

APR 27 2012

OCD-HOBBS

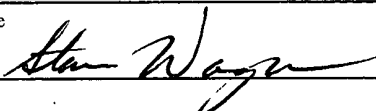
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NM14497 (SHL) NM108500 (BHL)
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		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. Diamond 8 Fed Com 5H
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 330' FNL & 1310' FWL, U/L D NON-STANDARD LOCATION At proposed prod. zone 330' FSL & 1310' FWL, U/L M		9. API Well No. 30-025-40552
14. Distance in miles and direction from nearest town or post office* Approximately +/- 21 miles West from Jal NM		10. Field and Pool, or Exploratory WC Red Hills; Bone Spring UP SHA
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 330'	16. No. of Acres in lease 998.25	11. Sec., T., R., M., or Blk. and Survey or Area Sec 8, T25S, R34E 97900
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 440' to 3H	19. Proposed Depth 9526' V - 13900' M	12. County or Parish Lea
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3386' GL	22. Approximate date work will start* 03/01/2012	13. State NM
17. Spacing Unit dedicated to this well 320		
20. BLM/BIA Bond No. on file NM 2308		
23. Estimated duration 25 days		

24. Attachments

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 12/5/11
Title Regulatory Analyst		
Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date APR 25 2012
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

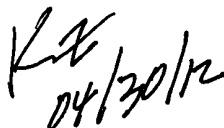
APPROVAL FOR TWO YEARS

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)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations AttachedSEE ATTACHED FOR
CONDITIONS OF APPROVAL

MAY 01 2012

EOG RESOURCES, INC.
DIAMOND 8 FED COM NO. 5H

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,100'
Top of Salt	1,420'
Base of Salt	5,050'
Lamar	5,260'
Bell Canyon	5,288'
Cherry Canyon	6,260'
Brushy Canyon	7,860'
Bone Spring Lime	9,240'
TD	9,526'

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

Upper Permian Sands	0- 400'	Fresh Water
Bell Canyon	5,288'	Oil
Cherry Canyon	6,260'	Oil
Brushy Canyon	7,860'	Oil
Bone Spring Lime	9,240'	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 1,125' and
circulating cement back to surface. *See COA*

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 - 1125'	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' - 5280'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0' - 13,900'	5.5"	17#	HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
DIAMOND 8 FED COM NO. 5H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
1,125'	500	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl ₂ + 0.25 lb/sk Cello-Flake
	200	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
5,280'	925	12.7	2.22	Lead: Class 'C' + 1.25% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate
	200	14.8	1.34	Tail: Class 'C' + 0.50% FL-62 + 0.10% SMS + 1.00% CaCl ₂ + 0.50% R-3 + 0.005 lb/sk Static Free
13,900'	125	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 @ 4700')
	450	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
	1225	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:

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 3000/ 250 psig and the annular preventer to 2500/ 250 psig. The surface casing will be tested to 1400 psi for 30 minutes.

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 2500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

EOG RESOURCES, INC.
DIAMOND 8 FED COM NO. 5H

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 COM

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,125'	Fresh - Gel	8.6-8.8	28-34	N/C
1,125' - 5,280'	Brine	10.0-10.2	28-34	N/C
5,280' - 9,012'	Fresh Water	8.4-8.6	28-34	N/C
9,012' - 13,900' Lateral	Cut Brine - XCD	9.0-9.5	40-42	8-10

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 1,125' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR-CCL

Will be run in cased hole during completions phase of operations.

EOG RESOURCES, INC.
DIAMOND 8 FED COM NO. 5H

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

The estimated bottom hole temperature (BHT) at TD is 155 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4200 psig. 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 30-60 days will be required for completion and testing before a decision is made to install permanent facilities.

