

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTHOBBS OCD
OCD HobbsFORM APPROVED
OMB NO. 1004-0137
Expires October 31, 2014

JUN 01 2015

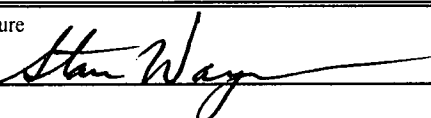
APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

1a. Type of Work ☒ DRILL ☐ REENTER		5. Lease Serial No. NMNM0997 SHL NMNM96781 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. (7377)		7. Unit or CA Agreement Name and No.	
3a. Address P.O. Box 2267 Midland, TX 79702		8. Lease Name and Well No. Aztec 22 Fed Com 3H (314874)	
3b. Phone No. (include area code) 432-686-3689		9. API Well No. 30-025-42605	
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 230 FNL & 1904 FWL, NENW (C) At proposed prod. zone 560 FSL & 1721 FWL, SESW (N) Non-Standard Location		10. Field and Pool, or Exploratory Corbin; Wolfcamp, South (13320)	
11. Sec., T., R., M., or Blk. and Survey or Area Sec 22, T18S, R33E		12. County or Parish Lea	
13. State NM		14. Distance in miles and direction from nearest town or post office* Approximately 30 miles west from Hobbs, NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 230'		16. No. of Acres in lease 1600	
17. Spacing Unit dedicated to this well 320 ac		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 270' to Aztec 22 #1	
19. Proposed Depth 15962 MD - 11650 TVD		20. BLM/BIA Bond No. on file NM 2308	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3866' GL		22. Approximate date work will start* 9/1/14	
23. Estimated duration 30 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 2/25/14
Title Regulatory Analyst		
Approved by (Signature) /s/George MacDoneli	Name (Printed/Typed)	Date MAY 26 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)

Capitan Controlled Water Basin

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

JUN 03 2015

EOG RESOURCES, INC.
AZTEC 22 FED FED COM NO. 3H

HOBBS OCD

JUN 01 2015

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

RECEIVED

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	1,505'
Top of Salt	1,755'
Base of Salt	2,900'
Yates	2,990'
Seven Rivers	3,490'
Queen	4,220'
Capitan	4,850'
Cherry Canyon	5,430'
Brushy Canyon	5,800'
Bone Spring Lime	7,180'
1 st Bone Spring	8,520'
2 nd Bone Spring	9,300'
3 rd Bone Spring	10,050'
Wolfcamp	10,210'
TD	11,650'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	5,430'	Oil
Brushy Canyon	5,800'	Oil
Bone Spring Lime	7,180'	Oil
1 st Bone Spring	8,520'	Oil
2 nd Bone Spring	9,300'	Oil
3 rd Bone Spring	10,050'	Oil
Wolfcamp	10,210'	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 1,530' and circulating cement back to surface.

4. CASING PROGRAM - NEW

See COA

See COA

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,530'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-5,200'	9.625"	40#	HCL80	LTC	1.125	1.25	1.60
8.75"	0'-15,962'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
AZTEC 22 FED FED COM NO. 3H

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,530'	900	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" 5,200'	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" 15,962'	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 @ 4,700')
	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
	1700	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 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.

See COA

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.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000/ 250 psig and the annular preventer to 3500/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

EOG RESOURCES, INC.
AZTEC 22 FED FED COM NO. 3H

8. LOGGING, TESTING AND CORING PROGRAM:

See COA
See COA

Open-hole logs are not planned for this well.

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

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

The estimated bottom-hole temperature (BHT) at TD is 170 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 6058 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.

EOG RESOURCES, INC.
AZTEC 22 FED FED COM NO. 3H

8. LOGGING, TESTING AND CORING PROGRAM:

See COA
See COA

Open-hole logs are not planned for this well.

