

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		1. WELL NAME and NUMBER Hoss 901-36 SWD	
4. TYPE OF WELL Water Disposal Well Coalbed Methane Well: NO		3. FIELD OR WILDCAT NATURAL BUTTES	
6. NAME OF OPERATOR EOG Resources, Inc.		5. UNIT or COMMUNITIZATION AGREEMENT NAME BADLANDS	
8. ADDRESS OF OPERATOR 1060 East Highway 40, Vernal, UT, 84078		7. OPERATOR PHONE 435 781-9111	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU56960		9. OPERATOR E-MAIL kaylene_gardner@eogresources.com	
11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')	
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')	
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	
19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION
LOCATION AT SURFACE	1355 FSL 467 FEL	NESE	36
Top of Uppermost Producing Zone	1355 FSL 467 FEL	NESE	36
At Total Depth	1355 FSL 467 FEL	NESE	36
21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 467	23. NUMBER OF ACRES IN DRILLING UNIT 640	
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0	26. PROPOSED DEPTH MD: 2700 TVD: 2700	
27. ELEVATION - GROUND LEVEL 4844	28. BOND NUMBER NM2308	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-225	

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Mary Maestas	TITLE Regulatory Assistant	PHONE 303 824-5526
SIGNATURE	DATE 03/19/2009	EMAIL mary_maestas@eogresources.com
API NUMBER ASSIGNED 43047502900000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Cond	17.5	13.375	0	45		
Pipe	Grade	Length	Weight			
	Grade H-40 ST&C	45	48.0			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	1800		
Pipe	Grade	Length	Weight			
	Grade J-55 ST&C	1800	36.0			

EIGHT POINT PLAN

HOSS 901-36 SWD
NE/SE, SEC. 36, T8S, R22E, S.L.B.&M.
UINTAH COUNTY, UTAH

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

FORMATION	TVD-RKB (ft)	Objective	Lithology	
Uinta FM	17			
Green River FM	2,086			
Mahogany Oil Shale Bed	2,741			Oil
TD	2,700			

EST. TD: 2,700'

Anticipated BHP: 1,165 Psig

1. Fresh Waters may exist in the upper, approximately 1,000 ft ± of the Green River Formation, with top at about 2,000 ft ±.
2. Cement isolation is installed to surface of the well.
3. Surface Casing will be set at an depth 100' above Birds Nest estimated at 1800' ±

3. PRESSURE CONTROL EQUIPMENT: Rotating Head

4. CASING PROGRAM:

CASING	Hole Size	Length	Size	WEIGHT	Grade	Thread	Rating Collapse	Factor Burst	Tensile
Conductor	17 ½"	0 - 45'	13 ¾"	48.0#	H-40	STC	770 PSI	1730 PSI	322,000#
Surface	12 ¼"	0- 1800' KB±	9-¾"	36.0#	J-55	STC	2020 PSI	3520 Psi	394,000#

All casing will be new or inspected.

EIGHT POINT PLAN

HOSS 901-36 SWD
NE/SE, SEC. 36, T8S, R22E, S.L.B.&M.
UINTAH COUNTY, UTAH

5. Float Equipment:

Conductor Hole Procedure (0 - 45' ± Below GL):

No Float Equipment

Surface Hole Procedure (Surface ± - 1600'):

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 - 45' ± below GL):

Air/air mist or aerated water

Surface Hole Procedure (Surface ± - TD):

Air/air mist or aerated water

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

Production Hole Procedure (Surface ± - 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:

Logs: Mud log from base of surface casing to TD.

Open Hole Logs: Open Hole Logs will be run consisting of the following:

Schlumberger Platform Express: Open Hole Gamma Ray, Resistively, CBL and Neutron Porosity

EIGHT POINT PLAN

HOSS 901-36 SWD
NE/SE, SEC. 36, T8S, R22E, S.L.B.&M.
UINTAH COUNTY, UTAH

9. **CEMENT PROGRAM:**

Conductor Hole Procedure (0-45' ± 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 1600' ±)

Lead: 427 sks Class 'G' cement with 2% S1 (CaCl₂) & 0.25 pps
D29 (cellophane flakes), mixed at 15.8 ppg, 1.16 ft³./sk., 4.95 gps water.

Top Out: 207 sks Top out with Class 'G' cement with 2% S1 (CaCl₂) in mix water,
15.8 ppg, 1.16ft³./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 - 1600'±):

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.

(Attachment: BOP Schematic Diagram)

EOG RESOURCES, INC.
HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.

PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF STATE HIGHWAY 45; EXIT RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 19.2 MILES ON STATE HIGHWAY 45 TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 8.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 80' TO THE PROPOSED LOCATION.

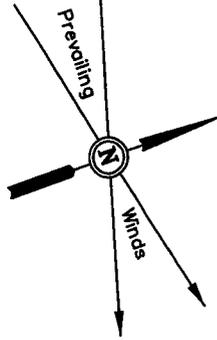
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 36.5 MILES.

EOG RESOURCES, INC.

LOCATION LAYOUT FOR

HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL

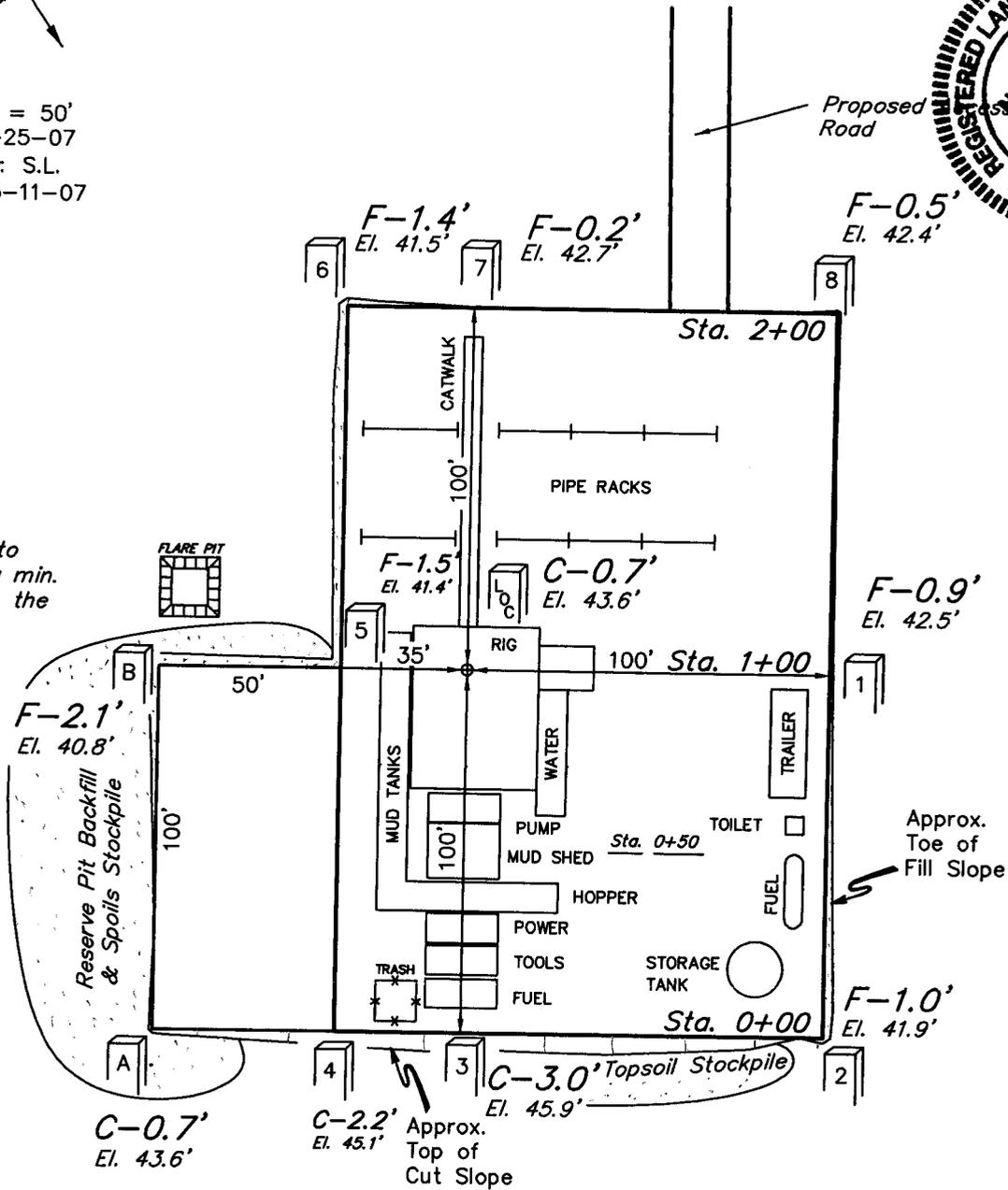
FIGURE #1



SCALE: 1" = 50'
DATE: 04-25-07
Drawn By: S.L.
REVISED: 05-11-07



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



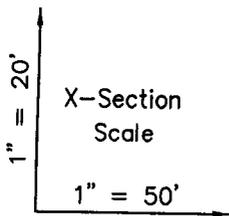
Elev. Ungraded Ground at Location Stake = 4843.6'
Elev. Graded Ground at Location Stake = 4842.9'

EOG RESOURCES, INC.

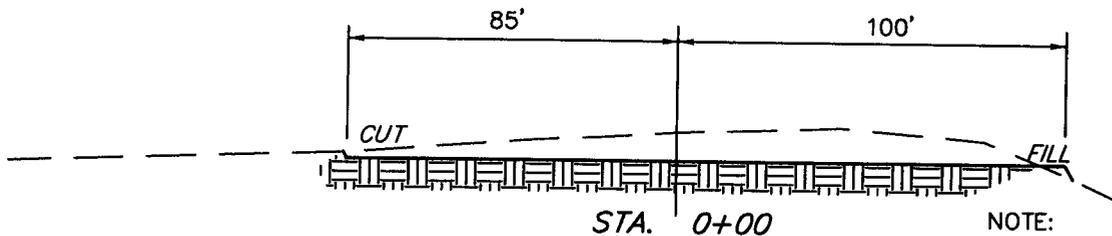
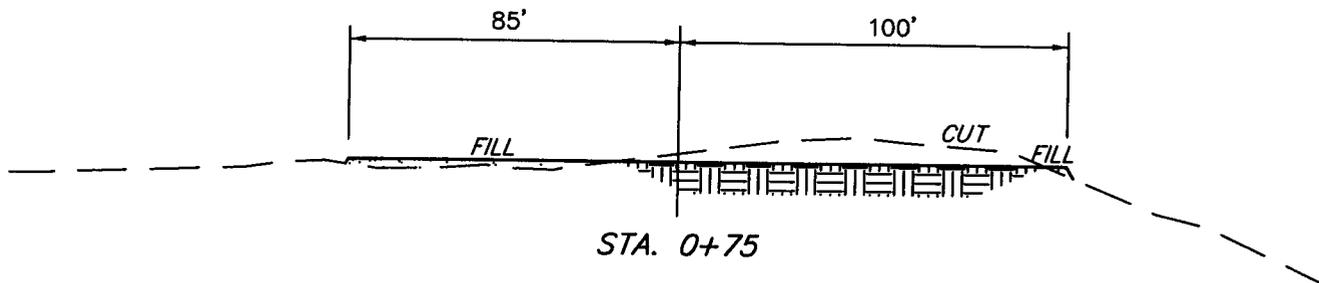
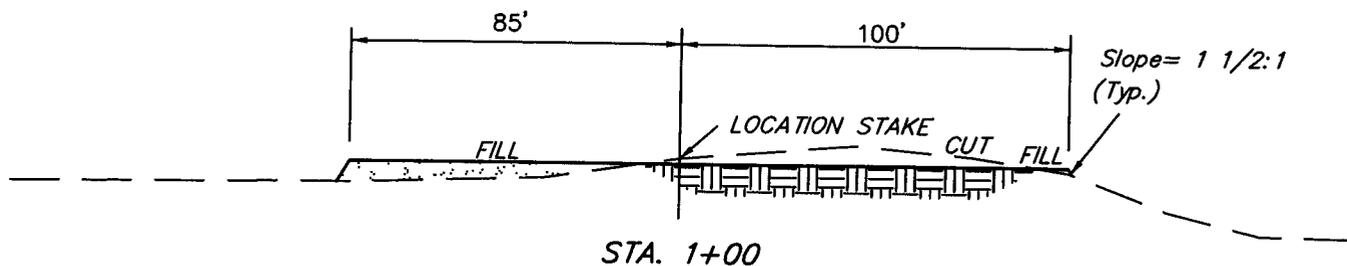
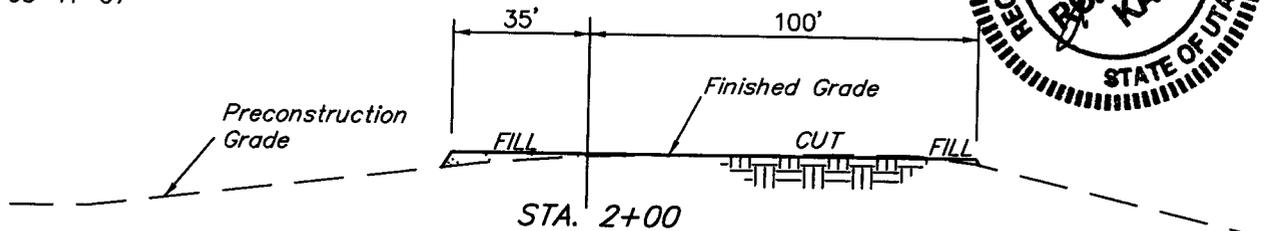
TYPICAL CROSS SECTIONS FOR

**HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL**

FIGURE #2



DATE: 04-25-07
Drawn By: S.L.
REVISED: 05-11-07



* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

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

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	630	Cu. Yds.
Remaining Location	=	740	Cu. Yds.
TOTAL CUT	=	1,370	CU.YDS.
FILL	=	740	CU.YDS.

EXCESS MATERIAL	=	630	Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	630	Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0	Cu. Yds.

EOG RESOURCES, INC.

