

## WATER WELL RECORD

## Form WWC-5

Division of Water Resources; App. No.

CNG 21-1

20080093

<b>1 LOCATION OF WATER WELL:</b> County: <u>Morton</u>		Fraction <u>NW</u> <u>SW</u> 1/4 <u>SE</u> 1/4 NE 1/4		Section Number <u>21</u>		Township Number T <u>34</u> S		Range Number R <u>42</u> E <u>W</u>															
Distance and direction from nearest town or city street address of well if located within city? <u>Elkhart: Jct Hwy 56 &amp; 27, N on Hwy 27 4.1 to Rd F E 1 N .8 W .1 and N into</u>				Global Positioning Systems (decimal degrees, min. of 4 digits) Latitude: _____ Longitude: _____ Elevation: _____ Datum: _____ Data Collection Method: _____																			
<b>2 WATER WELL OWNER:</b> EOG Resources Inc. RR#, St. Address, Box # : <u>3817 NW Expressway Ste. 500</u> City, State, ZIP Code : <u>Oklahoma City, OK 73112-1483</u>																							
<b>3 LOCATE WELL'S LOCATION WITH AN "X" IN SECTION BOX:</b> N <table border="1" style="width:100px; height:100px; text-align: center; margin: 10px auto;"><tr><td></td><td></td><td></td></tr><tr><td>--NW--</td><td><b>X</b></td><td>--NE--</td></tr><tr><td></td><td></td><td></td></tr><tr><td>--SW--</td><td></td><td>--SE--</td></tr><tr><td></td><td></td><td></td></tr></table> S					--NW--	<b>X</b>	--NE--				--SW--		--SE--				<b>4 DEPTH OF COMPLETED WELL</b> ..... <u>230</u> ..... ft.  Depth(s) Groundwater Encountered (1)..... <u>70</u> ..... ft. (2)..... ft. (3)..... ft. WELL'S STATIC WATER LEVEL..... <u>70</u> ..... ft. below land surface measured on mo/day/yr. <u>4-12-08</u> Pump test data: Well water was..... <u>75</u> ..... ft. after..... <u>1</u> ..... hours pumping..... <u>8.0</u> ..... gpm Est. Yield. <u>8.0</u> gpm: Well water was..... ft. after..... hours pumping..... gpm WELL WATER TO BE USED AS: 5 Public water supply 8 Air conditioning 11 Injection well 1 Domestic 3 Feedlot <u>6</u> Oil field water supply 9 Dewatering 12 Other (Specify below) 2 Irrigation 4 Industrial 7 Domestic (lawn & garden) 10 Monitoring well  Was a chemical/bacteriological sample submitted to Department? Yes ..... No <u>X</u> .....; If yes, mo/day/yr Sample was submitted..... Water well disinfected? Yes <u>X</u> ..... No .....						
--NW--	<b>X</b>	--NE--																					
--SW--		--SE--																					
<b>5 TYPE OF CASING USED:</b> 1 Steel 3 RMP (SR) 5 Wrought Iron 8 Concrete tile <u>2</u> PVC 4 ABS 7 Fiberglass Blank casing diameter ..... <u>6</u> ..... in. to ..... <u>100</u> ..... ft., Diameter..... in. to ..... ft., Diameter..... in. to ..... ft. Casing height above land surface..... <u>24</u> ..... in., Weight..... <u>4.704</u> ..... lbs./ft. Wall thickness or gauge No. <u>SDR 21.316</u> .....				CASING JOINTS: Glued <u>X</u> ..... Clamped..... Welded..... Threaded.....																			
TYPE OF SCREEN OR PERFORATION MATERIAL: 1 Steel 3 Stainless Steel 5 Fiberglass <u>7</u> PVC 9 ABS 11 Other (Specify) ..... 2 Brass 4 Galvanized Steel 6 Concrete tile 8 RM (SR) 10 Asbestos-Cement 12 None used (open hole)				SCREEN OR PERFORATION OPENINGS ARE: 1 Continuous slot 3 Mill slot 5 Gauzed wrapped 7 Torch cut 9 Drilled holes 11 None (open hole) 2 Louvered shutter 4 Key punched 6 Wire wrapped <u>8</u> Saw Cut 10 Other (specify) .....																			
SCREEN-PERFORATED INTERVALS: From..... <u>100</u> ..... ft. to ..... <u>220</u> ..... ft., From..... ft. to ..... ft. From..... ft. to ..... ft., From..... ft. to ..... ft.				GRAVEL PACK INTERVALS: From..... <u>60</u> ..... ft. to ..... <u>220</u> ..... ft., From..... ft. to ..... ft. From..... ft. to ..... ft., From..... ft. to ..... ft.																			
<b>6 GROUT MATERIAL:</b> <u>1</u> Neat cement 2 Cement grout 3 Bentonite <u>4</u> Other ..... <u>hole plug</u> ..... Grout Intervals: From..... <u>1</u> ..... ft. to ..... <u>25</u> ..... ft., From..... ft. to ..... ft., From..... ft. to ..... ft. What is the nearest source of possible contamination: 1 Septic tank 4 Lateral lines 7 Pit privy 10 Livestock pens 13 Insecticide Storage 16 Other (specify below) 2 Sewer lines 5 Cess pool 8 Sewage lagoon 11 Fuel storage 14 Abandoned water well 3 Watertight sewer lines 6 Seepage pit 9 Feedyard 12 Fertilizer Storage <u>15</u> Oil well/gas well Direction from well? <u>Northeast</u> How many feet? <u>2000</u>																							
FROM		TO		LITHOLOGIC LOG		FROM		TO		PLUGGING INTERVALS													
0		4		Topsoil																			
4		19		Sandy clay/clay																			
19		25		Course sand																			
25		52		Sand and clay streaks																			
52		73		Caliche clay																			
73		91		Sandstone/clay																			
91		105		Red and tan clay																			
105		128		Sandstone and tan clay																			
128		223		Sandstone and clay streaks																			
223		230		Red clay																			
<b>7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:</b> This water well was <u>1</u> constructed, (2) reconstructed, or (3) plugged under my jurisdiction and was completed on (mo/day/year) <u>4-12-08</u> and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. <u>KWWCL430</u> .. This Water Well Record was completed on (mo/day/year) <u>4-12-08</u> under the business name of <u>Howard Drilling Box 806 Beaver, OK 73902</u> INSTRUCTIONS: Use typewriter or ball point pen. PLEASE PRESS FIRMLY and PRINT clearly. Please fill in blanks, underline or circle the correct answers. Send top three copies to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5522. Send one to WATER WELL OWNER and retain one for your records. Fee of \$5.00 for each constructed well. Visit us at <a href="http://www.kdhe.state.ks.us/geo/waterwells">http://www.kdhe.state.ks.us/geo/waterwells</a> .																							