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

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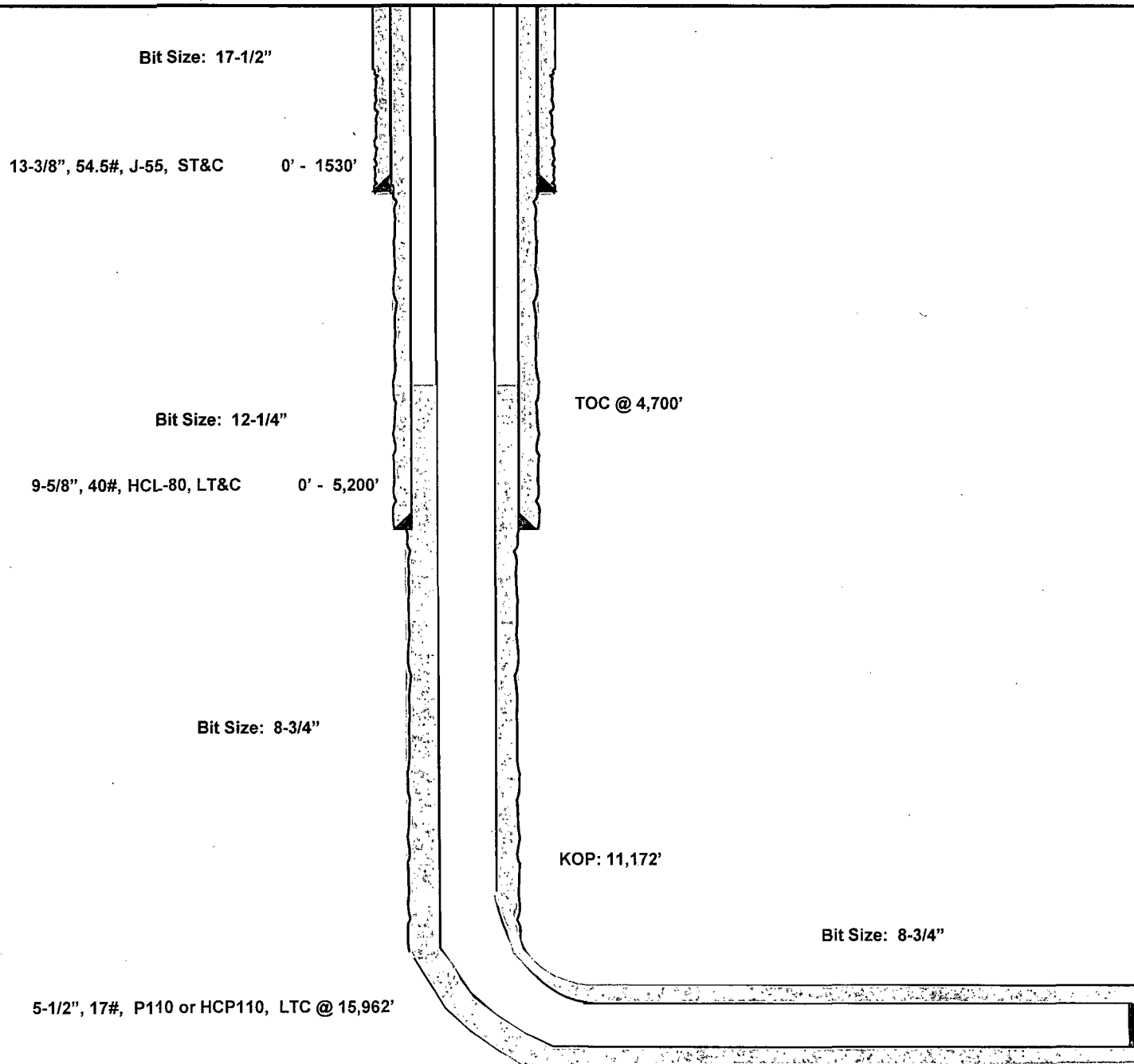
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

**Aztec 22 Fed Fed Com #3H
Lea County, New Mexico
Proposed Wellbore**

230' FNL
1904' FWL
Section 22
T-18-S, R-33-E

API: 30-025-*****

KB: 3,893'
GL: 3,866'



Lateral:
15,962' MD, 11,650' TVD
Upper Most Perf:
660' FNL & 1704' FWL
Lower Most Perf:
660' FSL & 1721' FWL
BH Location: 560' FSL & 1721' FWL
Section 22
T-18-S, R-33-E



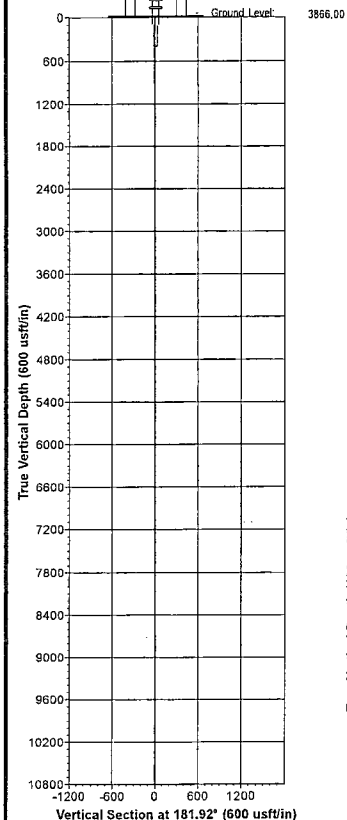
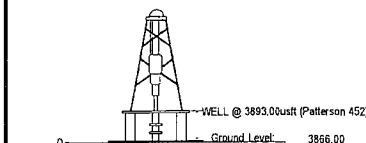
Project: Lea County, NM (NAD27 NME)
Site: Aztec 22 Fed
Well: Fed Com #3H
Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14
Rig: Patterson 452



