

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St. Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

HOBBS OCD

OCT 20 2014

RECEIVED

State of New Mexico

Energy, Minerals & Natural Resources

Oil Conservation Division

1220 S. St. Francis Dr.

Santa Fe, NM 87505

Form C-101
Revised July 18, 2013

☐ 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		² OGRID Number 7377
⁴ Property Code 313638 313812		³ API Number 30-025-42196
⁵ Property Name Hearns 27 State SWD		⁶ Well No. 1WD

⁷ Surface Location

UL- lot 1	Section 27	Township 24S	Range 33E	Lot.Idn	Feet from 2355	N/S Line South	Feet from 400	E/W Line East	County Lea
--------------	---------------	-----------------	--------------	---------	-------------------	-------------------	------------------	------------------	---------------

⁸ Proposed Bottom Hole Location

UL- lot	Section	Township	Range	Lot.Idn	Feet from	N/S Line	Feet from	E/W Line	County
---------	---------	----------	-------	---------	-----------	----------	-----------	----------	--------

⁹ Pool Information

Pool Name SWD; Delaware	Pool Code 96100 ✓
----------------------------	----------------------

Additional Well Information

¹¹ Work Type N	¹² Well Type SWD	¹³ Cable/Rotary	¹⁴ Lease Type State	¹⁵ Ground Level Elevation 3512' GR
¹⁶ Multiple	¹⁷ Proposed Depth 7800	¹⁸ Formation Delaware	¹⁹ Contractor	²⁰ Spud Date 01/01/2015
Depth to Groundwater		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

²¹ Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17.5	13.375	54.5	1235	575	Surface
Interm.	12.25	9.625	40	5100	975	Surface
Production	8.75	7	26	7800	610	4600'

Casing/Cement Program: Additional Comments

--

²² Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Maintenance
Double Ram	3000	3000	

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable		OIL CONSERVATION DIVISION	
Signature: <i>Stan Wagner</i>		Approved by: <i>[Signature]</i>	
Printed name: Stan Wagner		Title: Petroleum Engineer	
Title: Regulatory Analyst		Approval Date: 10/20/14	Expiration Date: 10/20/16
E-mail Address:			
Date: 10/20/14	Phone: 432-686-3689		

OIL CONSERVATION DIVISION

CONDITION OF APPROVAL - Approval for drilling / workover ONLY - CANNOT INJECT OR DISPOSAL until the injection/disposal order has been approved by the OCD Santa Fe office.

OCT 23 2014

E-PERMITTING - - New Well
Comp P&A TA
CSNG Loc Chng
ReComp Add New Well
Cancl Well Create Pool

Permit Information:

Well Name: Hearn's 27 State No. 001 SWD

Location:

SL: 2,355' FSL & 400' FEL, Section 27, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1205'	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' – 5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.750"	0'–7,800'	7"	26#	HCL80	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1235'	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
5,100'	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
7,800' TOC @ 4600'	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
	200	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
	200	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 – 1235'	Fresh - Gel	8.6-8.8	28-34	N/c
1235' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 7,800'	Cut Brine	8.4 – 9.3	28-34	N/c

Hearns 27 State #1 WD
Lea County, New Mexico

2355' FSL
400' FEL
Section 27
T-24-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3532'
GL: 3512'

