

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO 1004-0135
Expires July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM14497

6 If Indian, Allottee or Tribe Name

7 If Unit or CA/Agreement, Name and/or No

8 Well Name and No
DIAMOND 8 FED COM 3H9 API Well No
30-025-4018810 Field and Pool, or Exploratory
RED HILLS11 County or Parish, and State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

MAY 30 2012

RECEIVED

1 Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG RESOURCES, INC

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

3a Address

P.O. BOX 2267
MIDLAND, TX 79702

3b Phone No (include area code)

Ph: 432-686-3689

4 Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 8 T25S R34E NENW 330FNL 1750FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

EOG Resources requests an amendment to our APD for this well reflecting a change in the BHL.

The new BHL will be approximately 342' FSL & 2223' FWL, SESW, 8-T25S-R34E
New directional plan attached.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14 I hereby certify that the foregoing is true and correct

**Electronic Submission #138539 verified by the BLM Well Information System
For EOG RESOURCES, INC., sent to the Hobbs**

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/21/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

PETROLEUM ENGINEER

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

MAY 30 2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

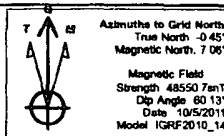
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

MAY 30 2012

EOG Resources

Project: Lea County, NM (Nad27)
Site: Diamond 8 Federal
Well: Diamond 8 Fed Com 3H
Wellbore: Wellbore #1
Plan: Plan #2 100711
Rig: Cactus Rig No. 123

PROJECT DETAILS Lea County, NM (Nad27)
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Location North: Grid



WELL DETAILS: Diamond 8 Fed Com 3H

Ground Level: 3380.80
 Northing: 419782.20 Easting: 759849.50 32° 0' 4.543 N 103° 29' 38.742 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATED)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL Diamond Fed Com 3H (New)	9500.00	-4807.18	473.72	415155.02	760123.22	Point
BHL Diamond Fed Com 3H (Flat)	9500.00	-4813.40	35.50	415148.80	759885.00	Point
LP Diamond Fed Com 3H	9500.00	-4777.30	442.00	419284.90	760091.50	Point