PHOENIX
TECHNOLOGY SERVICES



Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.97°
Magnetic Field
Strength: 48649.65nT
Dip Angle: 60.58°
Date: 02/04/2014
Model: IGRF2010_14



52

WELL DETAILS											
		Ground Level		3866.00							
		+N/S	+E/W	Northing	Easting	Latitude	Longitude				
		0.00	0.00	633447.00	709257.60	32° 44' 22.53478 N	103° 39' 10.03204 W				

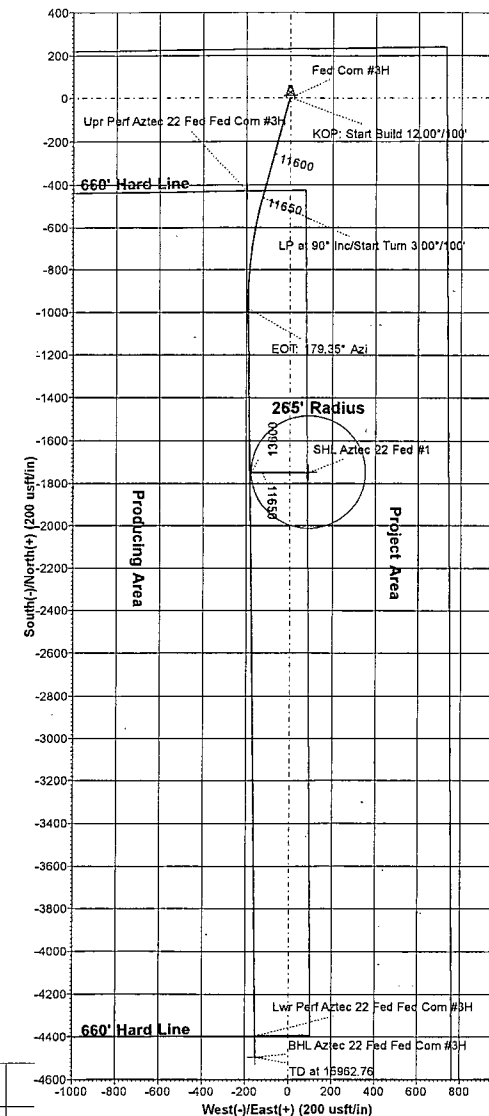
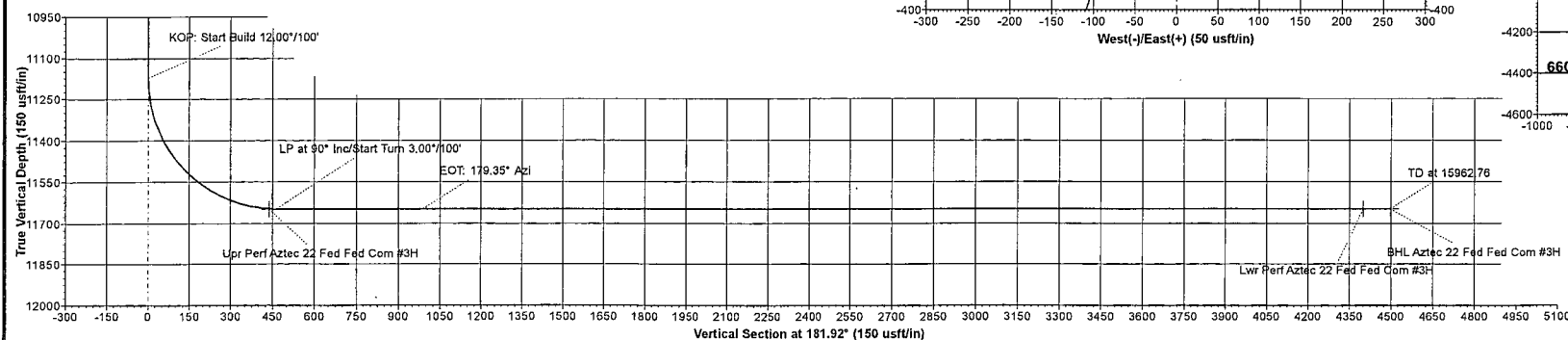
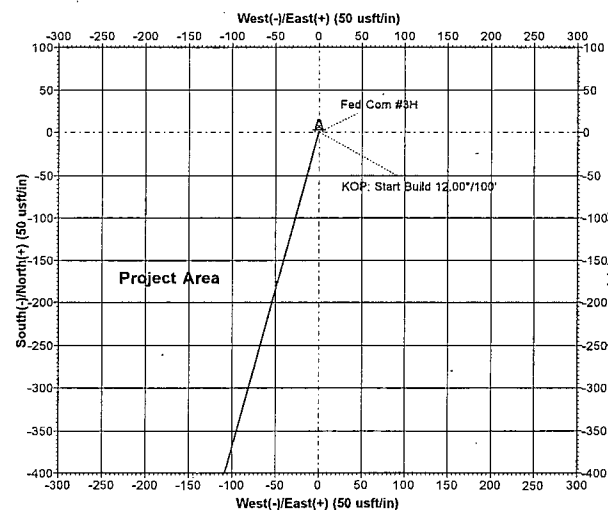
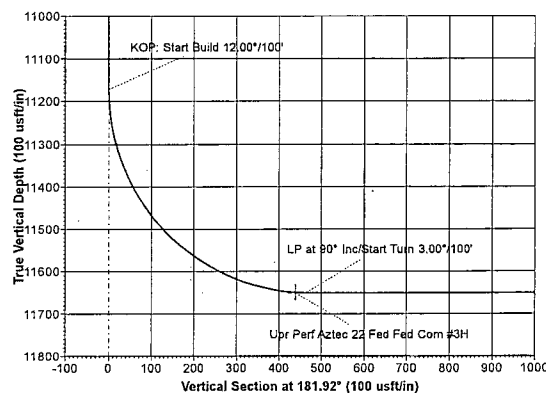
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	11172.54	0.00	0.00	11172.54	0.00	0.00	0.00	0.00	0.00		KOP: Start Build 12.00°/100°
3	11922.54	90.00	195.15	11650.00	-460.87	-124.78	12.00	195.15	484.80		LP at 90° Inc/Start Turn 3.00°/100°
4	12449.30	90.00	179.35	11650.00	-881.77	-191.04	3.00	-90.00	887.63		EOT: 179.35° Azi
5	15962.76	90.00	179.35	11650.00	-4495.00	-151.00	0.00	0.00	4497.54	BHL Aztec 22 Fed Fed Com #3H	TD at 15962.76

