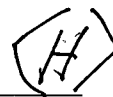


UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS
OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires October 31, 2014



JUN 01 2015

Lease Serial No.
NMNM19623 SHL, NMNM30400 BHL

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of Work ☒ DRILL ☐ REENTER		7. Unit or CA Agreement Name and No.
1b. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. Lucky 13 Fed Com 1H
2. Name of Operator EOG Resources, Inc.		9. API Well No. 30-025-42606
3a. Address P.O. Box 2267 Midland, TX 79702	3b. Phone No. (include area code) 432-686-3689	10. Field and Pool, or Exploratory Red Hills; Upper BS Shale
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 2099 FSL & 690 FWL, NWSW (L), Sec 13, T25S, R33E At proposed prod. zone 1550 FNL & 503 FWL, SWNW (E), Sec 12, T25S, R33E		11. Sec., T., R., M., or Blk. and Survey or Area Sec 13, T25S, R33E
14. Distance in miles and direction from nearest town or post office* Approximately +/- 20 miles Northwest from Jal, NM.		12. County or Parish Lea
15. Distance from proposed* location to nearest property or lease line, ft. 541' OL, 50' PP (Also to nearest drg. unit line, if any)		17. Spacing Unit dedicated to this well 200 ac.
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 427' to 2H Lateral		20. BLM/BIA Bond No. on file NM 2308
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3351' GL		22. Approximate date work will start* 1/1/2015
		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 7/25/14
Title Regulatory Analyst		
Approved by (Signature) 	Name (Printed/Typed) Steve Caffey	Date MAY 27 2015
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)

KZ 06/03/15

Carlsbad Controlled Water Basin

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

JUN 03 2015

EOG RESOURCES, INC.
LUCKY 13 FED COM NO. 1H

HOBBS OCD

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

JUN 01 2015

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

RECEIVED

Rustler	1,105'
Top of Salt	1,350'
Base of Salt / Top Anhydrite	4,885'
Base Anhydrite	5,140'
Lamar	5,140'
Bell Canyon	5,160'
Cherry Canyon	6,150'
Brushy Canyon	7,805'
Bone Spring Lime	9,240'
TD	9,470'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,150'	Oil
Brushy Canyon	7,805'	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 1,130' 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 - 1,130'	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' - 5,000'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-16,194'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
LUCKY 13 FED COM NO. 1H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,130'	600	13.5	1.73	9.13	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	6.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
9-5/8" 5,000'	1000	12.7	2.22	12.38	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	6.33	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
5-1/2" 16,194'	375	10.8	3.67	21.7	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 @ 4500')
	400	11.8	2.38	13.25	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
	1525	14.2	1.28	5.75	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 EOA

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.
LUCKY 13 FED COM NO. 1H

See COR

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:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

See COR

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,130'	Fresh Water Gel	8.6-8.8	28-34	N/c
1,130' - 5,000'	Saturated Brine	10.0-10.2	28-34	N/c
5,000' - 8,992'	Fresh Water	8.4-8.6	28-34	N/c
8,992' - 16,194' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

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.

EOG RESOURCES, INC.
LUCKY 13 FED COM NO. 1H

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.

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

The estimated bottom-hole temperature (BHT) at TD is 154 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 4100 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:

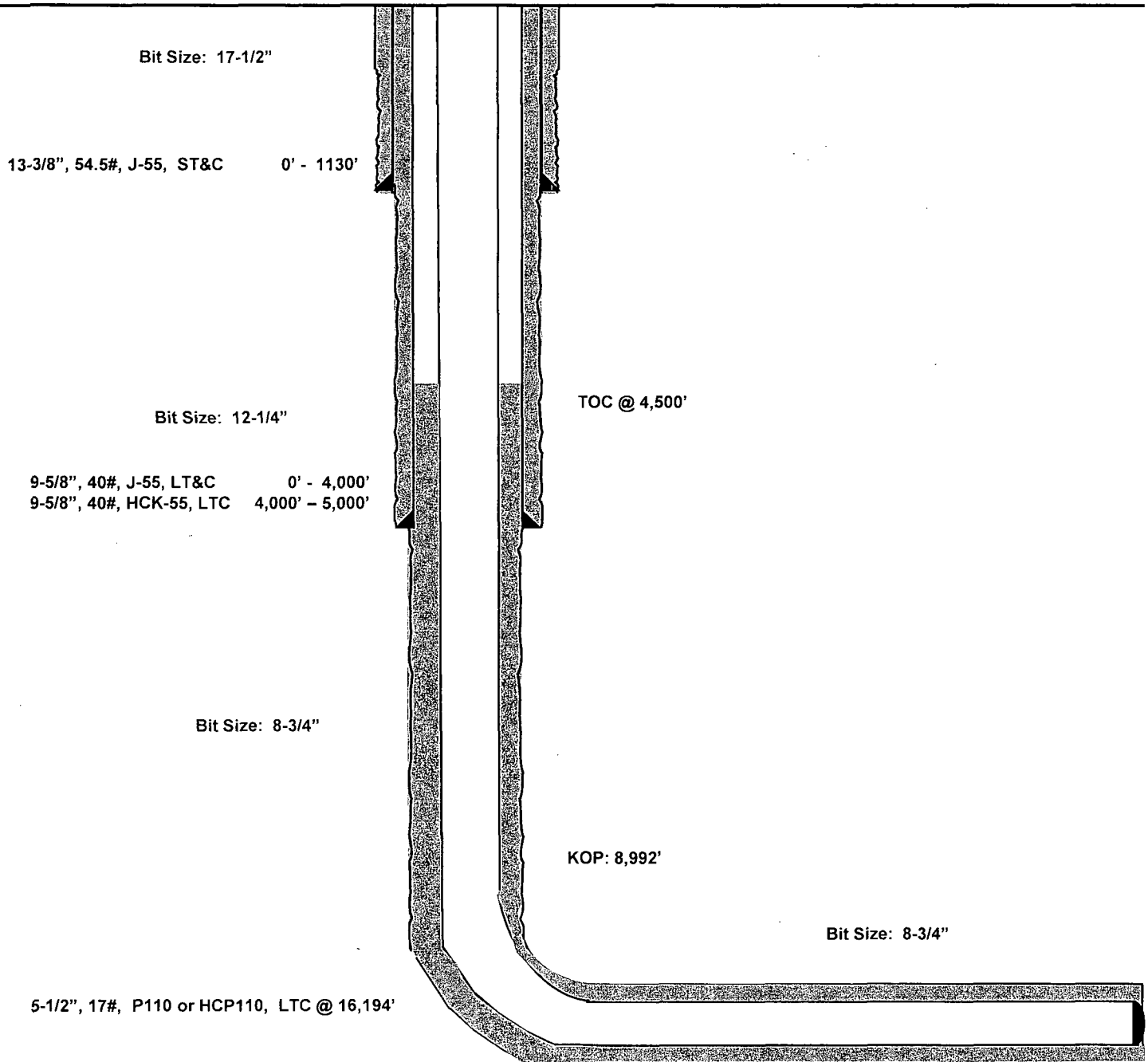
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

Lucky 13 Fed Com #1H
Lea County, New Mexico
Proposed Wellbore

2099' FSL
690' FWL
Section 13
T-25-S, R-33-E

API: 30-025-*****

KB: 3,381'
GL: 3,351'



Lateral:
16,194' MD, 9,470' TVD
Upper Most Perf:
2591' FNL & 504' FWL, Section 13
Lower Most Perf:
1650' FNL & 503' FWL
BH Location: 1550' FNL & 503' FWL
Section 12
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)

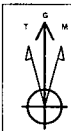
Lucky 13 Fed Com #1H

Cactus 123

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

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



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.78°
Magnetic Field
Strength: 48277.8nT
Dip Angle: 60.03°
Date: 4/24/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 6.78°
To convert a Magnetic Direction to a True Direction, Add 7.21° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: Lucky 13 Fed Com #1H

