

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

Split Estate

APPLICATION FOR PERMIT TO DRILL OR REENTER

OCD Hobbs
HOBBS OCD

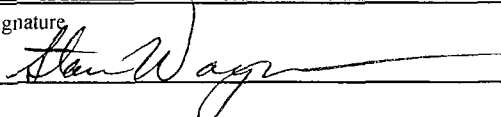
APR 01 2013

RECEIVED

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM122622 BHL
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zones		6. If Indian, Allottee or Tribe Name
2. Name of Operator EOG Resources Inc.		7. Unit or CA Agreement Name and No.
3a. Address P.O. Box 2267 Midland, Texas 79702	3b. Phone No. (include area code) 432-686-3689	8. Lease Name and Well No. Endurance 36 State Com 5H
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 330' FSL & 1790' FWL, Lot 3 (SENW), Section 36 At proposed prod. zone 230' FNL & 1840' FWL, U/L C (NENW), Section 25		9. API Well No. 30-025-41085
14. Distance in miles and direction from nearest town or post office* Approximately +/- 27 miles Southwest from Jal, NM		10. Field and Pool, or Exploratory Bradley Bone Spring
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 230'		11. Sec., T., R., M., or Blk. and Survey or Area Sec 36, T26S, R33E
16. No. of Acres in lease 303.52 1640 Fed. 303 St.		12. County or Parish Lea
17. Spacing Unit dedicated to this well 473.08		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 30' to 2H		19. Proposed Depth 17325 MD - 10300 TVD
20. BLM/BIA Bond No. on file NM 2308		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3334' GL
22. Approximate date work will start* 2/1/2012		23. Estimated duration 25 days
24. Attachments 7 mts prior to submission		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM |

25. Signature 	Name (Printed/Typed) Stan Wagner	Date 9/7/2012
Title Regulatory Analyst		
Approved by (Signautre) /s/ Don Peterson	Name (Printed/Typed)	Date MAR 27 2013
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

Approval Subject to General Requirements
& Special Stipulations Attached

Carlsbad Controlled Water Basin

K 04/02/13

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

APR 03 2013

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 5H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	840'
Top of Salt	1,405'
Base of Salt	5,062'
Lamar	5,224'
Bell Canyon	5,250'
Cherry Canyon	6,200'
Brushy Canyon	7,977'
Bone Spring Lime	9,464'
TD	10,300'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,200'	Oil
Brushy Canyon	7,977'	Oil
Bone Spring Lime	9,464'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities.
 Surface fresh water sands will be protected by setting 13.375" casing at 900' and circulating cement back to surface.

4. CASING PROGRAM - NEW

See
COA

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 -900'	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'-5,150'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-17,325'	5.500"	170#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 5H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
900'	275	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)
	300	14.8	1.34	Tail: Class C + 0.005 pps Static Free + 1% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,150'	675	12.7	2.22	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,325'	225	10.8	3.68	Lead: 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 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 4650')
	250	11.8	2.38	Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	2025	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

See COA

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (10,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

3000 psi BOPE is adequate for this application. Due to the 3000 psi BOPE requirement no FIT tests are planned.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 2000/ 250 psig and the annular preventer to 2000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 5H

See COA Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000/ 250 psig and the annular preventer to 3000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the intermediate casing shoe.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

See COA

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 900'	Fresh Water Gel	8.6-8.8	28-34	N/c
900' – 5,150'	Saturated Brine	10.0-10.2	28-34	N/c
5,150' – 9822'	Cut Brine Water	8.5-9.3	28-34	N/c
9,822' – 17,325' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM: *See COA*

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations, from kick off point to intermediate casing point.

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 5H

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND
POTENTIAL HAZARDS:**

*See
COA*

The estimated bottom-hole temperature (BHT) at TD is 162 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4460 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