DESIGN TARGET DETAILS											
Name	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Shape			
BHL Aztec 22 Fed Fed Com #3H	11650.00	-4495.00	-151.00	628952.00	709105.00	32° 43' 38.06692 N	103° 39' 12.13754 W	Point			
Lwr Perf Aztec 22 Fed Fed Com #3H	11650.00	-4395.00	-153.00	629052.00	709104.00	32° 43' 39.05654 N	103° 39' 12.15344 W	Point			
Upr Perf Aztec 22 Fed Fed Com #3H	11650.00	-432.00	-197.00	633015.00	709060.00	32° 44' 18.27272 N	103° 38' 12.37082 W	Point			

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well Fed Com #3H, Grid North
Latitude: 32° 44' 22.53478 N
Longitude: 103° 39' 10.03204 W
Grid East: 709257.00
Grid North: 633447.00
Scale Factor: 1.000
Geomagnetic Model: IGRF2010_14
Sample Date: 04-Feb-14
Magnetic Declination: 7.34°
Dip Angle from Horizontal: 60.58°
Magnetic Field Strength: 48650
To convert a Magnetic Direction to a Grid Direction, Add 6.97°
To convert a Magnetic Direction to a True Direction, Add 7.34° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

LEGEND

- #1, Wellbore #1, Surveys V0
- Plan #1 02-05-14





EOG Resources

Lea County, NM (NAD27 NME)

Aztec 22 Fed

Fed Com #3H

Wellbore #1 Job #1410228

Plan: Plan #1 02-05-14

Planning Report

04 February, 2014





Phoenix Technology Services
Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Aztec 22 Fed
Well: Fed Com #3H
Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14

Local Co-ordinate Reference: Well Fed Com #3H
TVD Reference: WELL @ 3893.00usft (Patterson 452)
MD Reference: WELL @ 3893.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Project: Lea County, NM (NAD27 NME)

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: Aztec 22 Fed

Site Position:	Northing:	633,447.00 usft	Latitude:	32° 44' 22.53478 N
From: Map	Easting:	709,257.00 usft	Longitude:	103° 39' 10.03204 W
Position Uncertainty: 0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.37 °

Well: Fed Com #3H

Well Position	+N-S	0.00 usft	Northing:	633,447.00 usft	Latitude:	32° 44' 22.53478 N
	+E-W	0.00 usft	Easting:	709,257.00 usft	Longitude:	103° 39' 10.03204 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,866.00 usft	

Wellbore: Wellbore #1 Job #1410228

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	02/04/14	7.34	60.58	48,650

Design: Plan #1 02-05-14

Audit Notes:

Version: Phase: PROTOTYPE Tie On Depth: 0.00

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	181.92

Survey Tool Program Date: 02/04/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,962.76	Plan #1 02-05-14 (Wellbore #1 Job #1410)	MWD	MWD - Standard