**KANSAS DEPARTMENT OF HEALTH & ENVIRONMENT**

**ASSIGNMENT OF WATER WELL TO LANDOWNER**

PERMIT NO. 20080093

This agreement between EOG Resources, Inc.  
3817 NW Expressway, Suite 500, Oklahoma City, OK 73112  
USDA, Forest Service (Operator name and address)  
Cimarron National Grassland  
and P.O. Box 300, Elkhart, Kansas 67950  
(Landowner name and address)

Certifies that said Landowner hereby accepts the water well drilled as a temporary source of water for an oil well drilled for Operator located approximately 4100' FSL & 2250' FEL in Section 21 Township 34S Range 42W E/W of MORTON County, Kansas. Landowner hereby agrees that said water well will be for domestic use only and when no longer needed, agrees to plug the water well in accordance with the State Regulation KAR 28-30-7.

Signed this 30 day of April, 2009.

LANDOWNER: USDA, Forest Service

OPERATOR:

By: Joe F. Hartman 4/30/09  
(Signature) (Date)

Shula Rogers 5-7-09  
(Signature) (Date)

JOE F. Hartman  
(Print)

By: \_\_\_\_\_  
(Agent)

IF ADDITIONAL LANDOWNER:

\_\_\_\_\_  
(Signature) (Date)

\_\_\_\_\_  
(Print)