

Submit 3 Copies To Appropriate District
Office
District I
1625 N French Dr, Hobbs, NM 87240
District II
1301 W. Grand Ave, Artesia, NM 88210
District III
1000 Rio Brazos Rd, Aztec, NM 87410
District IV
1220 S. St. Francis Dr, Santa Fe, NM
87505

HOBBS OCD

JUL 31 2012

RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

June 19, 2008

WELL API NO.

30-025-40371

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name:

Brown Bear 36 State

8. Well Number

1H

9. OGRID Number

7377

10. Pool name or Wildcat

WC Red Hills; BS Upper Shale

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well:

Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

EOG Resources, Inc.

3. Address of Operator

P.O. Box 2267 Midland, TX 79702

4. Well Location

Unit Letter M : 220 feet from the South line and 645 feet from the West line

Section 36 Township 25S Range 33E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

3319' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☒

PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our APD for this well to reflect a change in the proposed SHL and BHL.

Attached please find a revised C-102 showing a SHL of 220' FSL & 645' FWL, U/L M, 36-25S-33E, Lea Co. BHL of 230' FNL & 380' FWL, U/L D, 36-25S-33E, Lea Co.

A revised directional plan is also attached.

Spud Date:

Rig Release Date:

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

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 7/27/12

Type or print name Stan Wagner E-mail address: _____ PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE AUG 01 2012

Conditions of Approval (if any):

AUG 01 2012

Permit Information:

Well Name: Brown Bear 36 State No. 1H

Location:

SL: 220' FSL & 645' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 380' FWL, Section 36, T-25-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 – 1005'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-14,358'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1005'	575	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	1325	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,358'	250	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1
	550	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1200	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

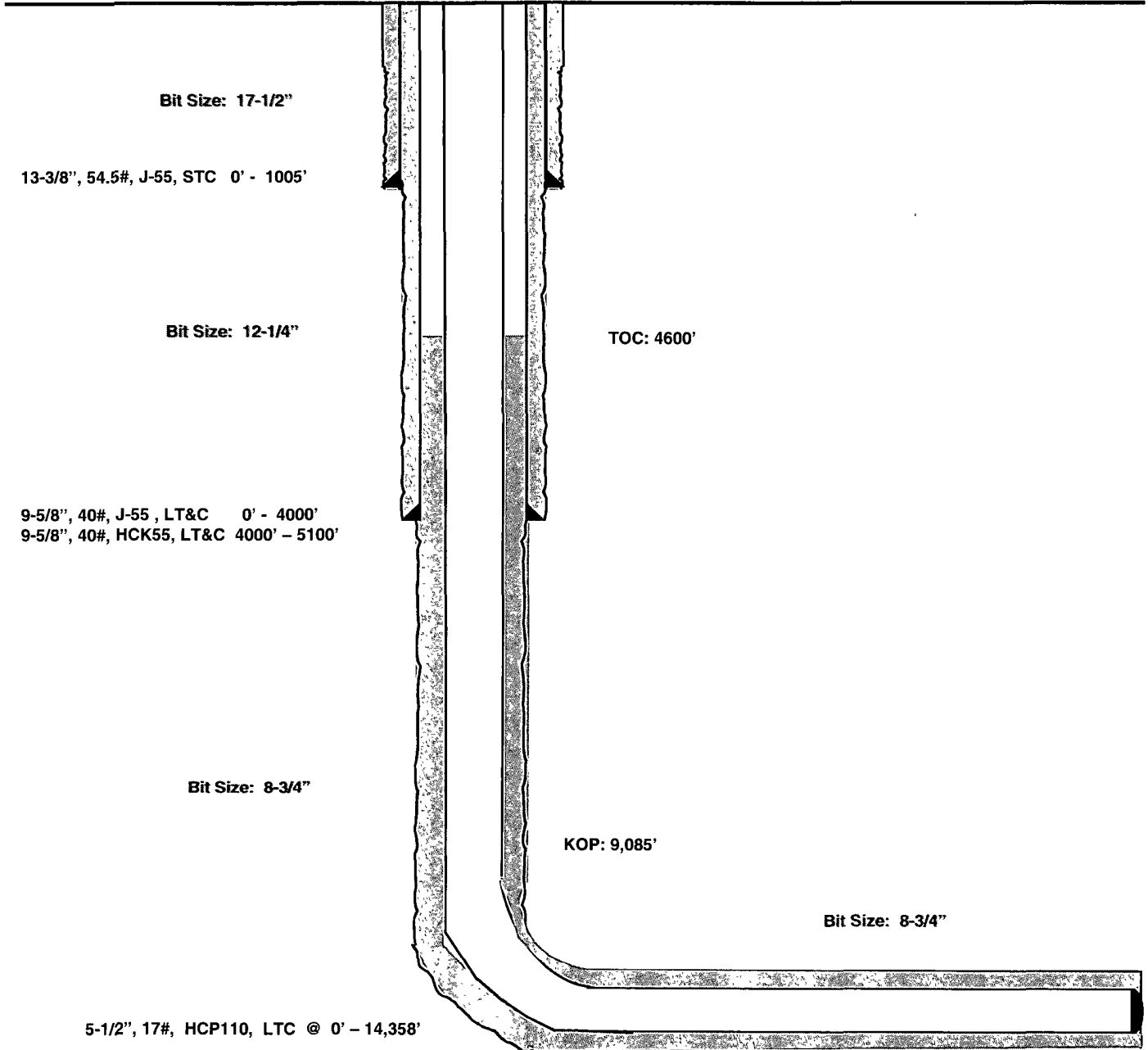
Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1005'	Fresh - Gel	8.6-8.8	28-34	N/c
1000' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 9,085'	Cut Brine	8.4-9.0	28-34	N/c
KOP – 14,358' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Brown Bear 36 State #1H
Red Hills
Lea County, New Mexico
Proposed Wellbore
REVISED 7/26/12
API: 30-025-