HOSS SWD #901-36

LOCATED IN UINTAH COUNTY, UTAH

SECTION 36, T8S, R22E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

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

LOCATION PHOTOS

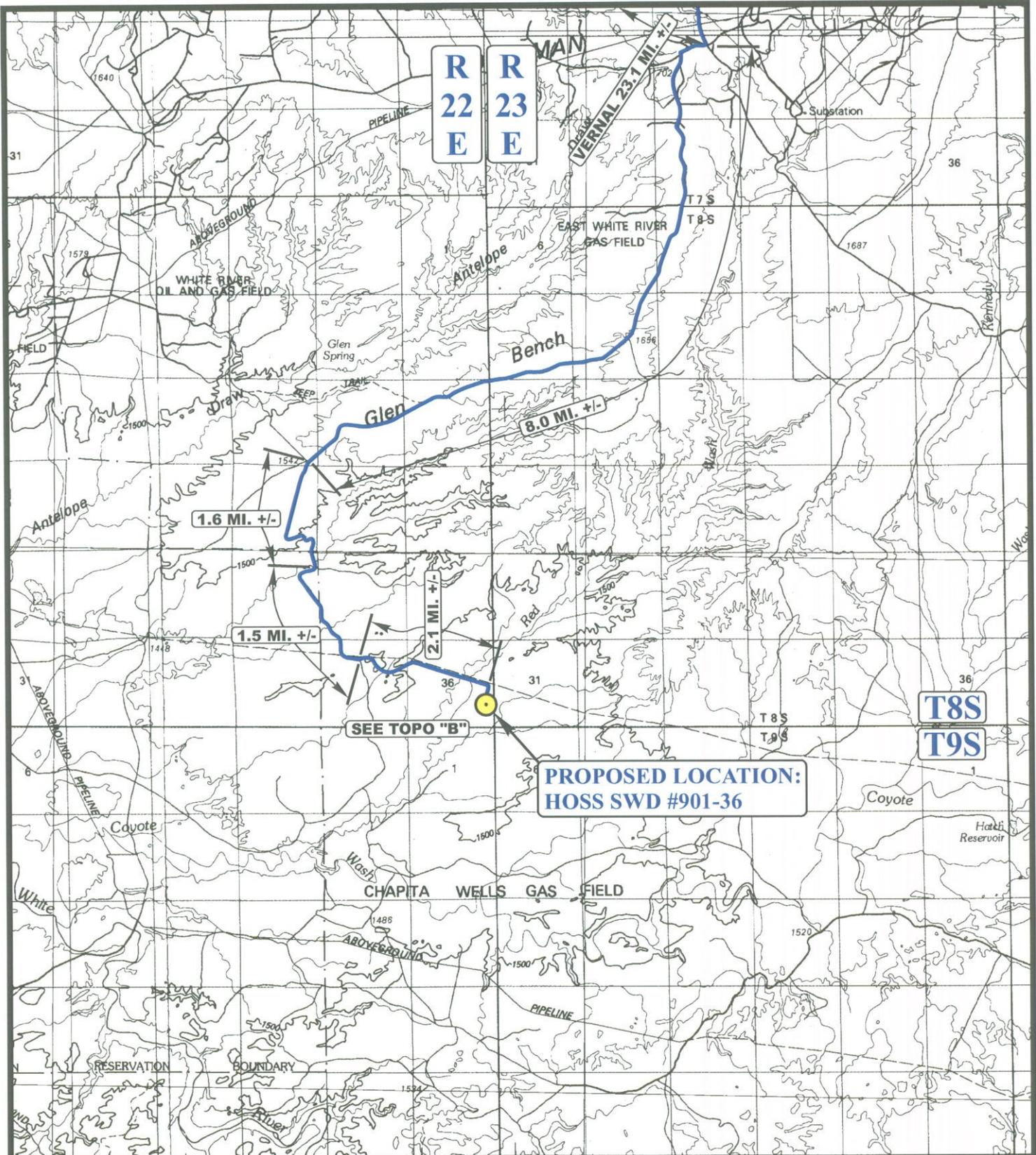
04	25	07
MONTH	DAY	YEAR

PHOTO

TAKEN BY: L.K.

DRAWN BY: C.P.

REVISED: 05-12-07



LEGEND:

 PROPOSED LOCATION



EOG RESOURCES, INC.

HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL



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TOPOGRAPHIC
MAP

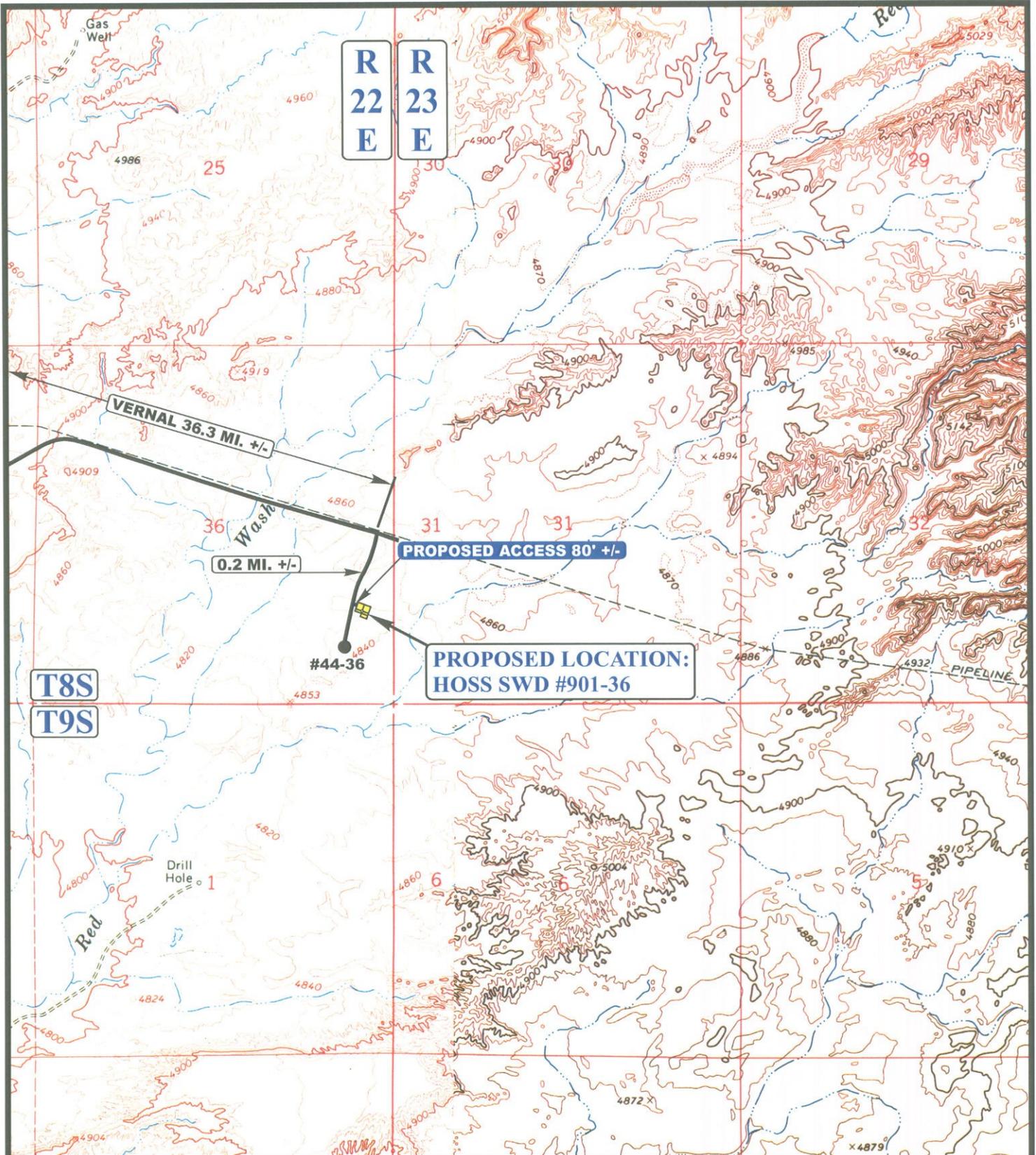
04 25 07
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 05-12-07





LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD



EOG RESOURCES, INC.

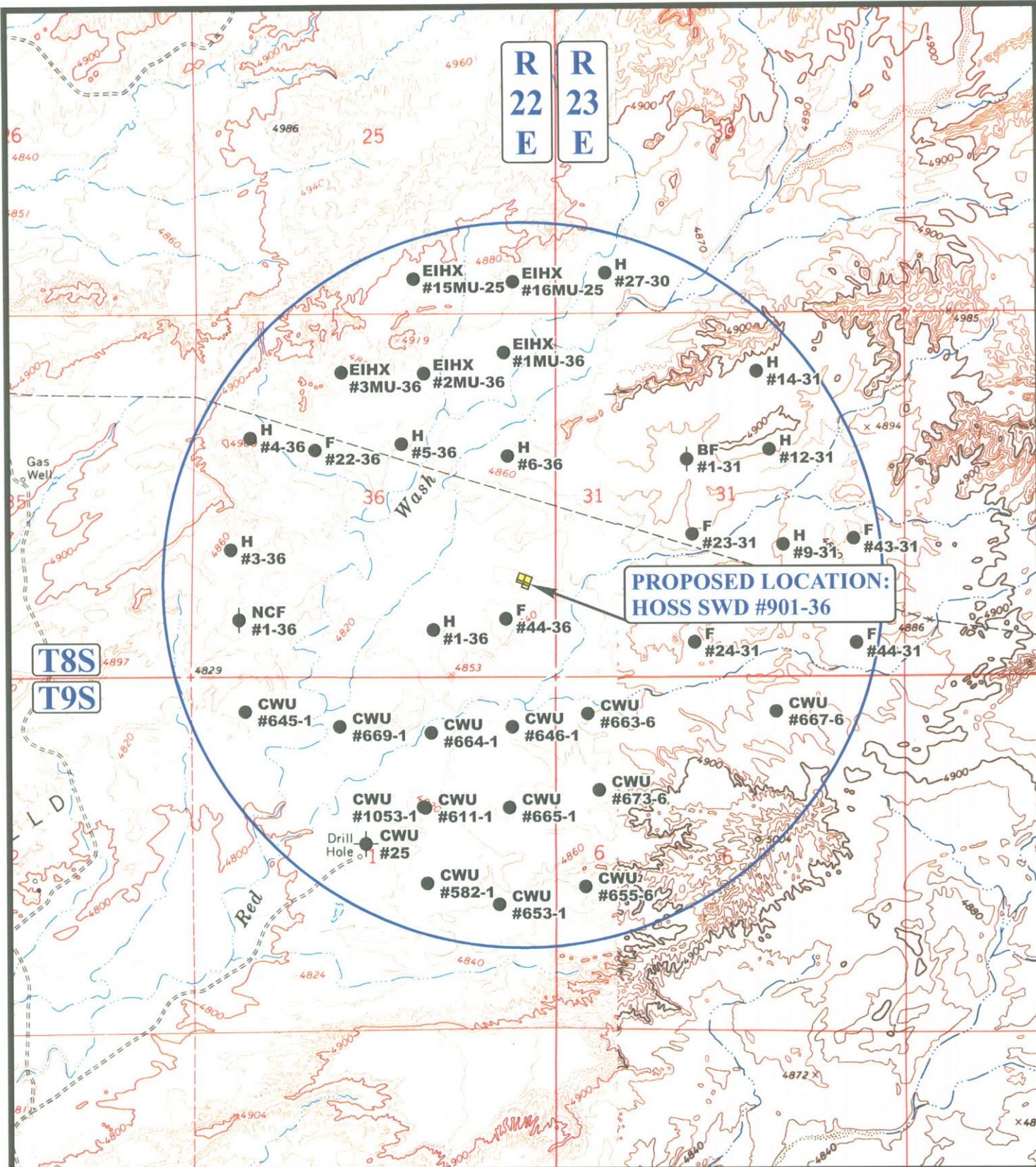
HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL



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TOPOGRAPHIC	04 25 07
MAP	MONTH DAY YEAR
SCALE: 1" = 2000'	DRAWN BY: C.P. REVISED: 05-12-07





LEGEND:

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

EOG RESOURCES, INC.

HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL



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TOPOGRAPHIC
MAP

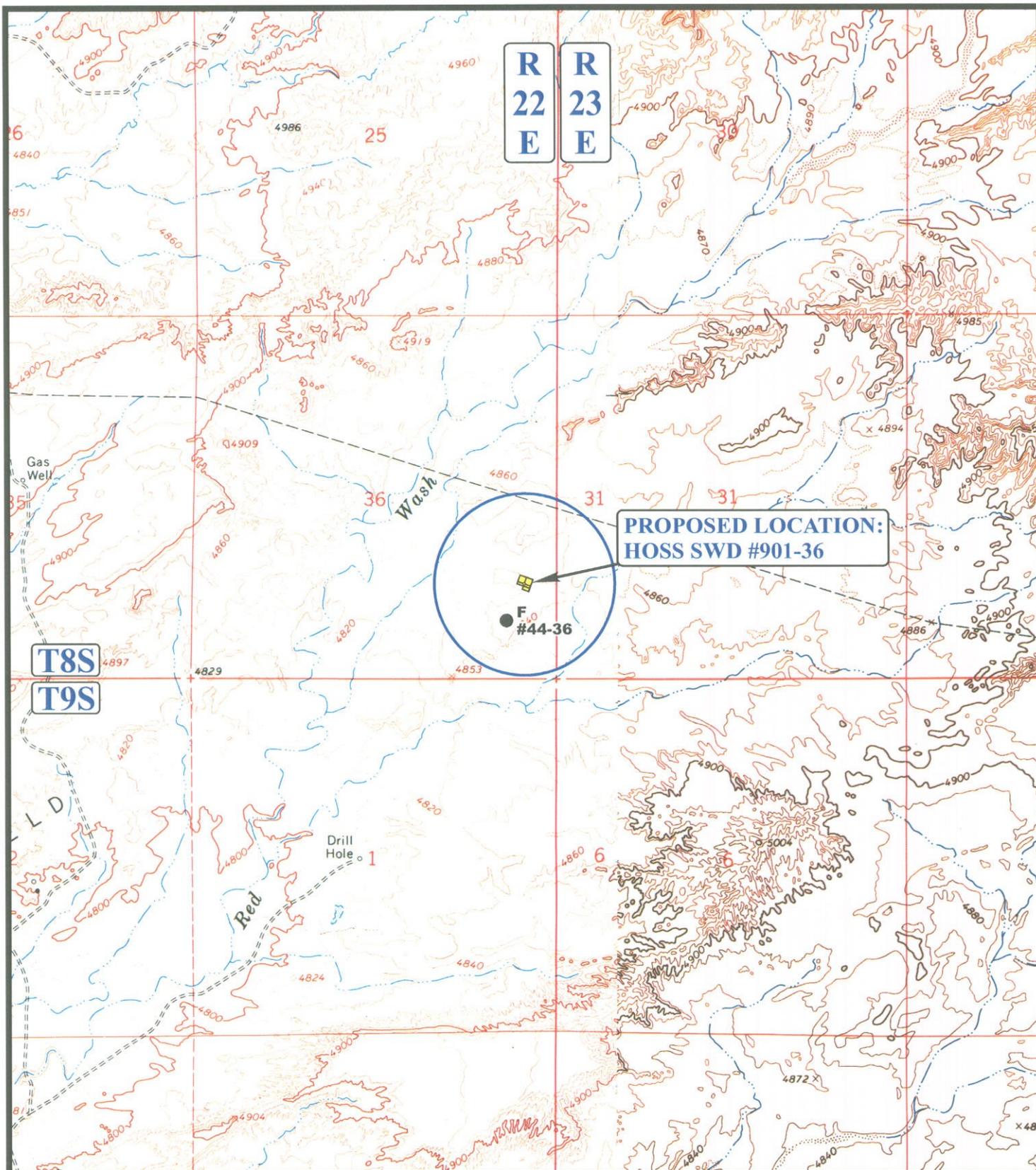
04 25 07
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 05-12-07