Phoenix Technology Services Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Aztec 22 Fed
Well: Fed Com #3H
Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14

Local Co-ordinate Reference: Well Fed Com #3H
TVD Reference: WELL @ 3893.00usft (Patterson 452)
MD Reference: WELL @ 3893.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
0.00	0.00	0.00	-3,893.00	0.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
100.00	0.00	0.00	-3,793.00	100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
200.00	0.00	0.00	-3,693.00	200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
300.00	0.00	0.00	-3,593.00	300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
400.00	0.00	0.00	-3,493.00	400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
500.00	0.00	0.00	-3,393.00	500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
600.00	0.00	0.00	-3,293.00	600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
700.00	0.00	0.00	-3,193.00	700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
800.00	0.00	0.00	-3,093.00	800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
900.00	0.00	0.00	-2,993.00	900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,000.00	0.00	0.00	-2,893.00	1,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,100.00	0.00	0.00	-2,793.00	1,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,200.00	0.00	0.00	-2,693.00	1,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,300.00	0.00	0.00	-2,593.00	1,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,400.00	0.00	0.00	-2,493.00	1,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,500.00	0.00	0.00	-2,393.00	1,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,600.00	0.00	0.00	-2,293.00	1,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,700.00	0.00	0.00	-2,193.00	1,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,800.00	0.00	0.00	-2,093.00	1,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
1,900.00	0.00	0.00	-1,993.00	1,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,000.00	0.00	0.00	-1,893.00	2,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,100.00	0.00	0.00	-1,793.00	2,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,200.00	0.00	0.00	-1,693.00	2,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,300.00	0.00	0.00	-1,593.00	2,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,400.00	0.00	0.00	-1,493.00	2,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,500.00	0.00	0.00	-1,393.00	2,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,600.00	0.00	0.00	-1,293.00	2,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00



Phoenix Technology Services Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Aztec 22 Fed
Well: Fed Com #3H
Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14

Local Co-ordinate Reference: Well Fed Com #3H
TVD Reference: WELL @ 3893.00usft (Patterson 452)
MD Reference: WELL @ 3893.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	EW (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
2,700.00	0.00	0.00	-1,193.00	2,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,800.00	0.00	0.00	-1,093.00	2,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
2,900.00	0.00	0.00	-993.00	2,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,000.00	0.00	0.00	-893.00	3,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,100.00	0.00	0.00	-793.00	3,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,200.00	0.00	0.00	-693.00	3,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,300.00	0.00	0.00	-593.00	3,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,400.00	0.00	0.00	-493.00	3,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,500.00	0.00	0.00	-393.00	3,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,600.00	0.00	0.00	-293.00	3,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,700.00	0.00	0.00	-193.00	3,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,800.00	0.00	0.00	-93.00	3,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
3,900.00	0.00	0.00	7.00	3,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,000.00	0.00	0.00	107.00	4,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,100.00	0.00	0.00	207.00	4,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,200.00	0.00	0.00	307.00	4,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,300.00	0.00	0.00	407.00	4,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,400.00	0.00	0.00	507.00	4,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,500.00	0.00	0.00	607.00	4,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,600.00	0.00	0.00	707.00	4,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,700.00	0.00	0.00	807.00	4,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,800.00	0.00	0.00	907.00	4,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
4,900.00	0.00	0.00	1,007.00	4,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,000.00	0.00	0.00	1,107.00	5,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,100.00	0.00	0.00	1,207.00	5,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,200.00	0.00	0.00	1,307.00	5,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,300.00	0.00	0.00	1,407.00	5,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00



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Site: Aztec 22 Fed
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Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14

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5,400.00	0.00	0.00	1,507.00	5,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,500.00	0.00	0.00	1,607.00	5,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,600.00	0.00	0.00	1,707.00	5,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,700.00	0.00	0.00	1,807.00	5,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,800.00	0.00	0.00	1,907.00	5,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
5,900.00	0.00	0.00	2,007.00	5,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,000.00	0.00	0.00	2,107.00	6,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,100.00	0.00	0.00	2,207.00	6,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,200.00	0.00	0.00	2,307.00	6,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,300.00	0.00	0.00	2,407.00	6,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,400.00	0.00	0.00	2,507.00	6,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,500.00	0.00	0.00	2,607.00	6,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,600.00	0.00	0.00	2,707.00	6,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,700.00	0.00	0.00	2,807.00	6,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,800.00	0.00	0.00	2,907.00	6,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
6,900.00	0.00	0.00	3,007.00	6,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,000.00	0.00	0.00	3,107.00	7,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,100.00	0.00	0.00	3,207.00	7,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,200.00	0.00	0.00	3,307.00	7,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,300.00	0.00	0.00	3,407.00	7,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,400.00	0.00	0.00	3,507.00	7,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,500.00	0.00	0.00	3,607.00	7,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,600.00	0.00	0.00	3,707.00	7,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,700.00	0.00	0.00	3,807.00	7,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,800.00	0.00	0.00	3,907.00	7,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
7,900.00	0.00	0.00	4,007.00	7,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,000.00	0.00	0.00	4,107.00	8,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00



