106 w/2,097 gals YF-116 Pad followed by 33,198 gals YF-116 and 101,100 20/40 sand down casing
Ba	5,661-67, 5,656-67; 5,656-69, 5,676-77; 5,704-80, 5,724-89; 5,814-18, 5,841-42; 5,854-55, 5,880-81; 5,893-95 (3 SPP)	165 gals Cyprton T-106 w/2,071 gals YF-116 Pad followed by 28,658 gals YF-116 and 86,100 20/40 sand down casing
Ba	5,909-09, 5,934-35; 5,943-43, 5,971-77; 5,983-84, 5,991-87; 5,998-88, 5,128-29; 5,164-66, 5,189-70; 5,210-11, 5,231-22 (3 SPP)	165 gals Cyprton T-106 w/2,074 gals YF-116 Pad followed by 30,022 gals YF-116 and 95,200 20/40 sand down casing
Ba/Nh	5,287-81, 5,287-88; 5,332-33, 5,359-40; 5,390-31, 5,403-34; 5,478-50, 5,479-79; 5,489-89, 5,507-08; 5,513-14, 5,555-56 (3 SPP)	165 gals Cyprton T-106 w/7,083 gals YF-116 Pad followed by 34,038 gals YF-116 and 110,800 20/40 sand down casing
NH/UPR	5,664-56, 5,691-97; 5,704-06, 5,743-34; 5,765-44, 5,800-31; 5,841-43, 5,856-47; 5,890-51, 5,899-90; 5,907-08, 5,913-14 (3 SPP)	165 gals Cyprton T-106 w/2,073 gals YF-116 Pad followed by 42,830 gals YF-116 and 145,800 20/40 sand down casing
UPR	5,978-78, 5,985-87; 7,038-37, 7,070-71; 7,081-87, 7,130-21; 7,128-28, 7,129-30; 7,139-40, 7,170-71 (3 SPP)	165 gals Cyprton T-106 w/7,078 gals YF-116 Pad followed by 30,422 gals YF-116 and 84,100 20/40 sand down casing
UPR	7,217-18, 7,224-25; 7,229-30, 7,240-41; 7,317-49, 7,376-77; 7,388-89, 7,395-97; 7,401-99, 7,431-32 (3 SPP)	165 gals Cyprton T-106 w/2,072 gals YF-116 Pad followed by 33,736 gals YF-116 and 108,300 20/40 sand down casing
MU/UPR	7,476-77, 7,486-87; 7,502-81, 7,505-06; 7,513-14, 7,540-41; 7,550-52, 7,552-55; 7,596-37, 7,604-06; 7,613-14, 7,627-28 (3 SPP)	165 gals Cyprton T-106 w/2,085 gals YF-116 Pad followed by 46,024 gals YF-116 and 166,800 20/40 sand down casing
MPR	7,677-78, 7,695-97; 7,684-86, 7,705-06; 7,722-22, 7,729-29; 7,735-37, 7,744-46; 7,758-49, 7,764-46; 7,777-78, 7,792-93 (3 SPP)	165 gals Cyprton T-106 w/2,077 gals YF-116 Pad followed by 41,412 gals YF-116 and 137,700 20/40 sand down casing
MPR	7,829-30, 7,839-40; 7,869-40, 7,869-46; 7,874-26, 7,914-16; 7,936-40, 7,944-46; 7,980-41, 8,021-26; 8,038-39, 8,058-57 (3 SPP)	165 gals Cyprton T-106 w/7,968 gals YF-116 Pad followed by 41,198 gals YF-116 and 138,600 20/40 sand down casing
MPR	8,123-24, 8,130-37; 8,133-34, 8,189-46; 8,203-44, 8,217-28; 8,247-48, 8,289-40; 8,298-47, 8,344-46; 8,319-11 (3 SPP)	165 gals Cyprton T-106 w/2,078 gals YF-116 Pad followed by 20,638 gals YF-116 and 64,400 20/40 sand down casing
LPR	8,380-41, 8,380-45; 8,384-48, 8,389-01; 8,428-28, 8,443-44; 8,468-78, 8,474-78; 8,498-67, 8,498-88; 8,524-27 (3 SPP)	165 gals Cyprton T-106 w/2,074 gals YF-116 Pad followed by 33,938 gals YF-116 and 107,300 20/40 sand down casing
LPR	8,677-79, 8,687-89; 8,691-10, 8,616-16; 8,638-24, 8,639-24; 8,639-40, 8,648-40; 8,660-48, 8,746-47; 8,777-78 (3 SPP)	165 gals Cyprton T-106 w/4,171 gals YF-116 Pad followed by 7,206 gals YF-116 Pad w/27,196 gals YF-116 and 78,300 20/40 sand down casing
PBTD:	8,931'	
TD:	9,010'	

WELLBORE DIAGRAM

Well Name: **ECW 102-16**  
 Operator: **EOG Resources, Inc.**  
 Field Name: **Chapita Wells Unit - Deep**  
 Location: **Sec. 16-T08S-R23E**  
 County: **Unintah**  
 API #: **43-047-50551**  
 Date: **10/18/2010**



GL: 6,011'  
 KB: 6,030'  
 Spud Date: 4/23/2010 8:00 AM  
 Completion Date: 6/25/2010  
 Surface Casing: 9-8 1/2", 38#, J-55 @ 2,420' KB  
 w650 ex Premium cement  
 TOC @ Surface  
 Production Casing: 4-1/2", 11.6#, N-80 @ 9,083' KB  
 w485 ex Hibond 75 Lead cement followed by  
 1,375 ex Extendaform cement  
 TOC @ 2410' from KB  
 Tubing: 2-3/8", 4.7#, N-80 @ 7,267'

ORIGINAL COMPLETION

Formation	Perforations	Treatment
Pp/Ca	5,196'-66", 5,163'-64" 5,178'-19", 5,207'-48" 5,268'-37", 5,301'-42" 5,314'-19", 5,333'-34" 5,363'-66", 5,394'-36" 5,614'-19" (3 SPP)	55 gals Bio 600 w7,377 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w74,723 gals 16# Delta 200 followed by 119,700# 20/40 sand down casing @ 2-4 PPG
Ca/Ba	5,769'-61", 5,767'-68" 5,777'-78", 5,783'-84" 5,838'-40", 5,850'-62" 5,890'-31", 5,848'-68" 5,861'-62" (3 SPP)	55 gals Bio 600 w7,351 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w78,813 gals 16# Delta 200 followed by 96,100# 20/40 sand down casing @ 2-4 PPG
Ba	6,020'-27", 6,036'-37" 6,057'-48", 6,102'-63" 6,178'-19", 6,229'-33" 6,241'-42", 6,268'-69" 6,272'-72", 6,318'-16" 6,619'-28", 6,651'-62" (3 SPP)	55 gals Bio 600 w7,323 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w73,286 gals 16# Delta 200 followed by 74,700# 20/40 sand down casing @ 2-4 PPG
NH/LPR	6,627'-28", 6,658'-69" 6,670'-31", 6,727'-38" 6,743'-44", 6,761'-47" 6,780'-31", 6,802'-03" 6,842'-63", 6,884'-60" 6,884'-60", 6,919'-11" (3 SPP)	55 gals Bio 600 w8,381 gals 16# Linear followed by 11,000# 20/40 sand @ 1-1.5 PPG w63,363 gals 16# Delta 200 followed by 79,000# 20/40 sand down casing @ 2-4 PPG
LPR	6,983'-84", 6,981'-82" 7,034'-69", 7,034'-36" 7,093'-84", 7,107'-08" 7,137'-38", 7,140'-48" 7,164'-69", 7,181'-82" 7,202'-03" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,350 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w63,132 gals 16# Delta 200 followed by 144,200# 20/40 sand down casing @ 2-4 PPG
LPR	7,276'-78", 7,281'-82" 7,301'-02", 7,331'-32" 7,358'-38", 7,348'-47" 7,438'-87", 7,508'-08" 7,519'-20" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,360 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w40,804 gals 16# Delta 200 followed by 164,600# 20/40 sand down casing @ 2-4 PPG
UM/LPR	7,684'-38", 7,693'-04" 7,673'-74", 7,685'-66" 7,673'-74", 7,687'-82" 7,702'-03", 7,711'-12" 7,728'-28", 7,771'-72" 7,768'-81", 7,781'-82" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,404 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w47,773 gals 16# Delta 200 followed by 166,500# 20/40 sand down casing @ 2-4 PPG
MPR	7,852'-63", 7,866'-87" 7,873'-74", 7,889'-80" 7,907'-08", 7,921'-22" 7,938'-39", 7,948'-49" 7,968'-65", 7,992'-93" 8,024'-36" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,364 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w48,016 gals 16# Delta 200 followed by 167,500# 20/40 sand down casing @ 2-4 PPG
MPR	8,080'-31", 8,089'-80" 8,087'-98", 8,119'-20" 8,140'-41", 8,169'-48" 8,172'-73", 8,181'-82" 8,194'-86", 8,200'-01" 8,219'-20", 8,230'-31" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,486 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w42,126 gals 16# Delta 200 followed by 146,600# 20/40 sand down casing @ 2-4 PPG
ML/LPR	8,267'-09", 8,315'-17" 8,376'-77", 8,384'-98" 8,437'-38", 8,461'-42" 8,486'-86", 8,496'-37" 8,633'-33", 8,733'-74" (3 SPP)	55 gals Bio 600 & 165 gals WSI w7,376 gals 16# Linear followed by 9,600# 20/40 sand @ 1-1.5 PPG w47,804 gals 16# Delta 200 followed by 164,200# 20/40 sand down casing @ 2-4 PPG
LPR	8,688'-88", 8,691'-02" 8,624'-26", 8,630'-31" 8,640'-61", 8,664'-86" 8,687'-83", 8,692'-83" 8,719'-38", 8,744'-66" 8,779'-80", 8,798'-87" (3 SPP)	55 gals Bio 600 & 165 gals WSI w8,503 gals 16# Linear followed by 10,800# 20/40 sand @ 1-1.5 PPG w37,082 gals 16# Delta 200 followed by 107,000# 20/40 sand down casing @ 2-4 PPG

P/BTD: 9,037'  
 TD: 9,080'

**WELLBORE DIAGRAM**

Operator: EOG Resources, Inc.  
 Field Name: East Chapita  
 Well Name: E Chapita 7-16  
 Location: 2081' FSL & 834' FEL (NE SE) Sec. 16-T9S-R23E  
 County: Uintah  
 API #: 4304736814  
 Date: 1/07/09

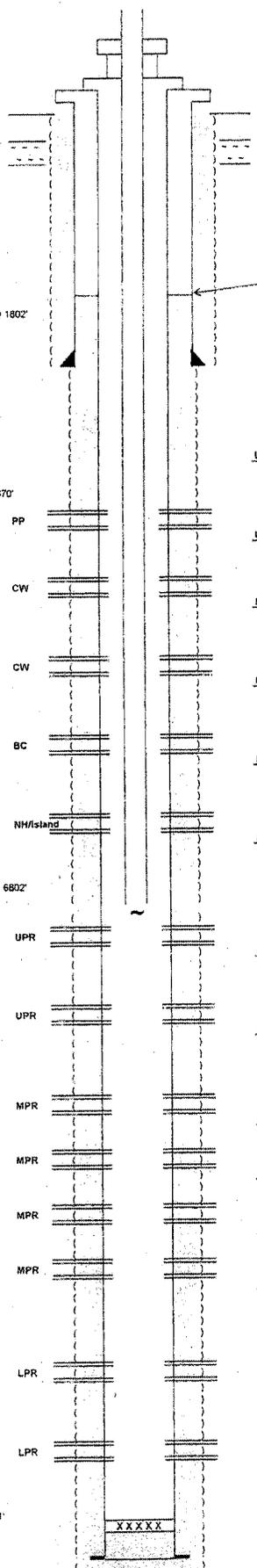
GL: 5048'  
 KB: 5061'  
 Spud Date: 2/20/06  
 Completion Date: 4/15/06  
 Surface Casing: 9-5/8", 36#, J-55 @ 2423'  
w/1015 csa Premium cmt  
TOC @ Surface  
 Production Casing: 4-1/2", 11.6#, P-110 @ 8070'  
w/260 ex 35-65 Pozmix cmt followed by  
1445 ex 50-50 Pozmix cmt  
TOC @ 1600' from CBL  
 Tubing: 2-3/8", 4.7#, N-80 @ 6820'

Top of Green River @ 1802'

Top of Wasatch @ 4670'

Top of Price River @ 6802'  
(Mesaverde)

Top of Sage @ 8961'



Formation:	Original Completion: Perforations:	Treatment:
UPR	6836'-37', 6851'-52', 6871'-73', 6890'-82', 6893'-85', 6878'-79', 6892'-84', 6898'-7000', 7034'-35' (2 SPF)	4,837 gals YF-123 fluid followed by 66,825 gals YF-118 & YF-123 fluid w/237,300# 20/40 sand down csg
UPR	7086'-87', 7142'-43', 7190'-82', 7200'-82', 7274'-76', 7300'-82', 7343'-45' (3 SPF)	4,947 gals YF-123 fluid followed by 54,441 gals YF-118 & YF-123 fluid w/181,900# 20/40 sand down csg
MPR	7551'-52', 7551'-63', 7581'-52', 7590'-48', 7601'-82', 7619'-21', 7629'-30', 7644'-46', 7658'-80' (2 SPF)	4,843 gals YF-123 fluid followed by 63,223 gals YF-118 & YF-123 fluid w/238,600# 20/40 sand down csg
MPR	7705'-08', 7715'-17', 7731'-32', 7741'-42', 7759'-60', 7774'-76', 7784'-85', 7783'-84', 7805'-06', 7848'-50' (2 SPF)	4,944 gals YF-123 fluid followed by 50,833 gals YF-118 & YF-123 fluid w/169,400# 20/40 sand down csg
MPR	7938'-38', 7944'-46', 7975'-76', 8063'-44', 8065'-87', 8119'-21', 8134'-05', 8184'-85', 8201'-02' (2 SPF)	4,951 gals YF-123 fluid followed by 55,109 gals YF-118 & YF-123 fluid w/192,800# 20/40 sand down csg
MPR	8262'-43', 8284'-85', 8304'-05', 8323'-24', 8343'-44', 8360'-61', 8368'-70', 8388'-89', 8432'-33', 8458'-50', 8492'-84' (2 SPF)	4,938 gals YF-125 fluid followed by 42,606 gals YF-118 & YF-125 fluid w/132,000# 20/40 sand down csg
UPR	8584'-85', 8649'-48', 8682'-44', 8694'-96', 8704'-06', 8778'-80', 8792'-83', 8808'-07', 8819'-21' (2 SPF)	4,936 gals YF-125 fluid followed by 51,513 gals YF-118 & YF-125 fluid w/154,530# 20/40 sand down csg
UPR	8878'-79', 8894'-85', 8918'-20', 8927'-30', 8934'-36', 8943'-44', 8954'-56' (3 SPF)	4,983 gals YF-125 fluid followed by 43,233 gals YF-118 & YF-125 fluid w/133,300# 20/40 sand down csg
MPR	Recompletion (8/06): 5164'-66', 5178'-80', 5185'-87', 5182'-80' (3 SPF)	2,487 gals YF-125 fluid followed by 20,370 gals YF-120 & YF-125 fluid w/71,344# 20/40 sand down csg
MPR	5252'-53', 5268'-70', 5272'-74', 5382'-06', 5310'-11' (3 SPF)	2,509 gals YF-125 fluid followed by 21,338 gals YF-120 & YF-125 fluid w/77,801# 20/40 sand down csg
MPR	5421'-25', 5483'-45', 5694'-86', 6730'-31' (3 SPF)	2,498 gals YF-125 fluid followed by 20,202 gals YF-120 & YF-125 fluid w/69,206# 20/40 sand down csg
MPR	6052'-53', 6058'-60', 6063'-44', 6076'-77', 6099'-6100', 6109'-10', 6163'-64', 6210'-11', 6217'-19', 6224'-28', 6235'-36', 6244'-45', 6279'-80' (2 SPF)	2,511 gals YF-125 fluid followed by 18,858 gals YF-120 & YF-125 fluid w/55,900# 20/40 sand down csg
LPR	NH / Island 6554'-55', 6563'-54', 6660'-62', 6667'-56', 6689'-59', 6744'-46', 6757'-59', 6788'-88', 6795'-87' (2 SPF)	4,178 gals YF-125 fluid followed by 51,459 gals YF-120 & YF-125 fluid w/169,900# 20/40 sand down csg
LPR	Commingled all perms (8/06)	