LEGEND:

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

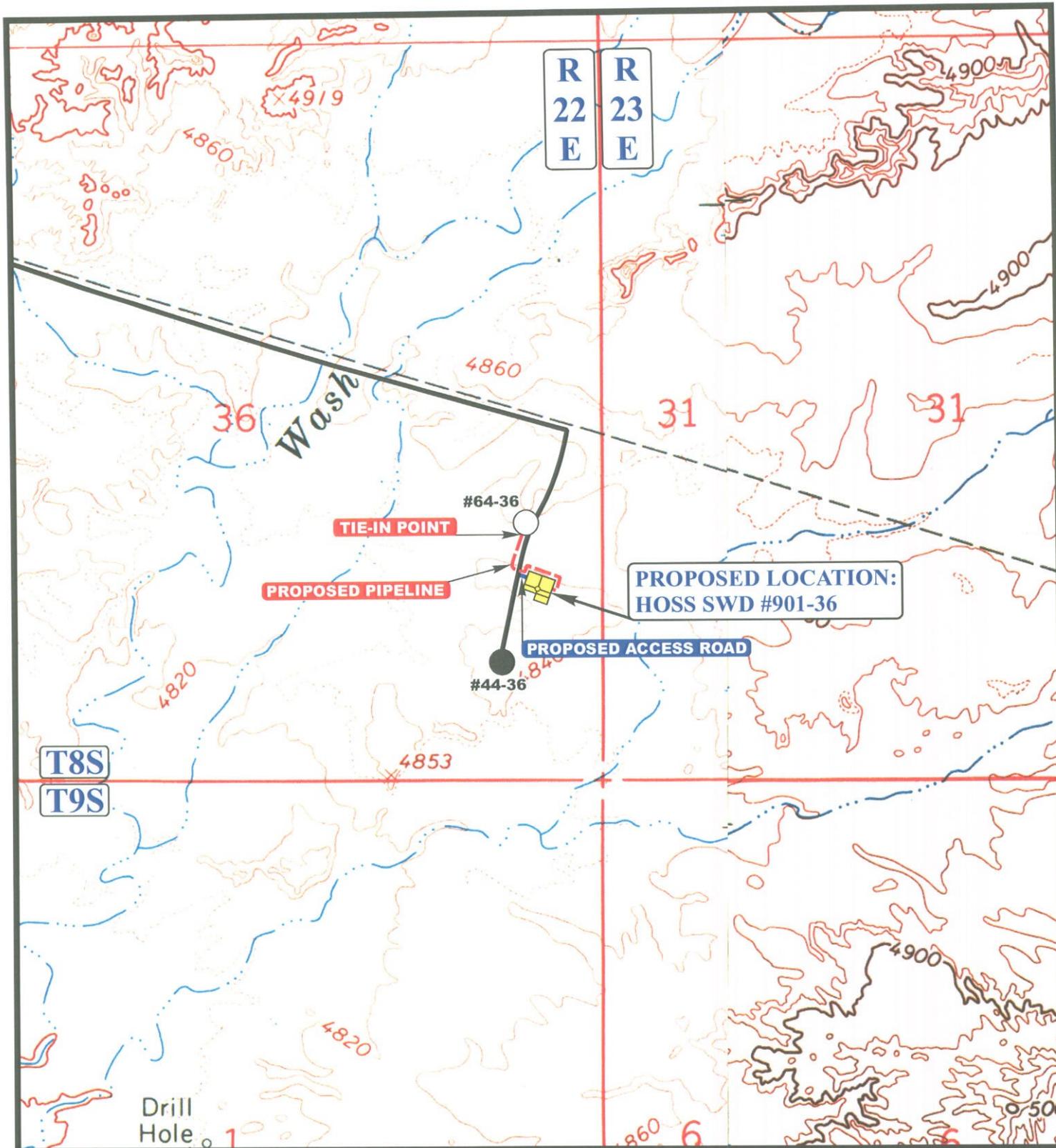


EOG RESOURCES, INC.

HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL

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TOPOGRAPHIC MAP **05 12 07** **C1**
 MONTH DAY YEAR TOPO
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



APPROXIMATE TOTAL PIPELINE DISTANCE = 747' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE

EOG RESOURCES, INC.

**HOSS SWD #901-36
SECTION 36, T8S, R22E, S.L.B.&M.
1355' FSL 467' FEL**



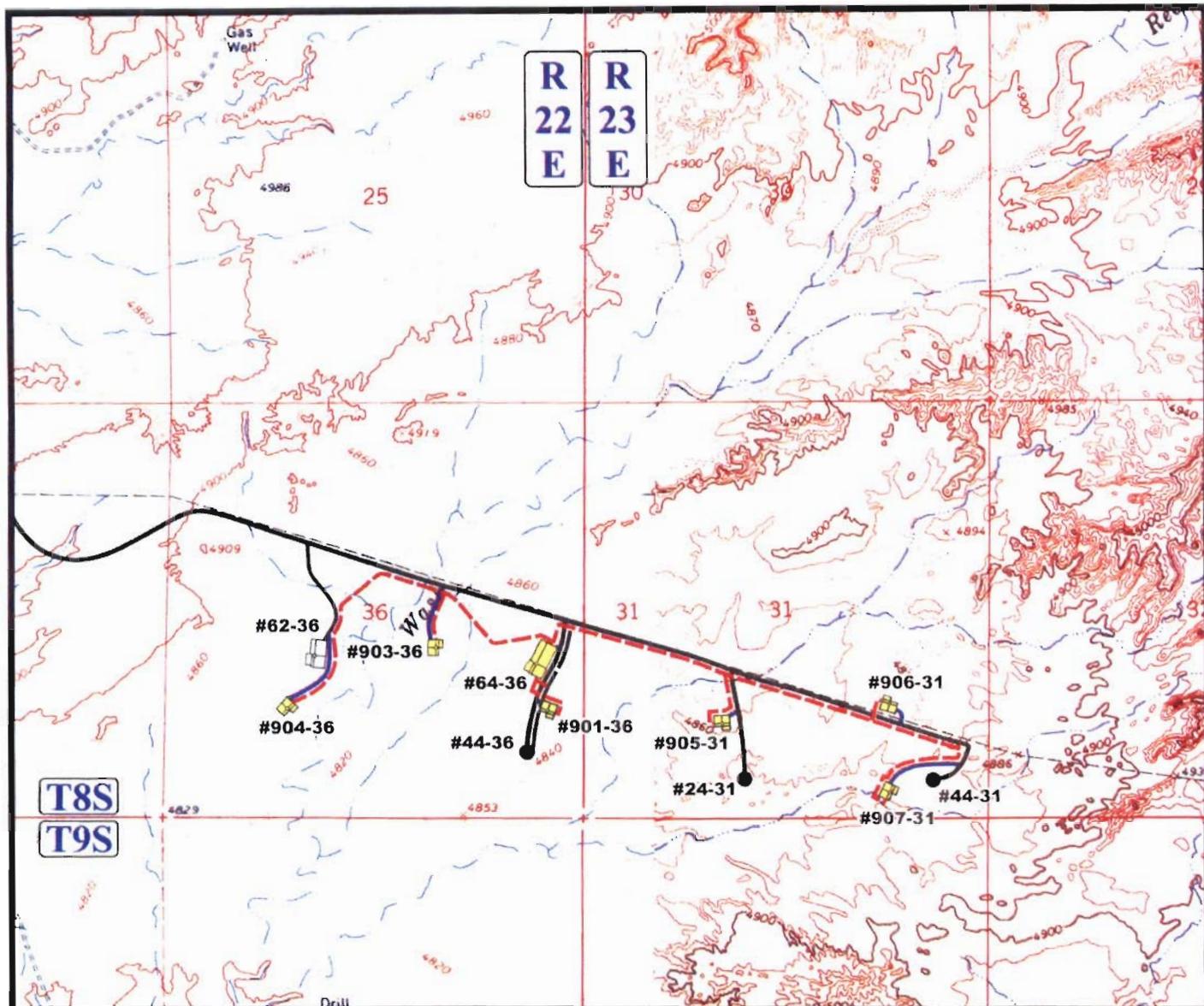
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TOPOGRAPHIC MAP **04 25 07**
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 05-12-07





APPROXIMATE TOTAL #64-36 PIPELINE DISTANCE = 300' +/-

APPROXIMATE TOTAL #901-36 PIPELINE DISTANCE = 747' +/-

APPROXIMATE TOTAL #903-36 PIPELINE DISTANCE = 697' +/-

APPROXIMATE TOTAL #904-36 PIPELINE DISTANCE = 4,754' +/-

APPROXIMATE TOTAL #905-31 PIPELINE DISTANCE = 939' +/-

APPROXIMATE TOTAL #906-31 PIPELINE DISTANCE = 214' +/-

APPROXIMATE TOTAL #907-31 PIPELINE DISTANCE = 7,200' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

EOG RESOURCES, INC.

HOSS SWD WELLS
 SECTION 36, T8S, R22E, S.L.B.&M.
 SECTION 31, T8S, R23E, S.L.B.&M.

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TOPOGRAPHIC 11 30 07
MAP MONTH DAY YEAR

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

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TOPO



CONSTRUCTION, OPERATION AND MAINTENANCE PLAN OF DEVELOPMENT

HOSS WATER DISPOSAL FACILITY WELLPADS AND PIPELINES

EOG Resources, Inc., hereby applies under Section 28 of the Act of February 25, 1920 (41 state. 449), (30 U.S.C. Section 185) as amended by the Act of November 16, 1973, (87 Stat. 576) and requests that this APD serve as the construction, operations and maintenance plan for the right-of-way application for the pipeline on federal lands. A 30-year right-of-way term is requested.

1. PURPOSE AND NEED FOR ROW GRANT:

This right-of-way grant will allow placement of six (6) water disposal wells and associated equipment within Section 31, T8S, R23E, and Section 36, T8S, R22E, surface owned by the Federal Government.

EOG Resources, Inc. is requesting authorization to drill and operate six (6) water disposal wells each individual well pad encompassing an area approximately 200' x 185' a permanent right-of-way of approximately 0.85 acres per well pad. A permanent pipeline right-of-way for approximately 15,000' in length and 20' in width is requested, with a temporary, 30-day, pipeline right-of-way for construction purposes is requested.

EOG Resources, Inc. respectfully requests a right-of-way term of 30-years.

2. FACILITY DESIGN FACTORS:

Six (6) water disposal wells will be attached to Hoss Water Disposal Facility: Hoss 901-36 within Section 36, T8S, R22E Federal Lease UTU56960, Hoss 904-36 within Section 36, T8S, R22E Federal Lease UTU56960, Hoss 905-31 within Section 31, T8S, R23E Federal Lease UTU 61401, Hoss 906-31 within Section 31, T8S, R23E Federal Lease UTU 61401, and Hoss 907-31 within Section 31, T8S, R23E Federal Lease UTU 61401.

Equipment to be included on each location will consist of a wellhead, piping and attaching material and one (1) 6' x 8' building. Water will be disposed of from the Existing Hoss 64-36 location and piped, via buried pipeline, to one of the six referenced injection wells for underground disposal. Facilities located on the Hoss 64-36 will consist of a building to house all disposal equipment, with six (6) to eight (8) 750 bbl tanks.

The facility will be engineered to operate as a Normally Unmanned Installation (NUI) completed with instrumentation and controls necessary to remotely monitor and operate the facility in a safe and effective manner.

Enclosed please find a set of plats, showing location photos, section plat, 1:1,000,000 topo maps 1-50" pad layout, cut and fill sheet, and site diagram.

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

3. GOVERNMENTAL AGENCY INVOLVEMENT:

An application is being pursued from EPA authorizing underground injection. Once the permit is authorized a copy will be submitted to the Vernal BLM Field Office.

Applications for Permit to Drill will be submitted to the Utah Department of Oil Gas and Mining for each injection well.

4. RIGHT-OF-WAY LOCATION:

Attached is a 7.5 minute topo with Township, Range and Sections of the road route.

The proposed well pad for Hoss 901-36 SWD is located within the NESE of Section 36-T8S-R22E. The proposed well pad for Hoss 903-36 SWD is located within the NWSE of Section 36-T8S-R33E. The proposed well pad for Hoss 904-36 SWD is located within the NESW of Section 36-T8S-R22E. The proposed well pad for Hoss 905-31 SWD is located within the SESW of Section 31-T8S-R23E. The proposed well pad for Hoss 906-31 SWD is located within the NESE of Section 31-T8S-R23E. The proposed well pad for Hoss 907-31 is located within the SWSE of Section 31-T8S-R23E.

Low water crossing and CMP's shall be installed as deemed necessary.

5. RESOURCES VALUES AND ENVIRONMENTAL CONCERNS:

Resource Values:

Archaeological: A Class III Cultural Resources Inventory of the location pad(s), access road(s) and pipeline route(s) have been completed and submitted by Montgomery Archeological.

Hoss 901-36 Report No. MOAC 07-180 Submitted 7/4/2007
Hoss 903-36 Report No. MOAC 07-180 Submitted 7/4/2007
Hoss 904-36 Report No. MOAC 07-180 Submitted 7/4/2007
Hoss 905-31 Report No. MOAC 07-179 Submitted 7/3/2007
Hoss 906-31 Report No. MOAC 07-179 Submitted 7/3/2007
Hoss 907-31 Report No. MOAC 07-179 Submitted 7/3/2007

Paleontological Surveys of the location pads access road(s) and pipeline route(s) have been completed and submitted by Intermountain Paleontological Consultants.

Hoss 901-36 Report No. IPC 07-103 Submitted 5/08/2007
Hoss 903-36 Report No. IPC 07-103 Submitted 5/08/2007
Hoss 904-36 Report No. IPC 07-103 Submitted 5/08/2007
Hoss 905-31 Report No. IPC 07-102 Submitted 5/30/2007
Hoss 906-31 Report No. IPC 07-102 Submitted 5/30/2007
Hoss 907-31 Report No. IPC 07-102 Submitted 5/30/2007

Environment Concerns:

Visual Resources: This project will be visual mostly when drilling and completion is taking place.

Water Quality: The proposed project does not cross any perennial streams and should not affect surface or ground water quality.

6. CONSTRUCTION OF THE FACILITY:

Schedule: Construction will begin once the ROW, and underground injection permit from EPA is approved.

Pre-Construction: Prior to construction the pad will be staked and flagged by professional surveyors.

EOG Resources, Inc. is authorized to operate in the State of Utah with proper documentation filed in the appropriate federal, state and regional offices. EOG has demonstrated its financial and technical capabilities to construct, operate, and maintain previous water disposal facilities.

EOG Resources, Inc. shall comply with all federal, state and local laws applicable to this project as they relate to public health, safety and environmental protection, construction, operation and maintenance.

All safety measures have been considered. EOG Resources, Inc. shall have a representative available during all phases of construction. This individual will oversee construction activities to ensure that all work is performed in accordance with the BLM approved plan of operations.

EOG Resources, Inc. will provide a 48-hour pre-construction notification to BLM.