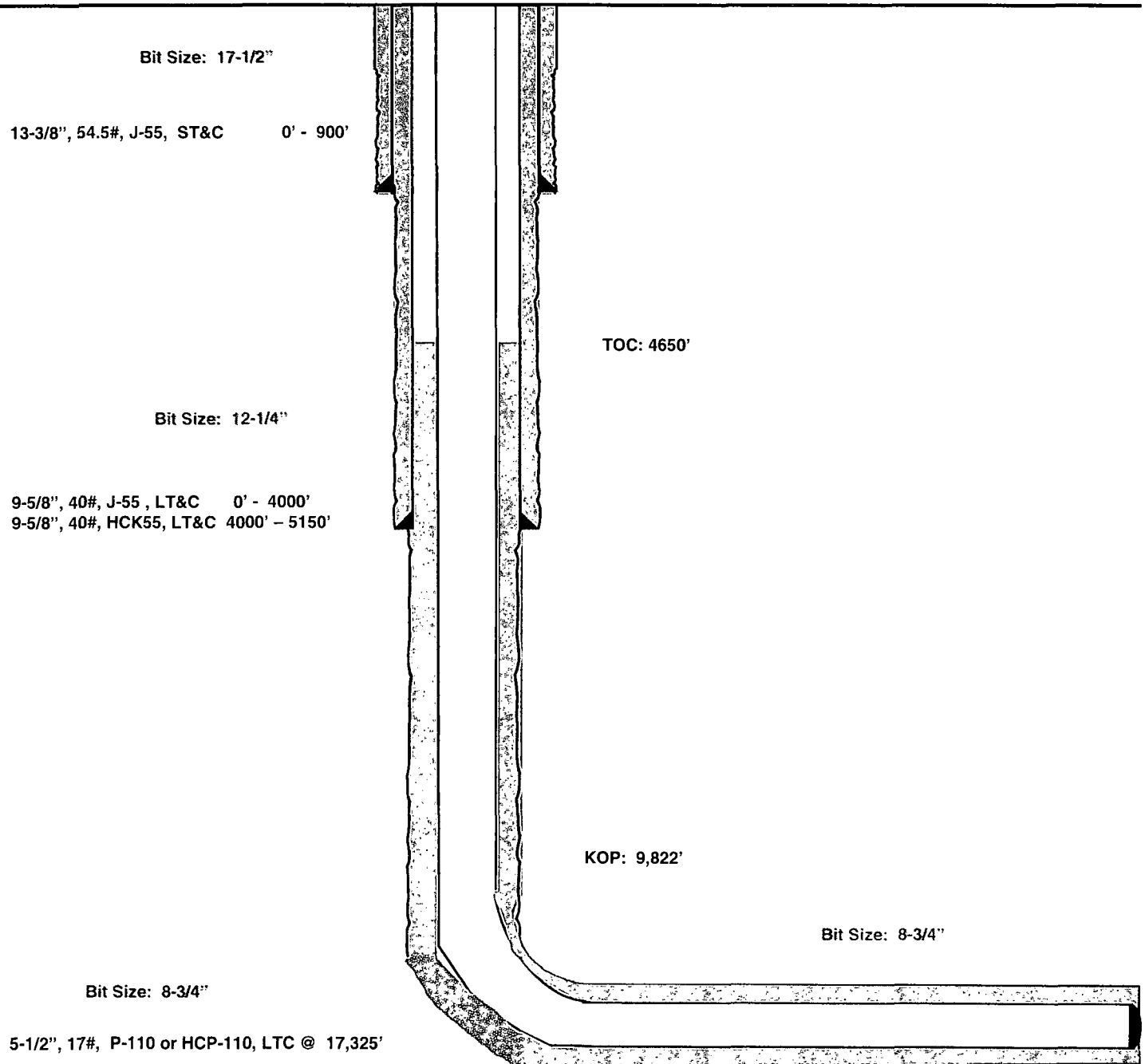
Endurance 36 State Com #5H
Red Hills
Lea County, New Mexico

330' FSL
1790' FWL
Section 36
T-26-S, R-33-E

Proposed Wellbore

API: 30-025- *****

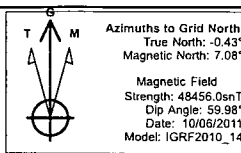
KB: 3,364'
GL: 3,334'



EOG Resources

Project: Lea County, NM (Nad27)
Site: Endurance 36 State Com
Well: Endurance 36 State Com 5H
Wellbore: Wellbore #1
Plan: Plan #1 082412
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: Endurance 36 State Com 5H

North	Ground Level	Latitude	Longitude
365036.00	3334.00	32° 0' 3.7574 N	103° 31' 42.1221 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	East	Shape
BHL Endurance 36 State Com 5H	0300.00	7230.00	-1.00	372266.00	749535.00	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	YFace	VSact
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9822.54	0.00	0.00	9822.54	0.00	0.00	0.00	0.00	0.00
10572.54	90.00	359.99	10300.00	477.46	-0.07	12.00	359.99	477.46
17325.07	90.00	359.99	10300.00	7230.00	-1.00	0.00	0.00	7230.00

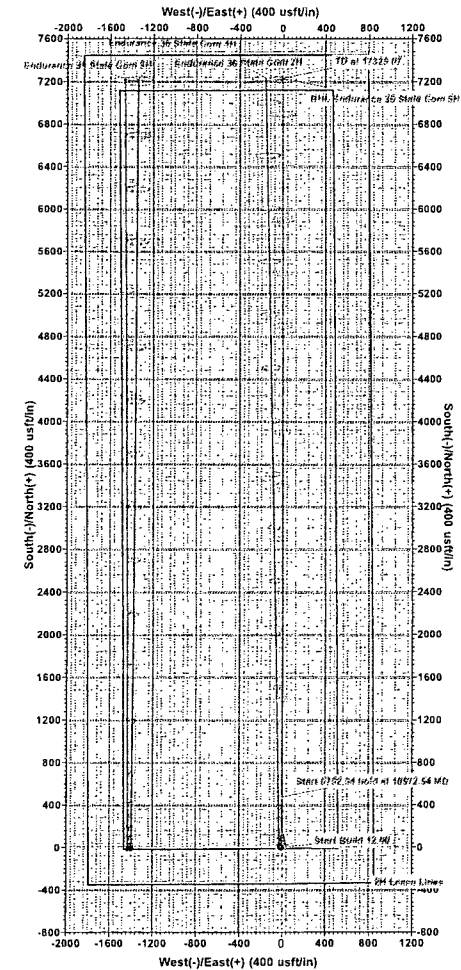
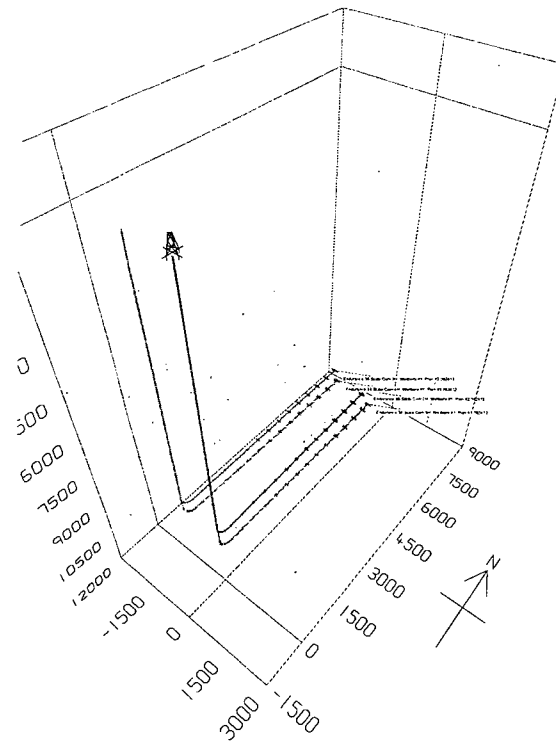
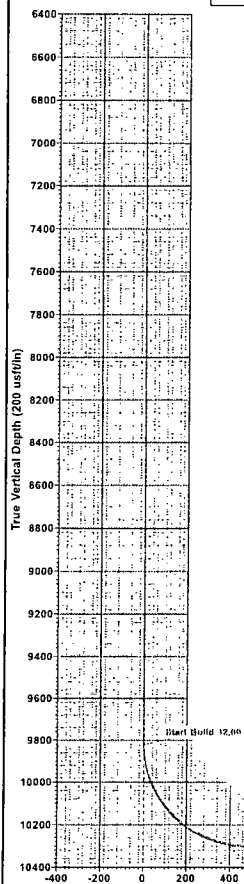
BHL Endurance 36 State Com 5H