SECTION DETAILS

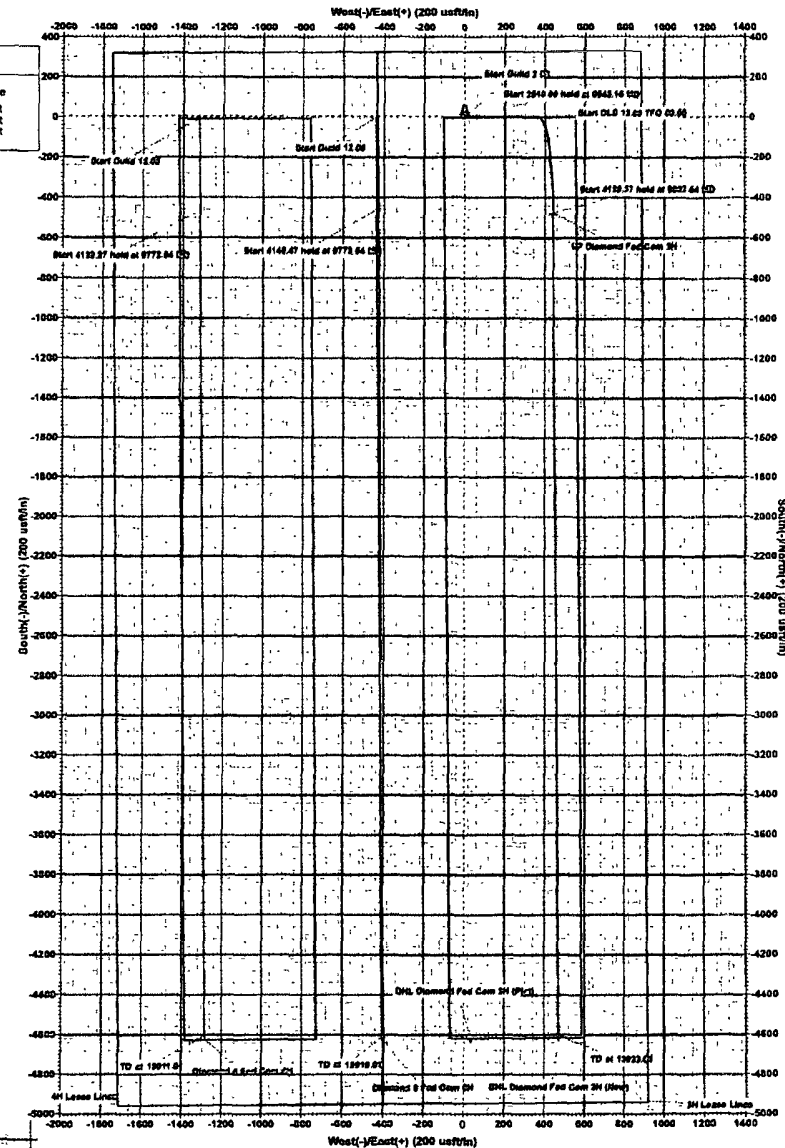
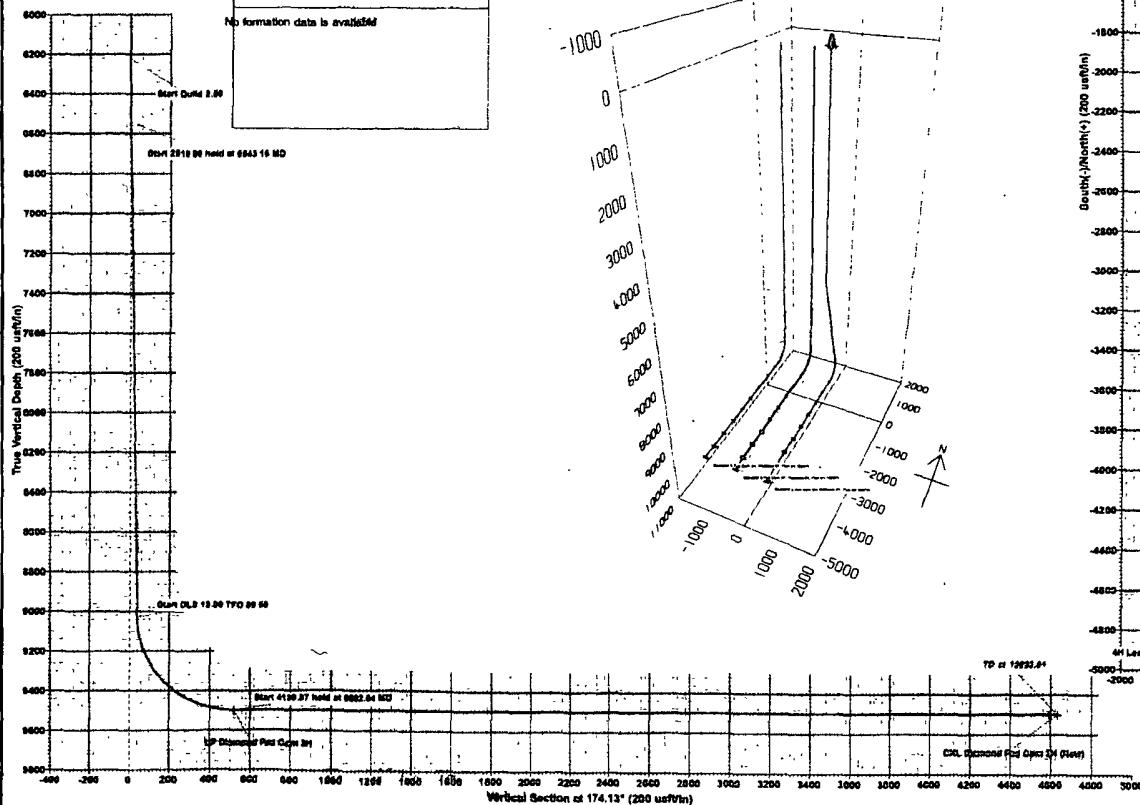
MD	Inc	Adj	TVD	+N/-S	+E/-W	Diag	TFace	VSeal
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8223.16	0.00	0.00	8223.16	0.00	0.00	0.00	0.00	0.00
38543.16	8.00	90.00	6542.12	0.00	22.30	2.50	90.00	2.28
49053.16	8.00	90.00	9027.89	0.00	371.63	0.00	0.00	36.01
59802.64	90.00	179.56	9500.00	-476.94	441.70	12.00	89.56	519.81
60933.01	90.00	179.56	9500.00	-4807.18	473.72	0.00	0.00	4631.47