Construction: EOG Resources, Inc. will confine all travel to existing access road rights-of-way.

Construction activities will not occur when deep frost is present in the ground; nor will frozed dirt be utilized for construction purposes. Additionally, no construction activity will be conducted with saturated soil material or when significant watershed damage (rutting, extensive sheet soil erosion, formation of rill/gullies, etc.) is likely to occur.

The top (6) inches of topsoil, as a minimum, will be salvaged and set aside for reclamation. The soil will not be intermixed with any spoil that will come out of the trenched material.

The construction work will include the use of equipment for delivery and staging of well drilling and completion equipment, as well as surface piping and equipment, blading and trenching, fusion welding

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

Access roads and surface disturbing activities will conform to standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

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

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

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

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

7. SOURCE OF CONSTRUCTION MATERIALS:

- A. All construction material for this pipeline will be of native borrow and soil accumulated during the construction of the location.
- B. No mineral materials will be required.

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

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

8. PIPELINE DESIGN FACTORS:

- 1. Proposed pipeline(s) will transport produced water.
- 2. Proposed pipeline will be a 4" OD steel, welded buried pipeline.

The proposed pipeline length for Hoss 901-36 is approximately 747' in length by 20' in width. The proposed pipeline leaves the eastern edge of the proposed well pad proceeding westerly then northerly for an approximate distance of 747', tying into existing Hoss 64-36 location and Hoss SWD facility.

The proposed pipeline length for Hoss 903-36 is approximately 697' in length by 20' in width. The proposed pipeline leaves the northern edge of the proposed well pad proceeding northerly for an approximate distance of 697', tying into the proposed pipeline for Hoss 904-36.

The proposed pipeline length for Hoss 904-36 is approximately 4903' in length by 20' in width. The proposed pipeline leaves the northern edge of the proposed well pad proceeding northerly then easterly for an approximate distance of 4903', tying into the existing pipeline for Hoss 64-36.

The proposed pipeline length for Hoss 905-31 is approximately 939' in length by 20' in

width. The proposed pipeline leaves the western edge of the proposed well pad proceeding northerly for an approximate distance of 939', tying into the proposed pipeline for Hoss 907-31.

The proposed pipeline length for Hoss 906-31 is approximately 214' in length by 20' in width. The proposed pipeline leaves the western edge of the proposed well pad proceeding southerly for an approximate distance of 214', tying into the proposed pipeline for Hoss 906-31.

The proposed pipeline length for Hoss 907-31 is approximately 7500' in length by 20' in width. The proposed pipeline leaves the southern edge of the proposed well pad proceeding westerly for an approximate distance of 7500', tying into the existing pipeline for Hoss 64-36.

A permanent right-of-way width of 20' with a 30 day temporary right-of-way width of 40' is requested.

9. RECLAMATION FACTORS:

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

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

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

All reclamation shall be in accordance with guidelines set forth in the Fourth Edition of BLM/USFSS Surface Operating Standards for Oil and Gas Exploration and Development.

Any areas that are not needed for operations of the injection wells right-of-way will be contoured to the native terrain, and topsoil will be distributed at a minimum of six inches thick with the BLM prescribed seed mixture.

The reclaimed area will be compacted to an acceptable level to ensure appropriate settling of soils as well as providing for a suitable seedbed.

Seeding will occur during spring or late fall seasons when ground frost is not present, but soil temperatures are within the acceptable limitations for germination.

Water bars will be constructed in any sloped areas where there is potential erosion.

Rip Rap and silt traps will be installed at/in drainages where seen fit and/or upon the request of BLM.

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

Seed Mixture	Drilled Rate (lbs./acre PLS*)
Fourwing Saltbush	2.0
Indian Ricegrass	2.0
Needle and Threadgrass	2.0
HyCrest Wheatgrass	1.0
Scarlet Globe Mallow	1.0

*Pure live seed (PLS) formula: percent of purity of seed mixture times percent germination of seed mixture equals portion of seed mixture that is PLS.

Pipeline Abandonment

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

10. WELL SITE LAYOUT:

- A. Refer to attached well site plat for related topography cuts and fills and cross sections.
- B. Refer to the attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation, parking areas, and access road.

11. SURFACE OWNERSHIP:

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

Bureau of Land Management

12. OTHER INFORMATION:

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

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

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

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

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice of Lessees. The operator is fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

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

A cultural resources survey has been conducted and submitted by Montgomery Archaeological Consultants and paleontology survey will be conducted and submitted by Montgomery Archaeological Consultants.

LESSEE OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION:

PERMITTING AGENT

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

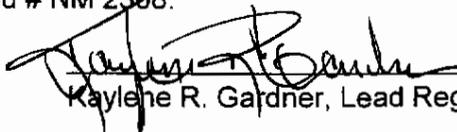
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CERTIFICATION:

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

Please be advised that EOG Resources, Inc. is considered to be the operator of the Hoss 901-36SWD, Hoss 903-36SWD, Hoss 904-36SWD, Hoss 905-31SWD, Hoss 906-31SWD, Hoss 907-31SWD and Hoss 64-36 Wells, located within Section 31, T8S, R23E, and Section 36, T8S, R22E, Uintah County, Utah; State land and minerals; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is under Bond # NM 2308.

November 12, 2007
Date



Kaylene R. Gardner, Lead Regulatory Assistant

API Number: 4304750290

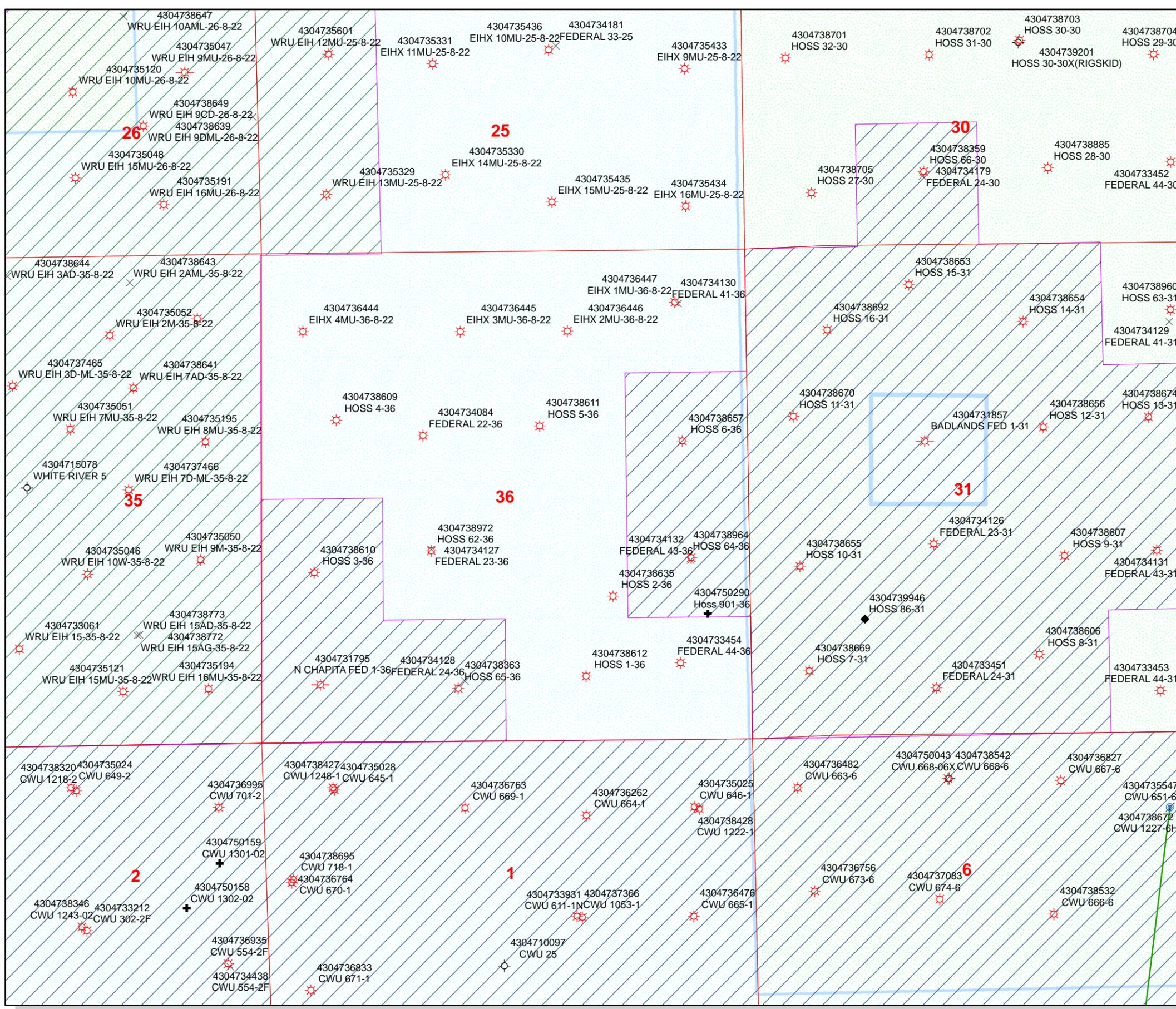
Well Name: Hoss 901-36

Township 08.0 S Range 22.0 E Section 36

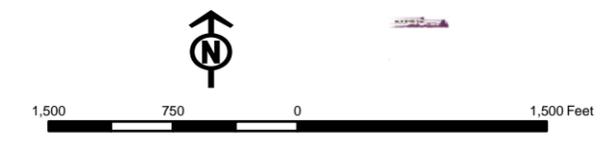
Meridian: SLBM

Operator: EOG RESOURCES, INC.

Map Prepared:
Map Produced by Diana Mason



Units	Wells Query Events
ACTIVE	<all other values>
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	RET
Fields	PGW
STATUS	POW
ACTIVE	RET
COMBINED	SOW
Sections	TA
	TW
	WD
	WI
	WS



1:13,261

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

March 12, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2009 Plan of Development Badlands Unit,
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following water disposal well is planned for calendar year 2009 within the Badlands, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed Injection Zone GREEN RIVER)		
43-047-50290	Hoss	901-36 Sec 36 T08S R22E 1355 FSL 0467 FEL

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File - Badlands Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:3-12-09



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

March 18, 2009

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

RE: Hoss 901-36 SWD

Dear Brad:

Confirming our phone conversation 3/16/2009, EOG Resources, Inc. will not establish hydrocarbon production from the Hoss 901-36 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".

Kaylene R. Gardner
Regulatory Administrator

cc: File

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/9/2009

API NO. ASSIGNED: 43047502900000

WELL NAME: Hoss 901-36 SWD

OPERATOR: EOG Resources, Inc. (N9550)

PHONE NUMBER: 303 824-5526

CONTACT: Mary Maestas

PROPOSED LOCATION: NESE 36 080S 220E

Permit Tech Review:

SURFACE: 1355 FSL 0467 FEL

Engineering Review:

BOTTOM: 1355 FSL 0467 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.07574

LONGITUDE: -109.37990

UTM SURF EASTINGS: 638145.00

NORTHINGS: 4437211.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU56960

PROPOSED FORMATION: GRRV

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

LOCATION AND SITING:

- R649-2-3.
Unit: BADLANDS
- 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
NEEDS EX LOC INFO:

Stipulations: 1 - Exception Location - dmason
4 - Federal Approval - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Hoss 901-36 SWD
API Well Number: 43047502900000
Lease Number: UTU56960
Surface Owner: FEDERAL
Approval Date: 3/19/2009

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.

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:

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

Notification Requirements:

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

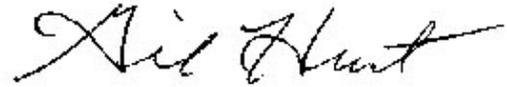
- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

Reporting Requirements:

API Well No: 43047502900000

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:

A handwritten signature in black ink, appearing to read "Gil Hunt". The signature is written in a cursive style with a long, sweeping horizontal stroke at the end.

Gil Hunt
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

JUN 16 2009

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Re: Authorization to Inject
EPA UIC Permit UT21157-07865
Well: Hoss SWD 901-36
NESE Sec. 36-T8S-R22E
Uintah County, UT
API No.:43-047-50290

RECEIVED
JUN 22 2009

Dear Mr. Forsman:

DIV. OF OIL, GAS & MINING

Thank you for submitting information regarding completion of construction and testing for the above referenced injection well. Requirements of your UIC Permit required submittal of the following information to the Director:

1. Well Completion forms and diagrams
2. Mechanical Integrity Test results,
3. Injection Zone Pore Pressure.

All required information has been submitted, and has been reviewed and approved by the EPA. Therefore, effective upon your receipt of this letter, Administrative approval hereby is granted for injection under the conditions of your UIC Permit.

As of this approval, responsibility for permit compliance and enforcement is transferred to the Region 8 UIC Technical Enforcement Program office. Please direct all future notification, reporting, monitoring and compliance correspondence to the following address, and reference your UIC Permit number and well name.

U.S. Environmental Protection Agency
Region 8 UIC Technical Enforcement Program, 8ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202-1129

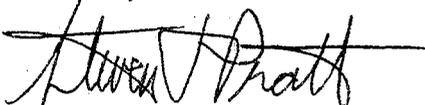


Printed on Recycled Paper

If you have any questions regarding this Authorization, please call Dan Jackson of my staff at (303) 312-6155. For questions regarding notification, testing, monitoring, reporting or other Permit requirements, please contact Nathan Wiser of the UIC Technical Enforcement Program by calling (303) 312-6211.