PBD: 9022'  
 TO: 9075'

## APPENDIX G

### INJECTION ZONE WATER SAMPLING FOR SWD WELLS

#### Data Quality Objectives

To sufficiently purge the well and obtain a representative sample of the injection zone formation water to determine:

- whether injection zone is a underground source of drinking water (USDW, TDS<10,000 mg/L)
- background naturally occurring hydrocarbon concentration

#### Well Preparation and Sampling Procedure

1. MIRU Workover rig
2. **IF** workover fluid has been pumped into the well for corrective action requirements (i.e. squeeze work, RAT's test, etc) near the proposed injection interval, get an accurate record of the volume pumped to account for and also obtain a sample of the workover fluid for reference purposes.
3. RIH with tubing to the  $\pm$ top of the injection interval. Rig up swab equipment and swab the fluid level to 500' above injection zone interval so the well can be perforated under-balanced.
4. POOH with the tubing
5. RIH and under-balance perforate the proposed injection interval with the appropriate sized guns. POOH with the perforating guns.
6. RIH with tubing to the  $\pm$ top of the injection interval
  - a. **IF** a pore pressure measurement is required, conduct using down hole pressure tools via wireline OR some other pre-approved method.
  - b. POOH with the pressure tools.
7. R/U to swab or foam the well to get a representative fluid sample of the injection interval. **NOTE: It may be necessary to break-down and/or acidize the perforations in order obtain adequate fluid entry into the wellbore.**
  - a. Take regular samples and monitor chlorides, potassium, and pH of the water.
  - b. Document field readings of Load Water Volume to Recover, Time, Volume of Fluid Recovered, Conductivity, pH, Chlorides, and Potassium during the entire field sampling process (see attached table).  
**NOTE: Sampling frequency depends on how much volume needs to be recovered. The objective is to obtain three stabilized samples after a minimum of twice the volume of load is recovered.**
  - c. Continue swabbing or air lifting the well until all fluid that has been put into the well from corrective action operations has been accounted for.
  - d. Once the chlorides, potassium, and pH have stabilized (see table) and look to be representative of the injection zone interval, take three last successive samples (plus selected previous samples for comparisons) in for complete water analysis to measure for TDS, pH, SG, and conductivity.
  - e. Collect one additional sample and put into a provided bottle to be sent off to check for the presence of Naturally Occurring Hydrocarbons (head space gas and liquid extract gas chromatography).
  - f. **IF** laboratory analysis shows inconsistent results, zone will need to be resampled.



# **STATEMENT OF BASIS**

**EOG RESOURCES, INC  
COYOTE SWD 1-16  
UINTAH COUNTY, UT**

**EPA PERMIT NO. UT22165-08747**

***CONTACT:*** Emmett Schmitz  
U. S. Environmental Protection Agency  
Ground Water Program, 8P-W-GW  
1595 Wynkoop Street  
Denver, Colorado 80202-1129  
Telephone: 1-800-227-8917 ext. 312-6174

This STATEMENT OF BASIS gives the derivation of site-specific UIC Permit conditions and reasons for them. Referenced sections and conditions correspond to sections and conditions in the Permit.

EPA UIC permits regulate the injection of fluids into underground injection wells so that the injection does not endanger underground sources of drinking water. EPA UIC permit conditions are based upon the authorities set forth in regulatory provisions at 40 CFR Parts 144 and 146, and address potential impacts to underground sources of drinking water. Under 40 CFR 144.35 Issuance of this permit does not convey any property rights of any sort or any exclusive privilege, nor authorize injury to persons or property of invasion of other private rights, or any infringement of other Federal, State or local laws or regulations. Under 40 CFR 144 Subpart D, certain conditions apply to all UIC Permits and may be incorporated either expressly or by reference. General Permit conditions for which the content is mandatory and not subject to site-specific differences (40 CFR Parts 144, 146 and 147) are not discussed in this document.

Upon the Effective Date when issued, the Permit authorizes the construction and operation of injection wells so that the injection does not endanger underground sources of drinking water, governed by the conditions specified in the Permit. The Permit is issued for the operating life of the injection well or project unless terminated for reasonable cause under 40 CFR 144.39, 144.40 and 144.41. The Permit is subject to EPA review at least once every five (5) years to determine if action is required under 40 CFR 144.36(a).

## PART I. General Information and Description of Facility

EOG Resources, Inc  
P.O. Box 4362  
Houston, TX 77251-4362

on

March 1, 2010

submitted an application for an Underground Injection Control (UIC) Program Permit or Permit Modification for the following injection well or wells:

Coyote SWD 1-16  
2246' FNL & 535' FEL, SENE S16, T9S, R23E  
Uintah County, UT

Regulations specific to Uintah-Ouray Indian Reservation injection wells are found at 40 CFR 147 Subpart TT.

The application, including the required information and data necessary to issue or modify a UIC Permit in accordance with 40 CFR Parts 144, 146 and 147, was reviewed and determined by EPA to be complete.

The Permit will expire upon delegation of primary enforcement responsibility (primacy) for applicable portions of the UIC Program to the Ute Indian Tribe or the State of Utah unless the delegated agency has the authority and chooses to adopt and enforce this Permit as a Tribal or State Permit.

All depths cited in the Statement of Basis reference the Kelly Bushing (KB) datum unless otherwise specified.

TABLE 1.1 shows the status of the well or wells as "New", "Existing", or "Conversion" and for Existing shows the original date of injection operation. Well authorization "by rule" under 40 CFR Part 144 Subpart C expires automatically on the Effective Date of an issued UIC Permit.

EOG Resources, Inc. proposes to construct Coyote SWD 1-16 as a Green River Formation Bird's Nest Zone salt water disposal well (SWD) with total depth (TD) (1,970 feet) at the approximate base of the Bird's Nest Zone. Surface casing (9-5/8 inch) will be set at 1,675 feet. The applicant proposes to drill an 8-3/4 inch open-hole 1,675 feet - 1,970 feet through the Bird's Nest Zone.

NOTE: All depths are approximate.

**TABLE 1.1**  
**WELL STATUS / DATE OF OPERATION**

<b>NEW WELLS</b>		
<b>Well Name</b>	<b>Well Status</b>	<b>Date of Operation</b>
Coyote SWD 1-16	New	N/A

**PART II. Permit Considerations (40 CFR 146.24)**

**Hydrogeologic Setting**

Water wells for domestic supply in this area, when present, generally are completed into the shallow alluvium, the Duchesne River Formation, or the underlying Uinta Formation, and the water generally contains approximately 500 to 1,500 mg/l and higher total dissolved solids.

The Uinta-Animas aquifer in the Uinta Basin is present in water-yielding beds of sandstone, conglomerate, and siltstone of the Duchesne River and Uinta Formations, the Renegade Tongue of the Wasatch Formation, and the Douglas Creek Member of the Green River Formation. The Renegade Tongue of the Wasatch Formation and the Douglas Creek Member of the Green River Formation contain an aquifer along the southern and eastern margins of the basin where the rocks primarily consist of fluvial, massive, irregularly bedded sandstone and siltstone. Water-yielding units in the Uinta-Animas aquifer in the Uinta Basin commonly are separated from each other and from the underlying Mesaverde aquifer by units of low permeability composed of claystone, shale, marlstone, or limestone. In the Uinta Basin, for example, the part of the aquifer in the Duchesne River and Uinta Formations ranges in thickness from 0 feet at the southern margin of the aquifer to as much as 9,000 feet in the north-central part of the aquifer. Ground-water recharge to the Uinta-Animas aquifer generally occurs in the areas of higher altitude along the margins of the basin. Ground-water is discharged mainly to streams, springs, and by transpiration from vegetation growing along stream valleys. The rate of ground-water withdrawal is small, and natural discharge is approximately equal to recharge. Recharge occurs near the southern margin of the aquifer, and discharge occurs near the White and Green Rivers (from USGS publication HA 730-C). Water samples from Mesaverde sands in the nearby Natural Buttes Unit yielded highly saline water.

**Geologic Setting (TABLE 2.1)**

**THE UINTA FORMATION (surface - 1,418 feet):**

The Uinta Formation is calcareous shale, some limestone, claystone, siltstone, and sandstone. It is a fluvial facies in the eastern and western ends of the basin that interfingers with rocks similar in appearance to the overlying Duchesne River Formation. It grades laterally into thinner bedded calcareous lake deposits in the center of the basin.

The Uinta is very low to very high permeability. Largest primary intergranular permeability of the sandstone seems to be about the same as that of the median for sandstone in the Duchesne River Formation. Most of the formation is finer grained, and, therefore, of lower primary permeability than the Duchesne River Formation. Permeability is greatly increased where the Uinta Formation

is fractured. In most of the area, the formation yields only a few gallons per minute of saline water to wells and springs. In some areas the water has high fluoride and boron concentrations. Locally, flowing wells yield fresh to slightly saline water. In the fluvial facies, particularly where the rocks are fractured, yields are larger.

#### THE GREEN RIVER FORMATION (1,418 feet - 2,320 feet):

The Green River Formation is mostly lacustrine shale that contains some limestone, marlstone, and siltstone. The formation includes beds of oil shale and of carbonate evaporite. The Green River interfingers with both the overlying Uinta and the underlying Wasatch Formations, as well as laterally with other formations near the edges of the basin.

The Green River Formation is very low to low permeability except where fractured. Sandstones near oil-shale beds have values of transmissivity from 0.9 to 2.4 sq ft/day. In most of the basin the formation yields only saline or briny water, though in and near the areas of outcrop in the southern part of the basin the water is fresh to slightly saline, and in the area of the outcrop near Strawberry Reservoir the water is fresh where the formation is fractured.

#### BIRD'S NEST MEMBER OF THE GREEN RIVER FORMATION (1,706 feet - 1,964 feet):

The Bird's Nest zone (the proposed injection interval) occurs within the Green River formation. The Bird's Nest occurs at a depth between 1,706 feet-1,964 feet at the site of the injection well. The Bird's Nest consists of nahcolite nodules set in marlstone overlain by a zone of thin, brittle shale beds, and by a fine-grained homogeneous sandstone.

#### THE WASATCH FORMATION (4,591 feet - 6,750 feet):

In most of the basin, the Wasatch Formation is mainly lacustrine shale, sandstone, and conglomerate. It interfingers with the overlying and underlying formations and laterally with the North Horn, Carrant Creek, and Green River Formations. The Wasatch outcrops only in the far eastern end of the northern Uinta Basin and in the canyons of deeply incised streams in the southern Uinta Basin.

The Wasatch Formation has very low to low permeability except where fractured. In the Greater Altamont-Bluebell oil field, the Wasatch sands reportedly have only 4 to 5 percent porosity, but are permeable because of fracturing. Much of the water produced with petroleum is moderately saline to very saline; generally, however, the water is less mineralized than is water from the Green River Formation.

#### THE MESA VERDE FORMATION (6,756 feet - 8,842 feet):

Continental deposits of shale, sandstone, and coal beds. Interfingers with the upper part of the underlying Mancos Shale and may interfinger with the overlying Carrant Creek and North Horn Formations. Maximum thickness ranges from 550 to 4,000 feet in the western part of the basin, and from 400 to 1,160 feet in the eastern part of the basin.

Very low to high permeability. In areas of outcrop, water in the formation is fresh to slightly saline, but samples of water from petroleum tests in the eastern part of the basin reportedly were very saline to briny.

**TABLE 2.1**  
**GEOLOGIC SETTING**  
**Coyote SWD 1-16**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Green River: USDW Base (Pub 92)		947	< 10,000	Mostly lacustrine shale that contains some limestone, marlstone, and siltstone.
Uinta	0	1,418	< 10,000	Calcerous shale, some limestone, claystone, siltstone, and sandstone.
Green River	1,418	2,320	< 10,000	Mostly lacustrine shale that contains some limestone, marlstone, and siltstone.
Green River: Upper Confining Zone	1,418	1,706	> 10,000	Interbedded impermeable lacustrine shales, impermeable marlstones and low porosity siltstones.
Green River: Bird's Nest	1,706	1,964		Carbonate.
Green River: Lower Confining Zone	1,964	2,060	> 10,000	Interbedded impermeable calcerous shales with minor amounts of low porosity siltstones.

**Proposed Injection Zone(s) (TABLE 2.2)**

An injection zone is a geological formation, group of formations, or part of a formation that receives fluids through a well. The proposed injection zones are listed in TABLE 2.2.

Injection will occur into an injection zone that is separated from USDWs by a confining zone which is free of known open faults or fractures within the Area of Review.

The open-hole Bird's Nest injection interval, approximately 1,706 feet - 1,964 feet, is of concern to near-by oil-shale interests. Annual monitoring will be required as described in Part VI of this Statement of Basis and in Appendix B.

The Bird's Nest member of the Green River formation, proposed for injection, lies approximately 356 ft above the top of the Mahogany Shale formation. The Mahogany Shale is being proposed for oil-shale development in the vicinity of this injection well. Concerns have been raised regarding injection into the Bird's Nest and the effect of that injection on proposed oil-shale mining. Of primary concern is the proximity of the Bird's Nest to the Mahogany shale, and the possibility of the injection causing water intrusion into the mine works.

Research conducted on this topic may be found in the report, "Final Environmental Baseline Report - Federal Prototype Oil Shale Leasing Program, Tracts U-a and U-b Utah, White River Shale Project," VTN Colorado, Inc., October 1977. This report, conducted in part to identify potential problems from adjacent aquifers on the proposed mining project, concludes that the "proposed mining program is not expected to create any interconnection between the Bird's Nest aquifer and the Douglas Creek member nor is it expected to create vertical flow from either aquifer into the mine workings. However, because of the lack of conclusive proof of the separation of aquifers, it would be advantageous to design an intensified monitoring program in the event that large flows are encountered in the workings."

"Providing that there are no subflows from the Bird's Nest aquifer into the workings, the only effect of development upon the movement of ground water and water level fluctuations will be during the sinking of the mine shaft through the bird's nest aquifer. Inflow to the shaft will be stopped as soon as practicable by cementing and casing as stipulated in the DDP. Inflows to the shaft will be temporary, as will be the effect upon water levels. Specific monitoring should not be necessary for this aspect of development."

In order to establish how the Bird's Nest reacts to injection, permit conditions will require the injection well to undergo annual fluid level determinations. During these tests, the injection well is shut-in and the static fluid level is allowed to stabilize. After the fluid level has stabilized, the static fluid level is measured, cumulative injected volume determined, and the fluid in the well is sampled and analyzed for specific gravity in order to determine the pressure in the Bird's Nest. This information will be tracked year-to-year in order to show the buildup of pressure in the Bird's Nest and the relationship between that pressure and the cumulative volume of fluid injected into the disposal well.

Annually, and in conjunction with the Annual Report to the Director, the results of this monitoring shall be reported to the Director. This report shall include the results of the annual fluid level monitoring in order to determine how the Bird's Nest injection interval responds to the injected volumes.

**TABLE 2.2**  
**INJECTION ZONES**  
Coyote SWD 1-16

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River: Birds Nest	1,706	1,964		0.620		N/A

- \* C - Currently Exempted
- E - Previously Exempted
- P - Proposed Exemption
- N/A - Not Applicable

**Confining Zone(s) (TABLE 2.3)**

A confining zone is a geological formation, part of a formation, or a group of formations that limits fluid movement above the injection zone. The confining zone or zones are listed in TABLE 2.3.

The upper confining zone is located between the depths of 1,418 feet to 1,706 feet. The upper confining zone consists of interbedded impermeable lacustrine shale, marlstone and siltstone.

The lower confining zone is located between the depths of 1,964 feet to total depth at 2,060 feet. The lower confining zone consists of interbedded impermeable shale with minor amounts of siltstone. The lower confining zone is needed to protect the underlying Mahogany Shale.

**TABLE 2.3  
CONFINING ZONES  
Coyote SWD 1-16**

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River: Upper Confining Zone	Interbedded impermeable lacustrine shales, impermeable marlstones and low porosity siltstones.	1,418	1,706
Green River: Lower Confining Zone	Interbedded impermeable calcareous shale with minor amounts of low porosity siltstone.	1,964	2,320

**Underground Sources of Drinking Water (USDWs) (TABLE 2.4)**

Aquifers or the portions thereof which contain less than 10,000 mg/l total dissolved solids (TDS) and are being or could in the future be used as a source of drinking water are considered to be USDWs. The USDWs in the area of this facility are identified in TABLE 2.4.