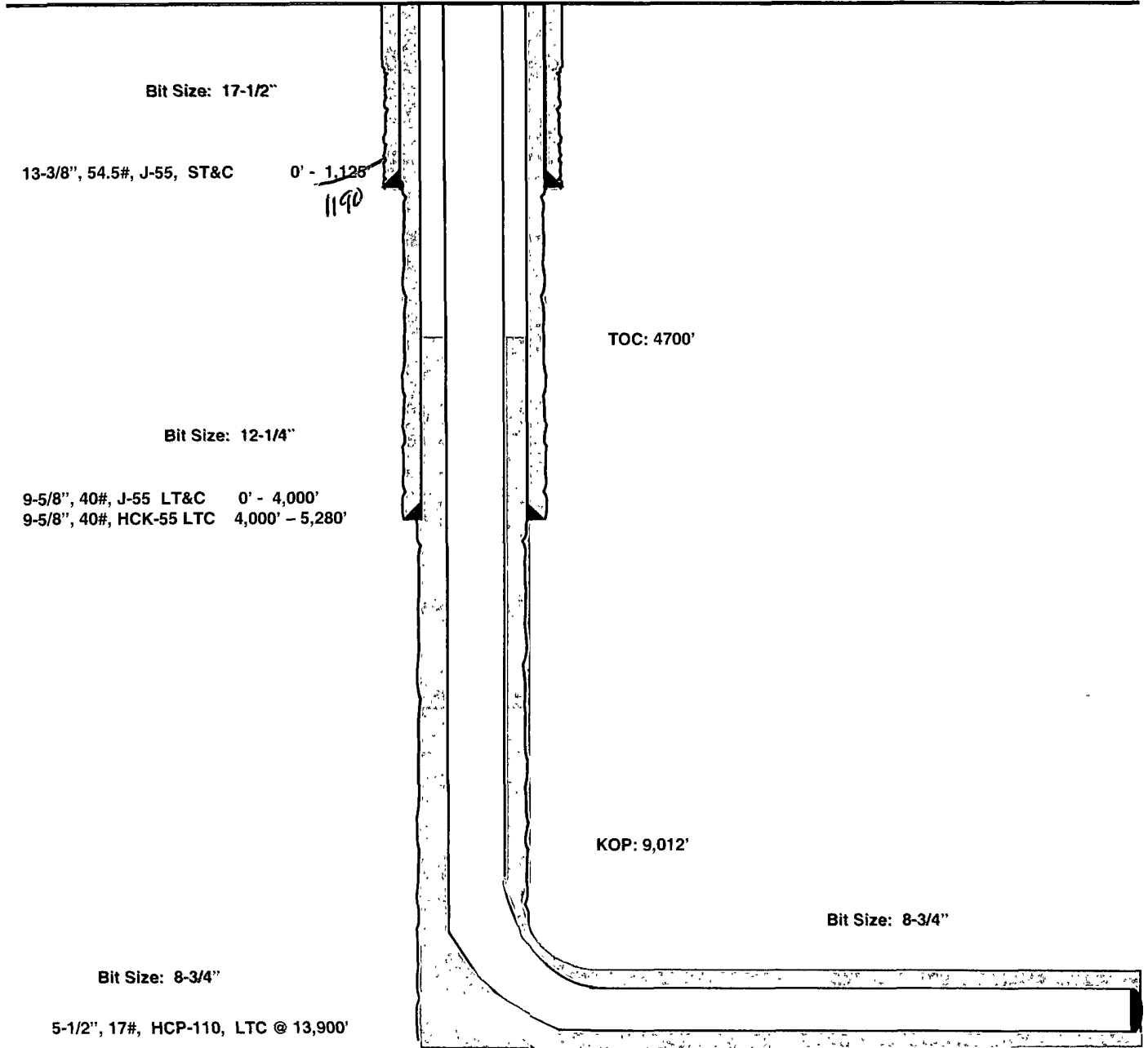
Diamond 8 Fed Com #5H
Red Hills
Lea County, New Mexico

330' FNL
1310' FWL
Section 8
T-25-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,416.4'
GL: 3,386.4'



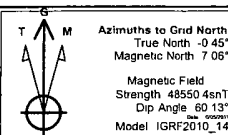
Bone Spring Lateral: 13,900' MD, 9,526' TVD

BH Location: 330' FSL & 1310' FWL
Section 8
T-25-S, R-34-E

EOG Resources

Project: Lea County, NM (Nad27)
Site: Diamond 8 Federal
Well: Diamond 8 Fed Com 5H
Wellbore: Wellbore #1
Plan: Plan #2 111011
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 5H

Ground Level 3398 80
 Northing 419760 00 Easting 759209 50 Latitude 32° 9' 4 555 N 03° 29' 44 860 W Longitude

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name TVD +N/-S +E/-W Northing Easting Shape
 BHL Diamond Fed 5H 9526 14 -4614 50 35 50 415145 50 759245 00 Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSeet
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
9012 55	0 00	0 00	9012 55	0 00	0 00	0 00	0 00	0 00
9758 39	89 50	179 56	9490 00	-473 28	3 64	12 00	179 56	473 30
13899 88	89 50	179 56	9526 14	-4614 50	35 50	0 00	0 00	4614 64