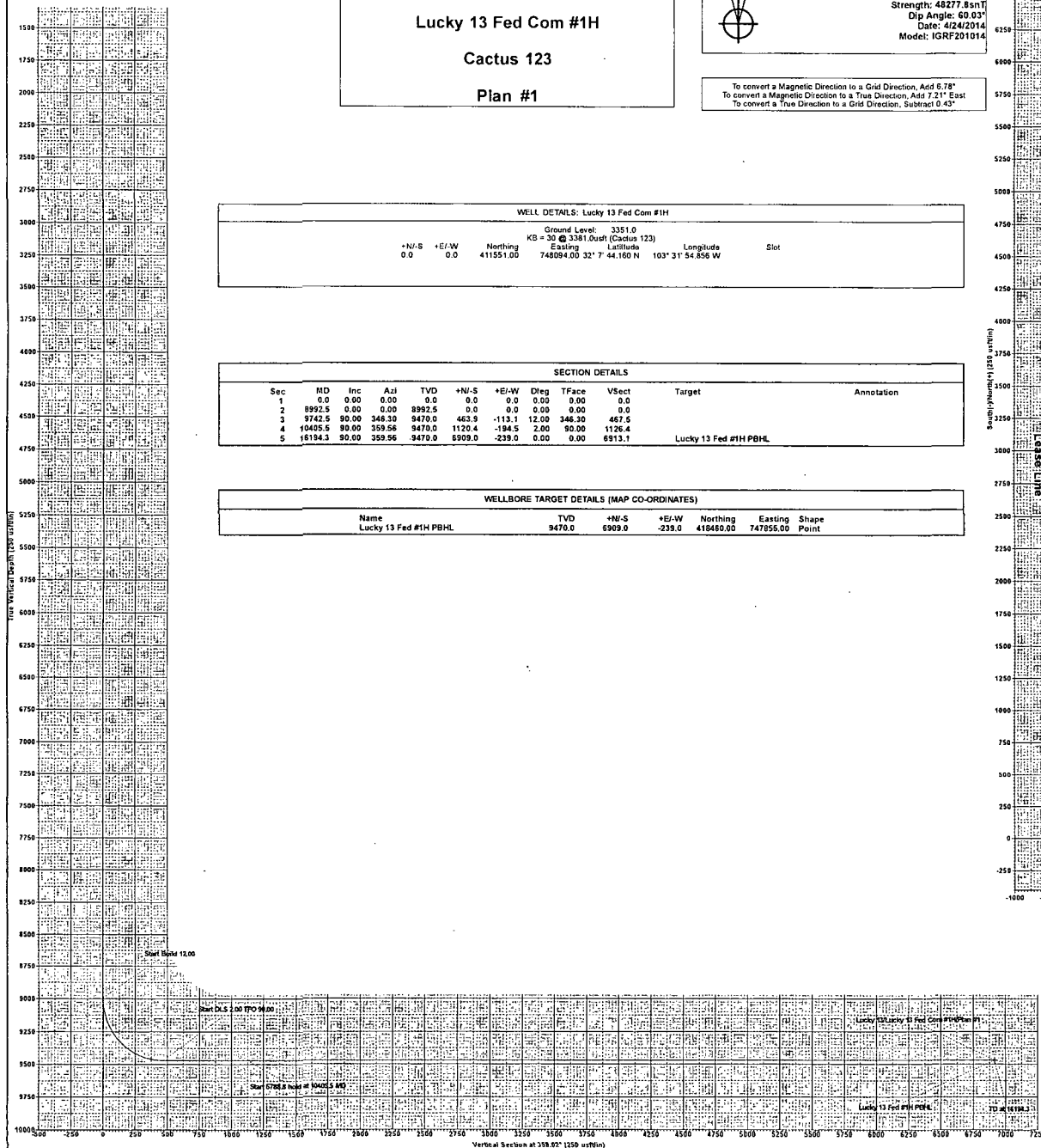
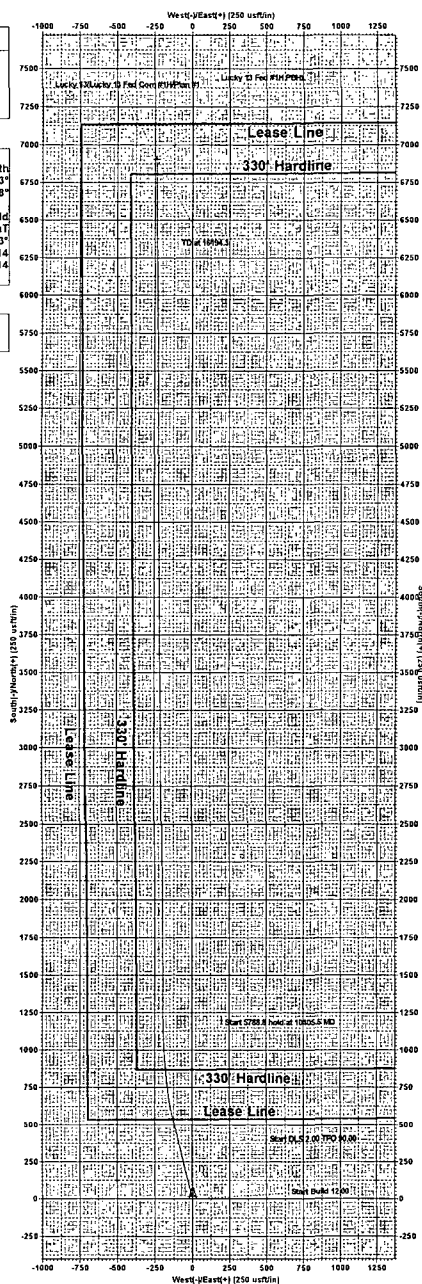
Ground Level: 3351.0
KB = 30 @ 3381.0ush (Cactus 123)
+N/-S +E/-W Northing Easting Longitude Slot
0.0 0.0 411551.00 748084.00 32° 7' 44.160 N 103° 31' 34.656 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	8992.5	0.00	0.00	8992.5	0.0	0.0	0.00	0.00	0.0		
3	9742.5	90.00	346.30	9470.0	463.9	-113.1	12.00	346.30	467.5		
4	10405.5	90.00	359.56	9470.0	1120.4	-194.5	2.00	90.00	1126.4		
5	15194.3	90.00	359.56	9470.0	6909.0	-239.0	0.00	0.00	6913.1	Lucky 13 Fed #1H PBHL	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Lucky 13 Fed #1H PBHL	9470.0	6909.0	-239.0	418480.00	747855.00	Point



Lea County, NM (NAD 27 NME)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Lucky 13