The location of USDWs has been obtained from the State of Utah Technical Publication No. 92 entitled "Base of Moderately Saline Ground Water in the Uinta Basin, Utah," U.S. Geologic Survey Open File Report 87-394. This review identified the depth of 947 feet below the ground level as the probable base of USDWs in the area, with the USDWs being interspersed above this base. However, the Uinta Formation is known to have USDWs and extends to 1,418' below ground surface. The top of the Bird's Nest injection zone is estimated to be below 1,418 feet feet. Never the less, an injection zone water sample will be required prior to receiving authorization to inject to determine the Total Dissolved Solids (TDS) of the injection zone. If the TDS is below 10,000 mg/L, the Permittee will be required to submit a request for an Aquifer Exemption for the injection zone. This request must substantiate the criteria for why the aquifer should be exempted as allowed under 40 CFR 146.4.

**TABLE 2.4  
UNDERGROUND SOURCES OF DRINKING WATER (USDW)  
Coyote SWD 1-16**

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Green River: USDW Base (Publ. 92).	Mostly lacustrine shale that contains some limestone, marlstone, and siltstone.		947	< 10,000
Uinta	Calcerous shale, some limestone, claystone, siltstone, and sandstone.	0	1,418	< 10,000

**PART III. Well Construction (40 CFR 146.22)**

**TABLE 3.1**  
**WELL CONSTRUCTION REQUIREMENTS**  
**Coyote SWD 1-16**

<b>Casing Type</b>	<b>Hole Size (in)</b>	<b>Casing Size (in)</b>	<b>Cased Interval (ft)</b>	<b>Cemented Interval (ft)</b>
Conductor	20.00	13.38	0 - 80	0 - 80
Surface	12.25	9.63	0 - 1,675	0 - 1,675

The approved well completion plan will be incorporated into the Permit as APPENDIX A and will be binding on the Permittee. Modification of the approved plan is allowed under 40 CFR 144.52(a)(1) provided written approval is obtained from the Director prior to actual modification.

### **Casing and Cementing (TABLE 3.1)**

The well construction plan was evaluated and determined to be in conformance with standard practices and guidelines that ensure well injection does not result in the movement of fluids into USDWs. Well construction details for this "new" injection well is shown in TABLE 3.1.

Remedial cementing may be required if the casing cement is shown to be inadequate by cement bond log or other demonstration of Part II (External) mechanical integrity.

The cement bond log required as part of this permit will need to meet the requirements for establishing Part II Mechanical Integrity. For 9-5/8" casing, guidelines require 80% or greater bonding for 45 continuous feet through the confining zone(s).

In the event that the cement bond log does not meet this threshold, the injection well will be required to perform periodic Radioactive Tracer Surveys and Temperature logs to prove confinement of fluids within the injection interval (Part II Mechanical Integrity). These requirements are found in the Permit Appendix B - Logging and Testing Requirements.

### **Tubing and Packer**

Injection tubing is required to be installed from a packer up to the surface inside the well casing. The packer will be set above the uppermost perforation. The tubing and packer are designed to prevent injection fluid from coming into contact with the outermost casing.

### **Tubing-Casing Annulus (TCA)**

The TCA allows the casing, tubing and packer to be pressure-tested periodically for mechanical integrity, and will allow for detection of leaks. The TCA will be filled with fresh water treated with a corrosion inhibitor or other fluid approved by the Director.

TCA must be kept open to allow any pressure buildup inside the TCA to be detected and for monitoring of the TCA as required by conditions of the Permit.

### **Monitoring Devices**

The permittee will be required to install and maintain wellhead equipment that allows for monitoring pressures and providing access for sampling the injected fluid. Required equipment may include but is not limited to: 1) shut-off valves located at the wellhead on the injection tubing and on the TCA; 2) a flow meter that measures the cumulative volume of injected fluid; 3) fittings or pressure gauges attached to the injection tubing and the TCA for monitoring the injection and TCA pressure; and 4) a tap on the injection line, isolated by shut-off valves, for sampling the injected fluid.

All sampling and measurement taken for monitoring must be representative of the monitored activity.

## **PART IV. Area of Review, Corrective Action Plan (40 CFR 144.55)**

**TABLE 4.1  
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
East Chapita 102-16	Producer	No	9,090	652	Yes
East Chapita 48-16	Producer	No	9,010	420	Yes
East Chapita 7-16	Producer	No	9,075	0	Yes

TABLE 4.1 lists the wells in the Area of Review ("AOR") and shows the well type, operating status, depth, top of casing cement ("TOC") and whether a Corrective Action Plan ("CAP") is required for the well.

**Area Of Review**

Applicants for Class I, II (other than "existing" wells) or III injection well Permits are required to identify the location of all known wells within the injection well's Area of Review (AOR) which penetrate the injection zone, or in the case of Class II wells operating over the fracture pressure of the formation, all known wells within the area of review that penetrate formations which may be affected by increased pressure. Under 40 CFR 146.6 the AOR may be a fixed radius of not less than one quarter (1/4) mile or a calculated zone of endangering influence. For Area Permits, a fixed width of not less than one quarter (1/4) mile for the circumscribing area may be used.

Although each of the wells in the Area of Review is shown to contain a volume of cement necessary to cover the Bird's Nest injection zone, cementing records indicate that there is not adequate cement across the upper and lower confining intervals in the East Chapita 48-16 and East Chapita 7-16 AOR wells.

In order to verify that these wells are cased and cemented in a manner to prevent fluid movement from the injection formation into USDWs, the Area of Review wells are required to undergo annual temperature logging. Temperature logs will be conducted after the wells are shut-in and the temperature in the wells is recovering to the background temperature. Review of the logging results will be performed to identify any Bird's Nest fluids which appear to be moving out of the Bird's Nest zone through channels behind casing. The results will be evaluated annually to determine if the requirement can be removed.

If the results of temperature logging show any indication of Bird's Nest zone fluids moving out of zone, injection shall be shut-in and corrective action performed to ensure that Bird's Nests fluids will remain within the Bird's Nest and will not migrate into USDWs.

**Corrective Action Plan**

For wells in the AOR which are improperly sealed, completed, or abandoned, the applicant shall develop a Corrective Action Plan (CAP) consisting of the steps or modifications that are necessary to prevent movement of fluid into USDWs.

The CAP will be incorporated into the Permit as APPENDIX F and become binding on the permittee.

The three (3) Area of Review (AOR) wells, the East Chapita 7-16, East Chapita 102-16 and East Chapita 48-16, require Temperature Logs as demonstration that fluid movement behind pipe is not occurring. Given the close proximity of the East Chapita 48-16 production well, a 6-month temperature log will also be required. This corrective action plan is incorporated into Appendix F. If the results of any of the Temperature Logs show any indication of Bird's Nest zone fluids moving out of zone, the injection well shall be shut-in and corrective action will be required in order to ensure that Bird's Nest fluids remain within the Bird's Nest and do not migrate out of the approved injection zone.

This is the only proposed disposal well within the local area, therefore it is not predicted that a large pressure gradient will occur. A radioactive tracer survey will not be required for the area of review wells.

## PART V. Well Operation Requirements (40 CFR 146.23)

**TABLE 5.1**  
**INJECTION ZONE PRESSURES**  
Coyote SWD 1-16

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River: Birds Nest	1,706	0.620	300

### Approved Injection Fluid

The approved injection fluid is limited to Class II injection well fluids pursuant to 40 CFR § 144.6(b). For disposal wells injecting water brought to the surface in connection with natural gas storage operations, or conventional oil or natural gas production, the fluid may be commingled and the well used to inject other Class II wastes such as drilling fluids and spent well completion, treatment and stimulation fluid. Injection of non-exempt wastes, including unused fracturing fluids or acids, gas plant cooling tower cleaning wastes, service wastes, and vacuum truck and drum rinsate from trucks and drums transporting or containing non-exempt waste, is prohibited.

A random representative sample of the injection water will be collected annually at the sampling tap as described in the Permit under Part II Section A.3(a) in addition to the parameters described in Appendix D.

This well is not approved for commercial brine injection, industrial waste fluid disposal, or injection of hazardous waste as defined by CFR 40 Part 261. The source of the injected fluids is limited to oil and gas production wells operated by the Permittee.

### Injection Pressure Limitation

Injection pressure, measured at the wellhead, shall not exceed a maximum calculated to assure that the pressure used during injection does not initiate new fractures or propagate existing fractures in the confining zones adjacent to the USDWs.

The initial injection pressure for all Bird's Nest Aquifer disposal wells is set at 300 psi, which is equivalent to a formation fracture gradient of 0.62 psi/ft. This fracture gradient, in comparison with other well-known formation fracture pressures in the Uinta basin, is sufficiently low to ensure that a 300 psi injection pressure is not likely to cause fractures within the Bird's Nest.

The operator is required to monitor the pressure in the Bird's Nest annually by recording a stabilized static fluid level. The results of this fluid level monitoring shall be reported to the Director as part of the required Annual Report.

The applicant submitted injection fluid density and injection zone data which was used to calculate a formation fracture pressure and to determine the maximum allowable injection pressure (MAIP), as measured at the surface, for this Permit.

TABLE 5.1 lists the fracture gradient for the injection zone and the approved MAIP, determined

according to the following formula:

$$FP = [fg - (0.433 * sg)] * d$$

- FP = formation fracture pressure (measured at surface)
- fg = fracture gradient (from submitted data or tests)
- sg = specific gravity (of injected fluid)
- d = depth to top of injection zone (or top perforation)

Prior to receiving authorization to inject, the operator will also collect a water sample from the injection zone to be analyzed for TDS, pH, specific gravity, and specific conductivity, and will conduct a background analysis for hydrocarbon content.

Possible conflict with oil-shale mining in the area:

The Bird's Nest zone, of the Green River formation proposed for injection, lies approximately 357 feet above the top of the Mahogany Shale. The Mahogany Shale is being proposed for oil-shale development in the vicinity of this injection well. Concerns have been raised regarding injection into the Bird's Nest and the effect of that injection on proposed oil-shale mining. Of primary concern is the proximity of the Bird's Nest to the Mahogany shale, and the possibility of the injection increasing water intrusion into the mine works.

Research conducted on this topic may be found in the report, "Final Environmental Baseline Report - Federal Prototype Oil Shale Leasing Program, Tracts U-a and U-b Utah, White River Shale Project," VTN Colorado, Inc., October 1977. This report, conducted in part to identify potential problems from adjacent aquifers on the proposed mining project, concludes that the "proposed mining program is not expected to create any interconnection between the Bird's Nest aquifer and the Douglas Creek Member nor is it expected to create vertical flow from either aquifer into the mine workings. However, because of the lack of conclusive proof of the separation of aquifers, it would be advantageous to design an intensified monitoring program in the event that large flows are encountered in the workings."

"Providing that there are no subflows from the Bird's Nest aquifer into the workings, the only effect of development upon the movement of ground water and water level fluctuations will be during the sinking of the mine shaft through the Bird's Nest aquifer. Inflow to the shaft will be stopped as soon as practicable by cementing and casing as stipulated in the DDP. Inflows to the shaft will be temporary, as will be the effect upon water levels. Specific monitoring should not be necessary for this aspect of development."

Due to the high permeabilities found in the Bird's Nest, the injection wells operate on a vacuum during the early stages of the injection project life. Although each permit requires a well test designed to determine fracture pressures in the Bird's Nest, tests conducted on nearby Bird's Nest injection wells have been unable to build up pressure in the Bird's Nest to a degree needed to determine a fracture pressure.

In order to establish how the Bird's Nest reacts to injection, permit conditions require the injection well to undergo annual fluid level determinations. During these tests, the injection well is shut-in and the static fluid level allowed to stabilize. After the fluid level has stabilized, the static fluid level is measured, cumulative injected volume determined, and the fluid in the well is sampled and analyzed for specific gravity in order to determine the pressure in the Bird's Nest. This information will be tracked year-to-year in order to show the buildup of pressure in the Bird's Nest and the

relationship between that pressure and the cumulative volume of fluid injected into the disposal well.

In conjunction with the Annual Report to the Director, the results of this monitoring shall be reported to the Director. This report shall include the results of the annual fluid level monitoring in order to determine how the Bird's Nest injection interval responds to injected volumes.

### **Injection Volume Limitation**

Cumulative injected fluid volume limits are set to assure that injected fluids remain within the boundary of the exempted area. Cumulative injected fluid volume is limited when injection occurs into an aquifer that has been exempted from protection as a USDW.

There will be no restrictions on the daily volume or cumulative volume of authorized Class II fluid injected into the approved Bird's Nest zone so long as the Permittee does not exceed the maximum authorized injection pressure (MAIP).

### **Mechanical Integrity (40 CFR 146.8)**

An injection well has mechanical integrity if:

1. there is no significant leak in the casing, tubing, or packer (Part I); and
2. there is no significant fluid movement into a USDW through vertical channels adjacent to the injection well bore (Part II).

The Permit prohibits injection into a well which lacks mechanical integrity.

The Permit requires that the well demonstrate mechanical integrity prior to injection and periodically thereafter. A demonstration of mechanical integrity includes both internal (Part I) and external (Part II). The methods and frequency for demonstrating Part I and Part II mechanical integrity are dependent upon well-specific conditions as explained below.

Well construction and site-specific conditions dictate the following requirements for Mechanical Integrity (MI) demonstrations:

**PART I MI:** Internal MI will be demonstrated prior to beginning injection. Since this well is constructed with a standard casing, tubing, and packer configuration, a successful mechanical integrity test (MIT) is required to take place at least once every five (5) years. A demonstration of Part I MI is also required prior to resuming injection following any workover operation that affects the casing, tubing or packer. Part I MI may be demonstrated by a standard tubing-casing annulus pressure test using the maximum permitted injection pressure or 1,000 psi, whichever is less, with a ten (10) percent or less pressure loss over thirty (30) minutes.

**RADIOACTIVE TRACER SURVEY:** To be run prior to receiving authorization to inject if the Cement Bond Log fails to prove Part II Mechanical Integrity and at least once within any five year period following the last successful test.

**TEMPERATURE LOG PART II MI:** To be run prior to receiving authorization to inject if the Cement Bond Log fails to prove Part II mechanical integrity and at least once within any five year period following the last successful test.

## **PART VI. Monitoring, Recordkeeping and Reporting Requirements**

### **Injection Well Monitoring Program**

At least once a year the permittee must analyze a sample of the injected fluid for total dissolved solids (TDS), specific conductivity, pH, and specific gravity. This analysis shall be reported to EPA annually as part of the Annual Report to the Director. Any time a new source of injected fluid is added, a fluid analysis shall be made of the new source.

Instantaneous injection pressure, injection flow rate, cumulative fluid volume and TCA pressures must be observed on a weekly basis. A recording, at least once every thirty (30) days, must be made of the injection pressure, annulus pressure, monthly injection flow rate and cumulative fluid volume. This information is required to be reported annually as part of the Annual Report to the Director.

## **PART VII. Plugging and Abandonment Requirements (40 CFR 146.10)**

### **Plugging and Abandonment Plan**

Prior to abandonment, the well shall be plugged in a manner that isolates the injection zone and prevents movement of fluid into or between USDWs, and in accordance with any applicable Federal, State or local law or regulation. Tubing, packer and other downhole apparatus shall be removed. Cement with additives such as accelerators and retarders that control or enhance cement properties may be used for plugs; however, volume-extending additives and gel cements are not approved for plug use. Plug placement shall be verified by tagging. Plugging gel of at least 9.2 lb/gal shall be placed between all plugs. A minimum 50 ft surface plug shall be set inside and outside of the surface casing to seal pathways for fluid migration into the subsurface. Within sixty (60) days after plugging the owner or operator shall submit Plugging Record (EPA Form 7520 13) to the Director. The Plugging Record must be certified as accurate and complete by the person responsible for the plugging operation. The plugging and abandonment plan is described in Appendix E of the Permit.

Coyote SWD 1-16 will be plugged and abandoned in accordance with EPA guidelines.