ANNOTATIONS

TVD	MD	Annotation
9822.54	9822.54	Start Build 12.00
10300.00	10572.54	Start 6752.54 hold at 10572.54 MD
10300.00	17325.07	TD at 17325.07

FORMATION TOP DETAILS

No formation data is available



Vertical Section at 359.99° (200 usf/in)

EOG Resources

Lea County, NM (Nad27)

Endurance 36 State Com

Endurance 36 State Com 5H

Wellbore #1

Plan: Plan #1 082412

EOG Resources

24 August, 2012



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	Database:	GCR DB v5000

Project: 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

Site:	Endurance 36 State Com				
Site Position:		Northing:	365,024.70 usft	Latitude:	32° 0' 3.7503 N
From:	Map	Easting:	748,111.00 usft	Longitude:	103° 31' 58.6703 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well:	Endurance 36 State Com 5H					
Well Position	+N/-S	0.00 usft	Northing:	365,036.00 usft	Latitude:	32° 0' 3.7574 N
	+E/-W	0.00 usft	Easting:	749,536.00 usft	Longitude:	103° 31' 42.1221 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,334.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	10/06/11	7.51	59.98	48,456

Design:		Plan #1 082412		
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	359.99

Survey Tool Program		Date	08/24/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	17,325.07	Plan #1 082412 (Wellbore #1)	MWD	MWD - Standard	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (%/100usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	-3,364.00	0.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
100.00	0.00	0.00	-3,264.00	100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
200.00	0.00	0.00	-3,164.00	200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
300.00	0.00	0.00	-3,064.00	300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
400.00	0.00	0.00	-2,964.00	400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
500.00	0.00	0.00	-2,864.00	500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
600.00	0.00	0.00	-2,764.00	600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
700.00	0.00	0.00	-2,664.00	700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
800.00	0.00	0.00	-2,564.00	800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
900.00	0.00	0.00	-2,464.00	900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,000.00	0.00	0.00	-2,364.00	1,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,100.00	0.00	0.00	-2,264.00	1,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,200.00	0.00	0.00	-2,164.00	1,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,300.00	0.00	0.00	-2,064.00	1,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,400.00	0.00	0.00	-1,964.00	1,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,500.00	0.00	0.00	-1,864.00	1,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,600.00	0.00	0.00	-1,764.00	1,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,700.00	0.00	0.00	-1,664.00	1,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,800.00	0.00	0.00	-1,564.00	1,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
1,900.00	0.00	0.00	-1,464.00	1,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,000.00	0.00	0.00	-1,364.00	2,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,100.00	0.00	0.00	-1,264.00	2,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,200.00	0.00	0.00	-1,164.00	2,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,300.00	0.00	0.00	-1,064.00	2,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,400.00	0.00	0.00	-964.00	2,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,500.00	0.00	0.00	-864.00	2,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,600.00	0.00	0.00	-764.00	2,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	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	-664.00	2,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,800.00	0.00	0.00	-564.00	2,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
2,900.00	0.00	0.00	-464.00	2,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,000.00	0.00	0.00	-364.00	3,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,100.00	0.00	0.00	-264.00	3,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,200.00	0.00	0.00	-164.00	3,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,300.00	0.00	0.00	-64.00	3,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,400.00	0.00	0.00	36.00	3,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,500.00	0.00	0.00	136.00	3,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,600.00	0.00	0.00	236.00	3,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,700.00	0.00	0.00	336.00	3,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,800.00	0.00	0.00	436.00	3,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
3,900.00	0.00	0.00	536.00	3,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,000.00	0.00	0.00	636.00	4,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,100.00	0.00	0.00	736.00	4,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,200.00	0.00	0.00	836.00	4,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,300.00	0.00	0.00	936.00	4,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,400.00	0.00	0.00	1,036.00	4,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,500.00	0.00	0.00	1,136.00	4,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,600.00	0.00	0.00	1,236.00	4,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,700.00	0.00	0.00	1,336.00	4,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,800.00	0.00	0.00	1,436.00	4,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
4,900.00	0.00	0.00	1,536.00	4,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
5,000.00	0.00	0.00	1,636.00	5,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
5,100.00	0.00	0.00	1,736.00	5,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
5,200.00	0.00	0.00	1,836.00	5,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
5,300.00	0.00	0.00	1,936.00	5,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	Database:	GCR DB v5000