Lucky 13 Fed Com #1H

Plan #1

Plan: Plan #1

Standard Planning Report

16 July, 2014



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Lucky 13
Well: Lucky 13 Fed Com #1H
Wellbore: Plan #1
Design: Plan #1

Local Co-ordinate Reference: Well Lucky 13 Fed Com #1H
TVD Reference: KB = 30 @ 3381.0usft (Cactus 123)
MD Reference: KB = 30 @ 3381.0usft (Cactus 123)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
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	Lucky 13		
Site Position:		Northing:	411,553.00 usft
From: Map		Easting:	748,013.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 44.186 N
		Longitude:	103° 31' 55.797 W
		Grid Convergence:	0.43 °

Well	Lucky 13 Fed Com #1H		
Well Position	+N/-S	-2.0 usft	Northing: 411,551.00 usft
	+E/-W	81.0 usft	Easting: 748,094.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,351.0 usft
		Latitude:	32° 7' 44.160 N
		Longitude:	103° 31' 54.856 W

Wellbore	Plan #1		
Magnetics	Model Name	Sample Date	Declination
	IGRF201014	4/24/2014	7.21
			Dip Angle
			60.03
			Field Strength
			48,278

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			358.02

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
8,992.5	0.00	0.00	8,992.5	0.0	0.0	0.00	0.00	0.00	0.00	
9,742.5	90.00	346.30	9,470.0	463.9	-113.1	12.00	12.00	0.00	346.30	
10,405.5	90.00	359.56	9,470.0	1,120.4	-194.5	2.00	0.00	2.00	90.00	
16,194.3	90.00	359.56	9,470.0	6,909.0	-239.0	0.00	0.00	0.00	0.00	Lucky 13 Fed #1H PB



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Lucky 13
 Well: Lucky 13 Fed Com #1H
 Wellbore: Plan #1
 Design: Plan #1

Local Co-ordinate Reference: Well Lucky 13 Fed Com #1H
 TVD Reference: KB = 30 @ 3381.0usft (Cactus 123)
 MD Reference: KB = 30 @ 3381.0usft (Cactus 123)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Lucky 13
 Well: Lucky 13 Fed Com #1H
 Wellbore: Plan #1
 Design: Plan #1

Local Co-ordinate Reference: Well Lucky 13 Fed Com #1H
 TVD Reference: KB = 30 @ 3381.0usft (Cactus 123)
 MD Reference: KB = 30 @ 3381.0usft (Cactus 123)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,992.5	0.00	0.00	8,992.5	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.90	346.30	9,000.0	0.1	0.0	0.1	12.00	12.00	0.00
9,025.0	3.90	346.30	9,025.0	1.1	-0.3	1.1	12.00	12.00	0.00
9,050.0	6.90	346.30	9,049.9	3.4	-0.8	3.4	12.00	12.00	0.00
9,075.0	9.90	346.30	9,074.6	6.9	-1.7	7.0	12.00	12.00	0.00
9,100.0	12.90	346.30	9,099.1	11.7	-2.9	11.8	12.00	12.00	0.00
9,125.0	15.90	346.30	9,123.3	17.7	-4.3	17.9	12.00	12.00	0.00
9,150.0	18.90	346.30	9,147.2	25.0	-6.1	25.2	12.00	12.00	0.00
9,175.0	21.90	346.30	9,170.6	33.5	-8.2	33.7	12.00	12.00	0.00
9,200.0	24.90	346.30	9,193.5	43.1	-10.5	43.5	12.00	12.00	0.00
9,225.0	27.90	346.30	9,215.9	53.9	-13.1	54.3	12.00	12.00	0.00
9,250.0	30.90	346.30	9,237.7	65.8	-16.1	66.4	12.00	12.00	0.00
9,275.0	33.90	346.30	9,258.8	78.9	-19.2	79.5	12.00	12.00	0.00
9,300.0	36.90	346.30	9,279.2	92.9	-22.7	93.6	12.00	12.00	0.00
9,325.0	39.90	346.30	9,298.8	108.0	-26.3	108.9	12.00	12.00	0.00
9,350.0	42.90	346.30	9,317.5	124.1	-30.2	125.0	12.00	12.00	0.00
9,375.0	45.90	346.30	9,335.4	141.1	-34.4	142.2	12.00	12.00	0.00
9,400.0	48.90	346.30	9,352.3	158.9	-38.7	160.2	12.00	12.00	0.00