## **PART VIII. Financial Responsibility (40 CFR 144.52)**

### **Demonstration of Financial Responsibility**

The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the underground injection operation in a manner prescribed by the Director. The permittee shall show evidence of such financial responsibility to the Director by the submission of a surety bond, or other adequate assurance such as financial statements or other materials acceptable to the Director. The Regional Administrator may, on a periodic basis, require the holder of a lifetime permit to submit a revised estimate of the resources needed to plug and abandon the well to reflect inflation of such costs, and a revised demonstration of financial responsibility if necessary. Initially, the operator has chosen to demonstrate financial responsibility with:

Financial Statement was reviewed and approved by the EPA on September 30, 2010.

The applicant has demonstrated financial responsibility by a Financial Statement in the amount of

\$35,000 that has been approved by EPA. The Director may revise the amount required, and may require the permittee to obtain and provide updated estimates of costs for plugging the well according to the approved Plugging and Abandonment plan.

Financial Statement, received September 7, 2010

Evidence of continuing financial responsibility is required to be submitted to the Director annually.

# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: EOG RESOURCES INC

Well Name: COYOTE 1-16 SWD

Api No: 43-047-50806 Lease Type STATE

Section 16 Township 09S Range 23E County UINTAH

Drilling Contractor CRAIG'S ROUSTABOUT SERV RIG # BUCKET

### **SPUDDED:**

Date 03/10/2011

Time 8:00 AM

How DRY

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

Reported by KENT DAVENPORT

Telephone # (435) 828-8200

Date 03/09/2011 Signed CHD

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

FORM 9

**5. LEASE DESIGNATION AND SERIAL NUMBER:**  
ML47045

**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:**

**7. UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**  
Water Disposal Well

**8. WELL NAME and NUMBER:**  
COYOTE 1-16 SWD

**2. NAME OF OPERATOR:**  
EOG Resources, Inc.

**9. API NUMBER:**  
43047508060000

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

**PHONE NUMBER:**  
435 781-9111 Ext

**9. FIELD and POOL or WILDCAT:**  
NATURAL BUTTES

**4. LOCATION OF WELL**  
**FOOTAGES AT SURFACE:**  
2246 FNL 0535 FEL  
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**  
Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E 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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/16/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>

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

In order to improve chances of achieving acceptable cement bonding on the proposed salt water disposal well surface casing cement job, EOG Resources requests permission to revise the surface casing cement and float equipment program to that shown on the attached.

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

**Date:** 03/21/2011  
**By:** Derek Duff

**NAME (PLEASE PRINT)**  
Mickenzie Gates

**PHONE NUMBER**  
435 781-9145

**TITLE**  
Operations Clerk

**SIGNATURE**  
N/A

**DATE**  
3/16/2011

**EIGHT POINT PLAN**

**COYOTE 01-16 SWD**

**SE/NE, SEC. 16, T9S, R23E, S.L.B.&M.**  
**UINTAH COUNTY, UTAH**

**Revised: 03/15/2011**

**5. FLOAT EQUIPMENT:**

**Surface Hole Procedure (Surface - ± 1675'):**

Guide Shoe

Float Shoe

Centralizers: 1 – middle of shoe joint, every collar for next 5 joints, every other joint for total of 25

**9. CEMENT PROGRAM:**

**Surface Hole Procedure (Surface - ± 1675'):**

**Lead:** Lead volume to be calculated to bring cement from 400' above casing shoe to surface. Lead cement will be:

**165 sx. HES VariCem (Type III) + 0.3% Steelseal (Lost Circulation Additive) + 0.2% Poly-E-Flake (Lost Circulation Additive) + 5 pps Pheno Seal (Lost Circulation Additive) + 0.1% Tuf Fiber 594 (Lost Circulation Additive) + 1% Microbond (Expander) mixed at 12.3 ppg, 2.42 cfps, 13.46 gps fresh water**

**Tail:** Tail volume to be calculated to bring cement 400' above casing shoe. Tail cement will be:

**100 sx. HES HalCem (Type V) + 0.25 pps Poly-E-Flake (Lost Circulation Additive) + 3% Microbond (Expander), mixed at 15.6 ppg, 1.21 cfps, 5.35 gps fresh water**

**Top Out:** As necessary with:

**HES HalCem (Type V) + 2% CaCl<sub>2</sub> (Accelerator), mixed at 15.8 ppg, 1.17 cfps, 5.02 gps fresh water**

**Note:** The above number of sacks are calculated based on gauge hole with no excess. Final field cement volumes will be based on the greater of gauge hole plus 100% excess or 15% over open-hole caliper log volume.

**Note:** **Cement volumes will be calculated to bring cement to surface.**

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML47045
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>
<b>1. TYPE OF WELL</b> Water Disposal Well	<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD	
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047508060000	
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2246 FNL 0535 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH	
	<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 3/10/2011  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The referenced well was spud on March 10, 2011.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/22/2011	

# DIVISION OF OIL, GAS AND MINING

## SPUDDING INFORMATION

Name of Company: EOG RESOURCES INC

Well Name: COYOTE 1-16 SWD

Api No: 43-047-50806 Lease Type STATE

Section 16 Township 09S Range 23E County UINTAH

Drilling Contractor CRAIG'S ROUSTABOUT AIR RIG # 5

### SPUDED:

Date 03/19/2011

Time 12:55 AM

How ROTARY

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

Reported by KERRY SALES

Telephone # (801) 598-5087

Date 03/22/2011 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

Operator: EOG Resources, Inc. Operator Account Number: N 9550  
 Address: 1060 East Highway 40  
city Vernal  
state UT zip 84078 Phone Number: (307) 276-4842

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-50806	Coyote 1-16 SWD		SENE	16	9S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17982	3/10/2011			3/23/11	
Comments: BIRDSNEST = GRV							

**Well 2**

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

**Well 3**

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

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Michelle Robles

Name (Please Print)

*Michelle Robles*

Signature

Regulatory Assistant

3/22/2011

Title

Date

**RECEIVED**

**MAR 22 2011**

(5/2000)

<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> ML47045
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Water Disposal Well		<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD
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		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 4/5/2011	<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>APD EXTENSION</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b> <input type="checkbox"/> <b>OTHER</b>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see the attached well chronology report for the referenced well showing all activity up to 4/5/2011.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Mickenzie Gates	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/5/2011

## WELL CHRONOLOGY REPORT

Report Generated On: 04-05-2011

<b>Well Name</b>	COYOTE 1-16 SWD	<b>Well Type</b>	SWD	<b>Division</b>	DENVER
<b>Field</b>	EAST CHAPITA	<b>API #</b>	43-047-50806	<b>Well Class</b>	COMP
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	03-14-2011	<b>Class Date</b>	
<b>Tax Credit</b>	N	<b>TVD / MD</b>	1,970/ 1,970	<b>Property #</b>	065330
<b>Water Depth</b>	0	<b>Last CSG</b>	0.0	<b>Shoe TVD / MD</b>	0/ 0
<b>KB / GL Elev</b>	4,947/ 4,944				
<b>Location</b>	Section 16, T9S, R23E, SENE, 2246 FNL & 535 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL SWD FACILITY		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	100.0	<b>NRI %</b>	0.0

<b>AFE No</b>	310054	<b>AFE Total</b>	714,800	<b>DHC / CWC</b>	399,800/ 315,000
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<b>Rig Contr</b>	CRAIGS	<b>Rig Name</b>	CRAIGS #4	<b>Start Date</b>	03-14-2011	<b>Release Date</b>	
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<b>Rig Contr</b>	#202 290-8447	<b>Rig Name</b>	361-648-2694	<b>Start Date</b>	03-17-2011	<b>Release Date</b>	
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11-09-2009      **Reported By**      CINDY VAN RANKEN

<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
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<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0
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<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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**Activity at Report Time:** LOCATION DATA

Start	End	Hrs	Activity Description
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06:00	06:00	24.0	LOCATION DATA
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2246' FNL & 535' FEL (SE/NE)

SECTION 16, T9S, R23E

UINTAH COUNTY, UTAH

LAT 40.037039, LONG 109.324419 (NAD 83)

LAT 40.037072, LONG 109.323742 (NAD 27)

RIG

OBJECTIVE: 1970' TD, BIRDNEST ZONE

WATER DISPOSAL WELL

PROSPECT: EAST CHAPITA

DD&A:

FIELD: UNASSIGNED

LEASE: ML-47045

ELEVATION: 4947.2' NAT GL, 4943.8' PREP GL (DUE TO ROUNDING PREP GL IS 4944'), ' KB (')

EOG WI 100%, NRI %

03-01-2011 Reported By TERRY CSERE

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

Cum Costs: Drilling \$0 Completion \$0 Well Total \$0

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

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PAD STARTED TODAY, 3/01/2011.

03-02-2011 Reported By TERRY CSERE

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

Cum Costs: Drilling \$0 Completion \$0 Well Total \$0

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

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 100% COMPLETE. WO AIR RIG.

03-14-2011 Reported By KENT DEVENPORT

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

Cum Costs: Drilling \$0 Completion \$0 Well Total \$0

MD 83 TVD 83 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: SPUD NOTIFICATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	CRAIG'S BUCKET RIG SPUD A 20" HOLE ON 3/10/11 @ 08:00 AM, SET 83' OF 13 3/8" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. BLM WAS NOTIFIED BY EMAIL OF SPUD ON 3/9/11 @ 05:41 AM. ENCOUTNERED SURFACE WATER, PRESSURE CEMENT WITH HALLIBURTON. INSTAL 6" x 4' BEAM PLATFORM ON CASING AS EXTRA SUPPORT ADD CONCRETE 1' BELOW AND COVERING THE PLATFORM

03-15-2011 Reported By KERRY SALES

DailyCosts: Drilling \$21,325 Completion \$0 Daily Total \$21,325

Cum Costs: Drilling \$21,325 Completion \$0 Well Total \$21,325

MD 550 TVD 550 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING AT 550'

Start	End	Hrs	Activity Description
06:00	20:30	14.5	MIRU.
20:30	06:00	9.5	RIG ON DAY WORK ON 3/14/2011 AT 20:30 HOURS. AIR HAMMER DRILL 12 1/4" FROM GL 83' TO 550'. WATER MIST, AIR PSI 230. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: P/U DRILL COLLARS, RIGGING UP. DIESEL USED 416 GALLONS.

03-16-2011 Reported By KERRY SALES

DailyCosts: Drilling \$16,716 Completion \$0 Daily Total \$16,716

Cum Costs: Drilling \$38,041 Completion \$0 Well Total \$38,041

MD 1,280 TVD 1,280 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING AT 1280'.

Start End Hrs Activity Description

06:00 17:00 11.0 HAMMER AIR MIST DRILL FROM GL 550' TO 940'.  
 17:00 18:30 1.5 POH AND LAY DOWN AIR HAMMER.  
 18:30 20:00 1.5 PICK UP TRI-CONE BIT AND ROTARY BHA.  
 20:00 06:00 10.0 DRILL 12 1/4" HOLE FROM GL 940' TO 1280'. AIR AND MIST DRILLING.  
 FULL CREWS.  
 NO ACCIDENTS OR INCENDENTS REPORTED.  
 SAFETY MEETINGS: WINCH LINE, TRIPPING.  
 FUEL USED 649.

03-17-2011 Reported By KERRY SALES

DailyCosts: Drilling \$22,495 Completion \$0 Daily Total \$22,495

Cum Costs: Drilling \$60,536 Completion \$0 Well Total \$60,536

MD 1,673 TVD 1,673 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING @ 1673'

Start End Hrs Activity Description

06:00 06:00 24.0 FLUID DRILL FROM GL 1280' TO 1673'. 100% RETURNS.  
 NO INCIDENTS OR ACCIDENTS REPORTED  
 SAFETY MEETING HELD 2 X WORKING IN H2s ENVIRONMENT.  
 FUEL USAGE 535 GALLONS

03-18-2011 Reported By KERRY SALES

DailyCosts: Drilling \$32,725 Completion \$0 Daily Total \$32,725

Cum Costs: Drilling \$93,261 Completion \$0 Well Total \$93,261

MD 1,714 TVD 1,714 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RIH TO SET CEMENT PLUG

Start End Hrs Activity Description

06:00 09:00 3.0 DRILL F/ 1673' TO 1714'.  
 09:00 10:30 1.5 CIRCULATE FOR SHORT TRIP.  
 10:30 13:00 2.5 SHORT TRIP TO 1400', BACK ON BTM, CIRCULATE SURVEY 1.5 DEGREES @ 1700'.  
 13:00 16:30 3.5 POH FOR LOGS.  
 16:30 21:00 4.5 LOGGING WITH SCHLUMBERGER, RUN TO 1714' LOGGERS DEPTH.  
 21:00 21:30 0.5 POUR CAL-CARB INTO WELL BORE.  
 21:30 00:00 2.5 RIH TO SET CEMENT PLUG.  
 00:00 01:00 1.0 WASH F/ 1564' TO 1690' PLUG STRING WHILE MAKING CONNECTION.  
 01:00 02:00 1.0 POH 4 JOINTS ATTEMPT TO UNPLUG, NO SUCCESS, PULL 10 JOINTS ATTEMPT TO UNPLUG NO SUCCESS.

02:00 04:00 2.0 TRIP OUT AND UNPLUG STRING AT SURFACE.  
 04:00 06:00 2.0 RIH W/ CEMENT STINGER TO SET PLUG @ 800'.

NO INCIDENTS OR ACCIDENTS REPORTED.  
 SAFETY MEETINGS HELD: LOGGING & TRIPPING  
 FUEL USAGE = 595 GALLONS

**03-19-2011**      **Reported By**      KERRY SALES

**DailyCosts: Drilling**      \$16,716      **Completion**      \$0      **Daily Total**      \$16,716

**Cum Costs: Drilling**      \$109,977      **Completion**      \$0      **Well Total**      \$109,977

**MD**      1,714      **TVD**      1,714      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** CIRCULATE CASING

Start	End	Hrs	Activity Description
06:00	08:30	2.5	TRIP IN HOLE WITH DP FOR CEMENT PLUG FROM 800' TO 1500'.
08:30	09:30	1.0	WASH IN HOLE FROM 1500' TO 1690'. CEMENT PLUG DEPTH.
09:30	10:00	0.5	PUMP SWEEP AND CIRCULATE OUT OYSTER SHELLS.
10:00	11:30	1.5	HOLD SAFETY MEETING. RIG UP HALLIBURTON AND SET CEMENT PLUG AS FOLLOWS. PRESSURE TEST LINES TO 3500 PSI, 20 BBL WATER SPACER, 105 SACKS OF 15.8 PPG, YEALD 1.16, 5.0 GPS, 21.6 BBLs. (CALCULATED 148' PLUG).
11:30	12:30	1.0	LAY DOWN 8 JOINTS OF DP THEN CIRCULATE PIPE CLEAN AT 1430'.
12:30	15:00	2.5	TOH TO SURFACE.
15:00	15:30	0.5	MEASURE AND SET UP BHA ON RACKS.
15:30	19:00	3.5	TIH TO 1565' TOP OF CEMENT. (125' PLUG).
19:00	20:30	1.5	DRILL CEMENT FROM 1565' TO 1684'. 3' BELOW CASING SHOE.
20:30	21:30	1.0	CIRCULATE HOLE CLEAN.
21:30	23:30	2.0	TOH AND LAY DOWN BHA.
23:30	02:00	2.5	RIG DOWN AND SET UP FOR CASING.
02:00	05:30	3.5	RUN 42 JOINTS OF 9 5/8, K-55, 36#, STC CASING. SHOE GL 1679', RKB 1682'. HOLE GL 1682', RKB 1684'. FLOAT COLLAR RKB 1594.96'. RAN 12 CENTRALIZERS: 5 ON BOTTOM THEN EVERY 5 JOINTS UNTIL SURFACE. ( 2 JOINT SHOE TRACK).
05:30	06:00	0.5	CIRCULATE CASING CAPACITY.

FULL CREWS.  
 NO ACCIDENTS OR INCENDENTS REPORTED.  
 SAFETY MEETINGS: MOVING BHA, TRIPPING.  
 FUEL USED 476 GALLONS.

**03-20-2011**      **Reported By**      KERRY SALES

**DailyCosts: Drilling**      \$131,309      **Completion**      \$0      **Daily Total**      \$131,309

**Cum Costs: Drilling**      \$241,286      **Completion**      \$0      **Well Total**      \$241,286

**MD**      1,714      **TVD**      1,714      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** WAIT ON CEMENT

Start	End	Hrs	Activity Description
06:00	06:30	0.5	CIRCULATE CASING CAPACITY AND CONDITION HOLE.
06:30	07:00	0.5	LAY DOWN LANDING JOINT AND CIRCULATING SWEDGE ASSEMBLY.
07:00	07:30	0.5	RUN 75' OF 1" PIPE FOR CEMENT TOP OUT.