Planned Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (°/100usft)	Northing (usft)	Easting (usft)	
5,400.00	0.00	0.00	2,036.00	5,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
5,500.00	0.00	0.00	2,136.00	5,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
5,600.00	0.00	0.00	2,236.00	5,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
5,700.00	0.00	0.00	2,336.00	5,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
5,800.00	0.00	0.00	2,436.00	5,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
5,900.00	0.00	0.00	2,536.00	5,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,000.00	0.00	0.00	2,636.00	6,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,100.00	0.00	0.00	2,736.00	6,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,200.00	0.00	0.00	2,836.00	6,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,300.00	0.00	0.00	2,936.00	6,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,400.00	0.00	0.00	3,036.00	6,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,500.00	0.00	0.00	3,136.00	6,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,600.00	0.00	0.00	3,236.00	6,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,700.00	0.00	0.00	3,336.00	6,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,800.00	0.00	0.00	3,436.00	6,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
6,900.00	0.00	0.00	3,536.00	6,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,000.00	0.00	0.00	3,636.00	7,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,100.00	0.00	0.00	3,736.00	7,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,200.00	0.00	0.00	3,836.00	7,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,300.00	0.00	0.00	3,936.00	7,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,400.00	0.00	0.00	4,036.00	7,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,500.00	0.00	0.00	4,136.00	7,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,600.00	0.00	0.00	4,236.00	7,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,700.00	0.00	0.00	4,336.00	7,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,800.00	0.00	0.00	4,436.00	7,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
7,900.00	0.00	0.00	4,536.00	7,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	
8,000.00	0.00	0.00	4,636.00	8,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	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)
8,100.00	0.00	0.00	4,736.00	8,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,200.00	0.00	0.00	4,836.00	8,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,300.00	0.00	0.00	4,936.00	8,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,400.00	0.00	0.00	5,036.00	8,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,500.00	0.00	0.00	5,136.00	8,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,600.00	0.00	0.00	5,236.00	8,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,700.00	0.00	0.00	5,336.00	8,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,800.00	0.00	0.00	5,436.00	8,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
8,900.00	0.00	0.00	5,536.00	8,900.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,000.00	0.00	0.00	5,636.00	9,000.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,100.00	0.00	0.00	5,736.00	9,100.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,200.00	0.00	0.00	5,836.00	9,200.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,300.00	0.00	0.00	5,936.00	9,300.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,400.00	0.00	0.00	6,036.00	9,400.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,500.00	0.00	0.00	6,136.00	9,500.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,600.00	0.00	0.00	6,236.00	9,600.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,700.00	0.00	0.00	6,336.00	9,700.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,800.00	0.00	0.00	6,436.00	9,800.00	0.00	0.00	0.00	0.00	365,036.00	749,536.00
9,822.54	0.00	0.00	6,458.54	9,822.54	0.00	0.00	0.00	0.00	365,036.00	749,536.00
Start Build 12.00										
9,900.00	9.30	359.99	6,535.66	9,899.66	6.27	0.00	6.27	12.00	365,042.27	749,536.00
10,000.00	21.30	359.99	6,631.94	9,995.94	32.60	0.00	32.60	12.00	365,068.60	749,536.00
10,100.00	33.30	359.99	6,720.64	10,084.64	78.38	-0.01	78.38	12.00	365,114.38	749,535.99
10,200.00	45.30	359.99	6,797.89	10,161.89	141.59	-0.02	141.59	12.00	365,177.59	749,535.98
10,300.00	57.30	359.99	6,860.31	10,224.31	219.49	-0.03	219.49	12.00	365,255.49	749,535.97
10,400.00	69.30	359.99	6,905.16	10,269.16	308.66	-0.04	308.66	12.00	365,344.66	749,535.96
10,500.00	81.30	359.99	6,930.50	10,294.50	405.21	-0.06	405.21	12.00	365,441.21	749,535.94