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 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,425.0	51.90	346.30	9,368.2	177.6	-43.3	179.0	12.00	12.00	0.00
9,450.0	54.90	346.30	9,383.1	197.1	-48.1	198.7	12.00	12.00	0.00
9,475.0	57.90	346.30	9,397.0	217.4	-53.0	219.1	12.00	12.00	0.00
9,500.0	60.90	346.30	9,409.7	238.3	-58.1	240.1	12.00	12.00	0.00
9,525.0	63.90	346.30	9,421.3	259.8	-63.3	261.8	12.00	12.00	0.00
9,550.0	66.90	346.30	9,431.7	281.9	-68.7	284.1	12.00	12.00	0.00
9,575.0	69.90	346.30	9,440.9	304.5	-74.2	306.8	12.00	12.00	0.00
9,600.0	72.90	346.30	9,448.9	327.5	-79.8	330.0	12.00	12.00	0.00
9,625.0	75.90	346.30	9,455.6	350.9	-85.5	353.6	12.00	12.00	0.00
9,650.0	78.90	346.30	9,461.0	374.6	-91.3	377.5	12.00	12.00	0.00
9,675.0	81.90	346.30	9,465.2	398.5	-97.1	401.6	12.00	12.00	0.00
9,700.0	84.90	346.30	9,468.1	422.6	-103.0	426.0	12.00	12.00	0.00
9,725.0	87.90	346.30	9,469.6	446.9	-108.9	450.4	12.00	12.00	0.00
9,742.5	90.00	346.30	9,470.0	463.9	-113.1	467.5	12.00	12.00	0.00
9,800.0	90.00	347.45	9,470.0	519.9	-126.1	523.9	2.00	0.00	2.00
9,900.0	90.00	349.45	9,470.0	617.8	-146.2	622.5	2.00	0.00	2.00
10,000.0	90.00	351.45	9,470.0	716.5	-162.7	721.7	2.00	0.00	2.00
10,100.0	90.00	353.45	9,470.0	815.6	-175.9	821.2	2.00	0.00	2.00
10,200.0	90.00	355.45	9,470.0	915.1	-185.6	921.0	2.00	0.00	2.00
10,300.0	90.00	357.45	9,470.0	1,014.9	-191.8	1,020.9	2.00	0.00	2.00
10,405.5	90.00	359.56	9,470.0	1,120.4	-194.5	1,126.4	2.00	0.00	2.00
10,500.0	90.00	359.56	9,470.0	1,214.9	-195.2	1,220.9	0.00	0.00	0.00
10,600.0	90.00	359.56	9,470.0	1,314.9	-196.0	1,320.9	0.00	0.00	0.00
10,700.0	90.00	359.56	9,470.0	1,414.9	-196.8	1,420.8	0.00	0.00	0.00
10,800.0	90.00	359.56	9,470.0	1,514.9	-197.5	1,520.8	0.00	0.00	0.00
10,900.0	90.00	359.56	9,470.0	1,614.9	-198.3	1,620.7	0.00	0.00	0.00
11,000.0	90.00	359.56	9,470.0	1,714.9	-199.1	1,720.7	0.00	0.00	0.00
11,100.0	90.00	359.56	9,470.0	1,814.9	-199.8	1,820.7	0.00	0.00	0.00
11,200.0	90.00	359.56	9,470.0	1,914.8	-200.6	1,920.6	0.00	0.00	0.00
11,300.0	90.00	359.56	9,470.0	2,014.8	-201.4	2,020.6	0.00	0.00	0.00
11,400.0	90.00	359.56	9,470.0	2,114.8	-202.1	2,120.6	0.00	0.00	0.00
11,500.0	90.00	359.56	9,470.0	2,214.8	-202.9	2,220.5	0.00	0.00	0.00
11,600.0	90.00	359.56	9,470.0	2,314.8	-203.7	2,320.5	0.00	0.00	0.00
11,700.0	90.00	359.56	9,470.0	2,414.8	-204.5	2,420.5	0.00	0.00	0.00
11,800.0	90.00	359.56	9,470.0	2,514.8	-205.2	2,520.4	0.00	0.00	0.00
11,900.0	90.00	359.56	9,470.0	2,614.8	-206.0	2,620.4	0.00	0.00	0.00
12,000.0	90.00	359.56	9,470.0	2,714.8	-206.8	2,720.3	0.00	0.00	0.00
12,100.0	90.00	359.56	9,470.0	2,814.8	-207.5	2,820.3	0.00	0.00	0.00
12,200.0	90.00	359.56	9,470.0	2,914.8	-208.3	2,920.3	0.00	0.00	0.00