07:30 08:30 1.0 MOVE RIG OFF THE HOLE.

08:30 12:30 4.0 RIG RELEASED ON 3/19/2011 AT 12:30 HOURS.  
FULL CREWS.  
NO ACCIDENTS OR INCENDENTS REPORTED.  
SAFETY MEETINGS: R/U PUMPS, CEMENTING.  
FUEL USED 60 GALLONS.

RIG UP HALLIBURTON CEMENT HEAD AND CIRCULATE CASING WITH RIG PUMP. HALLIBURTON SENT THE WRONG CEMENT FOR THE JOB. STAND BY AND WAIT FOR CORRECT CEMENT.

12:30 18:00 5.5 MIRU: HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3000 PSI. PUMPED 10 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SK OF SCAVENGER 31 BBL, 5 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SKS OF SCAVENGER 31 BBL AT 10.5 PPG AND 5 BBL OF WATER. LEAD: MIXED AND PUMPED 350 SACKS (150.8 BBLS) OF PREMIUM LEAD CEMENT 12.3 PPG, YIELD 2.42. .2% POLY-E-FLAKE, 5 PPS PHENO SEAL, .1% TUF FIBER, 1% MICROBOND, TAIL MIXED AND PUMPED 200 SACKS (43 BBLS) OF PREMIUM CEMENT W/ 2% CACL2, MIXED CEMENT @ 15.6 PPG W/ YIELD OF 1.21, 5.35 GPS. WE DISPLACED CEMENT W/ 123 BBLS OF FRESH WATER, LAST 15 BBL WAIT 5 MINUTES PUMP 5 BBL WAIT 5 MINUTES PUMPED 5 BBL WAIT 5 MINUTES PUMP 5 BBLS AND BUMPED PLUG. FCP 454 PSI, BUMPED PLUG W/994 PSI @ 16:21 PM. 03/019/2011 FLOATS HELD 1 BBL BACK. FULL RETURNS THROUGH OUT THE JOB. 80 BBL OF LEAD TO SURFACE 185 SACKS. TEST CASING TO 1515 PSI FOR 30 MINUTES, GOOD TEST. WOC 1 HOUR.

TOP JOB # 1: DOWN 75' OF 1' PIPE, MIXED & PUMPED 70 SX (14.5 BBLS) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG, YIELD 1.17 CF/SX. 7.5 BBLS TO SURFACE, WELL FULL AND STATIC. OBSERVE WELL FOR 2 HRS WHILE RIGGING DOWN.  
WOC FOR 72 HOURS.

KERRY SALES NOTIFIED THE BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 03/19/2011 @ 12:55 PM. KERRY SALES NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING AND CEMENT VIA PHONE ON 03/19/2011 AT 12:55 PM. STATE AND BLM NOTIFIED ON 03/18/2011 @ 12:50 PM.

03-24-2011 Reported By KERRY SALES

<b>DailyCosts: Drilling</b>	\$35,455	<b>Completion</b>	\$0	<b>Daily Total</b>	\$35,455						
<b>Cum Costs: Drilling</b>	\$276,742	<b>Completion</b>	\$0	<b>Well Total</b>	\$276,742						
<b>MD</b>	1,880	<b>TVD</b>	1,880	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

Activity at Report Time: DRILLING AT 1880'

Start	End	Hrs	Activity Description
06:00	12:30	6.5	MIRU. RIG ON DAYWORK 12:30 PM 3/23/2011.
12:30	15:30	3.0	TIH WITH 8 3/4" TRI CONE BIT. TAG CEMENT AT 1589'.
15:30	18:00	2.5	DRILL FLOAT COLLAR AND SHOE TRACK TO 1678'. 2' + FROM SHOE.
18:00	18:30	0.5	CIRCULATE HOLE CLEAN FOR CBL LOGS.
18:30	20:30	2.0	TOH FOR LOGS.
20:30	23:00	2.5	RUN CBL LOG WITH CUTTERS WIRE LINE. DRILLERS DEPTH 1678', LOGGERS DEPTH 1677'.
23:00	01:30	2.5	TIH. STAGE IN HOLE UNLOADING WATER.
01:30	04:30	3.0	DRILL FOM 1678' TO 1850'.
04:30	05:00	0.5	SURVEY AT 1820' 2 DEGREES.
05:00	06:00	1.0	DRILL FROM 1850' TO 1880'. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: RIGGING UP, TRIPPING.

DIESEL USED 297 GALLONS.

<b>03-25-2011</b>	<b>Reported By</b>	KERRY SALES									
<b>DailyCosts: Drilling</b>	\$10,681	<b>Completion</b>	\$0	<b>Daily Total</b>	\$10,681						
<b>Cum Costs: Drilling</b>	\$287,423	<b>Completion</b>	\$0	<b>Well Total</b>	\$287,423						
<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

Activity at Report Time: RIG RELEASED ON 3/24/2011.

Start	End	Hrs	Activity Description
06:00	07:00	1.0	PRESSURED OUT AT 1880' RIG UP TO PUMP DRILL.
07:00	11:30	4.5	PUMP FROM 1880' TO 1970'. TD.
11:30	12:30	1.0	SURVEY AT 1970' FEET. 1.5 DEG.
12:30	13:30	1.0	CIRCULATE AND CONDITION HOLE.
13:30	16:00	2.5	TRIP OUT OF HOLE.
16:00	20:00	4.0	LOG WITH SCHLUMBERGER. TAG WATER 270. DRILL DEPTH 1970 LOGGERS DEPTH 1977.
20:00	20:30	0.5	RIG DOWN LOGGERS.
			RIG RELEASED @ 20:30 HOURS 3/24/2011.
			FULL CREWS.
			NO ACCIDENTS OR INCENDENTS REPORTED.
			SAFETY MEETINGS: TRIPPING, LOGGING.
			FUEL USED 120 GALLONS.

<b>03-30-2011</b>	<b>Reported By</b>	TORR MCCURDY									
<b>DailyCosts: Drilling</b>	\$11,215	<b>Completion</b>	\$2,725	<b>Daily Total</b>	\$13,940						
<b>Cum Costs: Drilling</b>	\$298,639	<b>Completion</b>	\$2,725	<b>Well Total</b>	\$301,364						
<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

Activity at Report Time: PREP TO RIH W/SCRAPER

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU BASIC RIG 1.

<b>03-31-2011</b>	<b>Reported By</b>	TORR MCCURDY									
<b>DailyCosts: Drilling</b>	\$11,215	<b>Completion</b>	\$4,450	<b>Daily Total</b>	\$15,665						
<b>Cum Costs: Drilling</b>	\$309,854	<b>Completion</b>	\$7,175	<b>Well Total</b>	\$317,029						
<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

Activity at Report Time: PREP TO SWAB

Start	End	Hrs	Activity Description
06:00	06:00	24.0	NU BOPS. RIH W/9 5/8" SCRAPER TO 1642'. POH. LD SCRAPER. RIH W/9-5/8" ARROW SET PACKER TO. MIXED AND PUMP 110 BBLs TREATED WATER W/6 GAL NALCO EC 6106A, 12 GAL EC 1385A CORROSION INHIBITOR, 55 GAL DIESEL DOWN ANNULUS. SET PACKER. ND BOP & NU TUBING HEAD. LOAD ANNULUS W/35 BBLs. SDFN.
			TBG DETAIL LENGTH
			ARROW SET PACKER 9.30'

1 JT 3-1/2", 9.3# J-55 TBG 32.50'  
 3-1/2" SN 1.09'  
 49 JTS 3-1/2" 9.3# J-55 TBG 1577.27'  
 LANDED @ 1620.16' GL

**04-01-2011**      **Reported By**      TORR MCCURDY

**Daily Costs: Drilling**      \$11,215      **Completion**      \$4,950      **Daily Total**      \$16,165  
**Cum Costs: Drilling**      \$321,070      **Completion**      \$12,125      **Well Total**      \$333,195

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** SWABBING

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SITP & SICP 0 PSIG. PUMPED 85 BBLS W/6 GALS NALCO EC 6106A, 6 GALS EC 1385A CORROSION INHIBITOR DOWN ANNULUS. PRESSURED TO 600 PSIG. BLED TO 250 PSIG IN 3 MIN. PULLED TENSION TO 50K OVER STRING WIEGHT. RELANDED WITH 30K TENSION. RETESTED TO 600 PSIG. BLED TO 300 PSIG IN 5 MIN. RU TO SWAB. MADED 28 RUNS. RECOVERED 255 BW. IFL @ 80' & FFL @ 80'. CP 300 PSIG. SDFN.

**04-02-2011**      **Reported By**      TORR MCCURDY

**Daily Costs: Drilling**      \$11,215      **Completion**      \$24,856      **Daily Total**      \$36,071  
**Cum Costs: Drilling**      \$332,285      **Completion**      \$36,981      **Well Total**      \$369,266

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** PREP WELL FOR INJECTION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SITP & SICP 0 PSIG. PUMP 8 BTFW DOWN ANNULUS @ 1/4 BPM/600 PSIG. SD. PRESSURE BLED TO 250 PSIG IN 2 MIN. RU TO SWAB. IFL @ 80'. MADE 13 RUNS. FFL @ 80'. RECOVERED 124 BW. CUM 379 BW. NALCO TOOK WATER SAMPLES. ND PACK OFF NUT. STACKED OUT TUBING ON PACKER. NU TUBING PACKING. PRESSURED ANNULUS TO 1400 PSIG/10 MIN. NO LEAK OFF. PULLED 20K TENSION INTO PACKER. RELANDED TUBING. TESTED ANNULUS TO 650 PSIG/30 MIN. NO LEAK OFF. BLED OFF TO 600 PSIG. SDFW. RD MOSU.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
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<b>1. TYPE OF WELL</b> Water Disposal Well	<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD																															
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center;">No activity has occurred since last submission on 4/5/2011.</p> <div style="text-align: right; padding-right: 50px;"> <p><b>Accepted by the</b>  <b>Utah Division of</b>  <b>Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b></p> </div>																																
<b>NAME (PLEASE PRINT)</b> Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	<b>TITLE</b> Regulatory Assistant																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/2/2011																															

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>SIGNATURE</b> N/A	<b>DATE</b> 5/2/2011	

## WELL CHRONOLOGY REPORT

Report Generated On: 04-28-2011

<b>Well Name</b>	COYOTE 1-16 SWD	<b>Well Type</b>	SWD	<b>Division</b>	DENVER
<b>Field</b>	EAST CHAPITA	<b>API #</b>	43-047-50806	<b>Well Class</b>	COMP
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	03-14-2011	<b>Class Date</b>	
<b>Tax Credit</b>	N	<b>TVD / MD</b>	1,970/ 1,970	<b>Property #</b>	065330
<b>Water Depth</b>	0	<b>Last CSG</b>	0.0	<b>Shoe TVD / MD</b>	0/ 0
<b>KB / GL Elev</b>	4,947/ 4,944				
<b>Location</b>	Section 16, T9S, R23E, SENE, 2246 FNL & 535 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL SWD FACILITY		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	100.0	<b>NRI %</b>	0.0

<b>AFE No</b>	310054	<b>AFE Total</b>	714,800	<b>DHC / CWC</b>	399,800/ 315,000
<b>Rig Contr</b>	CRAIGS	<b>Rig Name</b>	RIG #4	<b>Start Date</b>	03-14-2011
<b>11-09-2009</b>	<b>Reported By</b>	CINDY VAN RANKEN			
<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0
<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>		<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA
			2246' FNL & 535' FEL (SE/NE)
			SECTION 16, T9S, R23E
			UINTAH COUNTY, UTAH
			LAT 40.037039, LONG 109.324419 (NAD 83)
			LAT 40.037072, LONG 109.323742 (NAD 27)
			RIG
			OBJECTIVE: 1970' TD, BIRDNEST ZONE
			WATER DISPOSAL WELL
			PROSPECT: EAST CHAPITA
			DD&A:
			FIELD: UNASSIGNED
			LEASE: ML-47045
			ELEVATION: 4947.2' NAT GL, 4943.8' PREP GL (DUE TO ROUNDING PREP GL IS 4944'), ' KB (')
			EOG WI 100%, NRI %

03-01-2011      Reported By      TERRY CSERE

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0  
 Cum Costs: Drilling \$0 Completion \$0 Well Total \$0  
 MD 0 TVD 0 Progress 0 Days 0 MW 0.0 Visc 0.0  
 Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	PAD STARTED TODAY, 3/01/2011.

03-02-2011 Reported By TERRY CSERE

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0  
 Cum Costs: Drilling \$0 Completion \$0 Well Total \$0  
 MD 0 TVD 0 Progress 0 Days 0 MW 0.0 Visc 0.0  
 Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: BUILD LOCATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION 100% COMPLETE. WO AIR RIG.

03-14-2011 Reported By KENT DEVENPORT

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0  
 Cum Costs: Drilling \$0 Completion \$0 Well Total \$0  
 MD 83 TVD 83 Progress 0 Days 0 MW 0.0 Visc 0.0  
 Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: SPUD NOTIFICATION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	CRAIG'S BUCKET RIG SPUD A 20" HOLE ON 3/10/11 @ 08:00 AM, SET 83' OF 13 3/8" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. BLM WAS NOTIFIED BY EMAIL OF SPUD ON 3/9/11 @ 05:41 AM. ENCOUNTERED SURFACE WATER, PRESSURE CEMENT WITH HALLIBURTON. INSTAL 6" x 4' BEAM PLATFORM ON CASING AS EXTRA SUPPORT ADD CONCRETE 1' BELOW AND COVERING THE PLATFORM

03-15-2011 Reported By KERRY SALES

DailyCosts: Drilling \$21,325 Completion \$0 Daily Total \$21,325  
 Cum Costs: Drilling \$21,325 Completion \$0 Well Total \$21,325  
 MD 550 TVD 550 Progress 0 Days 0 MW 0.0 Visc 0.0  
 Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING AT 550'

Start	End	Hrs	Activity Description
06:00	20:30	14.5	MIRU.
20:30	06:00	9.5	RIG ON DAY WORK ON 3/14/2011 AT 20:30 HOURS. AIR HAMMER DRILL 12 1/4" FROM GL 83' TO 550'. WATER MIST, AIR PSI 230. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: P/U DRILL COLLARS, RIGGING UP. DIESEL USED 416 GALLONS.

03-16-2011 Reported By KERRY SALES

<b>DailyCosts: Drilling</b>	\$16,716	<b>Completion</b>	\$0	<b>Daily Total</b>	\$16,716						
<b>Cum Costs: Drilling</b>	\$38,041	<b>Completion</b>	\$0	<b>Well Total</b>	\$38,041						
<b>MD</b>	1,280	<b>TVD</b>	1,280	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

**Activity at Report Time:** DRILLING AT 1280'.

Start	End	Hrs	Activity Description
06:00	17:00	11.0	HAMMER AIR MIST DRILL FROM GL 550' TO 940'.
17:00	18:30	1.5	POH AND LAY DOWN AIR HAMMER.
18:30	20:00	1.5	PICK UP TRI-CONE BIT AND ROTARY BHA.
20:00	06:00	10.0	DRILL 12 1/4" HOLE FROM GL 940' TO 1280'. AIR AND MIST DRILLING. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: WINCH LINE, TRIPPING. FUEL USED 649.