ANNOTATIONS

TVD	MD	Annotation
8223.16	8223.16	Start Build 2.50
6542.12	8543.16	Start 2510.00 hold at 6543.16 MD
9027.89	9053.16	Start DLS 12.00 TFO 89.56
9500.00	9802.64	Start 4130.37 hold at 9802.64 MD
9500.00	13933.01	TD at 13933.01

FORMATION TOP DETAILS

No formation data is available



EOG Resources

Lea County, NM (Nad27)

Diamond 8 Federal

Diamond 8 Fed Com 3H

Wellbore #1

Plan: Plan #2 100711

EOG Resources

07 October, 2011



Phoenix Technology Services
EOG Resources



EOG Resources
Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80usft (Original Well Elev + 30' KB)
WELL @ 3410.80usft (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

Lea County, NM (Nad27)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Diamond 8 Federal

Site Position:		Northing:	419,755.70 usft	Latitude:	32° 8' 4.580 N
From:	Map	Easting:	758,329.50 usft	Longitude:	103° 28' 55.086 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 "

Diamond 8 Fed Com 3H

Well Position	+N/-S	0.00 usft	Northing:	419,762.20 usft	Latitude:	32° 8' 4.543 N
	+E/-W	0.00 usft	Easting:	759,649.50 usft	Longitude:	103° 28' 39.742 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,380.80 usft

Wellbore #1

IGRF2010_14 10/5/2011 7.51 60.13 48,551

Plan #2 100711

Audit Notes:

Version:	Phase:	PLAN	Tie On Depth:	0.00
	0.00	0.00	0.00	174.13

Date 10/7/2011

0.00 13,932.85 Plan #2 100711 (Wellbore #1) MWD MWD - Standard

Phoenix Technology Services
EOG Resources



EOG Resources
Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80usf (Original Well Elev + 30' KB)
WELL @ 3410.80usf (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

Station	Offset	Depth	True Depth	True Depth	True Depth	True Depth	True Depth	True Depth	True Depth	True Depth	True Depth
0.00	0.00	0.00	-3,410.80	0.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
100.00	0.00	0.00	-3,310.80	100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
200.00	0.00	0.00	-3,210.80	200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
300.00	0.00	0.00	-3,110.80	300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
400.00	0.00	0.00	-3,010.80	400.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
500.00	0.00	0.00	-2,910.80	500.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
600.00	0.00	0.00	-2,810.80	600.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
700.00	0.00	0.00	-2,710.80	700.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
800.00	0.00	0.00	-2,610.80	800.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
900.00	0.00	0.00	-2,510.80	900.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,000.00	0.00	0.00	-2,410.80	1,000.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,100.00	0.00	0.00	-2,310.80	1,100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,200.00	0.00	0.00	-2,210.80	1,200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,300.00	0.00	0.00	-2,110.80	1,300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,400.00	0.00	0.00	-2,010.80	1,400.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,500.00	0.00	0.00	-1,910.80	1,500.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,600.00	0.00	0.00	-1,810.80	1,600.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,700.00	0.00	0.00	-1,710.80	1,700.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,800.00	0.00	0.00	-1,610.80	1,800.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
1,900.00	0.00	0.00	-1,510.80	1,900.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,000.00	0.00	0.00	-1,410.80	2,000.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,100.00	0.00	0.00	-1,310.80	2,100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,200.00	0.00	0.00	-1,210.80	2,200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,300.00	0.00	0.00	-1,110.80	2,300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,400.00	0.00	0.00	-1,010.80	2,400.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,500.00	0.00	0.00	-910.80	2,500.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,600.00	0.00	0.00	-810.80	2,600.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50

Phoenix Technology Services
EOG Resources



EOG Resources
Lee County, NM (N#27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80ufl (Original Well Elev + 30' KB)
WELL @ 3410.80ufl (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