220' FSL
645' FWL
Section 36
T-25-S, R-33-E

KB: 3,349'
GL: 3,319'



Lateral: 14,358' MD, 9,550' TVD

BH Location: 230' FNL & 380' FWL
Section 36
T-25-S, R-33-E

Project: Lea County, NM (Nad27)
Site: Brown Bear 36 State
Well: Brown Bear 36 State 1H
Wellbore: Wellbore #1
Plan: Plan#1 072512
Rig:

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: Brown Bear 36 State 1H**

Ground Level 3319 00
 Northing 393829 00 Easting 748183 00 32° 4' 48" 7838 N 103° 31' 55 3525 W Longitude

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP Brown Bear 36 State 1H	9072 54	-172 00	-263 00	393657 00	747920 00	Point
BHL Brown Bear 36 State 1H	9550 00	4828 00	-301 00	398657 00	747882 00	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeal
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5100 00	0 00	0 00	5100 00	0 00	0 00	0 00	0 00	0 00
5350 00	5 00	236 82	5349 88	-5 97	-9 12	2 00	236 82	-5 39
8705 45	5 00	236 82	8692 37	-166 03	-253 88	0 00	0 00	-149 91
8955 45	0 00	0 00	8942 05	-172 00	-263 00	2 00	180 00	-155 30
9013 40	0 00	0 00	9000 00	-172 00	-263 00	0 00	0 00	-155 30
9085 94	0 00	0 00	9072 54	-172 00	-263 00	0 00	0 00	-155 30
9835 94	90 00	359 56	9550 00	305 45	-266 63	12 00	359 56	321 45
14358 62	90 00	359 56	9550 00	4828 00	-301 00	0 00	0 00	4637 37