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	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)
10,572.54	90.00	359.99	6,936.00	10,300.00	477.46	-0.07	477.46	12.00	365,513.46	749,535.93
Start 6752.54 hold at 10572.54 MD										
10,600.00	90.00	359.99	6,936.00	10,300.00	504.93	-0.07	504.93	0.00	365,540.93	749,535.93
10,700.00	90.00	359.99	6,936.00	10,300.00	604.93	-0.08	604.93	0.00	365,640.93	749,535.92
10,800.00	90.00	359.99	6,936.00	10,300.00	704.93	-0.10	704.93	0.00	365,740.93	749,535.90
10,900.00	90.00	359.99	6,936.00	10,300.00	804.93	-0.11	804.93	0.00	365,840.93	749,535.89
11,000.00	90.00	359.99	6,936.00	10,300.00	904.93	-0.13	904.93	0.00	365,940.93	749,535.87
11,100.00	90.00	359.99	6,936.00	10,300.00	1,004.93	-0.14	1,004.93	0.00	366,040.93	749,535.86
11,200.00	90.00	359.99	6,936.00	10,300.00	1,104.93	-0.15	1,104.93	0.00	366,140.93	749,535.85
11,300.00	90.00	359.99	6,936.00	10,300.00	1,204.93	-0.17	1,204.93	0.00	366,240.93	749,535.83
11,400.00	90.00	359.99	6,936.00	10,300.00	1,304.93	-0.18	1,304.93	0.00	366,340.93	749,535.82
11,500.00	90.00	359.99	6,936.00	10,300.00	1,404.93	-0.19	1,404.93	0.00	366,440.93	749,535.81
11,600.00	90.00	359.99	6,936.00	10,300.00	1,504.93	-0.21	1,504.93	0.00	366,540.93	749,535.79
11,700.00	90.00	359.99	6,936.00	10,300.00	1,604.93	-0.22	1,604.93	0.00	366,640.93	749,535.78
11,800.00	90.00	359.99	6,936.00	10,300.00	1,704.93	-0.24	1,704.93	0.00	366,740.93	749,535.76
11,900.00	90.00	359.99	6,936.00	10,300.00	1,804.93	-0.25	1,804.93	0.00	366,840.93	749,535.75
12,000.00	90.00	359.99	6,936.00	10,300.00	1,904.93	-0.26	1,904.93	0.00	366,940.93	749,535.74
12,100.00	90.00	359.99	6,936.00	10,300.00	2,004.93	-0.28	2,004.93	0.00	367,040.93	749,535.72
12,200.00	90.00	359.99	6,936.00	10,300.00	2,104.93	-0.29	2,104.93	0.00	367,140.93	749,535.71
12,300.00	90.00	359.99	6,936.00	10,300.00	2,204.93	-0.30	2,204.93	0.00	367,240.93	749,535.70
12,400.00	90.00	359.99	6,936.00	10,300.00	2,304.93	-0.32	2,304.93	0.00	367,340.93	749,535.68
12,500.00	90.00	359.99	6,936.00	10,300.00	2,404.93	-0.33	2,404.93	0.00	367,440.93	749,535.67
12,600.00	90.00	359.99	6,936.00	10,300.00	2,504.93	-0.35	2,504.93	0.00	367,540.93	749,535.65
12,700.00	90.00	359.99	6,936.00	10,300.00	2,604.93	-0.36	2,604.93	0.00	367,640.93	749,535.64
12,800.00	90.00	359.99	6,936.00	10,300.00	2,704.93	-0.37	2,704.93	0.00	367,740.93	749,535.63
12,900.00	90.00	359.99	6,936.00	10,300.00	2,804.93	-0.39	2,804.93	0.00	367,840.93	749,535.61
13,000.00	90.00	359.99	6,936.00	10,300.00	2,904.93	-0.40	2,904.93	0.00	367,940.93	749,535.60

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	Database:	GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLog (°/100usft)	Northing (usft)	Easting (usft)
13,100.00	90.00	359.99	6,936.00	10,300.00	3,004.93	-0.42	3,004.93	0.00	368,040.93	749,535.58
13,200.00	90.00	359.99	6,936.00	10,300.00	3,104.93	-0.43	3,104.93	0.00	368,140.93	749,535.57
13,300.00	90.00	359.99	6,936.00	10,300.00	3,204.93	-0.44	3,204.93	0.00	368,240.93	749,535.56
13,400.00	90.00	359.99	6,936.00	10,300.00	3,304.93	-0.46	3,304.93	0.00	368,340.93	749,535.54
13,500.00	90.00	359.99	6,936.00	10,300.00	3,404.93	-0.47	3,404.93	0.00	368,440.93	749,535.53
13,600.00	90.00	359.99	6,936.00	10,300.00	3,504.93	-0.48	3,504.93	0.00	368,540.93	749,535.52
13,700.00	90.00	359.99	6,936.00	10,300.00	3,604.93	-0.50	3,604.93	0.00	368,640.93	749,535.50
13,800.00	90.00	359.99	6,936.00	10,300.00	3,704.93	-0.51	3,704.93	0.00	368,740.93	749,535.49
13,900.00	90.00	359.99	6,936.00	10,300.00	3,804.93	-0.53	3,804.93	0.00	368,840.93	749,535.47
14,000.00	90.00	359.99	6,936.00	10,300.00	3,904.93	-0.54	3,904.93	0.00	368,940.93	749,535.46
14,100.00	90.00	359.99	6,936.00	10,300.00	4,004.93	-0.55	4,004.93	0.00	369,040.93	749,535.45
14,200.00	90.00	359.99	6,936.00	10,300.00	4,104.93	-0.57	4,104.93	0.00	369,140.93	749,535.43
14,300.00	90.00	359.99	6,936.00	10,300.00	4,204.93	-0.58	4,204.93	0.00	369,240.93	749,535.42
14,400.00	90.00	359.99	6,936.00	10,300.00	4,304.93	-0.60	4,304.93	0.00	369,340.93	749,535.40
14,500.00	90.00	359.99	6,936.00	10,300.00	4,404.93	-0.61	4,404.93	0.00	369,440.93	749,535.39
14,600.00	90.00	359.99	6,936.00	10,300.00	4,504.93	-0.62	4,504.93	0.00	369,540.93	749,535.38
14,700.00	90.00	359.99	6,936.00	10,300.00	4,604.93	-0.64	4,604.93	0.00	369,640.93	749,535.36
14,800.00	90.00	359.99	6,936.00	10,300.00	4,704.93	-0.65	4,704.93	0.00	369,740.93	749,535.35
14,900.00	90.00	359.99	6,936.00	10,300.00	4,804.93	-0.66	4,804.93	0.00	369,840.93	749,535.34
15,000.00	90.00	359.99	6,936.00	10,300.00	4,904.93	-0.68	4,904.93	0.00	369,940.93	749,535.32
15,100.00	90.00	359.99	6,936.00	10,300.00	5,004.93	-0.69	5,004.93	0.00	370,040.93	749,535.31
15,200.00	90.00	359.99	6,936.00	10,300.00	5,104.93	-0.71	5,104.93	0.00	370,140.93	749,535.29
15,300.00	90.00	359.99	6,936.00	10,300.00	5,204.93	-0.72	5,204.93	0.00	370,240.93	749,535.28
15,400.00	90.00	359.99	6,936.00	10,300.00	5,304.93	-0.73	5,304.93	0.00	370,340.93	749,535.27
15,500.00	90.00	359.99	6,936.00	10,300.00	5,404.93	-0.75	5,404.93	0.00	370,440.93	749,535.25
15,600.00	90.00	359.99	6,936.00	10,300.00	5,504.93	-0.76	5,504.93	0.00	370,540.93	749,535.24
15,700.00	90.00	359.99	6,936.00	10,300.00	5,604.93	-0.78	5,604.93	0.00	370,640.93	749,535.22