Depth	Interval	Interval	Interval	Interval	Interval	Interval	Interval	Interval	Interval	Interval	Interval
2,700.00	0.00	0.00	-710.80	2,700.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,800.00	0.00	0.00	-610.80	2,800.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
2,900.00	0.00	0.00	-510.80	2,900.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,000.00	0.00	0.00	-410.80	3,000.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,100.00	0.00	0.00	-310.80	3,100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,200.00	0.00	0.00	-210.80	3,200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,300.00	0.00	0.00	-110.80	3,300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,400.00	0.00	0.00	-10.80	3,400.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,500.00	0.00	0.00	89.20	3,500.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,600.00	0.00	0.00	189.20	3,600.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,700.00	0.00	0.00	289.20	3,700.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,800.00	0.00	0.00	389.20	3,800.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
3,900.00	0.00	0.00	489.20	3,900.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,000.00	0.00	0.00	589.20	4,000.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,100.00	0.00	0.00	689.20	4,100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,200.00	0.00	0.00	789.20	4,200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,300.00	0.00	0.00	889.20	4,300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,400.00	0.00	0.00	989.20	4,400.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,500.00	0.00	0.00	1,089.20	4,500.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,600.00	0.00	0.00	1,189.20	4,600.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,700.00	0.00	0.00	1,289.20	4,700.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,800.00	0.00	0.00	1,389.20	4,800.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
4,900.00	0.00	0.00	1,489.20	4,900.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,000.00	0.00	0.00	1,589.20	5,000.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,100.00	0.00	0.00	1,689.20	5,100.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,200.00	0.00	0.00	1,789.20	5,200.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,300.00	0.00	0.00	1,889.20	5,300.00	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50

Phoenix Technology Services
EOG Resources



EOG Resources
Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80uft (Original Well Elev + 30' KB)
WELL @ 3410.80uft (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

5,400.00	0.00	0.00	1,989.20	5,400.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,500.00	0.00	0.00	2,089.20	5,500.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,600.00	0.00	0.00	2,189.20	5,600.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,700.00	0.00	0.00	2,289.20	5,700.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,800.00	0.00	0.00	2,389.20	5,800.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
5,900.00	0.00	0.00	2,489.20	5,900.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
6,000.00	0.00	0.00	2,589.20	6,000.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
6,100.00	0.00	0.00	2,689.20	6,100.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
6,200.00	0.00	0.00	2,789.20	6,200.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50
6,223.16	0.00	0.00	2,812.36	6,223.16	0.00	0.00	0.00	0.00	419,762.20	759,649.50
Start Build 2.50										
6,300.00	1.92	90.00	2,889.19	6,299.99	0.00	1.29	0.13	2.50	419,762.20	759,650.79
6,400.00	4.42	90.00	2,989.02	6,399.82	0.00	6.82	0.70	2.50	419,762.20	759,656.32
6,500.00	6.92	90.00	3,088.53	6,499.33	0.00	16.70	1.71	2.50	419,762.20	759,666.20
6,543.16	8.00	90.00	3,131.32	6,542.12	0.00	22.30	2.28	2.50	419,762.20	759,671.80
Start 2810.00 hold at 6543.16 MD										
6,600.00	8.00	90.00	3,187.61	6,598.41	0.00	30.21	3.09	0.00	419,762.20	759,679.71
6,700.00	8.00	90.00	3,286.63	6,697.43	0.00	44.13	4.51	0.00	419,762.20	759,693.63
6,800.00	8.00	90.00	3,385.66	6,796.46	0.00	58.05	5.94	0.00	419,762.20	759,707.55
6,900.00	8.00	90.00	3,484.69	6,895.49	0.00	71.97	7.36	0.00	419,762.20	759,721.47
7,000.00	8.00	90.00	3,583.72	6,994.52	0.00	85.88	8.78	0.00	419,762.20	759,735.38
7,100.00	8.00	90.00	3,682.74	7,093.54	0.00	99.80	10.21	0.00	419,762.20	759,749.30
7,200.00	8.00	90.00	3,781.77	7,192.57	0.00	113.72	11.63	0.00	419,762.20	759,763.22
7,300.00	8.00	90.00	3,880.80	7,291.60	0.00	127.64	13.05	0.00	419,762.20	759,777.14
7,400.00	8.00	90.00	3,979.82	7,390.62	0.00	141.55	14.48	0.00	419,762.20	759,791.06
7,500.00	8.00	90.00	4,078.85	7,489.65	0.00	155.47	15.90	0.00	419,762.20	759,804.97
7,600.00	8.00	90.00	4,177.88	7,588.68	0.00	169.39	17.33	0.00	419,762.20	759,818.89