**03-17-2011**      **Reported By**      KERRY SALES

<b>DailyCosts: Drilling</b>	\$22,495	<b>Completion</b>	\$0	<b>Daily Total</b>	\$22,495						
<b>Cum Costs: Drilling</b>	\$60,536	<b>Completion</b>	\$0	<b>Well Total</b>	\$60,536						
<b>MD</b>	1,673	<b>TVD</b>	1,673	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

**Activity at Report Time:** DRILLING @ 1673'

Start	End	Hrs	Activity Description
06:00	06:00	24.0	FLUID DRILL FROM GL 1280' TO 1673'. 100% RETURNS.  NO INCIDENTS OR ACCIDENTS REPORTED SAFETY MEETING HELD 2 X WORKING IN H2s ENVIRONMENT. FUEL USAGE 535 GALLONS

**03-18-2011**      **Reported By**      KERRY SALES

<b>DailyCosts: Drilling</b>	\$32,725	<b>Completion</b>	\$0	<b>Daily Total</b>	\$32,725						
<b>Cum Costs: Drilling</b>	\$93,261	<b>Completion</b>	\$0	<b>Well Total</b>	\$93,261						
<b>MD</b>	1,714	<b>TVD</b>	1,714	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

**Activity at Report Time:** RIH TO SET CEMENT PLUG

Start	End	Hrs	Activity Description
06:00	09:00	3.0	DRILL F/ 1673' TO 1714'.
09:00	10:30	1.5	CIRCULATE FOR SHORT TRIP.
10:30	13:00	2.5	SHORT TRIP TO 1400', BACK ON BTM, CIRCULATE SURVEY 1.5 DEGREES @ 1700'.
13:00	16:30	3.5	POH FOR LOGS.
16:30	21:00	4.5	LOGGING WITH SCHLUMBERGER, RUN TO 1714' LOGGERS DEPTH.
21:00	21:30	0.5	POUR CAL-CARB INTO WELL BORE.
21:30	00:00	2.5	RIH TO SET CEMENT PLUG.
00:00	01:00	1.0	WASH F/ 1564' TO 1690' PLUG STRING WHILE MAKING CONNECTION.
01:00	02:00	1.0	POH 4 JOINTS ATTEMPT TO UNPLUG, NO SUCCESS, PULL 10 JOINTS ATTEMPT TO UNPLUG NO SUCCESS.
02:00	04:00	2.0	TRIP OUT AND UNPLUG STRING AT SURFACE.

04:00 06:00 2.0 RIH W/ CEMENT STINGER TO SET PLUG @ 800'.

NO INCIDENTS OR ACCIDENTS REPORTED.  
SAFETY MEETINGS HELD: LOGGING & TRIPPING  
FUEL USAGE = 595 GALLONS

**03-19-2011** Reported By KERRY SALES

<b>DailyCosts: Drilling</b>	\$16,716	<b>Completion</b>	\$0	<b>Daily Total</b>	\$16,716
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<b>Cum Costs: Drilling</b>	\$109,977	<b>Completion</b>	\$0	<b>Well Total</b>	\$109,977
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<b>MD</b>	1,714	<b>TVD</b>	1,714	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: CIRCULATE CASING

Start	End	Hrs	Activity Description
06:00	08:30	2.5	TRIP IN HOLE WITH DP FOR CEMENT PLUG FROM 800' TO 1500'.
08:30	09:30	1.0	WASH IN HOLE FROM 1500' TO 1690'. CEMENT PLUG DEPTH.
09:30	10:00	0.5	PUMP SWEEP AND CIRCULATE OUT OYSTER SHELLS.
10:00	11:30	1.5	HOLD SAFETY MEETING. RIG UP HALLIBURTON AND SET CEMENT PLUG AS FOLLOWS. PRESSURE TEST LINES TO 3500 PSI, 20 BBL WATER SPACER, 105 SACKS OF 15.8 PPG, YEALD 1.16, 5.0 GPS, 21.6 BBLs. (CALCULATED 148' PLUG).
11:30	12:30	1.0	LAY DOWN 8 JOINTS OF DP THEN CIRCULATE PIPE CLEAN AT 1430'.
12:30	15:00	2.5	TOH TO SURFACE.
15:00	15:30	0.5	MEASURE AND SET UP BHA ON RACKS.
15:30	19:00	3.5	TIH TO 1565' TOP OF CEMENT. (125' PLUG).
19:00	20:30	1.5	DRILL CEMENT FROM 1565' TO 1684'. 3' BELOW CASING SHOE.
20:30	21:30	1.0	CIRCULATE HOLE CLEAN.
21:30	23:30	2.0	TOH AND LAY DOWN BHA.
23:30	02:00	2.5	RIG DOWN AND SET UP FOR CASING.
02:00	05:30	3.5	RUN 42 JOINTS OF 9 5/8, K-55, 36#, STC CASING. SHOE GL 1679', RKB 1682'. HOLE GL 1682', RKB 1684'. FLOAT COLLAR RKB 1594.96'. RAN 12 CENTRALIZERS: 5 ON BOTTOM THEN EVERY 5 JOINTS UNTIL SURFACE. ( 2 JOINT SHOE TRACK).
05:30	06:00	0.5	CIRCULATE CASING CAPACITY. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: MOVING BHA, TRIPPING. FUEL USED 476 GALLONS.

**03-20-2011** Reported By KERRY SALES

<b>DailyCosts: Drilling</b>	\$131,309	<b>Completion</b>	\$0	<b>Daily Total</b>	\$131,309
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<b>Cum Costs: Drilling</b>	\$241,286	<b>Completion</b>	\$0	<b>Well Total</b>	\$241,286
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<b>MD</b>	1,714	<b>TVD</b>	1,714	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: WAIT ON CEMENT

Start	End	Hrs	Activity Description
06:00	06:30	0.5	CIRCULATE CASING CAPACITY AND CONDITION HOLE.
06:30	07:00	0.5	LAY DOWN LANDING JOINT AND CIRCULATING SWEDGE ASSEMBLY.
07:00	07:30	0.5	RUN 75' OF 1" PIPE FOR CEMENT TOP OUT.
07:30	08:30	1.0	MOVE RIG OFF THE HOLE.

08:30 12:30 4.0 RIG RELEASED ON 3/19/2011 AT 12:30 HOURS.  
 FULL CREWS.  
 NO ACCIDENTS OR INCENDENTS REPORTED.  
 SAFETY MEETINGS: R/U PUMPS, CEMENTING.  
 FUEL USED 60 GALLONS.

RIG UP HALLIBURTON CEMENT HEAD AND CIRCULATE CASING WITH RIG PUMP. HALLIBURTON SENT THE WRONG CEMENT FOR THE JOB. STAND BY AND WAIT FOR CORRECT CEMENT.

12:30 18:00 5.5 MIRU: HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3000 PSI. PUMPED 10 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SK OF SCAVENGER 31 BBL, 5 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SKS OF SCAVENGER 31 BBL AT 10.5 PPG AND 5 BBL OF WATER. LEAD: MIXED AND PUMPED 350 SACKS (150.8 BBLs) OF PREMIUM LEAD CEMENT 12.3 PPG, YIELD 2.42. .2% POLY-E-FLAKE, 5 PPS PHENO SEAL, .1% TUF FIBER, 1% MICROBOND, TAIL MIXED AND PUMPED 200 SACKS (43 BBLs) OF PREMIUM CEMENT W/ 2% CACL2, MIXED CEMENT @ 15.6 PPG W/ YIELD OF 1.21, 5.35 GPS. WE DISPLACED CEMENT W/ 123 BBLs OF FRESH WATER, LAST 15 BBL WAIT 5 MINUTES PUMP 5 BBL WAIT 5 MINUTES PUMPED 5 BBL WAIT 5 MINUTES PUMP 5 BBLs AND BUMPED PLUG. FCP 454 PSI, BUMPED PLUG W/994 PSI @ 16:21 PM. 03/019/2011 FLOATS HELD 1 BBL BACK. FULL RETURNS THROUGH OUT THE JOB. 80 BBL OF LEAD TO SURFACE 185 SACKS. TEST CASING TO 1515 PSI FOR 30 MINUTES, GOOD TEST. WOC 1 HOUR.

TOP JOB # 1: DOWN 75' OF 1' PIPE, MIXED & PUMPED 70 SX (14.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG, YIELD 1.17 CF/SX. 7.5 BBLs TO SURFACE, WELL FULL AND STATIC. OBSERVE WELL FOR 2 HRS WHILE RIGGING DOWN.

WOC FOR 72 HOURS.

KERRY SALES NOTIFIED THE BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 03/19/2011 @ 12:55 PM. KERRY SALES NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING AND CEMENT VIA PHONE ON 03/19/2011 AT 12:55 PM. STATE AND BLM NOTIFIED ON 03/18/2011 @ 12:50 PM.

<b>03-24-2011</b>		<b>Reported By</b>	KERRY SALES								
<b>Daily Costs: Drilling</b>	\$35,455	<b>Completion</b>	\$0	<b>Daily Total</b>	\$35,455						
<b>Cum Costs: Drilling</b>	\$276,742	<b>Completion</b>	\$0	<b>Well Total</b>	\$276,742						
<b>MD</b>	1,880	<b>TVD</b>	1,880	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

**Activity at Report Time:** DRILLING AT 1880'

Start	End	Hrs	Activity Description
06:00	12:30	6.5	MIRU. RIG ON DAYWORK 12:30 PM 3/23/2011.
12:30	15:30	3.0	TIH WITH 8 3/4" TRI CONE BIT. TAG CEMENT AT 1589'.
15:30	18:00	2.5	DRILL FLOAT COLLAR AND SHOE TRACK TO 1678'. 2' + FROM SHOE.
18:00	18:30	0.5	CIRCULATE HOLE CLEAN FOR CBL LOGS.
18:30	20:30	2.0	TOH FOR LOGS.
20:30	23:00	2.5	RUN CBL LOG WITH CUTTERS WIRE LINE. DRILLERS DEPTH 1678', LOGGERS DEPTH 1677'.
23:00	01:30	2.5	TIH. STAGE IN HOLE UNLOADING WATER.
01:30	04:30	3.0	DRILL FOM 1678' TO 1850'.
04:30	05:00	0.5	SURVEY AT 1820' 2 DEGREES.
05:00	06:00	1.0	DRILL FROM 1850' TO 1880'.
FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: RIGGING UP, TRIPPING. DIESEL USED 297 GALLONS.			

03-25-2011 Reported By KERRY SALES

<b>DailyCosts: Drilling</b>	\$10,681	<b>Completion</b>	\$0	<b>Daily Total</b>	\$10,681
<b>Cum Costs: Drilling</b>	\$287,423	<b>Completion</b>	\$0	<b>Well Total</b>	\$287,423

<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: RIG RELEASED ON 3/24/2011.

Start	End	Hrs	Activity Description
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06:00	07:00	1.0	PRESSURED OUT AT 1880' RIG UP TO PUMP DRILL.
07:00	11:30	4.5	PUMP FROM 1880' TO 1970'. TD.
11:30	12:30	1.0	SURVEY AT 1970' FEET. 1.5 DEG.
12:30	13:30	1.0	CIRCULATE AND CONDITION HOLE.
13:30	16:00	2.5	TRIP OUT OF HOLE.
16:00	20:00	4.0	LOG WITH SCHLUMBERGER. TAG WATER 270. DRILL DEPTH 1970 LOGGERS DEPTH 1977.
20:00	20:30	0.5	RIG DOWN LOGGERS.

RIG RELEASED @ 20:30 HOURS 3/24/2011.

FULL CREWS.

NO ACCIDENTS OR INCIDENTS REPORTED.

SAFETY MEETINGS: TRIPPING, LOGGING.

FUEL USED 120 GALLONS.

03-30-2011 Reported By TORR MCCURDY

<b>DailyCosts: Drilling</b>	\$11,215	<b>Completion</b>	\$2,725	<b>Daily Total</b>	\$13,940
<b>Cum Costs: Drilling</b>	\$298,639	<b>Completion</b>	\$2,725	<b>Well Total</b>	\$301,364

<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: PREP TO RIH W/SCRAPER

Start	End	Hrs	Activity Description
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06:00	06:00	24.0	MIRU BASIC RIG 1.
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03-31-2011 Reported By TORR MCCURDY

<b>DailyCosts: Drilling</b>	\$11,215	<b>Completion</b>	\$4,450	<b>Daily Total</b>	\$15,665
<b>Cum Costs: Drilling</b>	\$309,854	<b>Completion</b>	\$7,175	<b>Well Total</b>	\$317,029

<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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Activity at Report Time: PREP TO SWAB

Start	End	Hrs	Activity Description
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06:00	06:00	24.0	NU BOPS. RIH W/9 5/8" SCRAPER TO 1642'. POH. LD SCRAPER. RIH W/9-5/8" ARROW SET PACKER TO. MIXED AND PUMP 110 BBLs TREATED WATER W/6 GAL NALCO EC 6106A, 12 GAL EC 1385A CORROSION INHIBITOR, 55 GAL DIESEL DOWN ANNULUS. SET PACKER. ND BOP & NU TUBING HEAD. LOAD ANNULUS W/35 BBLs. SDFN.
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TBG DETAIL LENGTH

ARROW SET PACKER 9.30'

1 JT 3-1/2", 9.3# J-55 TBG 32.50'

3-1/2" SN 1.09'  
 49 JTS 3-1/2" 9.3# J-55 TBG 1577.27'  
 LANDED @ 1620.16' GL

**04-01-2011**      **Reported By**      TORR MCCURDY

**Daily Costs: Drilling**      \$11,215      **Completion**      \$4,950      **Daily Total**      \$16,165  
**Cum Costs: Drilling**      \$321,070      **Completion**      \$12,125      **Well Total**      \$333,195

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** SWABBING

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SITP & SICP 0 PSIG. PUMPED 85 BBLS W/6 GALS NALCO EC 6106A, 6 GALS EC 1385A CORROSION INHIBITOR DOWN ANNULUS. PRESSURED TO 600 PSIG. BLED TO 250 PSIG IN 3 MIN. PULLED TENSION TO 50K OVER STRING WIEGHT. RELANDED WITH 30K TENSION. RETESTED TO 600 PSIG. BLED TO 300 PSIG IN 5 MIN. RU TO SWAB. MADE 28 RUNS. RECOVERED 255 BW. IFL @ 80' & FFL @ 80'. CP 300 PSIG. SDFN.

**04-02-2011**      **Reported By**      TORR MCCURDY

**Daily Costs: Drilling**      \$11,215      **Completion**      \$24,856      **Daily Total**      \$36,071  
**Cum Costs: Drilling**      \$332,285      **Completion**      \$36,981      **Well Total**      \$369,266

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** PREP WELL FOR INJECTION

Start	End	Hrs	Activity Description
06:00	06:00	24.0	SITP & SICP 0 PSIG. PUMP 8 BTFW DOWN ANNULUS @ 1/4 BPM/600 PSIG. SD. PRESSURE BLED TO 250 PSIG IN 2 MIN. RU TO SWAB. IFL @ 80'. MADE 13 RUNS. FFL @ 80'. RECOVERED 124 BW. CUM 379 BW. NALCO TOOK WATER SAMPLES. ND PACK OFF NUT. STACKED OUT TUBING ON PACKER. NU TUBING PACKING. PRESSURED ANNULUS TO 1400 PSIG/10 MIN. NO LEAK OFF. PULLED 20K TENSION INTO PACKER. RELANDED TUBING. TESTED ANNULUS TO 650 PSIG/30 MIN. NO LEAK OFF. BLED OFF TO 600 PSIG. SDFW. RDMSU.

<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> ML47045
<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>
<b>1. TYPE OF WELL</b> Water Disposal Well	<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD	
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047508060000	
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2246 FNL 0535 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E Meridian: S	<b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/3/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION  <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity has occurred since last submission on 5/2/2011 to 6/3/2011.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Mickenzie Gates	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/3/2011	

<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> ML47045
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Water Disposal Well		<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.		<b>9. API NUMBER:</b> 43047508060000
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2246 FNL 0535 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E Meridian: S		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/8/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
No activity has occurred since last submission on 6/3/2011 to 7/8/2011.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Mickenzie Gates	<b>PHONE NUMBER</b> 435 781-9145	<b>TITLE</b> Operations Clerk
<b>SIGNATURE</b> N/A		<b>DATE</b> 7/8/2011

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

**FORM 9**

**5. LEASE DESIGNATION AND SERIAL NUMBER:**  
ML47045

**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:**

**7. UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**  
Water Disposal Well

**8. WELL NAME and NUMBER:**  
COYOTE 1-16 SWD

**2. NAME OF OPERATOR:**  
EOG Resources, Inc.

**9. API NUMBER:**  
43047508060000

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

**PHONE NUMBER:**  
435 781-9111 Ext

**9. FIELD and POOL or WILDCAT:**  
NATURAL BUTTES

**4. LOCATION OF WELL**  
**FOOTAGES AT SURFACE:**  
2246 FNL 0535 FEL  
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**  
Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E 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 type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 8/2/2011	<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 type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
No activity has occurred since last submission on 7/08/2011 to 8/02/2011.