12,300.0	90.00	359.56	9,470.0	3,014.8	-209.1	3,020.2	0.00	0.00	0.00
12,400.0	90.00	359.56	9,470.0	3,114.8	-209.8	3,120.2	0.00	0.00	0.00
12,500.0	90.00	359.56	9,470.0	3,214.8	-210.6	3,220.2	0.00	0.00	0.00
12,600.0	90.00	359.56	9,470.0	3,314.8	-211.4	3,320.1	0.00	0.00	0.00
12,700.0	90.00	359.56	9,470.0	3,414.8	-212.1	3,420.1	0.00	0.00	0.00
12,800.0	90.00	359.56	9,470.0	3,514.8	-212.9	3,520.1	0.00	0.00	0.00
12,900.0	90.00	359.56	9,470.0	3,614.8	-213.7	3,620.0	0.00	0.00	0.00
13,000.0	90.00	359.56	9,470.0	3,714.8	-214.4	3,720.0	0.00	0.00	0.00
13,100.0	90.00	359.56	9,470.0	3,814.8	-215.2	3,820.0	0.00	0.00	0.00
13,200.0	90.00	359.56	9,470.0	3,914.8	-216.0	3,919.9	0.00	0.00	0.00
13,300.0	90.00	359.56	9,470.0	4,014.8	-216.8	4,019.9	0.00	0.00	0.00
13,400.0	90.00	359.56	9,470.0	4,114.8	-217.5	4,119.8	0.00	0.00	0.00
13,500.0	90.00	359.56	9,470.0	4,214.8	-218.3	4,219.8	0.00	0.00	0.00
13,600.0	90.00	359.56	9,470.0	4,314.8	-219.1	4,319.8	0.00	0.00	0.00
13,700.0	90.00	359.56	9,470.0	4,414.8	-219.8	4,419.7	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	90.00	359.56	9,470.0	4,514.8	-220.6	4,519.7	0.00	0.00	0.00
13,900.0	90.00	359.56	9,470.0	4,614.8	-221.4	4,619.7	0.00	0.00	0.00
14,000.0	90.00	359.56	9,470.0	4,714.8	-222.1	4,719.6	0.00	0.00	0.00
14,100.0	90.00	359.56	9,470.0	4,814.8	-222.9	4,819.6	0.00	0.00	0.00
14,200.0	90.00	359.56	9,470.0	4,914.8	-223.7	4,919.6	0.00	0.00	0.00
14,300.0	90.00	359.56	9,470.0	5,014.8	-224.4	5,019.5	0.00	0.00	0.00
14,400.0	90.00	359.56	9,470.0	5,114.8	-225.2	5,119.5	0.00	0.00	0.00
14,500.0	90.00	359.56	9,470.0	5,214.8	-226.0	5,219.4	0.00	0.00	0.00
14,600.0	90.00	359.56	9,470.0	5,314.7	-226.7	5,319.4	0.00	0.00	0.00
14,700.0	90.00	359.56	9,470.0	5,414.7	-227.5	5,419.4	0.00	0.00	0.00
14,800.0	90.00	359.56	9,470.0	5,514.7	-228.3	5,519.3	0.00	0.00	0.00
14,900.0	90.00	359.56	9,470.0	5,614.7	-229.1	5,619.3	0.00	0.00	0.00
15,000.0	90.00	359.56	9,470.0	5,714.7	-229.8	5,719.3	0.00	0.00	0.00
15,100.0	90.00	359.56	9,470.0	5,814.7	-230.6	5,819.2	0.00	0.00	0.00
15,200.0	90.00	359.56	9,470.0	5,914.7	-231.4	5,919.2	0.00	0.00	0.00
15,300.0	90.00	359.56	9,470.0	6,014.7	-232.1	6,019.2	0.00	0.00	0.00
15,400.0	90.00	359.56	9,470.0	6,114.7	-232.9	6,119.1	0.00	0.00	0.00
15,500.0	90.00	359.56	9,470.0	6,214.7	-233.7	6,219.1	0.00	0.00	0.00
15,600.0	90.00	359.56	9,470.0	6,314.7	-234.4	6,319.0	0.00	0.00	0.00
15,700.0	90.00	359.56	9,470.0	6,414.7	-235.2	6,419.0	0.00	0.00	0.00
15,800.0	90.00	359.56	9,470.0	6,514.7	-236.0	6,519.0	0.00	0.00	0.00
15,900.0	90.00	359.56	9,470.0	6,614.7	-236.7	6,618.9	0.00	0.00	0.00
16,000.0	90.00	359.56	9,470.0	6,714.7	-237.5	6,718.9	0.00	0.00	0.00
16,100.0	90.00	359.56	9,470.0	6,814.7	-238.3	6,818.9	0.00	0.00	0.00
16,194.3	90.00	359.56	9,470.0	6,909.0	-239.0	6,913.1	0.00	0.00	0.00