Phoenix Technology Services
EOG Resources



EOG Resources
Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80usft (Original Well Elev + 30' KB)
WELL @ 3410.80usft (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

Depth	Interval	Angle	True	Horizontal	Vertical	Interval	Interval	Interval	Interval	Interval
7,700.00	8.00	90.00	4,276.90	7,687.70	0.00	183.30	18.75	0.00	419,762.20	759,832.80
7,800.00	8.00	90.00	4,375.93	7,786.73	0.00	197.22	20.17	0.00	419,762.20	759,848.72
7,900.00	8.00	90.00	4,474.96	7,885.76	0.00	211.14	21.60	0.00	419,762.20	759,860.84
8,000.00	8.00	90.00	4,573.98	7,984.78	0.00	225.06	23.02	0.00	419,762.20	759,874.56
8,100.00	8.00	90.00	4,673.01	8,083.81	0.00	238.97	24.44	0.00	419,762.20	759,888.47
8,200.00	8.00	90.00	4,772.04	8,182.84	0.00	252.89	25.87	0.00	419,762.20	759,902.39
8,300.00	8.00	90.00	4,871.06	8,281.86	0.00	266.81	27.29	0.00	419,762.20	759,916.31
8,400.00	8.00	90.00	4,970.09	8,380.89	0.00	280.73	28.71	0.00	419,762.20	759,930.23
8,500.00	8.00	90.00	5,069.12	8,479.92	0.00	294.64	30.14	0.00	419,762.20	759,944.14
8,600.00	8.00	90.00	5,168.14	8,578.94	0.00	308.56	31.56	0.00	419,762.20	759,958.06
8,700.00	8.00	90.00	5,267.17	8,677.97	0.00	322.48	32.98	0.00	419,762.20	759,971.98
8,800.00	8.00	90.00	5,366.20	8,777.00	0.00	336.40	34.41	0.00	419,762.20	759,985.90
8,900.00	8.00	90.00	5,465.22	8,876.02	0.00	350.31	35.83	0.00	419,762.20	759,999.81
9,000.00	8.00	90.00	5,564.25	8,975.05	0.00	364.23	37.25	0.00	419,762.20	760,013.73
9,053.16	8.00	90.00	5,616.89	9,027.69	0.00	371.83	38.01	0.00	419,762.20	760,021.13
Start DLS 12.00 TFO 89.56										
9,100.00	9.80	125.12	5,663.20	9,074.00	-2.30	378.15	40.98	12.00	419,759.90	760,027.65
9,200.00	19.38	155.97	5,760.00	9,170.80	-22.40	391.91	62.37	12.00	419,739.80	760,041.41
9,300.00	30.65	165.83	5,850.52	9,261.32	-62.40	404.95	103.49	12.00	419,699.80	760,054.45
9,400.00	42.31	170.87	5,930.81	9,341.61	-120.53	416.68	162.52	12.00	419,641.67	760,066.18
9,500.00	54.09	173.72	5,997.36	9,408.16	-194.26	426.60	236.88	12.00	419,567.94	760,078.10
9,600.00	65.93	175.96	6,047.25	9,458.05	-280.37	434.28	323.32	12.00	419,481.83	760,083.78
9,700.00	77.60	177.82	6,078.32	9,489.12	-375.09	439.38	418.07	12.00	419,387.11	760,088.88
9,800.00	89.69	179.51	6,089.20	9,500.00	-474.29	441.68	516.98	12.00	419,287.91	760,091.18
9,802.64	90.00	179.56	6,089.20	9,500.00	-476.94	441.70	519.61	12.00	419,285.26	760,091.20
Start 4130.37 hold at 9802.64 MD										
9,900.00	90.00	179.56	6,089.20	9,500.00	-574.29	442.46	616.53	0.00	419,187.91	760,091.95

Phoenix Technology Services
EOG Resources



EOG Resources
Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1
Plan #2 100711

Well Diamond 8 Fed Com 3H
WELL @ 3410.80usft (Original Well Elev + 30' KB)
WELL @ 3410.80usft (Original Well Elev + 30' KB)
Grid
Minimum Curvature
GCR DB v5000