BHL Brown Bear 36 State 1H

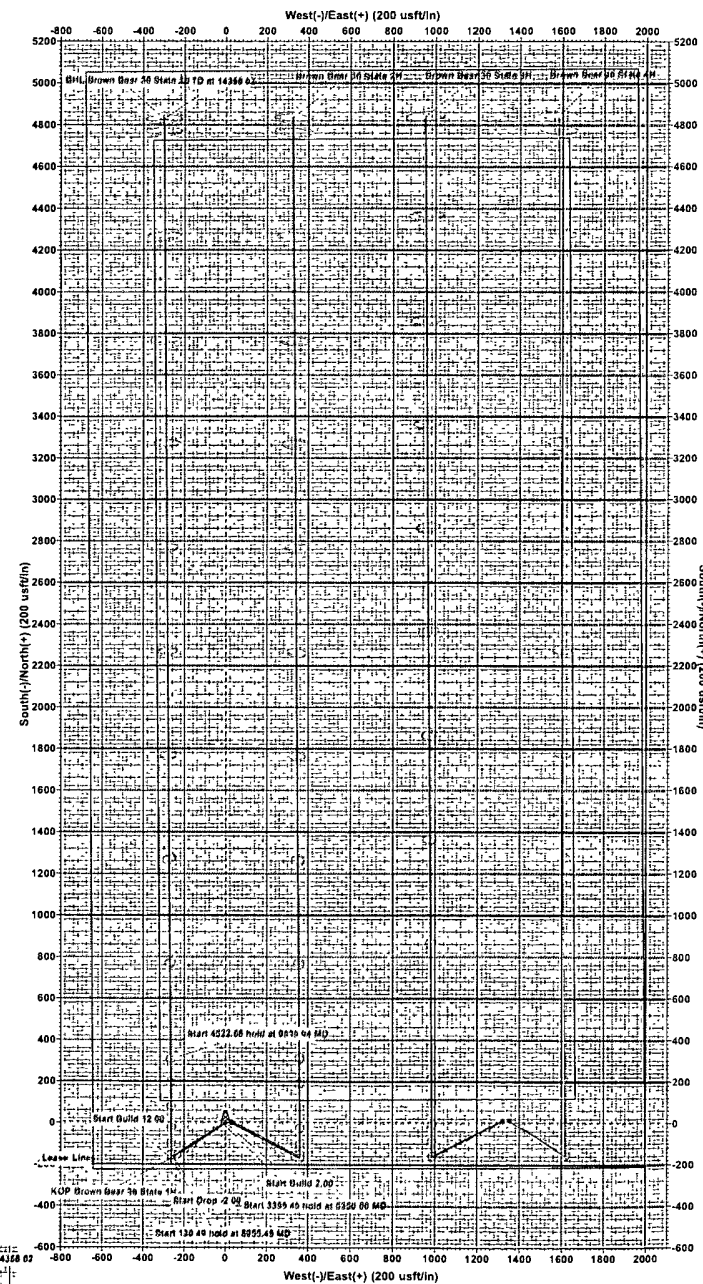
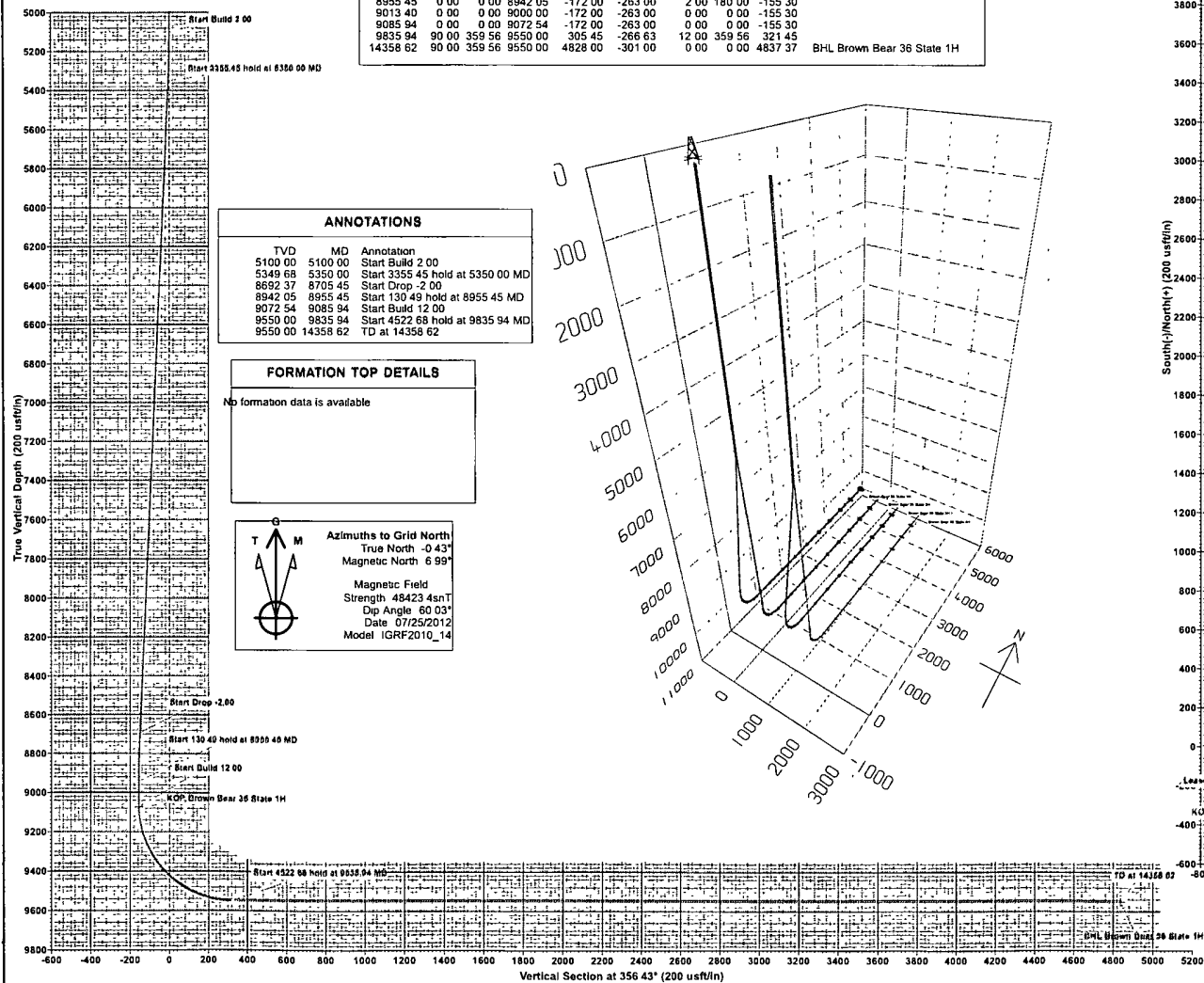
ANNOTATIONS