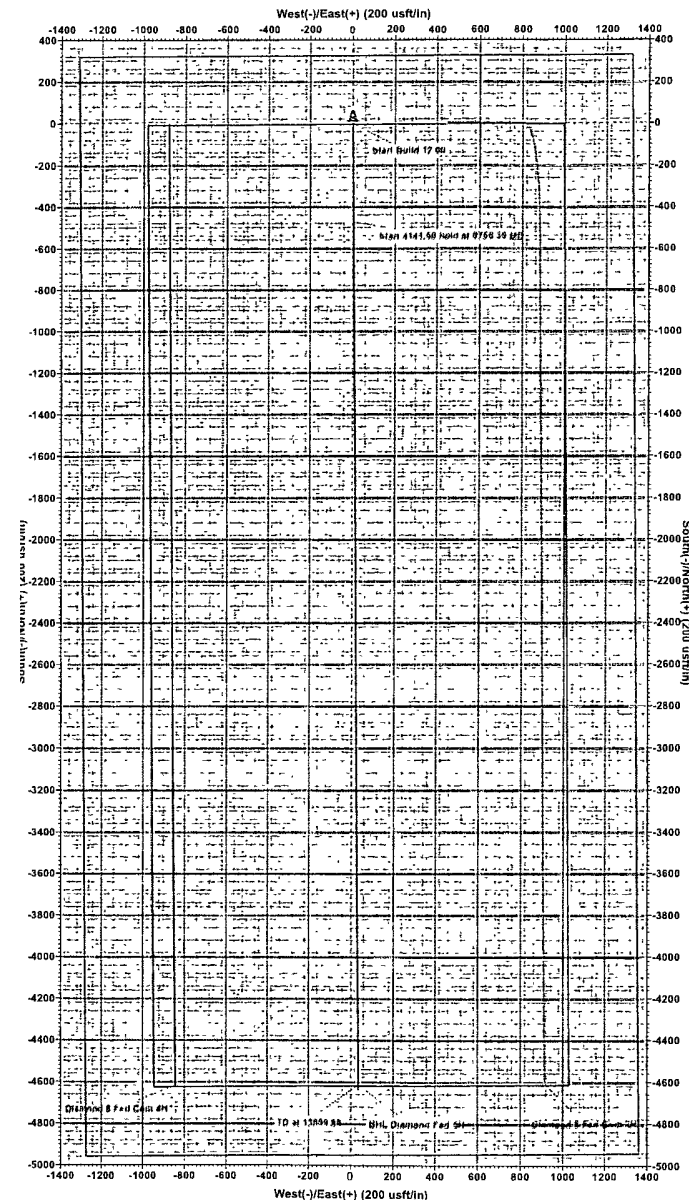
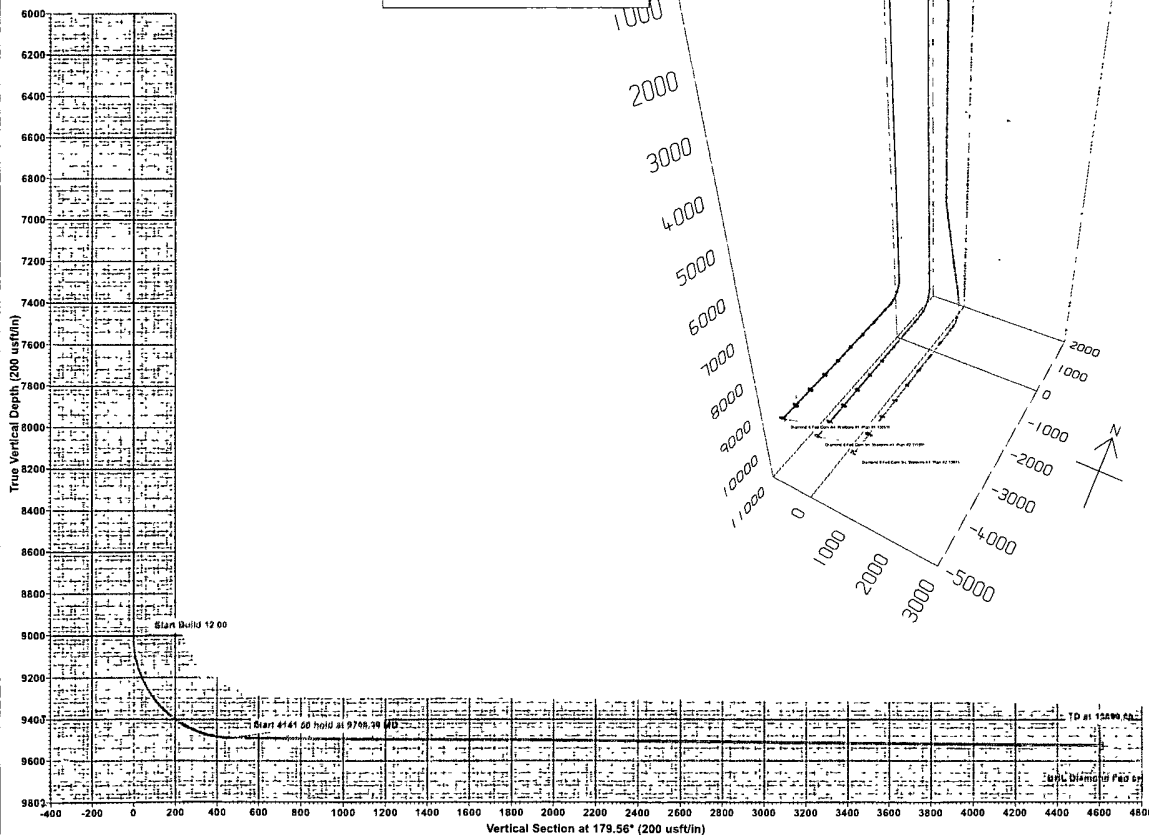
BHL Diamond Fed 5H