Phoenix Technology Services

Planning Report



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8,100.00	0.00	0.00	4,207.00	8,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,200.00	0.00	0.00	4,307.00	8,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,300.00	0.00	0.00	4,407.00	8,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,400.00	0.00	0.00	4,507.00	8,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,500.00	0.00	0.00	4,607.00	8,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,600.00	0.00	0.00	4,707.00	8,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,700.00	0.00	0.00	4,807.00	8,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,800.00	0.00	0.00	4,907.00	8,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
8,900.00	0.00	0.00	5,007.00	8,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,000.00	0.00	0.00	5,107.00	9,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,100.00	0.00	0.00	5,207.00	9,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,200.00	0.00	0.00	5,307.00	9,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,300.00	0.00	0.00	5,407.00	9,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,400.00	0.00	0.00	5,507.00	9,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,500.00	0.00	0.00	5,607.00	9,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,600.00	0.00	0.00	5,707.00	9,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,700.00	0.00	0.00	5,807.00	9,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,800.00	0.00	0.00	5,907.00	9,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
9,900.00	0.00	0.00	6,007.00	9,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,000.00	0.00	0.00	6,107.00	10,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,100.00	0.00	0.00	6,207.00	10,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,200.00	0.00	0.00	6,307.00	10,200.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,300.00	0.00	0.00	6,407.00	10,300.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,400.00	0.00	0.00	6,507.00	10,400.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,500.00	0.00	0.00	6,607.00	10,500.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,600.00	0.00	0.00	6,707.00	10,600.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,700.00	0.00	0.00	6,807.00	10,700.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00



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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
10,800.00	0.00	0.00	6,907.00	10,800.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
10,900.00	0.00	0.00	7,007.00	10,900.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
11,000.00	0.00	0.00	7,107.00	11,000.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
11,100.00	0.00	0.00	7,207.00	11,100.00	0.00	0.00	633,447.00	709,257.00	0.00	0.00
11,172.54	0.00	0.00	7,279.54	11,172.54	0.00	0.00	633,447.00	709,257.00	0.00	0.00
KOP: Start Build 12.00°/100'										
11,175.00	0.30	195.15	7,282.00	11,175.00	-0.01	0.00	633,446.99	709,257.00	0.01	12.00
11,200.00	3.30	195.15	7,306.98	11,199.98	-0.76	-0.21	633,446.24	709,256.79	0.77	12.00
11,225.00	6.30	195.15	7,331.89	11,224.89	-2.78	-0.75	633,444.22	709,256.25	2.80	12.00
11,250.00	9.30	195.15	7,356.66	11,249.66	-6.05	-1.64	633,440.95	709,255.36	6.10	12.00
11,275.00	12.30	195.15	7,381.22	11,274.22	-10.57	-2.86	633,436.43	709,254.14	10.66	12.00
11,300.00	15.30	195.15	7,405.49	11,298.49	-16.32	-4.42	633,430.68	709,252.58	16.46	12.00
11,325.00	18.30	195.15	7,429.42	11,322.42	-23.30	-6.31	633,423.70	709,250.69	23.49	12.00
11,350.00	21.30	195.15	7,452.94	11,345.94	-31.47	-8.52	633,415.53	709,248.48	31.74	12.00
11,375.00	24.30	195.15	7,475.99	11,368.99	-40.82	-11.05	633,406.18	709,245.95	41.16	12.00
11,400.00	27.30	195.15	7,498.49	11,391.49	-51.32	-13.89	633,395.68	709,243.11	51.75	12.00
11,425.00	30.30	195.15	7,520.40	11,413.40	-62.94	-17.04	633,384.06	709,239.96	63.47	12.00
11,450.00	33.30	195.15	7,541.65	11,434.65	-75.65	-20.48	633,371.35	709,236.52	76.30	12.00
11,475.00	36.30	195.15	7,562.17	11,455.17	-89.42	-24.21	633,357.58	709,232.79	90.18	12.00
11,500.00	39.30	195.15	7,581.93	11,474.93	-104.21	-28.21	633,342.79	709,228.79	105.09	12.00
11,525.00	42.30	195.15	7,600.85	11,493.85	-119.97	-32.48	633,327.03	709,224.52	120.99	12.00
11,550.00	45.30	195.15	7,618.89	11,511.89	-136.67	-37.00	633,310.33	709,220.00	137.83	12.00
11,575.00	48.30	195.15	7,636.01	11,529.01	-154.26	-41.77	633,292.74	709,215.23	155.57	12.00
11,600.00	51.30	195.15	7,652.14	11,545.14	-172.68	-46.76	633,274.32	709,210.24	174.16	12.00
11,625.00	54.30	195.15	7,667.26	11,560.26	-191.90	-51.96	633,255.10	709,205.04	193.54	12.00
11,650.00	57.30	195.15	7,681.31	11,574.31	-211.86	-57.36	633,235.14	709,199.64	213.66	12.00
11,675.00	60.30	195.15	7,694.26	11,587.26	-232.49	-62.95	633,214.51	709,194.05	234.48	12.00