NOV 08 09:03 AM '01

Sincerely,



Steven J. Pratt, P.E., CAPM (inactive)
Director, Ground Water Program

cc: Uintah & Ouray Business Committee
Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice Chairwoman
Steven Cesspooch, Councilman
Phillip Chimbraus, Councilman
Frances Poowegup, Councilwoman

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakulku
Director, Natural Resources
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Matt Baker
Fluid Minerals Engineering Office
BLM - Vernal Office

Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office

Stan Perkes
Solid Minerals Office
Bureau of Land Management





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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1595 WYNKOOP STREET
DENVER, CO 80202-1129
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Ref: 8P-W-GW

JUN 16 2009

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Region 8 UIC Technical Enforcement Program, 8ENF-UFO
1595 Wynkoop Street
Denver, Colorado 80202-1129

RECEIVED

JUN 23 2009

DIV. OF OIL, GAS & MINING



Printed on Recycled Paper

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Sincerely,



Steven J. Pratt, P.E., CAPM (inactive)
Director, Ground Water Program

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Director, Natural Resources
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Matt Baker
Fluid Minerals Engineering Office
BLM - Vernal Office

Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office

Stan Perkes
Solid Minerals Office
Bureau of Land Management

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56960
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: BADLANDS
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: HOSS 901-36 SWD
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047502900000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	PHONE NUMBER: 435 781-9111 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355 FSL 0467 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 08.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input 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: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Attached please find well chronology report for the referenced well.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY**
 August 03, 2009

NAME (PLEASE PRINT) Mickenzie Thacker	PHONE NUMBER 435 781-9145	TITLE Operations Clerk
SIGNATURE N/A	DATE 7/31/2009	

WELL CHRONOLOGY REPORT

Report Generated On: 07-31-2009

Well Name	HOSS 901-36 SWD	Well Type	SWD	Division	DENVER
Field	PONDEROSA	API #	43-047-50290	Well Class	COMP
County, State	UINTAH, UT	Spud Date		Class Date	
Tax Credit	N	TVD / MD	2,750/ 2,750	Property #	061927
Water Depth	0	Last CSG	3.5	Shoe TVD / MD	2,002/ 2,002
KB / GL Elev	4,846/ 4,843				
Location	Section 36, T8S, R22E, NESE, 1355 FSL & 467 FEL				

Event No	1.0	Description	DRILL & COMPLETE		
Operator	EOG RESOURCES, INC	WI %	100.0	NRI %	0.0

AFE No 304872 **AFE Total** 770,800 **DHC / CWC** 445,300/ 325,500

Rig Contr **Rig Name** **Start Date** **Release Date**

03-20-2009 **Reported By** CYNTHIA HANSELMAN

Daily Costs: 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 : **PBTD :** 0.0 **Perf :** **PKR Depth :** 0.0

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA

1355' FSL & 467' FEL (NE/SE)
SECTION 36, T8S, R22E
UINTAH COUNTY, UTAH

LAT 40.075681, LONG 109.380586 (NAD 83)
LAT 40.075717, LONG 109.379903 (NAD 27)

RIG:
OBJECTIVE: 2750' TD
SWD
PONDEROSA PROSPECT
DD&A: CHAPITA DEEP
NATURAL BUTTES FIELD

LEASE: UTU-56960
ELEVATION: 4843.6' NAT GL, 4842.9' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 4843')

EOG WI 100%, NRI 0%

03-21-2009 **Reported By** TERRY CSERE

DailyCosts: Drilling \$10,000 **Completion** \$0 **Daily Total** \$10,000
Cum Costs: Drilling \$10,000 **Completion** \$0 **Well Total** \$10,000
MD 0 **TVD** 0 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: BUILD LOCATION

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

03-22-2009 **Reported By** JERRY BARNES

DailyCosts: Drilling \$0 **Completion** \$0 **Daily Total** \$0
Cum Costs: Drilling \$10,000 **Completion** \$0 **Well Total** \$10,000
MD 80 **TVD** 80 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	CRAIGS ROUSTABOUT SERVICE, SPUD A 20" HOLE ON 03/20/09 @ 5:30 PM. SET 80' OF 13 3/8" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. JERRY BARNES NOTIFIED CAROL DANIELS W/UDOGM & MICHAEL LEE W/BLM OF THE SPUD 03/20/09 @ 4:30 PM.

03-31-2009 **Reported By** JERRY BARNES

DailyCosts: Drilling \$14,613 **Completion** \$0 **Daily Total** \$14,613
Cum Costs: Drilling \$24,613 **Completion** \$0 **Well Total** \$24,613
MD 2,110 **TVD** 2,110 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: WO AIR RIG

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU CRAIGS AIR RIG # 3 ON 3/23/2009. DRILLED 12-1/4" HOLE TO 2110' GL. ENCOUNTERED WATER @ 2110'. ENCOUNTERED ROUGH DRILLING FROM 2095' TO 2110'. TRIPPED OUT OF HOLE AND RAN E-LOGS BY SCHLUMBERGER. DUMPED 100 CU/FT OF 20/40 SAND DOWN HOLE. TRIPPED IN HOLE AND TAGGED SAND @ 2058'. RIGGED UP HALLIBURTON AND PUMPED 10 SX (2 BBLs) OF PREMIUM CEMENT FOR A 10' PLUG. RAN 47 JTS (2048.71') OF 9-5/8", 36.0#, J-55, ST&C CASING WITH HALLIBURTON FLOAT SHOE AND FLOAT COLLAR. 27 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT, FIRST 5 JOINTS, AND EVERY OTHER COLLAR TILL GONE. LANDED @ 2048' GL. RDMO CRAIGS RIG.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 2450 PSIG. PUMPED 10 BBLs FRESH WATER, 25 BBL OF SUPERFLUSH XLC, 10 BBLs FRESH WATER, 31 BBLs OF VARICEM SPACER CEMENT, AND 10 BBLs OF FRESH WATER AHEAD OF CEMENT. MIXED & PUMPED 470 SX (199.2 BBLs) OF PREMIUM LEAD CEMENT. MIXED LEAD CEMENT @ 12.5 PPG W/YIELD OF 2.38 CF/SX.

TAILED IN W/ 210 SX (44.1 BBLs) OF PREMIUM CEMENT. MIXED TAIL CEMENT TO 15.6 PPG W/YIELD OF 1.18 CF/SX. DISPLACED CEMENT W/155 BBLs FRESH WATER. BUMPED PLUG W/627# @ 2:42 AM, 3/28/2009. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE. HOLE CIRCULATED THROUGH OUT JOB. CIRCULATED 50 BBLs LEAD CEMENT TO PIT. CEMENT FELL BACK WHEN PLUG BUMPED. WOC 4 HRS.

TOP JOB # 1: MIXED & PUMPED 30 SX (6.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL. RDMO HALLIBURTON CEMENTERS.

JERRY BARNES NOTIFIED DAVE HACKFORD W/UDOGM OF THE CASING & CEMENT JOB ON 3/24/2009 @ 4:53 P.M.

04-01-2009 Reported By JERRY BARNES

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
 Cum Costs: Drilling \$24,613 Completion \$0 Well Total \$24,613

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING @ 2300'

Start	End	Hrs	Activity Description
12:00	06:00	18.0	RU CRAIG'S AIR DRILLING. DRILL FROM 2110' to 2300' W/WATER.

04-02-2009 Reported By BAUSCH

DailyCosts: Drilling \$314,604 Completion \$12,917 Daily Total \$327,521
 Cum Costs: Drilling \$339,217 Completion \$12,917 Well Total \$352,134

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: MIRUSU

Start	End	Hrs	Activity Description
07:00	15:00	8.0	MIRU CUTTERS WIRELINE SERVICE ON 3/31/2009. RAN CBL. RDWL.

MIRU CRAIGS RIG # 3 ON 3/31/2009. TRIP IN HOLE. TAGGED CEMENT AT 2000'. DRILLED SHOE TRACK AND CLEANED OUT HOLE TO 2110' WITH AIR. DRILLED 8 3/4 HOLE FROM 2110' TO 2376', WITH WATER. CIRCULATED HOLE CLEAN. LAYED DOWN DRILL PIE. RDMO CRAIGS RIG # 3.

15:00 MOVE RIG TO LOCATION WAIT FOR DRILLING RIG TO MOVE OFF.

04-03-2009 Reported By BAUSCH

DailyCosts: Drilling \$0 Completion \$8,284 Daily Total \$8,284
 Cum Costs: Drilling \$339,217 Completion \$21,201 Well Total \$360,418

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RIH W/SCRAPER

Start	End	Hrs	Activity Description
07:00	17:00	10.0	MIRUSU. INSTALLED TBG HEAD. NU 11" BOP. RIH W/9-5/8" SCRAPER TO 2030'. SDFN.

04-04-2009 Reported By BAUSCH

DailyCosts: Drilling \$0 Completion \$25,701 Daily Total \$25,701
 Cum Costs: Drilling \$339,217 Completion \$46,902 Well Total \$386,119

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RUN PKR. TEST PKR. RDMOSU.

Start	End	Hrs	Activity Description
07:00	16:00	9.0	HOLD SAFETY MTG. POH. LD 2 7/8" TBG AND 3 1/2" SCRAPER. CHANGE OVER TO PU 3 1/2" TBG. MU 9 5/8" ARROWSET 1X PKR. TALLY AND PU 3 1/2" TBG. RIH TO 2002'. ND BOP. SPOT 130 BLS PKR FLUID DN CSG. SET PKR IN 15,000 # COMPRESSION. NU WH. TEST PKR TO 500 PSIG. LEFT PRESSURE ON CSG. SHUT WELL IN. RDMOSU.

TUBING DETAIL LENGTH

3 1/2" ARROWSET X1 PKR 8.85'

XO SUB 0.82'

65 JTS 3 1/2" 9.3# BST N-80 TBG 1990.91'

XO SU 0.57'

LANDED @ 2002.15' KB

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56960
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: BADLANDS
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: HOSS 901-36 SWD
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047502900000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	PHONE NUMBER: 435 781-9111 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355 FSL 0467 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 08.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/29/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input 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: _____

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 10/29/2009.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
FOR RECORD ONLY
 November 03, 2009

NAME (PLEASE PRINT) Mickenzie Gates	PHONE NUMBER 435 781-9145	TITLE Operations Clerk
SIGNATURE N/A	DATE 10/29/2009	

WELL CHRONOLOGY REPORT

Report Generated On: 10-28-2009

Well Name	HOSS 901-36 SWD	Well Type	SWD	Division	DENVER
Field	PONDEROSA	API #	43-047-50290	Well Class	COMP
County, State	UINTAH, UT	Spud Date		Class Date	
Tax Credit	N	TVD / MD	2,750/ 2,750	Property #	061927
Water Depth	0	Last CSG	3.5	Shoe TVD / MD	2,002/ 2,002
KB / GL Elev	4,846/ 4,843				
Location	Section 36, T8S, R22E, NESE, 1355 FSL & 467 FEL				

Event No	1.0	Description	DRILL & COMPLETE		
Operator	EOG RESOURCES, INC	WI %	100.0	NRI %	0.0

AFE No 304872 **AFE Total** 770,800 **DHC / CWC** 445,300/ 325,500

Rig Contr **Rig Name** **Start Date** **Release Date**

03-20-2009 **Reported By** CYNTHIA HANSELMAN

Daily Costs: 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 : **PBTD :** 0.0 **Perf :** **PKR Depth :** 0.0

Activity at Report Time: LOCATION DATA

Start	End	Hrs	Activity Description
06:00	06:00	24.0	LOCATION DATA

1355' FSL & 467' FEL (NE/SE)
SECTION 36, T8S, R22E
UINTAH COUNTY, UTAH

LAT 40.075681, LONG 109.380586 (NAD 83)
LAT 40.075717, LONG 109.379903 (NAD 27)

RIG:
OBJECTIVE: 2750' TD
SWD
PONDEROSA PROSPECT
DD&A: CHAPITA DEEP
NATURAL BUTTES FIELD

LEASE: UTU-56960
ELEVATION: 4843.6' NAT GL, 4842.9' PREP GL (DUE TO ROUNDING THE PREP GL WILL BE 4843')

EOG WI 100%, NRI 0%

03-21-2009 **Reported By** TERRY CSERE

DailyCosts: Drilling \$10,000 **Completion** \$0 **Daily Total** \$10,000
Cum Costs: Drilling \$10,000 **Completion** \$0 **Well Total** \$10,000
MD 0 **TVD** 0 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: BUILD LOCATION

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

03-22-2009 **Reported By** JERRY BARNES

DailyCosts: Drilling \$0 **Completion** \$0 **Daily Total** \$0
Cum Costs: Drilling \$10,000 **Completion** \$0 **Well Total** \$10,000
MD 80 **TVD** 80 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: WORT

Start	End	Hrs	Activity Description
06:00	06:00	24.0	CRAIGS ROUSTABOUT SERVICE, SPUD A 20" HOLE ON 03/20/09 @ 5:30 PM. SET 80' OF 13 3/8" CONDUCTOR. CEMENT TO SURFACE WITH READY MIX. JERRY BARNES NOTIFIED CAROL DANIELS W/UDOGM & MICHAEL LEE W/BLM OF THE SPUD 03/20/09 @ 4:30 PM.

03-31-2009 **Reported By** JERRY BARNES

DailyCosts: Drilling \$14,613 **Completion** \$0 **Daily Total** \$14,613
Cum Costs: Drilling \$24,613 **Completion** \$0 **Well Total** \$24,613
MD 2,110 **TVD** 2,110 **Progress** 0 **Days** 0 **MW** 0.0 **Visc** 0.0
Formation : **PBTD : 0.0** **Perf :** **PKR Depth : 0.0**

Activity at Report Time: WO AIR RIG

Start	End	Hrs	Activity Description
06:00	06:00	24.0	MIRU CRAIGS AIR RIG # 3 ON 3/23/2009. DRILLED 12-1/4" HOLE TO 2110' GL. ENCOUNTERED WATER @ 2110'. ENCOUNTERED ROUGH DRILLING FROM 2095' TO 2110'. TRIPPED OUT OF HOLE AND RAN E-LOGS BY SCHLUMBERGER. DUMPED 100 CU/FT OF 20/40 SAND DOWN HOLE. TRIPPED IN HOLE AND TAGGED SAND @ 2058'. RIGGED UP HALLIBURTON AND PUMPED 10 SX (2 BBLs) OF PREMIUM CEMENT FOR A 10' PLUG. RAN 47 JTS (2048.71') OF 9-5/8", 36.0#, J-55, ST&C CASING WITH HALLIBURTON FLOAT SHOE AND FLOAT COLLAR. 27 CENTRALIZERS SPACED MIDDLE OF SHOE JOINT, FIRST 5 JOINTS, AND EVERY OTHER COLLAR TILL GONE. LANDED @ 2048' GL. RDMO CRAIGS RIG.

MIRU HALLIBURTON CEMENTERS. HELD SAFETY MEETING. PRESSURE TESTED LINES AND CEMENT VALVE TO 2450 PSIG. PUMPED 10 BBLs FRESH WATER, 25 BBL OF SUPERFLUSH XLC, 10 BBLs FRESH WATER, 31 BBLs OF VARICEM SPACER CEMENT, AND 10 BBLs OF FRESH WATER AHEAD OF CEMENT. MIXED & PUMPED 470 SX (199.2 BBLs) OF PREMIUM LEAD CEMENT. MIXED LEAD CEMENT @ 12.5 PPG W/YIELD OF 2.38 CF/SX.

TAILED IN W/ 210 SX (44.1 BBLs) OF PREMIUM CEMENT. MIXED TAIL CEMENT TO 15.6 PPG W/YIELD OF 1.18 CF/SX. DISPLACED CEMENT W/155 BBLs FRESH WATER. BUMPED PLUG W/627# @ 2:42 AM, 3/28/2009. CHECKED FLOAT, FLOAT HELD. SHUT-IN CASING VALVE. HOLE CIRCULATED THROUGH OUT JOB. CIRCULATED 50 BBLs LEAD CEMENT TO PIT. CEMENT FELL BACK WHEN PLUG BUMPED. WOC 4 HRS.

TOP JOB # 1: MIXED & PUMPED 30 SX (6.5 BBLs) OF PREMIUM CEMENT W/2% CACL2. MIXED CEMENT @ 15.8 PPG W/YIELD OF 1.15 CF/SX. HOLE FILLED AND STOOD FULL. RDMO HALLIBURTON CEMENTERS.

JERRY BARNES NOTIFIED DAVE HACKFORD W/UDOGM OF THE CASING & CEMENT JOB ON 3/24/2009 @ 4:53 P.M.