ANNOTATIONS

TVD	MD	Annotation
9012 55	9012 55	Start Build 12 00
9490 00	9758 39	Start 4141 50 hold at 9758 39 MD
9526 13	13899 00	TD at 13899 88

FORMATION TOP DETAILS

No formation data is available



HOBBS OCD

APR 27 2012

RECEIVED

EOG Resources

Lea County, NM (Nad27)

Diamond 8 Federal

Diamond 8 Fed Com 5H

Wellbore #1

Plan: Plan #2 111011

EOG Resources

10 November, 2011



Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	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:	Diamond 8 Federal		
Site Position:		Northing:	419,755.70 usft
From:	Map	Easting:	758,329.50 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 4.580 N
		Longitude:	103° 29' 55.096 W
		Grid Convergence:	0.44 °

Well:	Diamond 8 Fed Com 5H			
Well Position	+N/-S	0.00 usft	Northing:	419,760.00 usft
	+E/-W	0.00 usft	Easting:	759,209.50 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Latitude:	32° 9' 4.555 N
			Longitude:	103° 29' 44.860 W
			Ground Level:	3,398.80 usft

Wellbore	Wellbore #1				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	10/05/11	7 51	60.13	48,550

Design	Plan #2 111011				
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	179.56	

Survey Tool/Program	Date	11/10/11		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	13,899.74	Plan #2 111011 (Wellbore #1)	MWD	MWD - Standard

Phoenix Technology Services
EOG Resources



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Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	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	-3,428.80	0.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
100.00	0.00	0.00	-3,328.80	100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
200.00	0.00	0.00	-3,228.80	200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
300.00	0.00	0.00	-3,128.80	300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
400.00	0.00	0.00	-3,028.80	400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
500.00	0.00	0.00	-2,928.80	500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
600.00	0.00	0.00	-2,828.80	600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
700.00	0.00	0.00	-2,728.80	700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
800.00	0.00	0.00	-2,628.80	800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
900.00	0.00	0.00	-2,528.80	900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,000.00	0.00	0.00	-2,428.80	1,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,100.00	0.00	0.00	-2,328.80	1,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,200.00	0.00	0.00	-2,228.80	1,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,300.00	0.00	0.00	-2,128.80	1,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,400.00	0.00	0.00	-2,028.80	1,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,500.00	0.00	0.00	-1,928.80	1,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,600.00	0.00	0.00	-1,828.80	1,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,700.00	0.00	0.00	-1,728.80	1,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,800.00	0.00	0.00	-1,628.80	1,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
1,900.00	0.00	0.00	-1,528.80	1,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,000.00	0.00	0.00	-1,428.80	2,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,100.00	0.00	0.00	-1,328.80	2,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,200.00	0.00	0.00	-1,228.80	2,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,300.00	0.00	0.00	-1,128.80	2,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,400.00	0.00	0.00	-1,028.80	2,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,500.00	0.00	0.00	-928.80	2,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,600.00	0.00	0.00	-828.80	2,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	