Lucky 13 Fed #1H PBHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Lucky 13 Fed #1H PBHL	0.00	0.00	9,470.0	6,909.0	-239.0	418,460.00	747,855.00	32° 8' 52.546 N	103° 31' 57.037 W
- plan hits target center									
- Point									

Exhibit 1

EOG Resources

5M 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

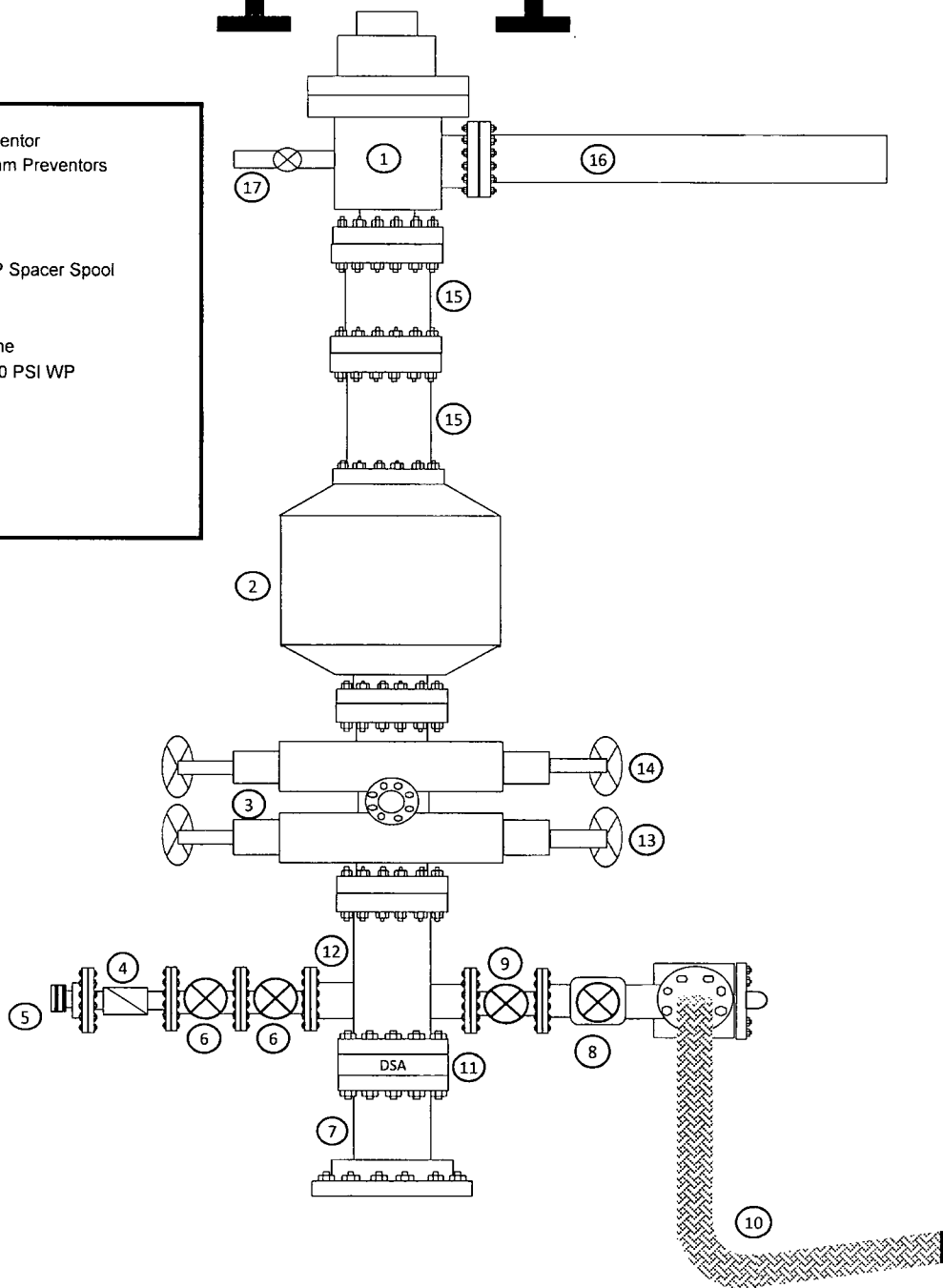
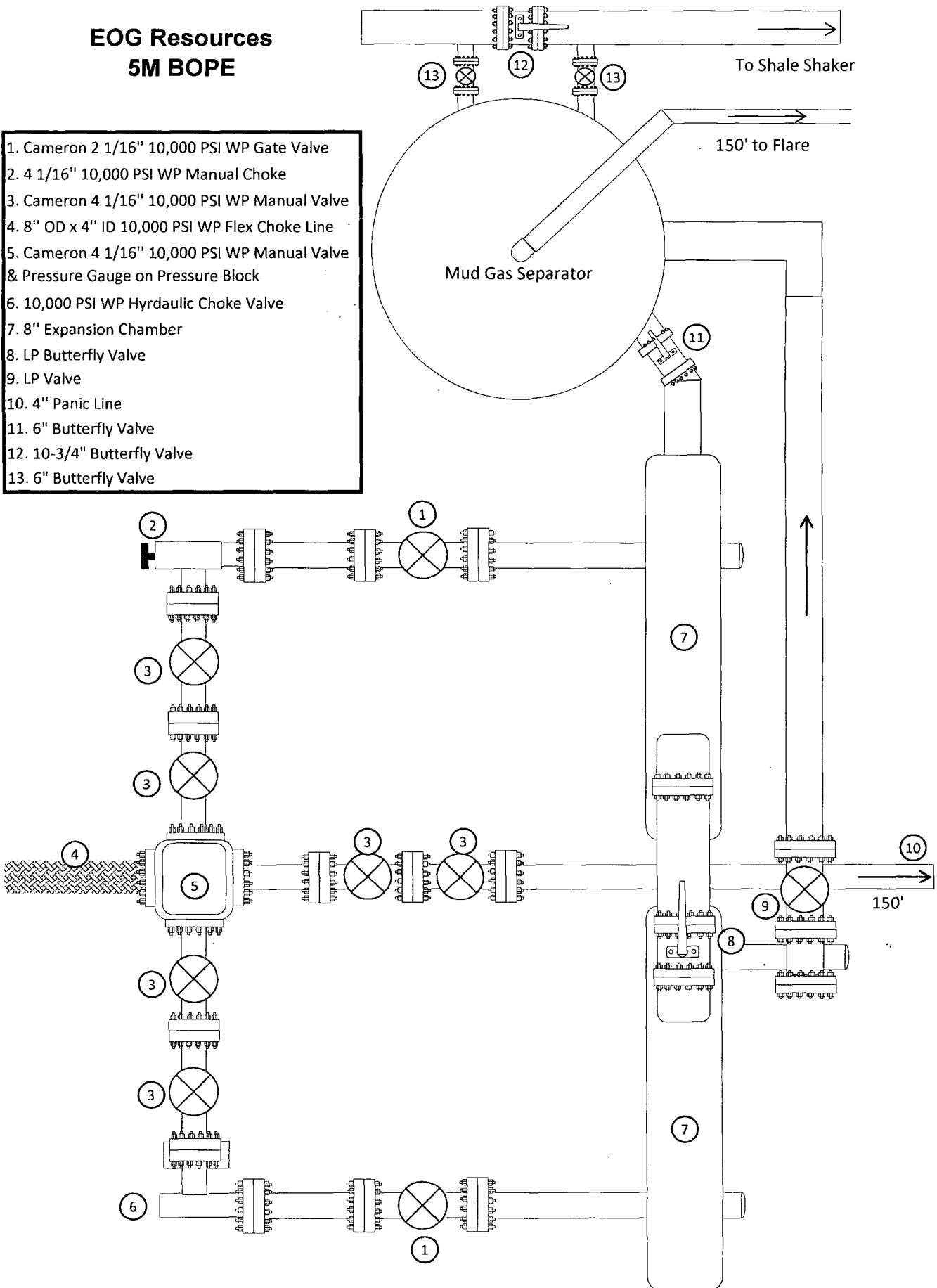