04-01-2009 Reported By JERRY BARNES

DailyCosts: Drilling \$0 Completion \$0 Daily Total \$0
 Cum Costs: Drilling \$24,613 Completion \$0 Well Total \$24,613

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: DRILLING @ 2300'

Start	End	Hrs	Activity Description
12:00	06:00	18.0	RU CRAIG'S AIR DRILLING. DRILL FROM 2110' to 2300' W/WATER.

04-02-2009 Reported By BAUSCH

DailyCosts: Drilling \$314,604 Completion \$12,917 Daily Total \$327,521
 Cum Costs: Drilling \$339,217 Completion \$12,917 Well Total \$352,134

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: MIRUSU

Start	End	Hrs	Activity Description
07:00	15:00	8.0	MIRU CUTTERS WIRELINE SERVICE ON 3/31/2009. RAN CBL. RDWL.

MIRU CRAIGS RIG # 3 ON 3/31/2009. TRIP IN HOLE. TAGGED CEMENT AT 2000'. DRILLED SHOE TRACK AND CLEANED OUT HOLE TO 2110' WITH AIR. DRILLED 8 3/4 HOLE FROM 2110' TO 2376', WITH WATER. CIRCULATED HOLE CLEAN. LAYED DOWN DRILL PIE. RDMO CRAIGS RIG # 3.

15:00 MOVE RIG TO LOCATION WAIT FOR DRILLING RIG TO MOVE OFF.

04-03-2009 Reported By BAUSCH

DailyCosts: Drilling \$0 Completion \$8,284 Daily Total \$8,284
 Cum Costs: Drilling \$339,217 Completion \$21,201 Well Total \$360,418

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RIH W/SCRAPER

Start	End	Hrs	Activity Description
07:00	17:00	10.0	MIRUSU. INSTALLED TBG HEAD. NU 11" BOP. RIH W/9-5/8" SCRAPER TO 2030'. SDFN.

04-04-2009 Reported By BAUSCH

DailyCosts: Drilling \$0 Completion \$25,701 Daily Total \$25,701
 Cum Costs: Drilling \$339,217 Completion \$46,902 Well Total \$386,119

MD 2,300 TVD 2,300 Progress 0 Days 0 MW 0.0 Visc 0.0

Formation : PBTB : 0.0 Perf : PKR Depth : 0.0

Activity at Report Time: RUN PKR. TEST PKR. RDMOSU.

Start	End	Hrs	Activity Description
07:00	16:00	9.0	HOLD SAFETY MTG. POH. LD 2 7/8" TBG AND 3 1/2" SCRAPER. CHANGE OVER TO PU 3 1/2" TBG. MU 9 5/8" ARROWSET 1X PKR. TALLY AND PU 3 1/2" TBG. RIH TO 2002'. ND BOP. SPOT 130 BLS PKR FLUID DN CSG. SET PKR IN 15,000 # COMPRESSION. NU WH. TEST PKR TO 500 PSIG. LEFT PRESSURE ON CSG. SHUT WELL IN. RDMOSU.

TUBING DETAIL LENGTH

3 1/2" ARROWSET X1 PKR 8.85'
XO SUB 0.82'
65 JTS 3 1/2" 9.3# BST N-80 TBG 1990.91'
XO SU 0.57'
LANDED @ 2002.15' KB

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56960
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: BADLANDS
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: HOSS 901-36 SWD
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047502900000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	PHONE NUMBER: 435 781-9111 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355 FSL 0467 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 08.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/1/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input 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: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No activity has occurred since last submission on 10/29/2009 to 12/1/2009.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 December 01, 2009

NAME (PLEASE PRINT) Mickenzie Gates	PHONE NUMBER 435 781-9145	TITLE Operations Clerk
SIGNATURE N/A	DATE 12/1/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56960
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: BADLANDS
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: HOSS 901-36 SWD
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047502900000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	PHONE NUMBER: 435 781-9111 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355 FSL 0467 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 08.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/31/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input 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: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No activity has occurred since last submission on 12/1/2009 to 12/31/2009.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 January 04, 2010

NAME (PLEASE PRINT) Mickenzie Gates	PHONE NUMBER 435 781-9145	TITLE Operations Clerk
SIGNATURE N/A		DATE 12/31/2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU56960
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: BADLANDS
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: HOSS 901-36 SWD
2. NAME OF OPERATOR: EOG Resources, Inc.	9. API NUMBER: 43047502900000
3. ADDRESS OF OPERATOR: 1060 East Highway 40 , Vernal, UT, 84078	PHONE NUMBER: 435 781-9111 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355 FSL 0467 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 08.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/2/2010	<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: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 No activity has occurred since last submission on 12/31/2009 to 2/2/2010.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 February 05, 2010

NAME (PLEASE PRINT) Mickenzie Gates	PHONE NUMBER 435 781-9145	TITLE Operations Clerk
SIGNATURE N/A	DATE 2/2/2010	

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-56960

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
Badlands

8. WELL NAME and NUMBER:
Hoss 901-36 SWD

9. API NUMBER:
43-047-50290

10. FIELD AND POOL, OR WILDCAT
Natural Buttes

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NESE 36 8S 22E S

12. COUNTY
Uintah

13. STATE
UTAH

17. ELEVATIONS (DF, RKB, RT, GL):
4844' NAT GL

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER **SWD**

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

2. NAME OF OPERATOR:
EOG Resources, Inc.

3. ADDRESS OF OPERATOR: **600 17th St., Suite 1000N** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 824-5526**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **1355' FSL & 467' FEL 40.075681 LAT 109.380586 LON**

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

AT TOTAL DEPTH: **Same**

14. DATE SPUDDED: **3/20/2009** 15. DATE T.D. REACHED: **4/1/2009** 16. DATE COMPLETED: **4/1/09** ABANDONED READY TO PRODUCE

18. TOTAL DEPTH: MD **2,376**
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)
PEX

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	2,048		710 sx		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	2,002							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
2048 - 2376			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			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:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

Active Water Disposal

RECEIVED

FEB 08 2010

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.)

No gas

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)
				Green River	2,086
				Mahogany	2,761

35. ADDITIONAL REMARKS (Include plugging procedure)

This well is an active salt water disposal well.

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

NAME (PLEASE PRINT) Mary A. Maestas TITLE Regulatory Assistant
 SIGNATURE *Mary A. Maestas* DATE 2/4/2010

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: EOG Resources, Inc

Well Name: Hoss 901-36

API No: 43-047-50290 Lease Type: Federal

Section 36 Township 08S Range 22E County Uintah

Drilling Contractor Craig's Roustabout Service Rig # Bucket

SPUDDED:

Date 03/20/09

Time 5:30 PM

How Dry

Drilling will Commence: _____

Reported by Jerry Barnes

Telephone # 435-828-1720

Date 03/23/2009 Signed RM



43-047-50296
36 OS 22e

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

Certified Mail
7010 1670 0001 2225 8651

February 14, 2011

United States Environmental Protection Agency
Region 8
Attn: Nathan Wisner
Mail Stop: 8ENF-UFO
1595 Wynkoop Street
Denver, CO 80202

RECEIVED
FEB 17 2011

DIV. OF OIL, GAS & MINING

RE: Chapita Wells Unit 550-30N Natural Buttes Unit 21-20B
 EPA Permit No. UT20980-06509 EPA Permit No. UT20623-03708

 Chapita Wells Unit SWD 2-29 Hoss SWD 901-36
 EPA Permit No. UT 21049-07108 EPA Permit No. UT21157-07865

 Hoss SWD 903-36 Hoss SWD 904-36
 EPA Permit No. UT21158-07866 EPA Permit No. UT21159-07867

 Hoss SWD 905-31 Hoss SWD 906-31
 EPA Permit No. UT21160-07868 EPA Permit No. UT21161-07869

 Hoss SWD 907-31
 EPA Permit No. UT21162-07870

Dear Mr. Wisner:

Please find enclosed the Annual Disposal/Injection Well Monitoring Report (EPA Form 7520-11) for the above referenced wells. As requested, I have enclosed a copy of the water analysis for the water that we inject into each well. The water that is injected into the Chapita Wells Unit 550-30N and Chapita Wells Unit SWD 2-29 wells is pumped from the same facility located at the Chapita Wells 550-30N well site. All of the produced water that is injected into the six Hoss disposal wells is pumped from a single disposal facility (Hoss SWD Facility). We received the authorization to inject into the Hoss SWD 906-31 well on January 14, 2010. It was the last approval that we needed to operate the facility. We commenced injection from the Hoss SWD facility to all 6 Hoss SWD wells on that date. I have included a copy of the water analysis for that facility as well. The produced water that is injected into the NBU 21-20B comes from its own facility. I have also included a copy of the water analysis for that facility.



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

We ran the required Temperature Logs on the Chapita Wells Unit 1125-29 (AOR well for the Chapita Wells Unit SWD 2-29 well), Chapita Wells Unit 47-30 (AOR well for the Chapita Wells Unit 550-30N SWD), and the Chapita 550-30N SWD and submitted logs in December. They are required on an annual basis. We are also required to run Temperature logs for the AOR wells associated with the six Hoss Disposal Wells and pressure surveys on the six disposal wells. I have included copies of the Temperature logs for the AOR wells listed below and the results of the pressure surveys for the disposal wells (see table).

Well	Hoss 901	Hoss 903	Hoss 904	Hoss 905	Hoss 906	Hoss 907
Fluid level	Surface	Surface	Surface	Surface	12 ft.	Surface
Pore Pressure (psig)	934 psig	1029 psig	1119 psig	936 psig	927 psig	912 psig
AOR Well	Hoss 1-36	Hoss 2-36	Hoss 62-36	Federal 23-31	Hoss 8-31	Hoss 8-31
AOR Well	Hoss 10-31	Hoss 5-36		N. Chapita Federal 24-31	Hoss 9-31	
AOR Well	N.Chapita Federal 44-36				N.Chapita Federal 43-31	

I ran pore pressure test on two wells per day for three days. I have digital Excel spreadsheet files of the pore pressure tests from Production Logging Services that I can forward to if you would like (350 pages each in hard copy). We have not started construction on the Coyote SWD 1-16 well (EPA Permit No. UT22165-08747) but we plan to do so soon. If you need any other information from me, I can be reached at (435) 781-9100 (office) or (435) 828-8236 (cell).

Sincerely,

Ed Forsman
Production Engineering Advisor
EOG Resources – Vernal Operations

Attachments

cc: State of Utah-Division of Oil, Gas & Mining
BLM - Vernal Field Office
Jim Schaefer – Denver Office
Dave Long – Big Piney Office

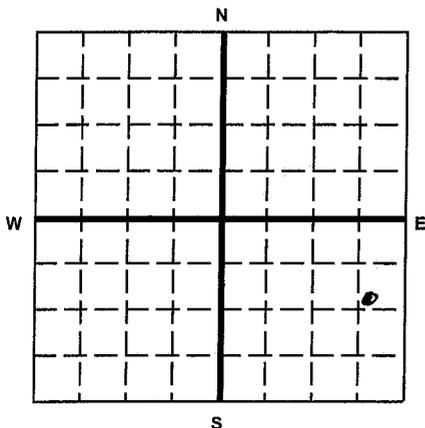


United States Environmental Protection Agency
Washington, DC 20460

ANNUAL DISPOSAL/INJECTION WELL MONITORING REPORT

Name and Address of Existing Permittee EOG Resources, Inc. 1060 East Highway 40 Vernal, UT 84078	Name and Address of Surface Owner Bureau of Land Management 170 South 500 East Vernal UT 84078
---	---

Locate Well and Outline Unit on Section Plat - 640 Acres



State Utah	County Uintah County	Permit Number UT21157-07865
----------------------	--------------------------------	---------------------------------------

Surface Location Description
 N 1/4 of E 1/4 of S 1/4 of E 1/4 of Section 36 Township 08S Range 22E

Locate well in two directions from nearest lines of quarter section and drilling unit

Surface
 Location 135 ft. frm (N/S) SL Line of quarter section
 and 467 ft. from (E/W) EL Line of quarter section.

WELL ACTIVITY <input checked="" type="checkbox"/> Brine Disposal <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Hydrocarbon Storage	TYPE OF PERMIT <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Area Number of Wells: 1
Lease Name: HOSS Well Number: HOSS SWD 901-36	

MONTH	YEAR	INJECTION PRESSURE		TOTAL VOLUME INJECTED		TUBING -- CASING ANNULUS PRESSURE (OPTIONAL MONITORING)	
		AVERAGE PSIG	MAXIMUM PSIG	BBL	MCF	MINIMUM PSIG	MAXIMUM PSIG
January-2010		22	29	34106	0	0	0
February-2010		42	80	59056	0	0	0
March-2010		52	111	74433	0	0	0
April-2010		60	130	78986	0	0	0
May-2010		58	83	66511	0	0	0
June-2010		64	78	62438	0	0	0
July-2010		65	76	63350	0	0	0
August-2010		78	144	74584	0	0	0
September-2010		70	85	88106	0	0	0
October-2010		74	86	87816	0	0	0
November-2010		84	99	75028	0	0	0
December-2010		102	185	77230	0	0	0

Certification

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title (Please type or print) Ed Forsman - Production Engineering Advisor	Signature 	Date Signed 02/11/11
--	----------------------	--------------------------------

PAPERWORK REDUCTION ACT

The public reporting and record keeping burden for this collection of information is estimated to average 25 hours annually for operators of Class I wells and 5 hours annually for operators of Class II wells. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.