TVD	MD	Annotation
5100 00	5100 00	Start Build 2 00
5349 88	5350 00	Start 3355 45 hold at 5350 00 MD
8692 37	8705 45	Start Drop 2 00
8942 05	8955 45	Start 130 49 hold at 8955 45 MD
9072 54	9085 94	Start Build 12 00
9550 00	9835 94	Start 4522 68 hold at 9835 94 MD
9550 00	14358 62	TD at 14358 62

FORMATION TOP DETAILS

No formation data is available

Azimuths to Grid North
 True North -0.43°
 Magnetic North 6.99°
 Magnetic Field
 Strength 48423.4snT
 Dip Angle 60.03°
 Date 07/25/2012
 Model IGRF2010_14



EOG Resources

Lea County, NM (Nad27)

Brown Bear 36 State

Brown Bear 36 State 1H

Wellbore #1

Plan: Plan#1 072512

EOG Resources

26 July, 2012



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Project	Lea County, NM (Nad27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Brown Bear 36 State		
Site Position:		Northing:	393,829.00 usft
From:	Map	Easting:	748,183.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 48.7838 N
		Longitude:	103° 31' 55.3525 W
		Grid Convergence:	0.43 °

Well	Brown Bear 36 State 1H		
Well Position	+N/-S	0.00 usft	Northing: 393,829.00 usft
	+E/-W	0.00 usft	Easting: 748,183.00 usft
Position Uncertainty		0.00 usft	Wellhead Elevation: usft
			Latitude: 32° 4' 48.7838 N
			Longitude: 103° 31' 55.3525 W
			Ground Level: 3,319.00 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010_14	07/25/12	7.42
			Dip Angle (°)
			60.03
			Field Strength (nT)
			48,423

Design	Plan#1 072512		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			356.43

Survey Tool Program	Date 07/26/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
0.00	14,358.62	Plan#1 072512 (Wellbore #1)	MWD
			Description
			MWD - Standard