Station	Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev	Delta Elev
10,000.00	90.00	179.56	6,089.20	9,500.00	-874.28	443.23	716.08	0.00	419,087.92	760,092.73
10,100.00	90.00	179.56	6,089.20	9,500.00	-774.28	444.01	815.64	0.00	418,987.92	760,093.51
10,200.00	90.00	179.56	6,089.20	9,500.00	-874.28	444.78	915.19	0.00	418,887.92	760,094.28
10,300.00	90.00	179.56	6,089.20	9,500.00	-974.28	445.56	1,014.74	0.00	418,787.92	760,095.06
10,400.00	90.00	179.56	6,089.20	9,500.00	-1,074.27	446.33	1,114.29	0.00	418,687.93	760,095.83
10,500.00	90.00	179.56	6,089.20	9,500.00	-1,174.27	447.11	1,213.84	0.00	418,587.93	760,096.61
10,600.00	90.00	179.56	6,089.20	9,500.00	-1,274.27	447.88	1,313.39	0.00	418,487.93	760,097.38
10,700.00	90.00	179.56	6,089.20	9,500.00	-1,374.26	448.66	1,412.95	0.00	418,387.94	760,098.16
10,800.00	90.00	179.56	6,089.20	9,500.00	-1,474.26	449.43	1,512.50	0.00	418,287.94	760,098.93
10,900.00	90.00	179.56	6,089.20	9,500.00	-1,574.26	450.21	1,612.05	0.00	418,187.94	760,099.71
11,000.00	90.00	179.56	6,089.20	9,500.00	-1,674.25	450.99	1,711.60	0.00	418,087.95	760,100.49
11,100.00	90.00	179.56	6,089.20	9,500.00	-1,774.25	451.76	1,811.15	0.00	417,987.95	760,101.26
11,200.00	90.00	179.56	6,089.20	9,500.00	-1,874.25	452.54	1,910.71	0.00	417,887.95	760,102.04
11,300.00	90.00	179.56	6,089.20	9,500.00	-1,974.25	453.31	2,010.26	0.00	417,787.95	760,102.81
11,400.00	90.00	179.56	6,089.20	9,500.00	-2,074.24	454.09	2,109.81	0.00	417,687.96	760,103.59
11,500.00	90.00	179.56	6,089.20	9,500.00	-2,174.24	454.86	2,209.36	0.00	417,587.96	760,104.36
11,600.00	90.00	179.56	6,089.20	9,500.00	-2,274.24	455.64	2,308.91	0.00	417,487.96	760,105.14
11,700.00	90.00	179.56	6,089.20	9,500.00	-2,374.23	456.41	2,408.46	0.00	417,387.97	760,105.91
11,800.00	90.00	179.56	6,089.20	9,500.00	-2,474.23	457.19	2,508.02	0.00	417,287.97	760,106.69
11,900.00	90.00	179.56	6,089.20	9,500.00	-2,574.23	457.96	2,607.57	0.00	417,187.97	760,107.46
12,000.00	90.00	179.56	6,089.20	9,500.00	-2,674.22	458.74	2,707.12	0.00	417,087.98	760,108.24
12,100.00	90.00	179.56	6,089.20	9,500.00	-2,774.22	459.51	2,806.67	0.00	416,987.98	760,109.01
12,200.00	90.00	179.56	6,089.20	9,500.00	-2,874.22	460.29	2,906.22	0.00	416,887.98	760,109.79
12,300.00	90.00	179.56	6,089.20	9,500.00	-2,974.22	461.06	3,005.78	0.00	416,787.98	760,110.56
12,400.00	90.00	179.56	6,089.20	9,500.00	-3,074.21	461.84	3,105.33	0.00	416,687.99	760,111.34
12,500.00	90.00	179.56	6,089.20	9,500.00	-3,174.21	462.61	3,204.88	0.00	416,587.99	760,112.11
12,600.00	90.00	179.56	6,089.20	9,500.00	-3,274.21	463.39	3,304.43	0.00	416,487.99	760,112.89