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11,700.00	63.30	195.15	7,706.08	11,599.08	-253.76	-68.71	633,193.24	709,188.29	255.92	12.00
11,725.00	66.30	195.15	7,716.72	11,609.72	-275.59	-74.62	633,171.41	709,182.38	277.94	12.00
11,750.00	69.30	195.15	7,726.17	11,619.17	-297.93	-80.67	633,149.07	709,176.33	300.47	12.00
11,775.00	72.30	195.15	7,734.39	11,627.39	-320.71	-86.84	633,126.29	709,170.16	323.45	12.00
11,800.00	75.30	195.15	7,741.37	11,634.37	-343.88	-93.11	633,103.12	709,163.89	346.82	12.00
11,825.00	78.30	195.15	7,747.08	11,640.08	-367.37	-99.47	633,079.63	709,157.53	370.51	12.00
11,850.00	81.30	195.15	7,751.51	11,644.51	-391.12	-105.90	633,055.88	709,151.10	394.46	12.00
11,875.00	84.30	195.15	7,754.64	11,647.64	-415.06	-112.38	633,031.94	709,144.62	418.60	12.00
11,900.00	87.30	195.15	7,756.47	11,649.47	-439.12	-118.90	633,007.88	709,138.10	442.87	12.00
11,922.54	90.00	195.15	7,757.00	11,650.00	-460.87	-124.78	632,986.13	709,132.22	464.80	12.00
LP at 90° Inc/Start Turn 3.00°/100'										
12,000.00	90.00	192.83	7,757.00	11,650.00	-536.03	-143.51	632,910.97	709,113.49	540.54	3.00
12,100.00	90.00	189.83	7,757.00	11,650.00	-634.07	-163.14	632,812.93	709,093.86	639.19	3.00
12,200.00	90.00	186.83	7,757.00	11,650.00	-733.00	-177.62	632,714.00	709,079.38	738.55	3.00
12,300.00	90.00	183.83	7,757.00	11,650.00	-832.56	-186.90	632,614.44	709,070.10	838.37	3.00
12,400.00	90.00	180.83	7,757.00	11,650.00	-932.47	-190.96	632,514.53	709,066.04	938.35	3.00
12,449.30	90.00	179.35	7,757.00	11,650.00	-981.77	-191.04	632,465.23	709,065.96	987.63	3.00
EOT: 179.35° Azi										
12,500.00	90.00	179.35	7,757.00	11,650.00	-1,032.46	-190.46	632,414.54	709,066.54	1,038.28	0.00
12,600.00	90.00	179.35	7,757.00	11,650.00	-1,132.46	-189.32	632,314.54	709,067.68	1,138.17	0.00
12,700.00	90.00	179.35	7,757.00	11,650.00	-1,232.45	-188.18	632,214.55	709,068.82	1,238.07	0.00
12,800.00	90.00	179.35	7,757.00	11,650.00	-1,332.44	-187.04	632,114.56	709,069.96	1,337.97	0.00
12,900.00	90.00	179.35	7,757.00	11,650.00	-1,432.44	-185.90	632,014.56	709,071.10	1,437.87	0.00
13,000.00	90.00	179.35	7,757.00	11,650.00	-1,532.43	-184.76	631,914.57	709,072.24	1,537.77	0.00
13,100.00	90.00	179.35	7,757.00	11,650.00	-1,632.42	-183.62	631,814.58	709,073.38	1,637.67	0.00
13,200.00	90.00	179.35	7,757.00	11,650.00	-1,732.42	-182.48	631,714.58	709,074.52	1,737.57	0.00
13,300.00	90.00	179.35	7,757.00	11,650.00	-1,832.41	-181.34	631,614.59	709,075.66	1,837.47	0.00