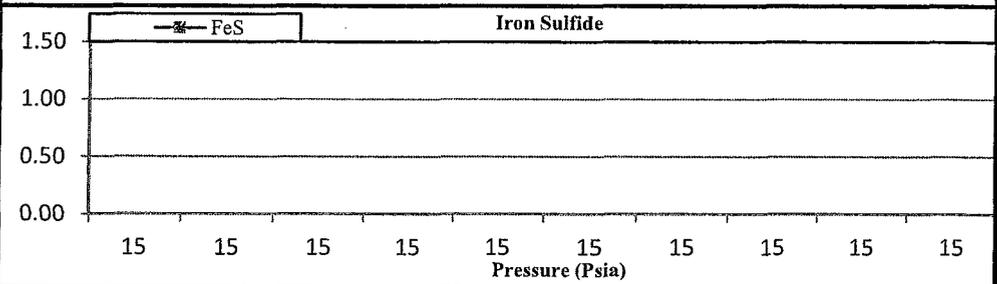
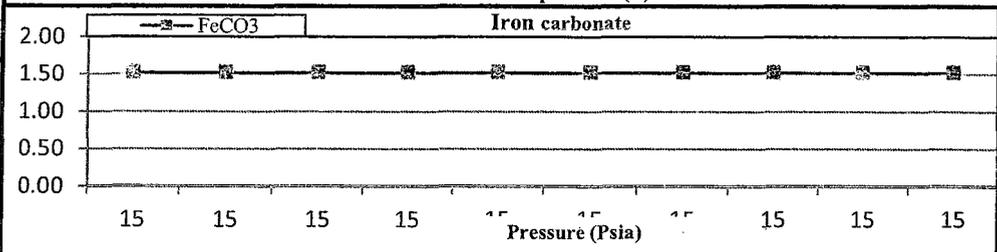
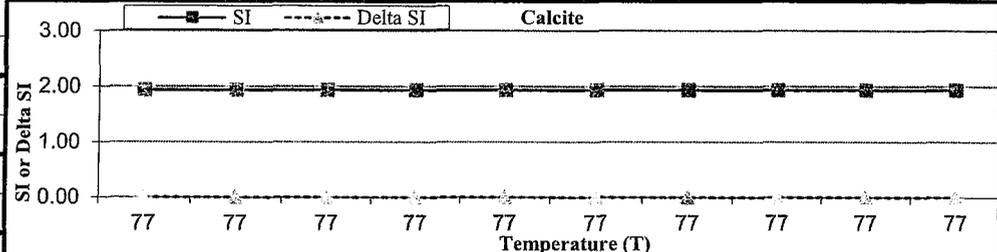
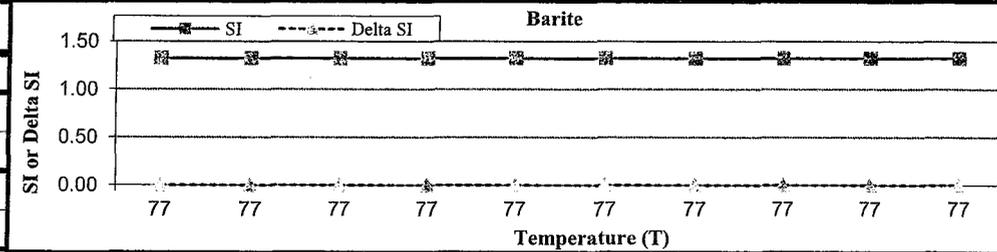
1465 East 1650 south Vernal UT 84078 (435) 789-2069 www.nalco.com

Water Analysis Report

Field : EOG	Sample Date : 1/11/2011
County :	Formation :
Location : Hoss SWD	Rock Type :
Lab ID :	Depth :
Comments :	Analysed Date: 1/13/2011

CATIONS	mg/l	Measured	Calculated	ANIONS	mg/l
Potassium	78.8	Total Dissolve Solid	26942.07	Sulfate	40.0
Sodium	8,860.5	Total Hardness	1268.40	Chloride	17,000.0
Calcium	406.5	PH	8.20	Carbonate	0.0
Magnesium	61.5	Total H2S aq	0.00	Bicarbonate	1,159.0
Iron	2.8	Manganese	0.47	Bromide	0.0
Barium	28.4	PO4 Residual	0.00	Organic Acids	0.0
Strontium	31.2	SRB Vials Turned	0.00	Hydroxide	0.0
SUM +	9,469.7	APB Vials Turned	0.00	SUM -	18,199.0

Initial(BH)	Final(WH)
Saturation Index values	
Calcite (CaCO₃)	
1.93	1.93
Barite (BaSO₄)	
1.32	1.32
Halite (NaCl)	
-2.64	-2.64
Gypsum	
-2.21	-2.21
Hemihydrate	
-2.97	-2.97
Anhydrite	
-2.46	-2.46
Celestite	
-1.65	-1.65
Iron Sulfide	
0.00	0.00
Zinc Sulfide	
0.00	0.00
Calcium fluoride	
0.00	0.00
Iron Carbonate	
1.52	1.52
Inhibitor needed (mg/L)	
Calcite	NTMP
0.32	0.32
Barite	BHPMP
0.04	0.04



Lab Manager: Andrea Craig
Analysis by:

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
UTU-56960

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
Badlands

8. WELL NAME and NUMBER:
Hoss 901-36 SWD

9. API NUMBER:
43-047-50290

10. FIELD AND POOL, OR WILDCAT
Natural Buttes

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NESE 36 8S 22E S

12. COUNTY
Uintah

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER **SWD**

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

2. NAME OF OPERATOR:
EOG Resources, Inc.

3. ADDRESS OF OPERATOR: **600 17th St., Suite 1000N** CITY **Denver** STATE **CO** ZIP **80202**

PHONE NUMBER: **(303) 824-5526**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **1355' FSL & 467' FEL 40.075681 LAT 109.380586 LON**

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

AT TOTAL DEPTH: **Same**

14. DATE SPUDDED: **3/20/2009**

15. DATE T.D. REACHED: **4/1/2009**

16. DATE COMPLETED: **4/1/2009** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4844' NAT GL

18. TOTAL DEPTH: MD **2,376** 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)
PEX

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	2,048		710 sx		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	2,002							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
2048 - 2376			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			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:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
- SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:
Active Water Disposal

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FEB 08 2010

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.)

No gas

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)
				Green River	2,086
				Mahogany	2,761

35. ADDITIONAL REMARKS (Include plugging procedure)

This well is an active salt water disposal well.

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

NAME (PLEASE PRINT) Mary A. Maestas TITLE Regulatory Assistant
 SIGNATURE Mary A. Maestas DATE 2/4/2010

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-56960
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EOG Resources, Inc.		8. WELL NAME and NUMBER: Hoss 901-36 SWD
3. ADDRESS OF OPERATOR: 1060 East Highway 40 Vernal UT 84078		9. API NUMBER: 43-047-50290
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1355' FSL & 467' FEL 40.075681 LAT 109.380586 LON		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 8S 22E 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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Well Spud</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

The referenced well was spud on 3/20/2009.

NAME (PLEASE PRINT) <u>Mickenzie Thacker</u>	TITLE <u>Operations Clerk</u>
SIGNATURE <u><i>Mickenzie Thacker</i></u>	DATE <u>3/25/2009</u>

(This space for State use only)

RECEIVED
MAR 30 2009



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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

MAR 12 2009

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

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

Re: FINAL Permit
EPA UIC Permit UT21157-07865
Well: Hoss SWD 901-36
NESE Sec. 36-T8S-R22E
Uintah County, UT
API # 43-047-50290

Dear Mr. Forsman:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed Hoss SWD 901-36 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on DEC 26 2008. 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 the 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. Upon request, hard copies of the EPA forms and guidances can be provided.

RECEIVED

MAR 23 2009



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 Patricia Pfeiffer of my staff at (303) 312-6271, or toll-free at (800) 227-8917, ext. 312-6271.

FOR RECORD ONLY

Sincerely,

Eddie A. Sierra
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Uintah & Ouray Business Committee
Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice Chairwoman
Steven Cesspooch, Councilman
Phillip Chimbraus, Councilman
Frances Poowegup, Councilwoman

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining

Matt Baker
Fluid Minerals Engineering Office
BLM - Vernal Office

Stan Perkes
Solid Minerals Office
Bureau of Land Management

with enclosures:

Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakulku
Director, Natural Resources
Ute Indian Tribe



**UNDERGROUND INJECTION CONTROL PROGRAM
PERMIT**

PREPARED: February 2009

Permit No. UT21157-07865

Class II Salt Water Disposal Well

**Hoss SWD 901-36
Uintah County, UT**

Issued To

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

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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:

Hoss SWD 901-36
467' FEL & 1355' FSL, NESE S36, T8S, R22E
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: **MAR 12 2009**

Effective Date **MAR 12 2009**



Eddie A. Sierra
Acting 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.

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.

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, within the Natural Buttes field.

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 9.6 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

All depths are based on surrounding well data and estimated. After the well is completed, a schematic with correlated depths will be submitted to EPA.

FORMATION DATA:

- * Base of USDWs: Uinta Formation at 1844'
- * Confining Zone: Green River Formation intervals between 2086'-2150' and 2359'-2453'
- * Permitted Injection Zone: Birds Nest member of the Green River Formation between approximately 2208'-2376'

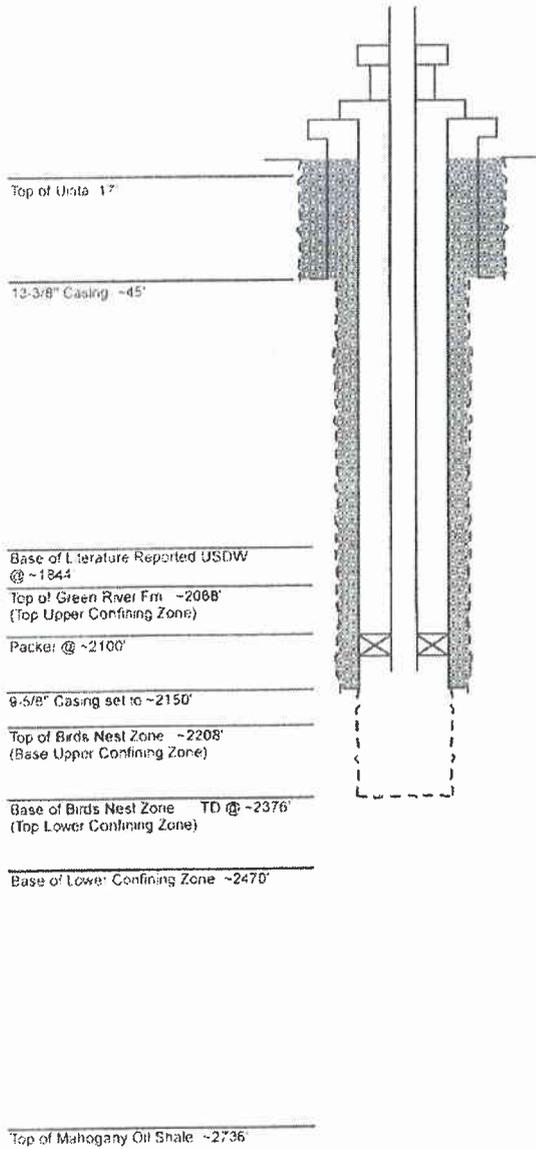
WELL CONSTRUCTION:

Conductor of 13-3/8" will be set to a depth of 45' in 17-1/2" hole. The conductor will be of grade H-40, 48 lb/ft.

One string of casing will be set and cemented to the surface. The surface casing will be 9 5/8", 36 lb./ft., J-55 set at approximately 2150' inside a 12 1/4" hole.

PROPOSED WELL BORE DIAGRAM

Operator: EOG Resources, Inc
 Field Name: Natural Buttes
 Well Name: Hoss SWD 901-36
 Location: 1355' FSL & 467' FEL (NESE) Sec 36-T8S-R22E
 County: Uintah
 API#: Will be issued by State of Utah
 Date: 11/10/2008



GL: 4844'

KB: 4861'

Spud Date: ASAP after approval

Completion Date: ASAP after approval

Conductor Casing: Drill a 17-1/2" hole w/ air to 45' & run 13-3/8", 48# H-40 csg to ~45' w/ cmt to surface

Surface Casing: Drill a 12-1/4" hole w/ air to ~2150' & run 9-5/8", 36 0# J-55 csg to ~2150' w/ 634 ex Class 'G' cmt to surface.

Original Completion

Formation: Green River (Birds Nest Zone)

Perforations: Open Hole ~2150' to ~2376'

Tubing: 3-1/2", 7 7#, J-55 @ to be determined

Packer: To be placed w/in 100' of top perforation

PBTD: _____

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

TD: ~2376'

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DRAFT PERMIT

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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: Hoss SWD 901-36	
TYPE OF LOG	DATE DUE
Open Hole Log	Injection well: Prior to injection; prior to running casing
TEMP	AoR WELL Hoss 1-36 Prior to receiving authorization to inject and at least once annually thereafter. Log should be run from 100 feet below lower confining zone to surface.
TEMP	AoR WELL North Chapita Federal 44-36: Prior to receiving authorization to inject and at least once annually thereafter. Log should be run from 100 feet below lower confining zone to surface.
TEMP	AoR WELL Hoss 10-31: Prior to receiving authorization to inject and at least once annually thereafter. Log should be run from 100 feet below lower confining zone to surface.
TEMP	Injection Well: Prior to injection; if CBL does not show adequate cement
RATS	Injection Well: Prior to injection; if CBL does not show adequate cement
Porosity	Injection Well: Prior to injection; prior to running casing
Caliper	Injection Well: Prior to injection; prior to running casing
CBL/VDL/GAMMA RAY	Injection Well: Prior to injection; after running casing

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: Hoss SWD 901-36

TYPE OF TEST	DATE DUE
Standard Annulus Pressure	Injection Well: Prior to authorization to inject and at least once every five (5) years after the last successful demonstration of Part I Mechanical Integrity
Step Rate Test	Injection Well: Prior to receiving authorization to commence injection
Permeability	Injection Well: Prior to injection
Injectate Sample	Inj. Well: 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) and analyzed for hydrocarbon content via the method found in SOB accompanying permit.
Injection Zone Water Sample	Injection Well: Prior to receiving authorization to commence injection, a representative isolated sample of injection zone formation water will be tested for naturally occurring hydrocarbons via the approved method found in the SOB accompanying permit.
Pore Pressure	All AoR wells: Prior to receiving authorization to begin injection and at least once annually to monitor the pressure buildup within the Bird's Nest injection formation and at least once annually thereafter
Injection Zone Water Sample	Injection well: Prior to receiving authorization to commence injection, an isolated representative sample (stabilized specific conductivity from three successive swab runs); analyzed for TDS, pH, specific gravity, and specific conductivity
Pore Pressure	Injection Well: Prior to receiving authorization to begin injection and at least once annually to monitor the pressure buildup within the Bird's Nest injection formation and at least once annually thereafter

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)
Hoss SWD 901-36	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: Hoss SWD 901-36	APPROVED INJECTION INTERVAL (KB, ft)		FRACTURE GRADIENT (psi/ft)
	TOP	BOTTOM	
FORMATION NAME			
Green River-Bird's Nest Member	2,208.00	2,376.00	0.579

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.

OBSERVE WEEKLY AND RECORD AT LEAST ONCE EVERY THIRTY DAYS	
OBSERVE AND RECORD	Injection pressure (psig)
	Annulus pressure(s) (psig)
	Injection rate (bbl/day)
	Fluid volume injected since the well began injecting (bbls)
ANNUALLY	
ANALYZE	Injected fluid total dissolved solids (mg/l)
	Injected fluid specific gravity
	Injected fluid specific conductivity
	Injected fluid pH
ANNUALLY	
REPORT	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

Operator will file and obtain approval for a detailed P&A plan for approval prior to initiating any P&A operations. Typical P&A operations may be as follows:

Trip out of hole with injection tubing and injection packer.

Set cast iron cement retainer (CICR) at +/- 2100', which is 50' above the top of the open hole Birds Nest injection interval at 2150'.

Go in hole with tubing and squeeze a sufficient volume of cement to fill the open hole. Cement the top of the CICR to 1744' (100' above base of USDW of 1844') with approximately 61 sacks of Class G cement with 10% bentonite. Trip out of hole with tubing.