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349 00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0 00	0.00	0 00	-3,349 00	0 00	0.00	0 00	0.00	0.00	393,829.00	748,183.00	
100.00	0.00	0.00	-3,249.00	100.00	0 00	0.00	0 00	0 00	393,829.00	748,183.00	
200 00	0.00	0.00	-3,149 00	200 00	0.00	0.00	0.00	0.00	393,829.00	748,183 00	
300.00	0.00	0.00	-3,049.00	300.00	0.00	0 00	0.00	0.00	393,829.00	748,183 00	
400.00	0 00	0 00	-2,949 00	400.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
500.00	0 00	0 00	-2,849 00	500 00	0.00	0.00	0.00	0.00	393,829 00	748,183.00	
600.00	0.00	0.00	-2,749.00	600.00	0.00	0.00	0.00	0 00	393,829.00	748,183.00	
700.00	0 00	0 00	-2,649 00	700.00	0.00	0 00	0.00	0.00	393,829.00	748,183 00	
800.00	0 00	0.00	-2,549.00	800 00	0 00	0.00	0.00	0.00	393,829.00	748,183.00	
900.00	0 00	0 00	-2,449 00	900 00	0 00	0.00	0 00	0.00	393,829.00	748,183.00	
1,000.00	0.00	0.00	-2,349 00	1,000.00	0.00	0.00	0 00	0 00	393,829.00	748,183.00	
1,100 00	0 00	0.00	-2,249.00	1,100 00	0 00	0.00	0.00	0.00	393,829.00	748,183 00	
1,200.00	0 00	0.00	-2,149.00	1,200.00	0 00	0.00	0.00	0 00	393,829.00	748,183.00	
1,300 00	0.00	0.00	-2,049.00	1,300.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
1,400 00	0 00	0 00	-1,949 00	1,400.00	0 00	0.00	0 00	0.00	393,829.00	748,183.00	
1,500.00	0.00	0.00	-1,849 00	1,500.00	0 00	0.00	0.00	0.00	393,829.00	748,183.00	
1,600.00	0.00	0.00	-1,749.00	1,600 00	0 00	0.00	0.00	0.00	393,829.00	748,183 00	
1,700.00	0 00	0 00	-1,649 00	1,700.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
1,800.00	0.00	0.00	-1,549.00	1,800.00	0.00	0.00	0 00	0 00	393,829 00	748,183.00	
1,900.00	0 00	0.00	-1,449.00	1,900 00	0.00	0.00	0 00	0.00	393,829.00	748,183.00	
2,000 00	0.00	0.00	-1,349 00	2,000 00	0.00	0.00	0.00	0.00	393,829.00	748,183 00	
2,100.00	0.00	0.00	-1,249 00	2,100 00	0 00	0.00	0.00	0.00	393,829.00	748,183.00	
2,200 00	0.00	0 00	-1,149.00	2,200.00	0.00	0.00	0.00	0.00	393,829 00	748,183.00	
2,300 00	0 00	0.00	-1,049.00	2,300.00	0 00	0.00	0.00	0.00	393,829 00	748,183.00	
2,400.00	0 00	0.00	-949.00	2,400 00	0.00	0.00	0.00	0 00	393,829.00	748,183 00	
2,500.00	0 00	0.00	-849.00	2,500.00	0 00	0.00	0.00	0.00	393,829.00	748,183.00	
2,600.00	0.00	0.00	-749.00	2,600 00	0.00	0 00	0.00	0.00	393,829.00	748,183.00	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
2,700.00	0.00	0.00	-649.00	2,700.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
2,800.00	0.00	0.00	-549.00	2,800.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
2,900.00	0.00	0.00	-449.00	2,900.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,000.00	0.00	0.00	-349.00	3,000.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,100.00	0.00	0.00	-249.00	3,100.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,200.00	0.00	0.00	-149.00	3,200.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,300.00	0.00	0.00	-49.00	3,300.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,400.00	0.00	0.00	51.00	3,400.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,500.00	0.00	0.00	151.00	3,500.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,600.00	0.00	0.00	251.00	3,600.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,700.00	0.00	0.00	351.00	3,700.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,800.00	0.00	0.00	451.00	3,800.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
3,900.00	0.00	0.00	551.00	3,900.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,000.00	0.00	0.00	651.00	4,000.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,100.00	0.00	0.00	751.00	4,100.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,200.00	0.00	0.00	851.00	4,200.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,300.00	0.00	0.00	951.00	4,300.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,400.00	0.00	0.00	1,051.00	4,400.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,500.00	0.00	0.00	1,151.00	4,500.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,600.00	0.00	0.00	1,251.00	4,600.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,700.00	0.00	0.00	1,351.00	4,700.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,800.00	0.00	0.00	1,451.00	4,800.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
4,900.00	0.00	0.00	1,551.00	4,900.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
5,000.00	0.00	0.00	1,651.00	5,000.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
5,100.00	0.00	0.00	1,751.00	5,100.00	0.00	0.00	0.00	0.00	393,829.00	748,183.00	
Start Build 2.00											
5,200.00	2.00	236.82	1,850.98	5,199.98	-0.96	-1.46	-0.86	2.00	393,828.04	748,181.54	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