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	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)
15,800.00	90.00	359.99	6,936.00	10,300.00	5,704.93	-0.79	5,704.93	0.00	370,740.93	749,535.21
15,900.00	90.00	359.99	6,936.00	10,300.00	5,804.93	-0.80	5,804.93	0.00	370,840.93	749,535.20
16,000.00	90.00	359.99	6,936.00	10,300.00	5,904.93	-0.82	5,904.93	0.00	370,940.93	749,535.18
16,100.00	90.00	359.99	6,936.00	10,300.00	6,004.93	-0.83	6,004.93	0.00	371,040.93	749,535.17
16,200.00	90.00	359.99	6,936.00	10,300.00	6,104.93	-0.84	6,104.93	0.00	371,140.93	749,535.16
16,300.00	90.00	359.99	6,936.00	10,300.00	6,204.93	-0.86	6,204.93	0.00	371,240.93	749,535.14
16,400.00	90.00	359.99	6,936.00	10,300.00	6,304.93	-0.87	6,304.93	0.00	371,340.93	749,535.13
16,500.00	90.00	359.99	6,936.00	10,300.00	6,404.93	-0.89	6,404.93	0.00	371,440.93	749,535.11
16,600.00	90.00	359.99	6,936.00	10,300.00	6,504.93	-0.90	6,504.93	0.00	371,540.93	749,535.10
16,700.00	90.00	359.99	6,936.00	10,300.00	6,604.93	-0.91	6,604.93	0.00	371,640.93	749,535.09
16,800.00	90.00	359.99	6,936.00	10,300.00	6,704.93	-0.93	6,704.93	0.00	371,740.93	749,535.07
16,900.00	90.00	359.99	6,936.00	10,300.00	6,804.93	-0.94	6,804.93	0.00	371,840.93	749,535.06
17,000.00	90.00	359.99	6,936.00	10,300.00	6,904.93	-0.96	6,904.93	0.00	371,940.93	749,535.04
17,100.00	90.00	359.99	6,936.00	10,300.00	7,004.93	-0.97	7,004.93	0.00	372,040.93	749,535.03
17,200.00	90.00	359.99	6,936.00	10,300.00	7,104.93	-0.98	7,104.93	0.00	372,140.93	749,535.02
17,300.00	90.00	359.99	6,936.00	10,300.00	7,204.93	-1.00	7,204.93	0.00	372,240.93	749,535.00
17,325.07	90.00	359.99	6,936.00	10,300.00	7,230.00	-1.00	7,230.00	0.00	372,266.00	749,535.00

TD at 17325.07

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,822.54	9,822.54	0.00	0.00	Start Build 12.00
10,572.54	10,300.00	477.46	-0.07	Start 6752.54 hold at 10572.54 MD
17,325.07	10,300.00	7,230.00	-1.00	TD at 17325.07

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Site:	Endurance 36 State Com	MD Reference:	Well @ 3364.00usft (Original Well Elev + 30' KB)
Well:	Endurance 36 State Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1 082412	Database:	GCR DB v5000

Checked By: _____	Approved By: _____	Date: _____
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EOG RESOURCES, INC.
ENDURANCE 36 STATE COM 5H

ATTACHMENT TO EXHIBIT #1

1. Wear ring to be properly installed in head.
2. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum. Exhibit #1.
3. All fittings to be flanged
4. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
5. All choke and fill lines to be securely anchored especially ends of choke lines.
6. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
7. Kelly cock on kelly.
8. Extension wrenches and hand wheels to be properly installed.
9. Blow out preventer control to be located as close to driller's position as feasible.
10. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