Phoenix Technology Services
EOG Resources



EOG Resources Lea County, NM (Nad27) Diamond 8 Federal Diamond 8 Fed Com 3H Wellbore #1 Plan #2 100711	Well Diamond 8 Fed Com 3H WELL @ 3410.80usft (Original Well Elev + 30' KB) WELL @ 3410.80usft (Original Well Elev + 30' KB) Grid Minimum Curvature GCR DB v5000
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MD	TD	Depth	Rate	Time	Rate	Time	Rate	Time	Rate	Time	Rate	Time
12,700.00	90.00	179.56	6,089.20	9,500.00	-3,374.20	464.16	3,403.98	0.00	416,388.00	760,113.66		
12,800.00	90.00	179.56	6,089.20	9,500.00	-3,474.20	464.94	3,503.53	0.00	416,288.00	760,114.44		
12,900.00	90.00	179.56	6,089.20	9,500.00	-3,574.20	465.71	3,603.09	0.00	416,188.00	760,115.21		
13,000.00	90.00	179.56	6,089.20	9,500.00	-3,674.19	466.49	3,702.64	0.00	416,088.01	760,115.99		
13,100.00	90.00	179.56	6,089.20	9,500.00	-3,774.19	467.26	3,802.19	0.00	415,988.01	760,116.76		
13,200.00	90.00	179.56	6,089.20	9,500.00	-3,874.19	468.04	3,901.74	0.00	415,888.01	760,117.54		
13,300.00	90.00	179.56	6,089.20	9,500.00	-3,974.19	468.81	4,001.29	0.00	415,788.01	760,118.31		
13,400.00	90.00	179.56	6,089.20	9,500.00	-4,074.18	469.59	4,100.85	0.00	415,688.02	760,119.09		
13,500.00	90.00	179.56	6,089.20	9,500.00	-4,174.18	470.38	4,200.40	0.00	415,588.02	760,119.86		
13,600.00	90.00	179.56	6,089.20	9,500.00	-4,274.18	471.14	4,299.95	0.00	415,488.02	760,120.64		
13,700.00	90.00	179.56	6,089.20	9,500.00	-4,374.17	471.91	4,399.50	0.00	415,388.03	760,121.41		
13,800.00	90.00	179.56	6,089.20	9,500.00	-4,474.17	472.69	4,499.05	0.00	415,288.03	760,122.19		
13,900.00	90.00	179.56	6,089.20	9,500.00	-4,574.17	473.46	4,598.61	0.00	415,188.03	760,122.96		
13,933.01	90.00	179.56	6,089.20	9,500.00	-4,607.18	473.72	4,631.47	0.00	415,155.02	760,123.22		
TD at 13933.01												

6,223.16	6,223.16	0.00	0.00	Start Build 2.50
6,543.16	6,542.12	0.00	22.30	Start 2510.00 hold at 6543.16 MD
9,053.16	9,027.69	0.00	371.63	Start DLS 12.00 TFO 89.56
9,802.64	9,500.00	-476.94	441.70	Start 4130.37 hold at 9802.64 MD
13,933.01	9,500.00	-4,607.18	473.72	TD at 13933.01

Checked By: _____	Approved By: _____	Date: _____
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CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources
LEASE NO.:	NM18640A
WELL NAME & NO.:	Diamond 8 Fed Com 3H
SURFACE HOLE FOOTAGE:	330' FNL & 1750' FWL
BOTTOM HOLE FOOTAGE	342' FSL & 2223' FWL
LOCATION:	SESW Section 8, T.25S., R.34E., NMPM
COUNTY:	Lea County, New Mexico

SPECIAL REQUIREMENT

Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken

Due to being within the Lesser Prairie Chicken habitat, this workover activity will be restricted to the hours of 9:00am through 3:00am for the period of March 1 through June 15. Exceptions to these restrictions may be granted by BLM's Johnny Chopp <jchopp@blm.gov> 575.234.2227 or Bob Ballard <bballard@blm.gov> 575.234.5973.

Original COA still applies with the following changes:

A. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible lost circulation in the Castile and Delaware Mountain groups.

Possible water flows in the Salado, Castile and Delaware Mountain groups.

COA - Diamond 8 Fed Com 3H

1. The 13-3/8 inch surface casing shall be set at **approximately 1210 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt)** and cemented to the surface. **Additional cement will be required because calculated cement excess is NEG. 21%.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
☒ Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. **Additional cement will be required because calculated cement excess is NEG. 10%.**

EGF 052412