Phoenix Technology Services
EOG Resources



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2,700.00	0.00	0 00	-728.80	2,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
2,800.00	0.00	0 00	-628.80	2,800.00	0 00	0.00	0 00	0.00	419,760.00	759,209.50	
2,900.00	0.00	0.00	-528.80	2,900.00	0 00	0.00	0 00	0.00	419,760.00	759,209.50	
3,000.00	0 00	0.00	-428.80	3,000.00	0 00	0.00	0.00	0.00	419,760.00	759,209.50	
3,100.00	0.00	0.00	-328.80	3,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
3,200.00	0.00	0.00	-228.80	3,200.00	0 00	0.00	0.00	0.00	419,760.00	759,209.50	
3,300.00	0.00	0.00	-128.80	3,300.00	0.00	0.00	0.00	0 00	419,760.00	759,209.50	
3,400.00	0.00	0.00	-28.80	3,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
3,500.00	0.00	0.00	71.20	3,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
3,600.00	0.00	0.00	171.20	3,600.00	0.00	0 00	0.00	0.00	419,760.00	759,209.50	
3,700.00	0.00	0.00	271.20	3,700.00	0.00	0 00	0.00	0.00	419,760.00	759,209.50	
3,800.00	0.00	0.00	371.20	3,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
3,900.00	0.00	0.00	471.20	3,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,000.00	0.00	0.00	571.20	4,000.00	0 00	0.00	0.00	0.00	419,760.00	759,209.50	
4,100.00	0.00	0.00	671.20	4,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,200.00	0 00	0.00	771.20	4,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,300.00	0.00	0.00	871.20	4,300.00	0 00	0.00	0.00	0.00	419,760.00	759,209.50	
4,400.00	0.00	0 00	971.20	4,400.00	0.00	0 00	0.00	0.00	419,760.00	759,209.50	
4,500.00	0 00	0 00	1,071.20	4,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,600.00	0 00	0.00	1,171.20	4,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,700.00	0 00	0.00	1,271.20	4,700.00	0.00	0.00	0 00	0.00	419,760.00	759,209.50	
4,800.00	0.00	0 00	1,371.20	4,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
4,900.00	0.00	0.00	1,471.20	4,900.00	0.00	0.00	0 00	0.00	419,760.00	759,209.50	
5,000.00	0.00	0.00	1,571.20	5,000.00	0.00	0.00	0.00	0 00	419,760.00	759,209.50	
5,100.00	0.00	0.00	1,671.20	5,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
5,200.00	0.00	0.00	1,771.20	5,200.00	0.00	0 00	0.00	0.00	419,760.00	759,209.50	
5,300.00	0.00	0.00	1,871.20	5,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428 80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428 80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	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)		
5,400.00	0.00	0.00	1,971.20	5,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
5,500.00	0.00	0.00	2,071.20	5,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
5,600.00	0.00	0.00	2,171.20	5,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
5,700.00	0.00	0.00	2,271.20	5,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
5,800.00	0.00	0.00	2,371.20	5,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
5,900.00	0.00	0.00	2,471.20	5,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,000.00	0.00	0.00	2,571.20	6,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,100.00	0.00	0.00	2,671.20	6,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,200.00	0.00	0.00	2,771.20	6,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,300.00	0.00	0.00	2,871.20	6,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,400.00	0.00	0.00	2,971.20	6,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,500.00	0.00	0.00	3,071.20	6,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,600.00	0.00	0.00	3,171.20	6,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,700.00	0.00	0.00	3,271.20	6,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,800.00	0.00	0.00	3,371.20	6,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
6,900.00	0.00	0.00	3,471.20	6,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,000.00	0.00	0.00	3,571.20	7,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,100.00	0.00	0.00	3,671.20	7,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,200.00	0.00	0.00	3,771.20	7,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,300.00	0.00	0.00	3,871.20	7,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,400.00	0.00	0.00	3,971.20	7,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,500.00	0.00	0.00	4,071.20	7,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,600.00	0.00	0.00	4,171.20	7,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,700.00	0.00	0.00	4,271.20	7,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,800.00	0.00	0.00	4,371.20	7,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
7,900.00	0.00	0.00	4,471.20	7,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		
8,000.00	0.00	0.00	4,571.20	8,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50		