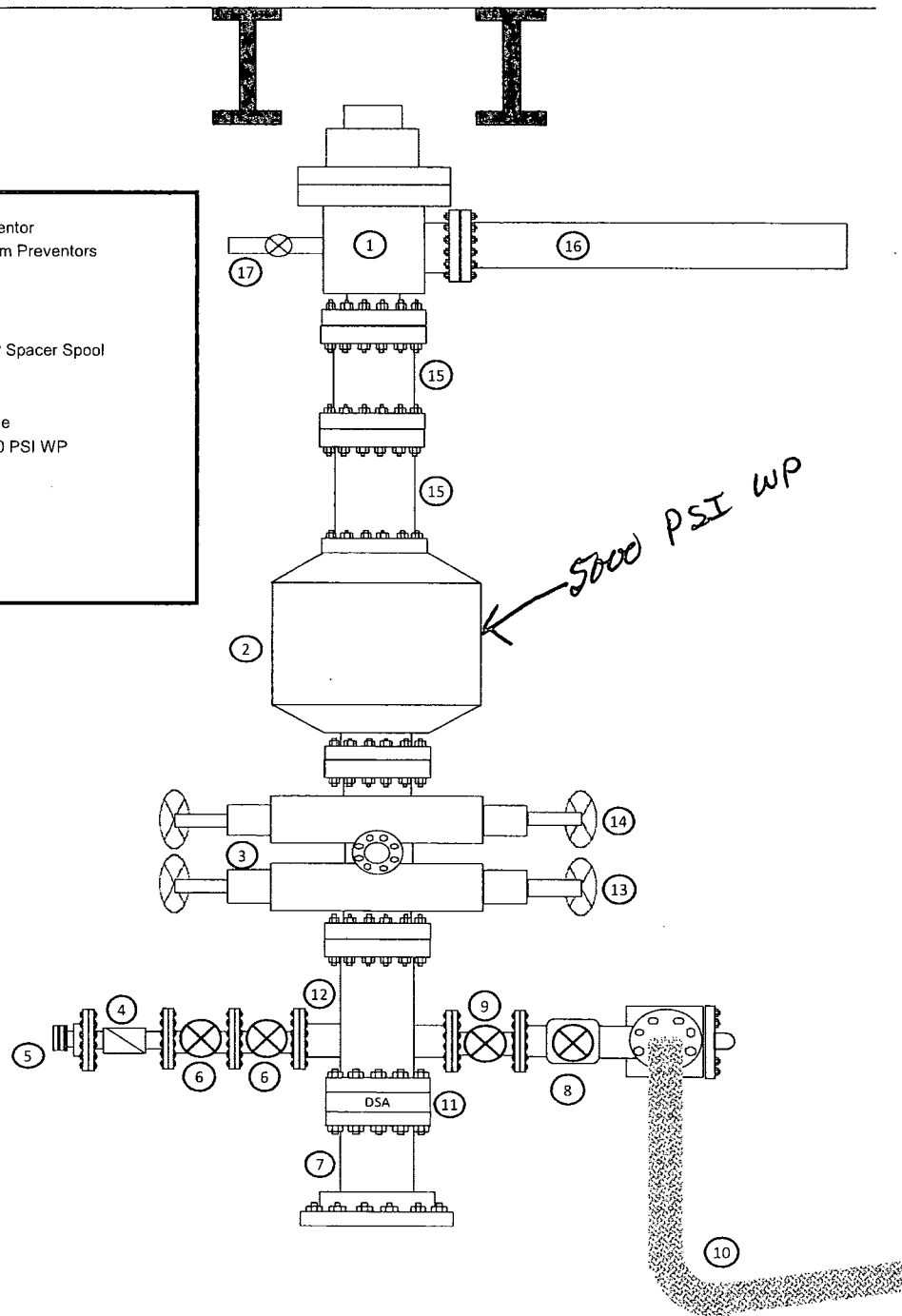
Exhibit 1

EOG Resources

10M BOPE

Rig Floor

1. 13 5/8" Rotating Head
2. Hydril 13 5/8" 5,000 PSI WP GK Annular Preventor
3. 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors
4. 2 1/16" - 10,000 PSI WP Check Valve
5. 10,000 PSI WP - 1502 Union to kill line
6. 2 1/16" - 10,000 PSI WP Manual Valves
7. 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool
8. 4 1/16" 10,000 PSI WP HCR Valve
9. 4 1/16" 10,000 PSI WP Manual Valve
10. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP
12. Mud Cross - 13 5/8" 10,000 PSI WP
13. Blind Rams
14. Pipe Rams
15. 13 5/8" 5,000 PSI WP Spacer Spools
16. Flow Line
17. 2" Fill Line



EOG Resources

10M BOPE

- ## EOG Resources 10M BOPE
1. Cameron 2 1/16" 10,000 PSI WP Gate Valve
 2. 4 1/16" 10,000 PSI WP Manual Choke
 3. Cameron 4 1/16" 10,000 PSI WP Manual Valve
 4. 8" OD x 4" ID 10,000 PSI WP Flex Choke Line
 5. Cameron 4 1/16" 10,000 PSI WP Manual Valve & Pressure Gauge on Pressure Block
 6. 10,000 PSI WP Hyrdraulic Choke Valve
 7. 8" Expansion Chamber
 8. LP Butterfly Valve
 9. LP Valve
 10. 4" Panic Line
 11. 6" Butterfly Valve
 12. 10-3/4" Butterfly Valve
 13. 6" Butterfly Valve
- The diagram illustrates the 10M BOPE system layout. At the top, a horizontal line represents the wellhead with a flow arrow pointing right, labeled "To Shale Shaker". Below this, a large circular "Mud Gas Separator" is shown. A diagonal line connects the separator to a vertical "8" Expansion Chamber" (labeled 7). The expansion chamber has two side ports, each with a "6" Butterfly Valve" (labeled 11). The bottom of the expansion chamber connects to a vertical line that leads to a "4" Panic Line" (labeled 10) with a flow arrow pointing right, labeled "150'". The expansion chamber also has a "10-3/4" Butterfly Valve" (labeled 12) on its top. The system includes various valves and chokes: a "Cameron 2 1/16" 10,000 PSI WP Gate Valve" (labeled 1) at the top, a "4 1/16" 10,000 PSI WP Manual Choke" (labeled 2) on the left, and several "Cameron 4 1/16" 10,000 PSI WP Manual Valves" (labeled 3) throughout the system. A "10,000 PSI WP Hyrdraulic Choke Valve" (labeled 6) is located at the bottom left. The system also includes a "6" Butterfly Valve" (labeled 13) and a "10-3/4" Butterfly Valve" (labeled 12) on the right side. The flow path is indicated by arrows, showing the direction from the wellhead through the separator and expansion chamber to the shale shaker and flare.