Exhibit 1a

EOG Resources 5M 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



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#90087 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

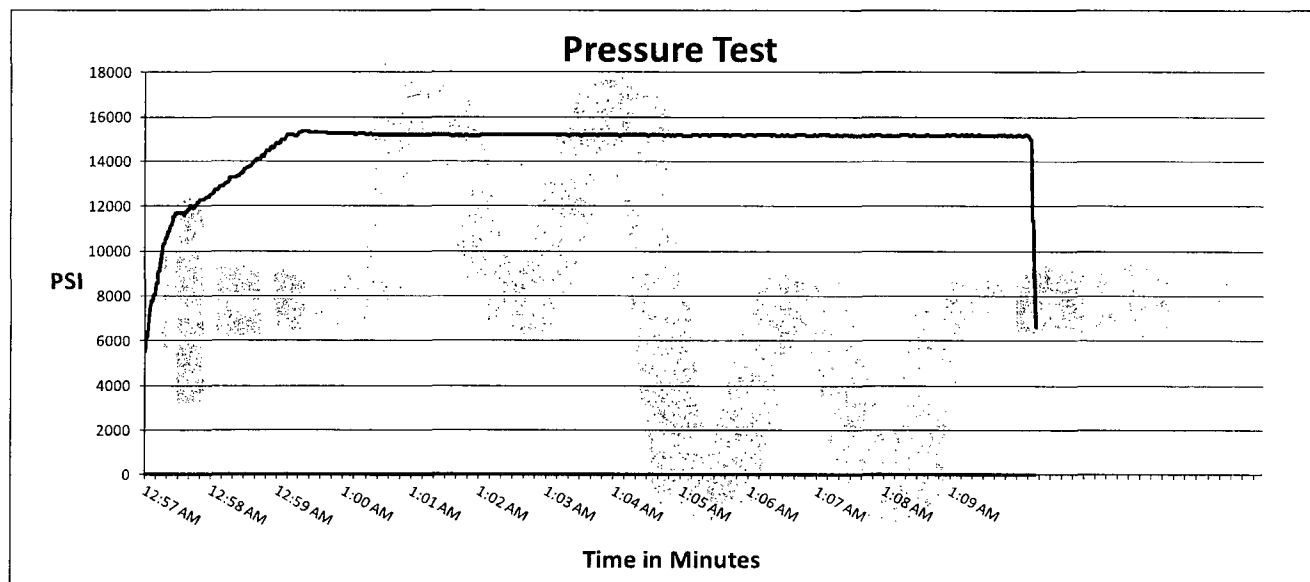
SALES ORDER# 90067

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