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	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	4,671.20	8,100.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,200.00	0.00	0.00	4,771.20	8,200.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,300.00	0.00	0.00	4,871.20	8,300.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,400.00	0.00	0.00	4,971.20	8,400.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,500.00	0.00	0.00	5,071.20	8,500.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,600.00	0.00	0.00	5,171.20	8,600.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,700.00	0.00	0.00	5,271.20	8,700.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,800.00	0.00	0.00	5,371.20	8,800.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
8,900.00	0.00	0.00	5,471.20	8,900.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
9,000.00	0.00	0.00	5,571.20	9,000.00	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
9,012.55	0.00	0.00	5,583.75	9,012.55	0.00	0.00	0.00	0.00	419,760.00	759,209.50	
Start Build 12.00											
9,100.00	10.49	179.56	5,670.71	9,099.51	-7.99	0.06	7.99	12.00	419,752.01	759,209.56	
9,200.00	22.49	179.56	5,766.42	9,195.22	-36.32	0.28	36.32	12.00	419,723.68	759,209.78	
9,300.00	34.49	179.56	5,854.15	9,282.95	-83.94	0.65	83.94	12.00	419,676.06	759,210.15	
9,400.00	46.49	179.56	5,930.06	9,358.86	-148.76	1.14	148.76	12.00	419,611.24	759,210.64	
9,500.00	58.49	179.56	5,990.83	9,419.63	-227.94	1.75	227.95	12.00	419,532.06	759,211.25	
9,600.00	70.49	179.56	6,033.81	9,462.61	-318.02	2.45	318.03	12.00	419,441.98	759,211.95	
9,700.00	82.49	179.56	6,057.13	9,485.93	-415.08	3.19	415.09	12.00	419,344.92	759,212.69	
9,758.39	89.50	179.56	6,061.20	9,490.00	-473.28	3.64	473.30	12.00	419,286.72	759,213.14	
Start 4141.50 hold at 9758.39 MD											
9,800.00	89.50	179.56	6,061.56	9,490.36	-514.90	3.96	514.91	0.00	419,245.10	759,213.46	
9,900.00	89.50	179.56	6,062.43	9,491.23	-614.89	4.73	614.91	0.00	419,145.11	759,214.23	
10,000.00	89.50	179.56	6,063.31	9,492.11	-714.88	5.50	714.90	0.00	419,045.12	759,215.00	
10,100.00	89.50	179.56	6,064.18	9,492.98	-814.88	6.27	814.90	0.00	418,945.12	759,215.77	
10,200.00	89.50	179.56	6,065.05	9,493.85	-914.87	7.04	914.90	0.00	418,845.13	759,216.54	
10,300.00	89.50	179.56	6,065.93	9,494.73	-1,014.86	7.81	1,014.89	0.00	418,745.14	759,217.31	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	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)
10,400.00	89.50	179.56	6,066.80	9,495.60	-1,114.86	8.58	1,114.89	0.00	418,645.14	759,218.08
10,500.00	89.50	179.56	6,067.67	9,496.47	-1,214.85	9.35	1,214.88	0.00	418,545.15	759,218.85
10,600.00	89.50	179.56	6,068.54	9,497.34	-1,314.84	10.12	1,314.88	0.00	418,445.16	759,219.62
10,700.00	89.50	179.56	6,069.42	9,498.22	-1,414.83	10.88	1,414.88	0.00	418,345.17	759,220.38
10,800.00	89.50	179.56	6,070.29	9,499.09	-1,514.83	11.65	1,514.87	0.00	418,245.17	759,221.15
10,900.00	89.50	179.56	6,071.16	9,499.96	-1,614.82	12.42	1,614.87	0.00	418,145.18	759,221.92
11,000.00	89.50	179.56	6,072.03	9,500.83	-1,714.81	13.19	1,714.87	0.00	418,045.19	759,222.69
11,100.00	89.50	179.56	6,072.91	9,501.71	-1,814.81	13.96	1,814.86	0.00	417,945.19	759,223.46
11,200.00	89.50	179.56	6,073.78	9,502.58	-1,914.80	14.73	1,914.86	0.00	417,845.20	759,224.23
11,300.00	89.50	179.56	6,074.65	9,503.45	-2,014.79	15.50	2,014.85	0.00	417,745.21	759,225.00
11,400.00	89.50	179.56	6,075.52	9,504.32	-2,114.79	16.27	2,114.85	0.00	417,645.21	759,225.77
11,500.00	89.50	179.56	6,076.40	9,505.20	-2,214.78	17.04	2,214.85	0.00	417,545.22	759,226.54
11,600.00	89.50	179.56	6,077.27	9,506.07	-2,314.77	17.81	2,314.84	0.00	417,445.23	759,227.31
11,700.00	89.50	179.56	6,078.14	9,506.94	-2,414.77	18.58	2,414.84	0.00	417,345.23	759,228.08
11,800.00	89.50	179.56	6,079.02	9,507.82	-2,514.76	19.35	2,514.83	0.00	417,245.24	759,228.85
11,900.00	89.50	179.56	6,079.89	9,508.69	-2,614.75	20.12	2,614.83	0.00	417,145.25	759,229.62
12,000.00	89.50	179.56	6,080.76	9,509.56	-2,714.75	20.88	2,714.83	0.00	417,045.25	759,230.38
12,100.00	89.50	179.56	6,081.63	9,510.43	-2,814.74	21.65	2,814.82	0.00	416,945.26	759,231.15
12,200.00	89.50	179.56	6,082.51	9,511.31	-2,914.73	22.42	2,914.82	0.00	416,845.27	759,231.92
12,300.00	89.50	179.56	6,083.38	9,512.18	-3,014.73	23.19	3,014.82	0.00	416,745.27	759,232.69
12,400.00	89.50	179.56	6,084.25	9,513.05	-3,114.72	23.96	3,114.81	0.00	416,645.28	759,233.46
12,500.00	89.50	179.56	6,085.12	9,513.92	-3,214.71	24.73	3,214.81	0.00	416,545.29	759,234.23
12,600.00	89.50	179.56	6,086.00	9,514.80	-3,314.71	25.50	3,314.80	0.00	416,445.29	759,235.00
12,700.00	89.50	179.56	6,086.87	9,515.67	-3,414.70	26.27	3,414.80	0.00	416,345.30	759,235.77
12,800.00	89.50	179.56	6,087.74	9,516.54	-3,514.69	27.04	3,514.80	0.00	416,245.31	759,236.54
12,900.00	89.50	179.56	6,088.61	9,517.41	-3,614.69	27.81	3,614.79	0.00	416,145.31	759,237.31
13,000.00	89.50	179.56	6,089.49	9,518.29	-3,714.68	28.58	3,714.79	0.00	416,045.32	759,238.08

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 5H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3428.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 111011	Database:	GCR DB v5000

