

District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-101
June 16, 2008

Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Submit to appropriate District Office

HOBBS OCD

MAY 18 2012

☐ AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN,
PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702		RECEIVED ² OGRID Number 7377 ³ API Number 30- 025- 40585
⁴ Property Code 38965	⁵ Property Name Black Bear 36 State	⁶ Well No. 5
⁹ Proposed Pool 2 SWD; Delaware		¹⁰ Proposed Pool 1 WC Red Hills; Bone Spring Upper Shale

⁷ Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
H	36	25S	33E		1420	North	1320	East	Lea

⁸ Proposed Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County

Additional Well Location

¹¹ Work Type Code N	¹² Well Type Code M S	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3318
¹⁶ Multiple N	¹⁷ Proposed Depth 10450	¹⁸ Formation Wolfcamp	¹⁹ Contractor Cactus	²⁰ Spud Date 6/10/12

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17.5	13.375	54.5	975	575	surface
12.25	9.625	40	5000	975	surface
8.75	7	26	10450	810	4500'

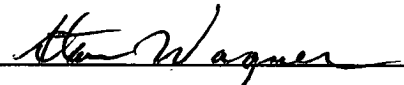
²² Describe the proposed program If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone Describe the blowout prevention program, if any Use additional sheets if necessary.

Double Ram BOPE 5000 psi working pressure 5000 psi test pressure

This well will be used first as a frac monitor well then converted to SWD.

**Permit Expires 2 Years From Approval
Date Unless Drilling Underway**
OIL CONSERVATION DIVISION

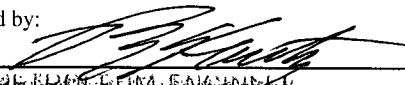
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief

Signature: 
Printed name: **Stan Wagner**
Title: **Regulatory Analyst**

E-mail Address:

Date: **5/16/2012**

Phone: **432-686-3689**

Approved by: 

Title: **PETROLEUM ENGINEER**

Approval Date: **MAY 24 2012**

Expiration Date:

Conditions of Approval Attached ☐

30-025-40585

Permit Information:

HOBBS OCD

Well Name: Black Bear 36 State No. 5

MAY 18 2012

Location:

SL: 1,420' FNL & 1,320' FEL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

RECEIVED

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 975'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,000'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.750"	0'-10,450'	7"	26#	HCL80	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
975'	375	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ surface)
	200	14.8	1.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,000'	775	12.7	2.22	Class C + 2% SMS + 0.8% R-3 + 0.25 pps CelloFlake + 0.005 pps Static Free (TOC @ surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
10,450' TOC @ 4500'	210	10.8	3.675	60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.50% R-21 + 8.00 lb/sk LCM-1
	300	11.8	2.380	50:50:10 Class 'H' + 0.80% FL-52A + 0.50% ASA-301 + 1.30% SMS + 2.00% Salt (2.224 lb/sk) + 0.70% R-21 + 3.00 lb/sk LCM-1 + 0.25 lb/sk Cello Flake
	300	14.2	1.277	50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt (0.962 lb/sk) + 0.05% R-3

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 975'	Fresh - Gel	8.6-8.8	28-34	N/c
975' - 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' - 10,450'	Cut Brine	8.4 - 9.3	28-34	N/c

Black Bear 36 State #5
Lea County, New Mexico

1420' FNL
1320' FEL
Section 8
T-25-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3348.7'
GL: 3318.7'