5,300.00	4.00	236.82	1,950.84	5,299.84	-3.82	-5.84	-3.45	2.00	393,825.18	748,177.16	
5,350.00	5.00	236.82	2,000.68	5,349.68	-5.97	-9.12	-5.39	2.00	393,823.03	748,173.88	
Start 3355.45 hold at 5350.00 MD											
5,400.00	5.00	236.82	2,050.49	5,399.49	-8.35	-12.77	-7.54	0.00	393,820.65	748,170.23	
5,500.00	5.00	236.82	2,150.11	5,499.11	-13.12	-20.06	-11.85	0.00	393,815.88	748,162.94	
5,600.00	5.00	236.82	2,249.73	5,598.73	-17.89	-27.36	-16.16	0.00	393,811.11	748,155.64	
5,700.00	5.00	236.82	2,349.35	5,698.35	-22.66	-34.65	-20.46	0.00	393,806.34	748,148.35	
5,800.00	5.00	236.82	2,448.97	5,797.97	-27.43	-41.95	-24.77	0.00	393,801.57	748,141.05	
5,900.00	5.00	236.82	2,548.59	5,897.59	-32.20	-49.24	-29.08	0.00	393,796.80	748,133.76	
6,000.00	5.00	236.82	2,648.21	5,997.21	-36.97	-56.54	-33.38	0.00	393,792.03	748,126.46	
6,100.00	5.00	236.82	2,747.83	6,096.83	-41.74	-63.83	-37.69	0.00	393,787.26	748,119.17	
6,200.00	5.00	236.82	2,847.45	6,196.45	-46.51	-71.12	-42.00	0.00	393,782.49	748,111.88	
6,300.00	5.00	236.82	2,947.07	6,296.07	-51.28	-78.42	-46.31	0.00	393,777.72	748,104.58	
6,400.00	5.00	236.82	3,046.69	6,395.69	-56.06	-85.71	-50.61	0.00	393,772.94	748,097.29	
6,500.00	5.00	236.82	3,146.31	6,495.31	-60.83	-93.01	-54.92	0.00	393,768.17	748,089.99	
6,600.00	5.00	236.82	3,245.93	6,594.93	-65.60	-100.30	-59.23	0.00	393,763.40	748,082.70	
6,700.00	5.00	236.82	3,345.55	6,694.55	-70.37	-107.59	-63.53	0.00	393,758.63	748,075.41	
6,800.00	5.00	236.82	3,445.17	6,794.17	-75.14	-114.89	-67.84	0.00	393,753.86	748,068.11	
6,900.00	5.00	236.82	3,544.78	6,893.78	-79.91	-122.18	-72.15	0.00	393,749.09	748,060.82	
7,000.00	5.00	236.82	3,644.40	6,993.40	-84.68	-129.48	-76.46	0.00	393,744.32	748,053.52	
7,100.00	5.00	236.82	3,744.02	7,093.02	-89.45	-136.77	-80.76	0.00	393,739.55	748,046.23	
7,200.00	5.00	236.82	3,843.64	7,192.64	-94.22	-144.07	-85.07	0.00	393,734.78	748,038.93	
7,300.00	5.00	236.82	3,943.26	7,292.26	-98.99	-151.36	-89.38	0.00	393,730.01	748,031.64	
7,400.00	5.00	236.82	4,042.88	7,391.88	-103.76	-158.65	-93.69	0.00	393,725.24	748,024.35	
7,500.00	5.00	236.82	4,142.50	7,491.50	-108.53	-165.95	-97.99	0.00	393,720.47	748,017.05	
7,600.00	5.00	236.82	4,242.12	7,591.12	-113.30	-173.24	-102.30	0.00	393,715.70	748,009.76	
7,700.00	5.00	236.82	4,341.74	7,690.74	-118.07	-180.54	-106.61	0.00	393,710.93	748,002.46	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
7,800.00	5 00	236 82	4,441 36	7,790.36	-122.84	-187.83	-110.91	0.00	393,706.16	747,995.17
7,900.00	5.00	236.82	4,540.98	7,889.98	-127.61	-195.13	-115.22	0.00	393,701.39	747,987.87
8,000.00	5 00	236 82	4,640.60	7,989.60	-132.38	-202.42	-119.53	0.00	393,696.62	747,980.58
8,100.00	5.00	236.82	4,740.22	8,089.22	-137.15	-209.71	-123.84	0.00	393,691.85	747,973.29
8,200.00	5.00	236.82	4,839.84	8,188.84	-141.92	-217.01	-128.14	0.00	393,687.08	747,965.99
8,300.00	5.00	236.82	4,939.46	8,288.46	-146.69	-224.30	-132.45	0.00	393,682.31	747,958.70
8,400.00	5.00	236.82	5,039.08	8,388.08	-151.46	-231.60	-136.76	0.00	393,677.54	747,951.40
8,500.00	5.00	236.82	5,138.70	8,487.70	-156.23	-238.89	-141.06	0.00	393,672.77	747,944.11
8,600.00	5.00	236.82	5,238.32	8,587.32	-161.00	-246.18	-145.37	0.00	393,668.00	747,936.82
8,700.00	5.00	236.82	5,337.94	8,686.94	-165.77	-253.48	-149.68	0.00	393,663.23	747,929.52
8,705.45	5 00	236 82	5,343.37	8,692.37	-166.03	-253.88	-149.91	0.00	393,662.97	747,929.12
Start Drop -2.00										
8,800.00	3.11	236.82	5,437.67	8,786.67	-169.69	-259.47	-153.22	2.00	393,659.31	747,923.53
8,900.00	1.11	236.82	5,537.60	8,886.60	-171.71	-262.55	-155.04	2.00	393,657.29	747,920.45
8,955.45	0.00	0.00	5,593.05	8,942.05	-172.00	-263.00	-155.30	2.00	393,657.00	747,920.00
Start 130.49 hold at 8955.45 MD										
9,000.00	0.00	0.00	5,637.60	8,986.60	-172.00	-263.00	-155.30	0.00	393,657.00	747,920.00
9,013.40	0.00	0.00	5,651.00	9,000.00	-172.00	-263.00	-155.30	0.00	393,657.00	747,920.00
9,085.94	0.00	0.00	5,723.54	9,072.54	-172.00	-263.00	-155.30	0.00	393,657.00	747,920.00
Start Build 12.00										
9,100.00	1 69	359.56	5,737.60	9,086.60	-171.79	-263.00	-155.10	12.00	393,657.21	747,920.00
9,200.00	13 69	359.56	5,836.52	9,185.52	-158.44	-263.10	-141.76	12.00	393,670.56	747,919.90
9,300.00	25 69	359.56	5,930.50	9,279.50	-124.81	-263.36	-108.19	12.00	393,704.19	747,919.64
9,400.00	37 69	359.56	6,015.43	9,364.43	-72.38	-263.76	-55.83	12.00	393,756.62	747,919.24
9,500.00	49.69	359.56	6,087.61	9,436.61	-3.44	-264.28	13.01	12.00	393,825.56	747,918.72
9,600.00	61 69	359.56	6,143.88	9,492.88	79.00	-264.91	95.34	12.00	393,908.00	747,918.09
9,700.00	73.69	359.56	6,181.78	9,530.78	171.35	-265.61	187.54	12.00	394,000.35	747,917.39