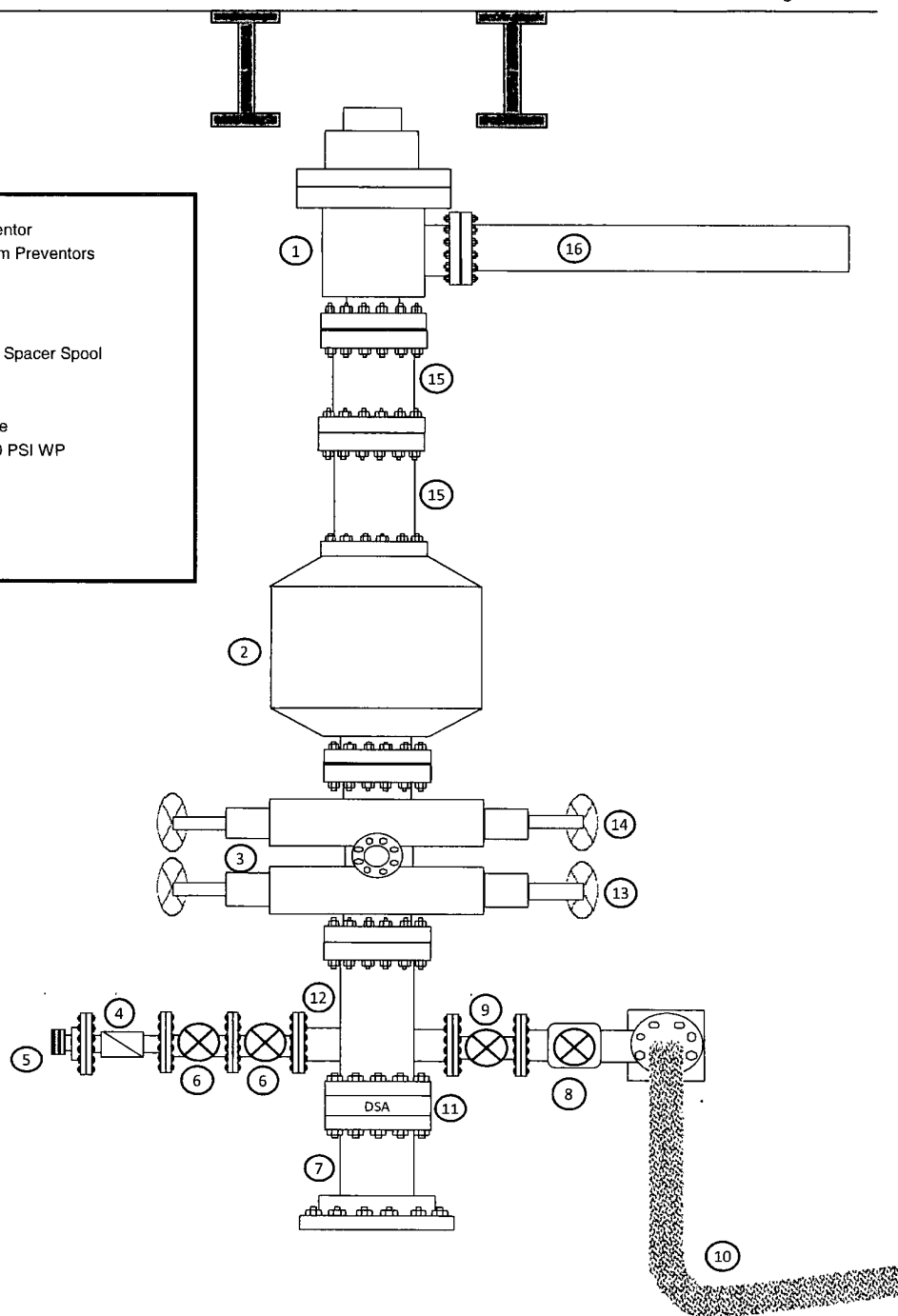
Planned Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg. (°/100usft)	Northing (usft)	Easting (usft)	
13,100.00	89.50	179.56	6,090.36	9,519.16	-3,814.67	29.35	3,814.79	0.00	415,945.33	759,238.85	
13,200.00	89.50	179.56	6,091.23	9,520.03	-3,914.67	30.12	3,914.78	0.00	415,845.33	759,239.62	
13,300.00	89.50	179.56	6,092.11	9,520.91	-4,014.66	30.89	4,014.78	0.00	415,745.34	759,240.39	
13,400.00	89.50	179.56	6,092.98	9,521.78	-4,114.65	31.65	4,114.77	0.00	415,645.35	759,241.15	
13,500.00	89.50	179.56	6,093.85	9,522.65	-4,214.65	32.42	4,214.77	0.00	415,545.35	759,241.92	
13,600.00	89.50	179.56	6,094.72	9,523.52	-4,314.64	33.19	4,314.77	0.00	415,445.36	759,242.69	
13,700.00	89.50	179.56	6,095.60	9,524.40	-4,414.63	33.96	4,414.76	0.00	415,345.37	759,243.46	
13,800.00	89.50	179.56	6,096.47	9,525.27	-4,514.62	34.73	4,514.76	0.00	415,245.38	759,244.23	
13,899.88	89.50	179.56	6,097.34	9,526.14	-4,614.50	35.50	4,614.64	0.00	415,145.50	759,245.00	
TD at 13899.88											