Manufacturer: Midwest Hose & Specialty

Serial Number: SN#90067

Length: 35'

Size: OD = 8" ID = 4"

Ends: Flanges Size: 4-1/16"

WP Rating: 10,000 psi Anchors required by manufacturer: No

M I D W E S T
HOSE AND SPECIALTY INC.

INTERNAL HYDROSTATIC TEST REPORT		
Customer: CACTUS		P.O. Number: RIG #123
Asset # M10761		
HOSE SPECIFICATIONS		
Type: CHOKER LINE		Length: 35'
I.D. 4" INCHES		O.D. 8" INCHES
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE PSI
COUPLINGS		
Type of End Fitting 4 1/16 10K FLANGE		
Type of Coupling: SWEDGED		MANUFACTURED BY MIDWEST HOSE & SPECIALTY
PROCEDURE		
<u>Hose assembly pressure tested with water at ambient temperature.</u>		
TIME HELD AT TEST PRESSURE 1 MIN.		ACTUAL BURST PRESSURE: 0 PSI
COMMENTS: SN#90067 M10761 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes		
Date: 6/6/2011	Tested By: BOBBY FINK	Approved: MENDI JACKSON



Midwest Hose
& Specialty, Inc.

Internal Hydrostatic Test Graph

Customer: CACTUS

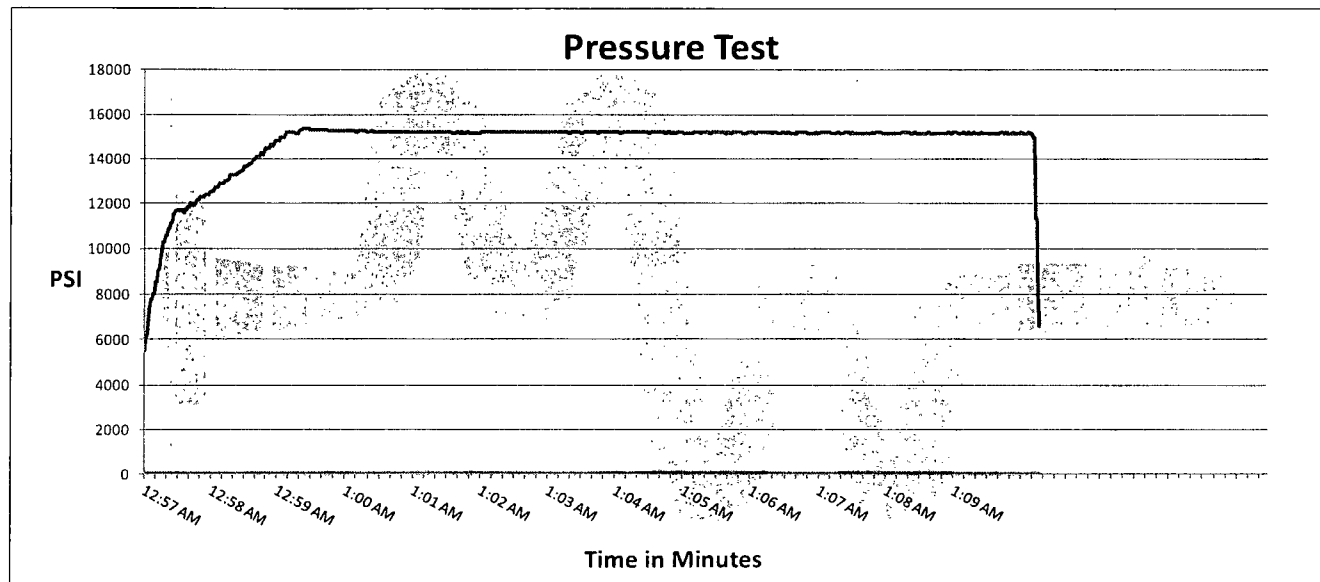
SALES ORDER# 90067

Hose Specifications

<u>Hose Type</u>	<u>Length</u>
C & K	35'
<u>I.D.</u>	<u>O.D.</u>
4"	8"
<u>Working Pressure</u>	<u>Burst Pressure</u>
10000 PSI	Standard Safety Multiplier Applies

Verification

<u>Type of Fitting</u>	<u>Coupling Method</u>
4 1/16 10K	Swage
<u>Die Size</u>	<u>Final O.D.</u>
6.62"	6.68"
<u>Hose Serial #</u>	<u>Hose Assembly Serial #</u>
	90067



Test Pressure
15000 PSI

Time Held at Test Pressure
11 1/4 Minutes

Actual Burst Pressure

Peak Pressure
15439 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Bobby Fink

Approved By: Mendi Jackson