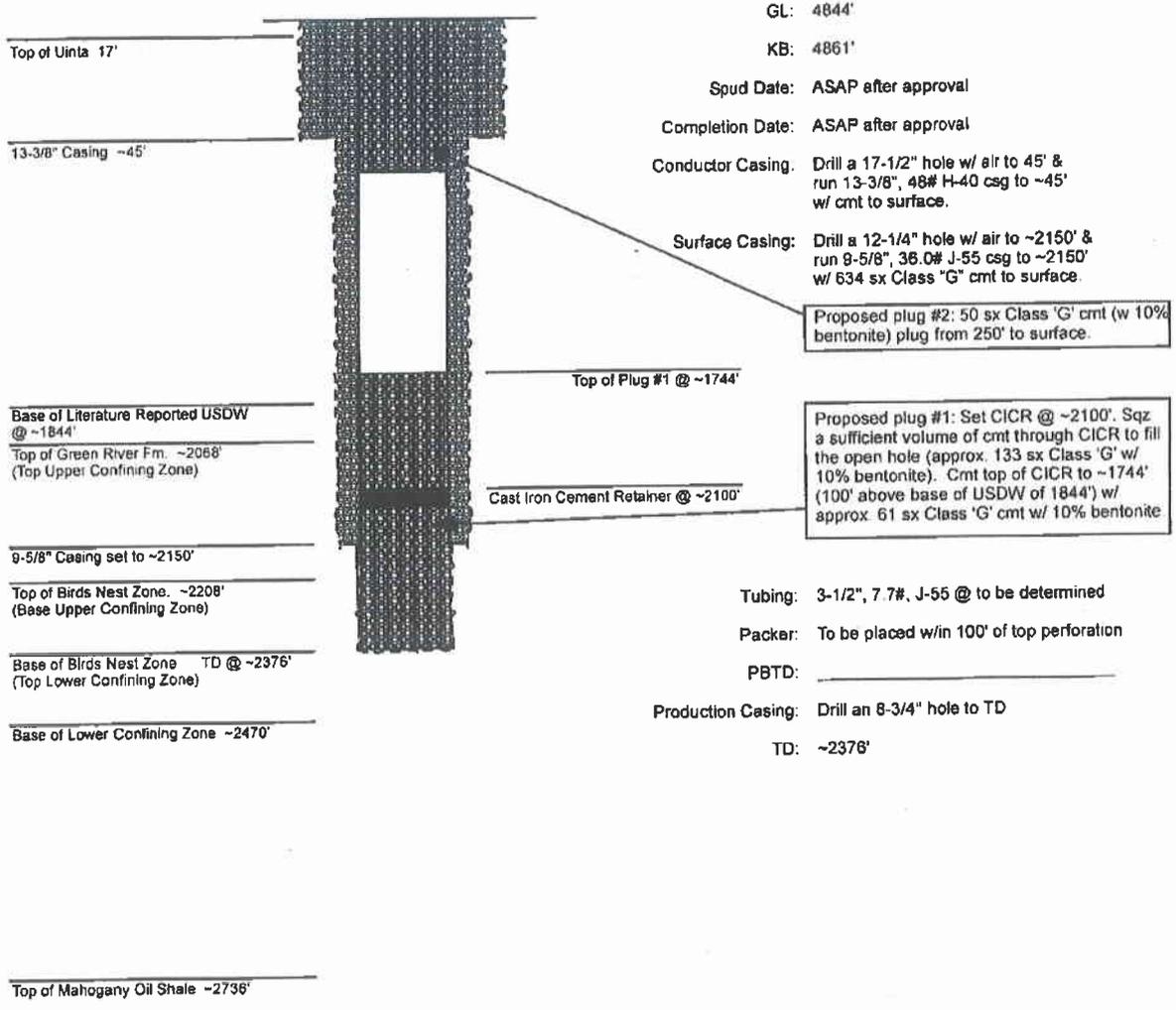
Go in hole with tubing and pump one cement plug from 250' to surface with 50 sacks of Class G cement (with 10% bentonite).

Remove wellhead. Install plug and abandon marker. Remove all equipment and reclaim location.

A plugging procedure will be submitted and approval obtained with the appropriate regulatory agencies before any plugging operations are conducted.

PROPOSED WELL BORE PLUG & ABANDONMENT DIAGRAM

Operator: EOG Resources, Inc.
 Field Name: Natural Buttes
 Well Name: Hoss SWD 901-36
 Location: 1355' FSL & 467' FEL (NESE) Sec 36-T8S-R22E
 County: Uintah
 API#: Will be issued by State of Utah
 Date: 11/10/2008



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DRAFT PERMIT

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APPENDIX F

CORRECTIVE ACTION REQUIREMENTS

ANNUAL TEMPERATURE LOGGING FOR AOR WELLS (Hoss 10-31, North Chapita Federal 44-36, Hoss 1-36):

Wells within the Area of Review (AOR) were typically drilled and completed without running Cement Bond Logs (CBL) to show the quality and top of cement behind the surface casing. For this reason, each well within the Area of Review (AOR) shall undergo annual temperature logging as proof that each well is completed in a manner that prevents fluids within the injection formation from migrating above or below the Birds Nest through pathways behind the AOR well's surface casing.

These logs shall be submitted annually to the Director as part of the Annual Report.

If the results of Temperature logging shows any indication of Bird's Nest formation fluids moving out of zone, injection shall be shut-in and corrective action may be required in order to insure that Bird's Nests fluids remain within the Bird's Nest and do not migrate out of the approved injection zone.

STATEMENT OF BASIS

EOG RESOURCES, INC

**HOSS SWD 901-36
UINTAH COUNTY, UT**

EPA PERMIT NO. UT21157-07865

CONTACT: Patricia Pfeiffer
U. S. Environmental Protection Agency
Ground Water Program, 8P-W-GW
1595 Wynkoop Street
Denver, Colorado 80202-1129
Telephone: 1-800-227-8917 ext. 312-6271

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 or 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

August 22, 2007

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

Hoss SWD 901-36
467' FEL & 1355' FSL, NESE S36, T8S, R22E
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.

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.

TABLE 1.1		
WELL STATUS / DATE OF OPERATION		
NEW WELLS		
Well Name	Well Status	Date of Operation
Hoss SWD 901-36	New	N/A

PART II. Permit Considerations (40 CFR 146.24)

Hydrogeologic Setting

THE UINTA FORMATION (0'-2068')

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 (2068'- 5071')

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.

BIRDS NEST MEMBER OF THE GREEN RIVER FORMATION (2208'-2376')

The Bird's Nest member (the proposed injection interval) occurs within the Green River formation. The Bird's Nest occurs at a depth between 2208'-2376' 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 (5071'-7551')

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 is 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 MESAVERDE FORMATION (7551'-9721')

Continental deposits of shale, sandstone, and coal beds. Interfingers with the upper part of the underlying Mancos Shale and may interfinger with the overlying Currant 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.

(Reference: Base of Moderately Saline Ground Water in the Uinta Basin, UT. Technical Publication No.92; State of Utah-Department of Natural Resources; USGS Open File Report 87-394.)

Geologic Setting (TABLE 2.1)

**TABLE 2.1
GEOLOGIC SETTING
Hoss SWD 901-36**

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Lithology
Uintah	0	2,068	< 10,000	Calcareous shale, some limestone, claystone, siltstone, and sandstone
Green River	2,068	5,071	> 10,000	mostly lacustrine shale that contains some limestone, marlstone, and siltstone
Green River-Bird's Nest Aquifer	2,208	2,376	10,000	interbedded porous and permeable sandstones with nahcolite modules set in marlstone
Mahogany Bench	2,736	3,564		Oil Shale
Wasatch	5,071	7,551	3,000 - 35,000	shale and claystone interbedded with conglomerate and sandstone
Mesa Verde	7,551	9,721	10,000 - 35,000	interbedded sandstone, siltstone, and shale with minor coal beds

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 proposed injection into the Bird's Nest formation is of concern to nearby oil-shale mining interests in the area.

The Bird's Nest member of the Green River formation, proposed for injection, lies approximately

200 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."

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 needed to determine a fracture pressure.

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.

The operator will collect a water sample from the injection zone and have a background analysis for hydrocarbon content prior to injection.

TABLE 2.2
INJECTION ZONES
Hoss SWD 901-36

Formation Name	Top (ft)	Base (ft)	TDS (mg/l)	Fracture Gradient (psi/ft)	Porosity	Exempted?*
Green River-Bird's Nest Member	2,208	2,376		0.579		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 2068' to 2150'. The upper confining zone consists of interbedded impermeable lacustrine shales, impermeable marlstones and low porosity siltstones. Density porosities in the siltstones (assuming 2.65 g/cc matrix density) range from 3 to 6%.

The lower confining zone is located between the depths of 2376' to 2470'. The lower confining zone consists of interbedded impermeable calcareous shales with minor amounts of low porosity siltstones. Lower confining zone needed to protect underlying Mahogany Shale.

TABLE 2.3
CONFINING ZONES
Hoss SWD 901-36

Formation Name	Formation Lithology	Top (ft)	Base (ft)
Green River-upper confining zone	mostly lacustrine shale that contains some limestone, marlstone, and siltstone	2,068	2,150
Green River-lower confining	mostly lacustrine shale that contains some limestone, marlstone, and siltstone	2,376	2,470

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 predicted from State of Utah Technical Publication No. 92 titled "Base of Moderately Saline Ground Water in the Uinta Basin, Utah," U.S. Geologic Survey Open-File Report 87-394. This prediction identified the depth of 1844' below ground level as the

probable base of USDWs in the area. The Birds Nest exists above this depth, however, fluid samples taken from the Birds Nest in the vicinity of this proposed injection well show that the Birds Nest contains water greater than 10,000 mg/l for total dissolved solids.

TABLE 2.4
UNDERGROUND SOURCES OF DRINKING WATER (USDW)
Hoss SWD 901-36

Formation Name	Formation Lithology	Top (ft)	Base (ft)	TDS (mg/l)
Uintah (Tech Pub 92)	calcareous shale, some limestone, claystone, siltstone, and sandstone	0	1,844	< 10,000

PART III. Well Construction (40 CFR 146.22)

TABLE 3.1
WELL CONSTRUCTION REQUIREMENTS
Hoss SWD 901-36

Casing Type	Hole Size (in)	Casing Size (in)	Cased Interval (ft)	Cemented Interval (ft)
surface	12.25	9.63	0 - 2,150	0 - 2,150
conductor	17.50	13.38	0 - 45	0 - 45

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 ft 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).

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.

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)

After performing volumetric modeling, it was determined that the projected volume of injected fluids will travel beyond the original 1/4 mile area of review. Currently, the operator is developing a monitoring plan in an attempt to verify the location of the injected fluid, the pressure front, and demonstrate that injected fluids are confined to the defined injection zone. The monitoring plan will be submitted to EPA for approval and then a major modification to this Permit will occur.

Temperature Logging for Area of Review wells:

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 routine problems have occurred while attempting to cement casing strings across the Bird's Nest. For wells designed with surface casing covering the Bird's Nest, a typical cement job involves pumping a volume of cement calculated to circulate cement to the surface. Once primary pumping is complete, pumping ceases and the level of the cement is monitored at the surface. While monitoring, cement typically falls back into the well, presumably into the Bird's Nest. Cement is then added to the annulus at the surface (top job) in several stages until the cement stops falling. Since surface casing strings are rarely logged with cement bond logging tools, there is no direct measurement of the quality of cement behind these casing strings.

In order to verify that these wells are cased and cemented in a manner to prevent fluid movement from the injection formation into USDWs, these Area of Review wells are required to undergo annual Temperature logging. Temperature logs will be conducted after the Area of Review 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 formation through channels behind casing. The results will be evaluated annually to determine if the requirement can be removed.

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

There are no gilsonite veins or drinking water wells in the nearby area.

The logging program requirements are discussed in the Permit in Appendix B - Logging and Testing Requirements, and in Appendix D - Monitoring and Reporting Parameters.

**TABLE 4.1
AOR AND CORRECTIVE ACTION**

Well Name	Type	Status (Abandoned Y/N)	Total Depth (ft)	TOC Depth (ft)	CAP Required (Y/N)
Hoss 10-31	Producer	No	9,890	2,800	Yes
Hoss 1-36	Producer	No	9,890	2,800	Yes
Hoss 2-36	Producer	No	9,905	0	No
North Chapita Federal 44-36	Producer	No	8,564	738	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.

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.

There is no corrective action being required prior to the well receiving authorization to begin injection.

Three of the area of review (AoR) wells require demonstration that fluid movement behind pipe is not occurring. This corrective action plan is incorporated into APPENDIX B. If the results of any of the temperature logging show any indication of Bird's Nest formation fluids moving out of zone, injection shall be shut-in and corrective action will be required in order to insure that Bird's Nests fluids remain within the Bird's Nest and do not migrate out of the improved injection zone.

PART V. Well Operation Requirements (40 CFR 146.23)

TABLE 5.1
INJECTION ZONE PRESSURES
Hoss SWD 901-36

Formation Name	Depth Used to Calculate MAIP (ft)	Fracture Gradient (psi/ft)	Initial MAIP (psi)
Green River-Bird's Nest Member	2,208	0.579	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) and analyzed for hydrocarbon content.

In addition, upon completion of the new injection well and prior to receiving authorization to commence with injection operations, a one time representative isolated sample of the injection zone formation water will be tested 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, iso-pentane 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 DCM. The resulting extract will be analyzed by gas chromatography. These results will be submitted to the appropriate offices of the BLM and EPA within thirty days of the completion of the specified laboratory analyses.

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.

Similar injection wells completed into the Birds Nest have been unable to establish a fracture pressure. These wells initially take fluid on a vacuum, and pressure buildup within the Birds Nest does not occur during the step-rate test. For that reason, the initial injection pressure is set at 300

psi (equivalent to a formation fracture gradient of 0.579 psi/ft). The 0.579 psi/ft, 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 Birds Nest.

Since these wells initially operate on a vacuum, little is known about the Birds Nest as an injection formation (initial water level occurs approx. 300' below ground level). The operator is required to monitor the pressure in the Birds 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)

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.

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.

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.

Possible conflict with oil-shale mining in the area:

The Bird's Nest member of the Green River formation, proposed for injection, lies approximately 200 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 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.

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.

Temperature Logging at the location of the Area of Review wells:

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 routine problems have occurred while attempting to cement casing strings across the Bird's Nest. For wells designed with surface casing covering the Bird's Nest, a typical cement job involves pumping a volume of cement calculated to circulate cement to the surface. Once primary pumping is complete, pumping ceases and the level of the cement is monitored at the surface. While monitoring, cement typically falls back into the well, presumably into the Bird's Nest. Cement is then added to the annulus at the surface (top job) in several stages until the cement stops falling. Since surface casing strings are rarely logged with cement bond logging tools, there is no direct measurement of the quality of cement behind these casing strings.

In order to verify that these wells are cased and cemented in a manner to prevent fluid movement from the injection formation into USDWs, these Area of Review wells are required to undergo annual Temperature logging. Temperature logs will be conducted after the Area of Review 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 formation through channels behind casing.

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

The logging program requirements are discussed in the Permit in Appendix B - Logging and Testing Requirements, and in Appendix D - Monitoring and Reporting Parameters.

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 9.6 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.

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, received May 28, 2008

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