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,012.55	9,012.55	0.00	0.00	Start Build 12.00	
9,758.39	9,490.00	-473.28	3.64	Start 4141.50 hold at 9758.39 MD	
13,899.88	9,526.14	-4,614.50	35.50	TD at 13899.88	

Checked By: _____	Approved By: _____	Date: _____
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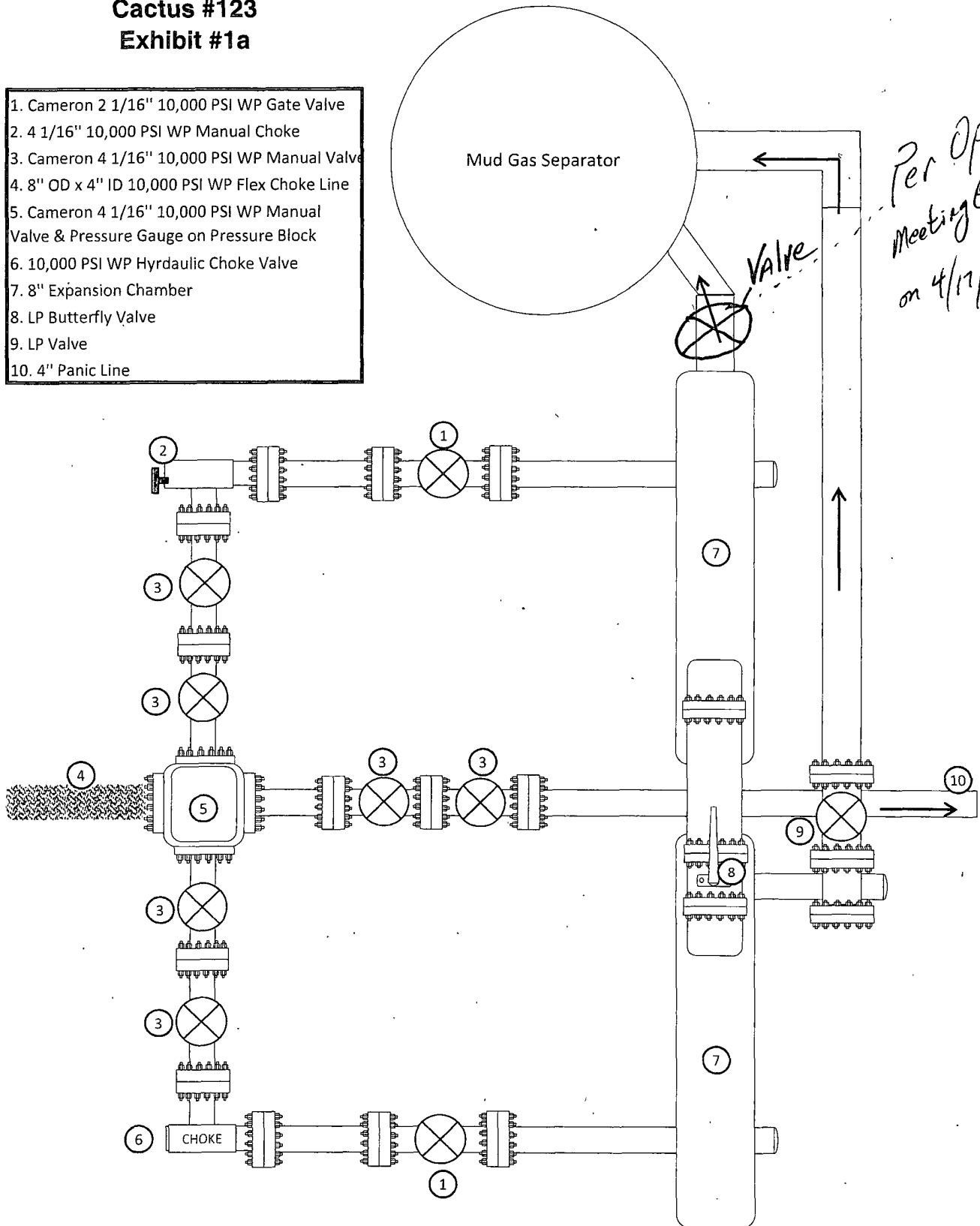
Rig Floor

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



EOG Resources
Cactus #123
Exhibit #1a

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



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			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
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