<b>NAME (PLEASE PRINT)</b> Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/2/2011	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
DENVER, CO 80202-1129  
Phone 800-227-8917  
<http://www.epa.gov/region08>

AUG 11 2011

Ref: 8P-W-GW

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

RECEIVED

AUG 17 2011

DIV. OF OIL, GAS & MINING

Mr. Ed Forsman  
Production Engineering Advisor  
EOG Resources, Inc.  
1060 East Highway 40  
Vernal, Utah 84078

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

**FOR RECORD ONLY**

RE: Underground Injection Control (UIC)  
Authorization to Commence Injection  
EPA UIC Permit UT22165-08747  
Well: Coyote SWD 1-16  
SENE Sec. 16-T9S-R23E  
Uintah County, Utah  
API No.: 43-047-50806

Dear Mr. Forsman:

The U.S. Environmental Protection Agency (EPA), Region 8 has received EOG Resources, Inc. (EOG) July 12, 2011, letter with enclosures. The enclosed Part I (internal) Mechanical Integrity test, Well Rework Record (EPA Form 7520-12), schematic diagram, calculated pore pressure, water analyses for injectate and Bird's Nest Member, Step Rate Test, well chronology, Cement Bond Log, and Temperature Logs of three (3) Bird's Nest Area-of-Review (AOR) wells were reviewed and approved by the EPA, satisfactorily completing all Prior to Commencing Injection Requirements for UIC Permit UT22165-08747.

As of the date of this letter, EOG is authorized to commence injection into the Coyote SWD 1-16 well at a Maximum Allowable Injection Pressure (MAIP) of 300 psig. You may apply for a higher MAIP at a later date. Your application should be accompanied by the interpreted results of a Step Rate Test that measures the fracture parting pressure and calculates the fracture gradient at this depth and location. EOG must receive prior authorization from the Director to inject at pressures greater than the permitted MAIP during any test.

As of this approval, responsibility for permit compliance and enforcement is transferred to the EPA's UIC Technical Enforcement Program. Therefore, please direct all monitoring and compliance correspondence to Ms. Sarah Roberts at the following address, referencing the well name and UIC Permit number on all correspondence:

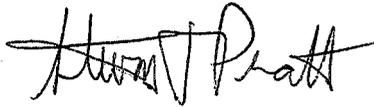
Ms. Sarah Roberts  
U.S. EPA Region 8: 8ENF-UFO  
1595 Wynkoop Street  
Denver, Colorado 80202-1129

Or, you may reach Ms. Roberts by telephone at (303) 312-7056, or (800) 227-8927, extension 312-7056.

Please remember that it is your responsibility to be aware of and to comply with all conditions of injection well Permit UT22165-08747.

If you have questions regarding the above action, please call Emmett Schmitz at (303) 312-6174 or (800) 227-8917, extension 312-6174.

Sincerely,



for Stephen S. Tuber  
Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

U.S. EPA REGION 8  
OFFICE OF PARTNERSHIPS AND REGULATORY ASSISTANCE  
1595 WYNKOOP STREET  
DENVER, COLORADO 80202-1129

cc: Uintah & Ouray Business Committee:

Irene Cuch, Chairman  
Richard Jenks, Jr., Councilman  
Frances Poowegup, Councilwoman  
Ronald Wopsock, Vice-Chairman  
Phillip Chimburas, Councilman  
Stewart Pike, Councilman

Daniel Picard  
BIA - Uintah & Ouray Indian Agency

Mike Natchees  
Environmental Coordinator  
Ute Indian Tribe

Manual Myore  
Director of Energy & Minerals Dept.  
Ute Indian Tribe

Brad Hill  
Acting Associate Director  
Utah Division of Oil, Gas, and Mining

FOR RECORD ONLY

Fluid Minerals Engineering  
BLM- Vernal Office



*Printed on Recycled Paper*

<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> ML47045  <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>  <b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD  <b>9. API NUMBER:</b> 43047508060000  <b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH																														
<b>1. TYPE OF WELL</b> Water Disposal Well	<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078																															
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>PHONE NUMBER:</b> 435 781-9111 Ext																															
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2246 FNL 0535 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E 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																																
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>																															
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/1/2011	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 80px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 80px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity has occurred since last submission on 08/02/2011 to 09/01/2011.																																
<p style="margin: 0;"><b>Accepted by the</b></p> <p style="margin: 0;"><b>Utah Division of</b></p> <p style="margin: 0;"><b>Oil, Gas and Mining</b></p> <p style="margin: 0;"><b>FOR RECORD ONLY</b></p>																																
<b>NAME (PLEASE PRINT)</b> Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	<b>TITLE</b> Regulatory Assistant																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/1/2011																															

## WELL CHRONOLOGY REPORT

Report Generated On: 09-01-2011

<b>Well Name</b>	COYOTE 1-16 SWD	<b>Well Type</b>	SWD	<b>Division</b>	DENVER
<b>Field</b>	EAST CHAPITA	<b>API #</b>	43-047-50806	<b>Well Class</b>	COMP
<b>County, State</b>	UINTAH, UT	<b>Spud Date</b>	03-14-2011	<b>Class Date</b>	
<b>Tax Credit</b>	N	<b>TVD / MD</b>	1,970/ 1,970	<b>Property #</b>	065330
<b>Water Depth</b>	0	<b>Last CSG</b>	0.0	<b>Shoe TVD / MD</b>	0/ 0
<b>KB / GL Elev</b>	4,947/ 4,944				
<b>Location</b>	Section 16, T9S, R23E, SENE, 2246 FNL & 535 FEL				

<b>Event No</b>	1.0	<b>Description</b>	DRILL SWD FACILITY		
<b>Operator</b>	EOG RESOURCES, INC	<b>WI %</b>	100.0	<b>NRI %</b>	0.0

<b>AFE No</b>	310054	<b>AFE Total</b>	714,800	<b>DHC / CWC</b>	399,800/ 315,000
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<b>Rig Contr</b>	CRAIGS	<b>Rig Name</b>	RIG #4	<b>Start Date</b>	03-14-2011	<b>Release Date</b>	
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<b>11-09-2009</b>	<b>Reported By</b>	CINDY VAN RANKEN
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<b>Daily Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0
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<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0
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<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
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<b>Formation :</b>	<b>PBTD : 0.0</b>	<b>Perf :</b>	<b>PKR Depth : 0.0</b>
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**Activity at Report Time:** LOCATION DATA

Start	End	Hrs	From	To	Activity Description
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06:00	06:00	24.0	0	0	LOCATION DATA
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2246' FNL & 535' FEL (SE/NE)

SECTION 16, T9S, R23E

UINTAH COUNTY, UTAH

LAT 40.037039, LONG 109.324419 (NAD 83)

LAT 40.037072, LONG 109.323742 (NAD 27)

RIG

OBJECTIVE: 1970' TD, BIRDNEST ZONE

WATER DISPOSAL WELL

PROSPECT: EAST CHAPITA

DD&A:

FIELD: UNASSIGNED

LEASE: ML-47045

ELEVATION: 4947.2' NAT GL, 4943.8' PREP GL (DUE TO ROUNDING PREP GL IS 4944'), ' KB (')

EOG WI 100%, NRI %

<b>03-01-2011</b>	<b>Reported By</b>	TERRY CSERE
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<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0						
<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0						
<b>MD</b>	0	<b>TVD</b>	0	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

**Activity at Report Time:** BUILD LOCATION

Start	End	Hrs	From	To	Activity Description
06:00	06:00	24.0	0	0	PAD STARTED TODAY, 3/01/2011.

**03-02-2011**      **Reported By**      TERRY CSERE

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

**Activity at Report Time:** BUILD LOCATION

Start	End	Hrs	From	To	Activity Description
06:00	06:00	24.0	0	0	LOCATION 100% COMPLETE. WO AIR RIG.

**03-14-2011**      **Reported By**      KENT DEVENPORT

<b>DailyCosts: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Daily Total</b>	\$0						
<b>Cum Costs: Drilling</b>	\$0	<b>Completion</b>	\$0	<b>Well Total</b>	\$0						
<b>MD</b>	83	<b>TVD</b>	83	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

**Activity at Report Time:** SPUD NOTIFICATION

Start	End	Hrs	From	To	Activity Description
06:00	06:00	24.0	0	0	CRAIG'S BUCKET RIG SPUD A 20" HOLE ON 3/10/11 @ 08:00 AM, SET 83' OF 13 3/8" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. BLM WAS NOTIFIED BY EMAIL OF SPUD ON 3/9/11 @ 05:41 AM.  ENCOUTNERED SURFACE WATER, PRESSURE CEMENT WITH HALLIBURTON.  INSTAL 6" x 4' BEAM PLATFORM ON CASING AS EXTRA SUPPORT ADD CONCRETE 1' BELOW AND COVERING THE PLATFORM

**03-15-2011**      **Reported By**      KERRY SALES

<b>DailyCosts: Drilling</b>	\$21,325	<b>Completion</b>	\$0	<b>Daily Total</b>	\$21,325						
<b>Cum Costs: Drilling</b>	\$21,325	<b>Completion</b>	\$0	<b>Well Total</b>	\$21,325						
<b>MD</b>	550	<b>TVD</b>	550	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

**Activity at Report Time:** DRILLING AT 550'

Start	End	Hrs	From	To	Activity Description
06:00	20:30	14.5	0	0	MIRU.
20:30	06:00	9.5	0	0	RIG ON DAY WORK ON 3/14/2011 AT 20:30 HOURS.  AIR HAMMER DRILL 12 1/4" FROM GL 83' TO 550'. WATER MIST, AIR PSI 230.  FULL CREWS.  NO ACCIDENTS OR INCENDENTS REPORTED.  SAFETY MEETINGS: P/U DRILL COLLARS, RIGGING UP.  DIESEL USED 416 GALLONS.

03-16-2011 Reported By KERRY SALES

DailyCosts: Drilling \$16,716 Completion \$0 Daily Total \$16,716

Cum Costs: Drilling \$38,041 Completion \$0 Well Total \$38,041

MD 1,280 TVD 1,280 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING AT 1280'.

Start End Hrs From To Activity Description

06:00 17:00 11.0 0 0 HAMMER AIR MIST DRILL FROM GL 550' TO 940'.  
 17:00 18:30 1.5 0 0 POH AND LAY DOWN AIR HAMMER.  
 18:30 20:00 1.5 0 0 PICK UP TRI-CONE BIT AND ROTARY BHA.  
 20:00 06:00 10.0 0 0 DRILL 12 1/4" HOLE FROM GL 940' TO 1280'. AIR AND MIST DRILLING.  
 FULL CREWS.  
 NO ACCIDENTS OR INCENDENTS REPORTED.  
 SAFETY MEETINGS: WINCH LINE, TRIPPING.  
 FUEL USED 649.

03-17-2011 Reported By KERRY SALES

DailyCosts: Drilling \$22,495 Completion \$0 Daily Total \$22,495

Cum Costs: Drilling \$60,536 Completion \$0 Well Total \$60,536

MD 1,673 TVD 1,673 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING @ 1673'

Start End Hrs From To Activity Description

06:00 06:00 24.0 1280 1673 FLUID DRILL FROM GL 1280' TO 1673'. 100% RETURNS.  
 NO INCIDENTS OR ACCIDENTS REPORTED  
 SAFETY MEETING HELD 2 X WORKING IN H2s ENVIRONMENT.  
 FUEL USAGE 535 GALLONS

03-18-2011 Reported By KERRY SALES

DailyCosts: Drilling \$32,725 Completion \$0 Daily Total \$32,725

Cum Costs: Drilling \$93,261 Completion \$0 Well Total \$93,261

MD 1,714 TVD 1,714 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RIH TO SET CEMENT PLUG

Start End Hrs From To Activity Description

06:00 09:00 3.0 1673 1714 DRILL F/ 1673' TO 1714'.  
 09:00 10:30 1.5 0 0 CIRCULATE FOR SHORT TRIP.  
 10:30 13:00 2.5 0 0 SHORT TRIP TO 1400', BACK ON BTM, CIRCULATE SURVEY 1.5 DEGREES @ 1700'.  
 13:00 16:30 3.5 0 0 POH FOR LOGS.  
 16:30 21:00 4.5 0 0 LOGGING WITH SCHLUMBERGER, RUN TO 1714' LOGGERS DEPTH.  
 21:00 21:30 0.5 0 0 POUR CAL-CARB INTO WELL BORE.  
 21:30 00:00 2.5 0 0 RIH TO SET CEMENT PLUG.  
 00:00 01:00 1.0 0 0 WASH F/ 1564' TO 1690' PLUG STRING WHILE MAKING CONNECTION.

01:00	02:00	1.0	0	0	POH 4 JOINTS ATTEMPT TO UNPLUG, NO SUCCESS, PULL 10 JOINTS ATTEMPT TO UNPLUG NO SUCCESS.
02:00	04:00	2.0	0	0	TRIP OUT AND UNPLUG STRING AT SURFACE.
04:00	06:00	2.0	0	0	RIH W/ CEMENT STINGER TO SET PLUG @ 800'.

NO INCIDENTS OR ACCIDENTS REPORTED.  
 SAFETY MEETINGS HELD: LOGGING & TRIPPING  
 FUEL USAGE = 595 GALLONS

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<b>03-19-2011</b>	<b>Reported By</b>	KERRY SALES									
<b>DailyCosts: Drilling</b>	\$16,716	<b>Completion</b>	\$0	<b>Daily Total</b>	\$16,716						
<b>Cum Costs: Drilling</b>	\$109,977	<b>Completion</b>	\$0	<b>Well Total</b>	\$109,977						
<b>MD</b>	1,714	<b>TVD</b>	1,714	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						
<b>Activity at Report Time:</b> CIRCULATE CASING											

Start	End	Hrs	From	To	Activity Description
06:00	08:30	2.5	0	0	TRIP IN HOLE WITH DP FOR CEMENT PLUG FROM 800' TO 1500'.
08:30	09:30	1.0	0	0	WASH IN HOLE FROM 1500' TO 1690'. CEMENT PLUG DEPTH.
09:30	10:00	0.5	0	0	PUMP SWEEP AND CIRCULATE OUT OYSTER SHELLS.
10:00	11:30	1.5	0	0	HOLD SAFETY MEETING. RIG UP HALLIBURTON AND SET CEMENT PLUG AS FOLLOWS. PRESSURE TEST LINES TO 3500 PSI, 20 BBL WATER SPACER, 105 SACKS OF 15.8 PPG, YEALD 1.16, 5.0 GPS, 21.6 BBLS. ( CALCULATED 148' PLUG).
11:30	12:30	1.0	0	0	LAY DOWN 8 JOINTS OF DP THEN CIRCULATE PIPE CLEAN AT 1430'.
12:30	15:00	2.5	0	0	TOH TO SURFACE.
15:00	15:30	0.5	0	0	MEASURE AND SET UP BHA ON RACKS.
15:30	19:00	3.5	0	0	TIH TO 1565' TOP OF CEMENT. (125' PLUG).
19:00	20:30	1.5	0	0	DRILL CEMENT FROM 1565' TO 1684'. 3' BELOW CASING SHOE.
20:30	21:30	1.0	0	0	CIRCULATE HOLE CLEAN.
21:30	23:30	2.0	0	0	TOH AND LAY DOWN BHA.
23:30	02:00	2.5	0	0	RIG DOWN AND SET UP FOR CASING.
02:00	05:30	3.5	0	0	RUN 42 JOINTS OF 9 5/8, K-55, 36#, STC CASING. SHOE GL 1679', RKB 1682'. HOLE GL 1682', RKB 1684'. FLOAT COLLAR RKB 1594.96'. RAN 12 CENTRALIZERS: 5 ON BOTTOM THEN EVERY 5 JOINTS UNTIL SURFACE. ( 2 JOINT SHOE TRACK).
05:30	06:00	0.5	0	0	CIRCULATE CASING CAPACITY. FULL CREWS. NO ACCIDENTS OR INCENDENTS REPORTED. SAFETY MEETINGS: MOVING BHA, TRIPPING. FUEL USED 476 GALLONS.

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<b>03-20-2011</b>	<b>Reported By</b>	KERRY SALES									
<b>DailyCosts: Drilling</b>	\$131,309	<b>Completion</b>	\$0	<b>Daily Total</b>	\$131,309						
<b>Cum Costs: Drilling</b>	\$241,286	<b>Completion</b>	\$0	<b>Well Total</b>	\$241,286						
<b>MD</b>	1,714	<b>TVD</b>	1,714	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						
<b>Activity at Report Time:</b> WAIT ON CEMENT											

Start	End	Hrs	From	To	Activity Description
06:00	06:30	0.5	0	0	CIRCULATE CASING CAPACITY AND CONDITION HOLE.