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 1H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
9,800.00	85.69	359.56	6,199.65	9,548.65	269.55	-266.36	285.60	12.00	394,098.55	747,916.64	
9,835.94	90.00	359.56	6,201.00	9,550.00	305.45	-266.63	321.45	12.00	394,134.45	747,916.37	
Start 4522.68 hold at 9835.94 MD											
9,900.00	90.00	359.56	6,201.00	9,550.00	369.51	-267.12	385.42	0.00	394,198.51	747,915.88	
10,000.00	90.00	359.56	6,201.00	9,550.00	469.51	-267.88	485.27	0.00	394,298.51	747,915.12	
10,100.00	90.00	359.56	6,201.00	9,550.00	569.51	-268.64	585.12	0.00	394,398.51	747,914.36	
10,200.00	90.00	359.56	6,201.00	9,550.00	669.50	-269.40	684.97	0.00	394,498.50	747,913.60	
10,300.00	90.00	359.56	6,201.00	9,550.00	769.50	-270.16	784.82	0.00	394,598.50	747,912.84	
10,400.00	90.00	359.56	6,201.00	9,550.00	869.50	-270.92	884.67	0.00	394,698.50	747,912.08	
10,500.00	90.00	359.56	6,201.00	9,550.00	969.49	-271.68	984.52	0.00	394,798.49	747,911.32	
10,600.00	90.00	359.56	6,201.00	9,550.00	1,069.49	-272.44	1,084.37	0.00	394,898.49	747,910.56	
10,700.00	90.00	359.56	6,201.00	9,550.00	1,169.49	-273.20	1,184.22	0.00	394,998.49	747,909.80	
10,800.00	90.00	359.56	6,201.00	9,550.00	1,269.49	-273.96	1,284.07	0.00	395,098.49	747,909.04	
10,900.00	90.00	359.56	6,201.00	9,550.00	1,369.48	-274.72	1,383.92	0.00	395,198.48	747,908.28	
11,000.00	90.00	359.56	6,201.00	9,550.00	1,469.48	-275.48	1,483.77	0.00	395,298.48	747,907.52	
11,100.00	90.00	359.56	6,201.00	9,550.00	1,569.48	-276.24	1,583.62	0.00	395,398.48	747,906.76	
11,200.00	90.00	359.56	6,201.00	9,550.00	1,669.47	-277.00	1,683.47	0.00	395,498.47	747,906.00	
11,300.00	90.00	359.56	6,201.00	9,550.00	1,769.47	-277.76	1,783.32	0.00	395,598.47	747,905.24	
11,400.00	90.00	359.56	6,201.00	9,550.00	1,869.47	-278.52	1,883.18	0.00	395,698.47	747,904.48	
11,500.00	90.00	359.56	6,201.00	9,550.00	1,969.46	-279.28	1,983.03	0.00	395,798.46	747,903.72	
11,600.00	90.00	359.56	6,201.00	9,550.00	2,069.46	-280.04	2,082.88	0.00	395,898.46	747,902.96	
11,700.00	90.00	359.56	6,201.00	9,550.00	2,169.46	-280.80	2,182.73	0.00	395,998.46	747,902.20	
11,800.00	90.00	359.56	6,201.00	9,550.00	2,269.46	-281.56	2,282.58	0.00	396,098.46	747,901.44	
11,900.00	90.00	359.56	6,201.00	9,550.00	2,369.45	-282.32	2,382.43	0.00	396,198.45	747,900.68	
12,000.00	90.00	359.56	6,201.00	9,550.00	2,469.45	-283.08	2,482.28	0.00	396,298.45	747,899.92	
12,100.00	90.00	359.56	6,201.00	9,550.00	2,569.45	-283.84	2,582.13	0.00	396,398.45	747,899.16	
12,200.00	90.00	359.56	6,201.00	9,550.00	2,669.44	-284.59	2,681.98	0.00	396,498.44	747,898.41	

Phoenix Technology Services
EOG Resources



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Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Planned Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg. (°/100usft)	Northing (usft)	Easting (usft)	
12,300.00	90.00	359.56	6,201.00	9,550.00	2,769.44	-285.35	2,781.83	0.00	396,598.44	747,897.65	
12,400.00	90.00	359.56	6,201.00	9,550.00	2,869.44	-286.11	2,881.68	0.00	396,698.44	747,896.89	
12,500.00	90.00	359.56	6,201.00	9,550.00	2,969.44	-286.87	2,981.53	0.00	396,798.44	747,896.13	
12,600.00	90.00	359.56	6,201.00	9,550.00	3,069.43	-287.63	3,081.38	0.00	396,898.43	747,895.37	
12,700.00	90.00	359.56	6,201.00	9,550.00	3,169.43	-288.39	3,181.23	0.00	396,998.43	747,894.61	
12,800.00	90.00	359.56	6,201.00	9,550.00	3,269.43	-289.15	3,281.08	0.00	397,098.43	747,893.85	
12,900.00	90.00	359.56	6,201.00	9,550.00	3,369.42	-289.91	3,380.93	0.00	397,198.42	747,893.09	
13,000.00	90.00	359.56	6,201.00	9,550.00	3,469.42	-290.67	3,480.79	0.00	397,298.42	747,892.33	
13,100.00	90.00	359.56	6,201.00	9,550.00	3,569.42	-291.43	3,580.64	0.00	397,398.42	747,891.57	
13,200.00	90.00	359.56	6,201.00	9,550.00	3,669.42	-292.19	3,680.49	0.00	397,498.42	747,890.81	
13,300.00	90.00	359.56	6,201.00	9,550.00	3,769.41	-292.95	3,780.34	0.00	397,598.41	747,890.05	
13,400.00	90.00	359.56	6,201.00	9,550.00	3,869.41	-293.71	3,880.19	0.00	397,698.41	747,889.29	
13,500.00	90.00	359.56	6,201.00	9,550.00	3,969.41	-294.47	3,980.04	0.00	397,798.41	747,888.53	
13,600.00	90.00	359.56	6,201.00	9,550.00	4,069.40	-295.23	4,079.89	0.00	397,898.40	747,887.77	
13,700.00	90.00	359.56	6,201.00	9,550.00	4,169.40	-295.99	4,179.74	0.00	397,998.40	747,887.01	
13,800.00	90.00	359.56	6,201.00	9,550.00	4,269.40	-296.75	4,279.59	0.00	398,098.40	747,886.25	
13,900.00	90.00	359.56	6,201.00	9,550.00	4,369.40	-297.51	4,379.44	0.00	398,198.40	747,885.49	
14,000.00	90.00	359.56	6,201.00	9,550.00	4,469.39	-298.27	4,479.29	0.00	398,298.39	747,884.73	
14,100.00	90.00	359.56	6,201.00	9,550.00	4,569.39	-299.03	4,579.14	0.00	398,398.39	747,883.97	
14,200.00	90.00	359.56	6,201.00	9,550.00	4,669.39	-299.79	4,678.99	0.00	398,498.39	747,883.21	
14,300.00	90.00	359.56	6,201.00	9,550.00	4,769.38	-300.55	4,778.84	0.00	398,598.38	747,882.45	
14,358.62	90.00	359.56	6,201.00	9,550.00	4,828.00	-301.00	4,837.37	0.00	398,657.00	747,882.00	
TD at 14358.62											

Phoenix Technology Services
EOG Resources



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Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 1H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Plan Annotations:				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,100.00	5,100.00	0.00	0.00	Start Build 2.00
5,350.00	5,349.68	-5.97	-9.12	Start 3355.45 hold at 5350.00 MD
8,705.45	8,692.37	-166.03	-253.88	Start Drop -2.00
8,955.45	8,942.05	-172.00	-263.00	Start 130.49 hold at 8955.45 MD
9,085.94	9,072.54	-172.00	-263.00	Start Build 12.00
9,835.94	9,550.00	305.45	-266.63	Start 4522.68 hold at 9835.94 MD
14,358.62	9,550.00	4,828.00	-301.00	TD at 14358.62

Checked By: _____	Approved By: _____	Date: _____
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