06:30 07:00 0.5 0 0 LAY DOWN LANDING JOINT AND CIRCULATING SWEDGE ASSEMBLY.  
 07:00 07:30 0.5 0 0 RUN 75' OF 1" PIPE FOR CEMENT TOP OUT.  
 07:30 08:30 1.0 0 0 MOVE RIG OFF THE HOLE.  
 08:30 12:30 4.0 0 0 RIG RELEASED ON 3/19/2011 AT 12:30 HOURS.

FULL CREWS.  
 NO ACCIDENTS OR INCENDENTS REPORTED.  
 SAFETY MEETINGS: R/U PUMPS, CEMENTING.  
 FUEL USED 60 GALLONS.

RIG UP HALLIBURTON CEMENT HEAD AND CIRCULATE CASING WITH RIG PUMP.  
 HALLIBURTON SENT THE WRONG CEMENT FOR THE JOB. STAND BY AND WAIT FOR CORRECT CEMENT.

12:30 18:00 5.5 0 0 MIRU: HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 3000 PSI. PUMPED 10 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SK OF SCAVENGER 31 BBL, 5 BBL OF WATER, 25 BBL OF SUPER FLUSH, 5 BBL WATER, 40 SKS OF SCAVENGER 31 BBL AT 10.5 PPG AND 5 BBL OF WATER. LEAD: MIXED AND PUMPED 350 SACKS (150.8 BBLs) OF PREMIUM LEAD CEMENT 12.3 PPG, YIELD 2.42. .2% POLY-E-FLAKE, 5 PPS PHENO SEAL, .1% TUF FIBER, 1% MICROBOND, TAIL MIXED AND PUMPED 200 SACKS (43 BBLs) OF PREMIUM CEMENT W/ 2% CACL2, MIXED CEMENT @ 15.6 PPG W/ YIELD OF 1.21, 5.35 GPS. WE DISPLACED CEMENT W/ 123 BBLs OF FRESH WATER, LAST 15 BBL WAIT 5 MINUTES PUMP 5 BBL WAIT 5 MINUTES PUMPED 5 BBL WAIT 5 MINUTES PUMP 5 BBLs AND BUMPED PLUG. FCP 454 PSI, BUMPED PLUG W/994 PSI @ 16:21 PM. 03/019/2011 FLOATS HELD 1 BBL BACK. FULL RETURNS THROUGH OUT THE JOB. 80 BBL OF LEAD TO SURFACE 185 SACKS. TEST CASING TO 1515 PSI FOR 30 MINUTES, GOOD TEST. WOC 1 HOUR.

TOP JOB # 1: DOWN 75' OF 1' PIPE, MIXED & PUMPED 70 SX (14.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG, YIELD 1.17 CF/SX. 7.5 BBLs TO SURFACE, WELL FULL AND STATIC. OBSERVE WELL FOR 2 HRS WHILE RIGGING DOWN.  
 WOC FOR 72 HOURS.

KERRY SALES NOTIFIED THE BLM VIA EMAIL OF THE SURFACE CASING & CEMENT JOB ON 03/19/2011 @ 12:55 PM. KERRY SALES NOTIFIED CAROL DANIELS WITH UDOGM OF THE SURFACE CASING AND CEMENT VIA PHONE ON 03/19/2011 AT 12:55 PM. STATE AND BLM NOTIFIED ON 03/18/2011 @ 12:50 PM.

<b>03-24-2011</b>		<b>Reported By</b>		KERRY SALES							
<b>Daily Costs: Drilling</b>	\$35,455	<b>Completion</b>	\$0	<b>Daily Total</b>	\$35,455						
<b>Cum Costs: Drilling</b>	\$276,742	<b>Completion</b>	\$0	<b>Well Total</b>	\$276,742						
<b>MD</b>	1,880	<b>TVD</b>	1,880	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>		<b>Perf :</b>	<b>PKR Depth : 0.0</b>							

**Activity at Report Time:** DRILLING AT 1880'

Start	End	Hrs	From	To	Activity Description
06:00	12:30	6.5	0	0	MIRU. RIG ON DAYWORK 12:30 PM 3/23/2011.
12:30	15:30	3.0	0	0	TIH WITH 8 3/4" TRI CONE BIT. TAG CEMENT AT 1589'.
15:30	18:00	2.5	0	0	DRILL FLOAT COLLAR AND SHOE TRACK TO 1678'. 2' + FROM SHOE.
18:00	18:30	0.5	0	0	CIRCULATE HOLE CLEAN FOR CBL LOGS.
18:30	20:30	2.0	0	0	TOH FOR LOGS.
20:30	23:00	2.5	0	0	RUN CBL LOG WITH CUTTERS WIRE LINE. DRILLERS DEPTH 1678', LOGGERS DEPTH 1677'.
23:00	01:30	2.5	0	0	TIH. STAGE IN HOLE UNLOADING WATER.
01:30	04:30	3.0	0	0	DRILL FOM 1678' TO 1850'.
04:30	05:00	0.5	0	0	SURVEY AT 1820' 2 DEGREES.

05:00 06:00 1.0 0 0 DRILL FROM 1850' TO 1880'.  
 FULL CREWS.  
 NO ACCIDENTS OR INCIDENTS REPORTED.  
 SAFETY MEETINGS: RIGGING UP, TRIPPING.  
 DIESEL USED 297 GALLONS.

**03-25-2011**      **Reported By**      KERRY SALES

**DailyCosts: Drilling**      \$10,681      **Completion**      \$0      **Daily Total**      \$10,681  
**Cum Costs: Drilling**      \$287,423      **Completion**      \$0      **Well Total**      \$287,423

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** RIG RELEASED ON 3/24/2011.

**Start**    **End**    **Hrs**    **From**    **To**    **Activity Description**

06:00 07:00 1.0 0 0 PRESSURED OUT AT 1880' RIG UP TO PUMP DRILL.  
 07:00 11:30 4.5 0 0 PUMP FROM 1880' TO 1970'. TD.  
 11:30 12:30 1.0 0 0 SURVEY AT 1970' FEET. 1.5 DEG.  
 12:30 13:30 1.0 0 0 CIRCULATE AND CONDITION HOLE.  
 13:30 16:00 2.5 0 0 TRIP OUT OF HOLE.  
 16:00 20:00 4.0 0 0 LOG WITH SCHLUMBERGER. TAG WATER 270. DRILL DEPTH 1970 LOGGERS DEPTH 1977.  
 20:00 20:30 0.5 0 0 RIG DOWN LOGGERS.

RIG RELEASED @ 20:30 HOURS 3/24/2011.

FULL CREWS.

NO ACCIDENTS OR INCIDENTS REPORTED.

SAFETY MEETINGS: TRIPPING, LOGGING.

FUEL USED 120 GALLONS.

**03-30-2011**      **Reported By**      TORR MCCURDY

**DailyCosts: Drilling**      \$11,215      **Completion**      \$2,725      **Daily Total**      \$13,940  
**Cum Costs: Drilling**      \$298,639      **Completion**      \$2,725      **Well Total**      \$301,364

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

**Activity at Report Time:** PREP TO RIH W/SCRAPER

**Start**    **End**    **Hrs**    **From**    **To**    **Activity Description**

06:00 06:00 24.0 0 0 MIRU BASIC RIG 1.

**03-31-2011**      **Reported By**      TORR MCCURDY

**DailyCosts: Drilling**      \$11,215      **Completion**      \$4,450      **Daily Total**      \$15,665  
**Cum Costs: Drilling**      \$309,854      **Completion**      \$7,175      **Well Total**      \$317,029

**MD**      1,970      **TVD**      1,970      **Progress**      0      **Days**      0      **MW**      0.0      **Visc**      0.0

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

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

**Start**    **End**    **Hrs**    **From**    **To**    **Activity Description**

06:00 06:00 24.0 0 0 NU BOPS. RIH W/9 5/8" SCRAPER TO 1642'. POH. LD SCRAPER. RIH W/9-5/8" ARROW SET  
 PACKER TO. MIXED AND PUMP 110 BBLS TREATED WATER W/6 GAL NALCO EC 6106A, 12 GAL  
 EC 1385A CORROSION INHIBITOR, 55 GAL DIESEL DOWN ANNULUS. SET PACKER. ND BOP &  
 NU TUBING HEAD. LOAD ANNULUS W/35 BBLS. SDFN.

## TBG DETAIL LENGTH

ARROW SET PACKER 9.30'

1 JT 3-1/2", 9.3# J-55 TBG 32.50'

3-1/2" SN 1.09'

49 JTS 3-1/2" 9.3# J-55 TBG 1577.27'

LANDED @ 1620.16' GL

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<b>04-01-2011</b>	<b>Reported By</b>	TORR MCCURDY									
<b>Daily Costs: Drilling</b>	\$11,215	<b>Completion</b>	\$4,950	<b>Daily Total</b>	\$16,165						
<b>Cum Costs: Drilling</b>	\$321,070	<b>Completion</b>	\$12,125	<b>Well Total</b>	\$333,195						
<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

Activity at Report Time: SWABBING

Start	End	Hrs	From	To	Activity Description
06:00	06:00	24.0	0	0	SITP & SICP 0 PSIG. PUMPED 85 BBLS W/6 GALS NALCO EC 6106A, 6 GALS EC 1385A CORROSION INHIBITOR DOWN ANNULUS. PRESSURED TO 600 PSIG. BLED TO 250 PSIG IN 3 MIN. PULLED TENSION TO 50K OVER STRING WIEGHT. RELANDED WITH 30K TENSION. RETESTED TO 600 PSIG. BLED TO 300 PSIG IN 5 MIN. RU TO SWAB. MADED 28 RUNS. RECOVERED 255 BW. IFL @ 80' & FFL @ 80'. CP 300 PSIG. SDFN.

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<b>04-02-2011</b>	<b>Reported By</b>	TORR MCCURDY									
<b>Daily Costs: Drilling</b>	\$11,215	<b>Completion</b>	\$24,856	<b>Daily Total</b>	\$36,071						
<b>Cum Costs: Drilling</b>	\$332,285	<b>Completion</b>	\$36,981	<b>Well Total</b>	\$369,266						
<b>MD</b>	1,970	<b>TVD</b>	1,970	<b>Progress</b>	0	<b>Days</b>	0	<b>MW</b>	0.0	<b>Visc</b>	0.0
<b>Formation :</b>	<b>PBTD : 0.0</b>			<b>Perf :</b>	<b>PKR Depth : 0.0</b>						

Activity at Report Time: PREP WELL FOR INJECTION

Start	End	Hrs	From	To	Activity Description
06:00	06:00	24.0	0	0	SITP & SICP 0 PSIG. PUMP 8 BTFW DOWN ANNULUS @ 1/4 BPM/600 PSIG. SD. PRESSURE BLED TO 250 PSIG IN 2 MIN. RU TO SWAB. IFL @ 80'. MADE 13 RUNS. FFL @ 80'. RECOVERED 124 BW. CUM 379 BW. NALCO TOOK WATER SAMPLES. ND PACK OFF NUT. STACKED OUT TUBING ON PACKER. NU TUBING PACKING. PRESSURED ANNULUS TO 1400 PSIG/10 MIN. NO LEAK OFF. PULLED 20K TENSION INTO PACKER. RELANDED TUBING. TESTED ANNULUS TO 650 PSIG/30 MIN. NO LEAK OFF. BLED OFF TO 600 PSIG. SDFW. RD MOSU.

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
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<b>1. TYPE OF WELL</b> Water Disposal Well	<b>8. WELL NAME and NUMBER:</b> COYOTE 1-16 SWD																															
<b>2. NAME OF OPERATOR:</b> EOG Resources, Inc.	<b>9. API NUMBER:</b> 43047508060000																															
<b>3. ADDRESS OF OPERATOR:</b> 1060 East Highway 40 , Vernal, UT, 84078	<b>PHONE NUMBER:</b> 435 781-9111 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES																														
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/18/2011	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity has occurred since last submission on 9/1/2011 to 10/18/2011.																																
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<b>NAME (PLEASE PRINT)</b> Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/18/2011																															

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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No activity has occurred since last submission on 9/1/2011 to 10/18/2011.																																
<p style="margin: 0;"><b>Accepted by the</b></p> <p style="margin: 0;"><b>Utah Division of</b></p> <p style="margin: 0;"><b>Oil, Gas and Mining</b></p> <p style="margin: 0;"><b>FOR RECORD ONLY</b></p>																																
<b>NAME (PLEASE PRINT)</b> Nanette Lupcho	<b>PHONE NUMBER</b> 435 781-9157	<b>TITLE</b> Regulatory Assistant																														
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/18/2011																															

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

**FORM 9**

**5. LEASE DESIGNATION AND SERIAL NUMBER:**  
ML47045

**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:**

**7. UNIT or CA AGREEMENT NAME:**

**1. TYPE OF WELL**  
Water Disposal Well

**8. WELL NAME and NUMBER:**  
COYOTE 1-16 SWD

**2. NAME OF OPERATOR:**  
EOG Resources, Inc.

**9. API NUMBER:**  
43047508060000

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

**PHONE NUMBER:**  
435 781-9111 Ext

**9. FIELD and POOL or WILDCAT:**  
NATURAL BUTTES

**4. LOCATION OF WELL**  
**FOOTAGES AT SURFACE:**  
2246 FNL 0535 FEL  
**QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:**  
Qtr/Qtr: SENE Section: 16 Township: 09.0S Range: 23.0E 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/8/2011	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION		
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
As of December 8, 2011, EOG Resources, Inc. began injecting disposal water at the referenced well.

<b>NAME (PLEASE PRINT)</b> Michelle Robles	<b>PHONE NUMBER</b> 307 276-4842	<b>TITLE</b> Regulatory Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/13/2011	

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

AMENDED REPORT  FORM 8  
(highlight changes)

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER Salt Water Disposal

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

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**ML47045**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

2. NAME OF OPERATOR:  
**EOG Resources, Inc.**

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

8. WELL NAME and NUMBER:  
**Coyote 1-16 SWD**

3. ADDRESS OF OPERATOR: **1060 East Highway 40** CITY **Vernal** STATE **UT** ZIP **84078**

PHONE NUMBER: **(435) 781-9145**

9. API NUMBER:  
**43-047-50806**

10. FIELD AND POOL, OR WILDCAT  
**Natural Buttes**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **2246' FNL & 535' FEL 40.037039 Lat 109.324419 Lon**

AT TOP PRODUCING INTERVAL REPORTED BELOW: **Same**

AT TOTAL DEPTH: **Same**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SENE 16 9S 23E S**

12. COUNTY **Uintah** 13. STATE **UTAH**

14. DATE SPUDDED: **3/10/2011** 15. DATE T.D. REACHED: **3/24/2011** 16. DATE COMPLETED: **4/1/2011**

ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**4947' GL**

18. TOTAL DEPTH: MD **1,970** TVD \_\_\_\_\_

19. PLUG BACK T.D.: MD \_\_\_\_\_ TVD \_\_\_\_\_

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

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

23. WAS WELL CORED? NO  YES  (Submit analysis)  
WAS DST RUN? NO  YES  (Submit report)  
DIRECTIONAL SURVEY? NO  YES  (Submit copy)

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
12.25	9.625 J-55	36.0	0	1,679		885		0	

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
3.5	1,620							

**26. PRODUCING INTERVALS**

**27. PERFORATION RECORD**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

**29. ENCLOSED ATTACHMENTS:**

**30. WELL STATUS:**

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY

SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**RECEIVED**

**DEC 01 2011**

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

**RECEIVED SI**

**DEC 01 2011**

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

**31. INITIAL PRODUCTION**

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

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

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

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

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

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

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

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS

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

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

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

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

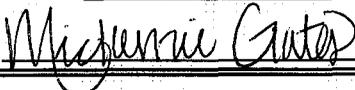
Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
Birdsnest				Green River Birds Nest Zone Lower Confining Zone	1,396 1,681 1,966

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

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

NAME (PLEASE PRINT) Mickenzie Gates

TITLE Regulatory Assistant

SIGNATURE 

DATE 11/22/2011

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340  
Fax: 801-359-3940