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Design: Plan #1 02-05-14

Local Co-ordinate Reference: Well Fed Com #3H
TVD Reference: WELL @ 3893.00usft (Patterson 452)
MD Reference: WELL @ 3893.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
13,400.00	90.00	179.35	7,757.00	11,650.00	-1,932.40	-180.20	631,514.60	709,076.80	1,937.36	0.00
13,500.00	90.00	179.35	7,757.00	11,650.00	-2,032.40	-179.06	631,414.60	709,077.94	2,037.26	0.00
13,600.00	90.00	179.35	7,757.00	11,650.00	-2,132.39	-177.92	631,314.61	709,079.08	2,137.16	0.00
13,700.00	90.00	179.35	7,757.00	11,650.00	-2,232.38	-176.79	631,214.62	709,080.21	2,237.06	0.00
13,800.00	90.00	179.35	7,757.00	11,650.00	-2,332.38	-175.65	631,114.62	709,081.35	2,336.96	0.00
13,900.00	90.00	179.35	7,757.00	11,650.00	-2,432.37	-174.51	631,014.63	709,082.49	2,436.86	0.00
14,000.00	90.00	179.35	7,757.00	11,650.00	-2,532.37	-173.37	630,914.63	709,083.63	2,536.76	0.00
14,100.00	90.00	179.35	7,757.00	11,650.00	-2,632.36	-172.23	630,814.64	709,084.77	2,636.66	0.00
14,200.00	90.00	179.35	7,757.00	11,650.00	-2,732.35	-171.09	630,714.65	709,085.91	2,736.56	0.00
14,300.00	90.00	179.35	7,757.00	11,650.00	-2,832.35	-169.95	630,614.65	709,087.05	2,836.45	0.00
14,400.00	90.00	179.35	7,757.00	11,650.00	-2,932.34	-168.81	630,514.66	709,088.19	2,936.35	0.00
14,500.00	90.00	179.35	7,757.00	11,650.00	-3,032.33	-167.67	630,414.67	709,089.33	3,036.25	0.00
14,600.00	90.00	179.35	7,757.00	11,650.00	-3,132.33	-166.53	630,314.67	709,090.47	3,136.15	0.00
14,700.00	90.00	179.35	7,757.00	11,650.00	-3,232.32	-165.39	630,214.68	709,091.61	3,236.05	0.00
14,800.00	90.00	179.35	7,757.00	11,650.00	-3,332.31	-164.25	630,114.69	709,092.75	3,335.95	0.00
14,900.00	90.00	179.35	7,757.00	11,650.00	-3,432.31	-163.11	630,014.69	709,093.89	3,435.85	0.00
15,000.00	90.00	179.35	7,757.00	11,650.00	-3,532.30	-161.97	629,914.70	709,095.03	3,535.75	0.00
15,100.00	90.00	179.35	7,757.00	11,650.00	-3,632.29	-160.83	629,814.71	709,096.17	3,635.65	0.00
15,200.00	90.00	179.35	7,757.00	11,650.00	-3,732.29	-159.69	629,714.71	709,097.31	3,735.54	0.00
15,300.00	90.00	179.35	7,757.00	11,650.00	-3,832.28	-158.55	629,614.72	709,098.45	3,835.44	0.00
15,400.00	90.00	179.35	7,757.00	11,650.00	-3,932.27	-157.41	629,514.73	709,099.59	3,935.34	0.00
15,500.00	90.00	179.35	7,757.00	11,650.00	-4,032.27	-156.27	629,414.73	709,100.73	4,035.24	0.00
15,600.00	90.00	179.35	7,757.00	11,650.00	-4,132.26	-155.13	629,314.74	709,101.87	4,135.14	0.00
15,700.00	90.00	179.35	7,757.00	11,650.00	-4,232.25	-153.99	629,214.75	709,103.01	4,235.04	0.00
15,800.00	90.00	179.35	7,757.00	11,650.00	-4,332.25	-152.85	629,114.75	709,104.15	4,334.94	0.00
15,900.00	90.00	179.35	7,757.00	11,650.00	-4,432.24	-151.72	629,014.76	709,105.28	4,434.84	0.00



Phoenix Technology Services Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Aztec 22 Fed
Well: Fed Com #3H
Wellbore: Wellbore #1 Job #1410228
Design: Plan #1 02-05-14

Local Co-ordinate Reference: Well Fed Com #3H
TVD Reference: WELL @ 3893.00usft (Patterson 452)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
15,962.76	90.00	179.35	7,757.00	11,650.00	-4,495.00	-151.00	628,952.00	709,106.00	4,497.54	0.00
TD at 15962.76										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,172.54	11,172.54	0.00	0.00	KOP: Start Build 12.00°/100'
11,922.54	11,650.00	-460.87	-124.78	LP at 90° Inc/Start Turn 3.00°/100'
12,449.30	11,650.00	-981.77	-191.04	EOT: 179.35° Azi
15,962.76	11,650.00	-4,495.00	-151.00	TD at 15962.76

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

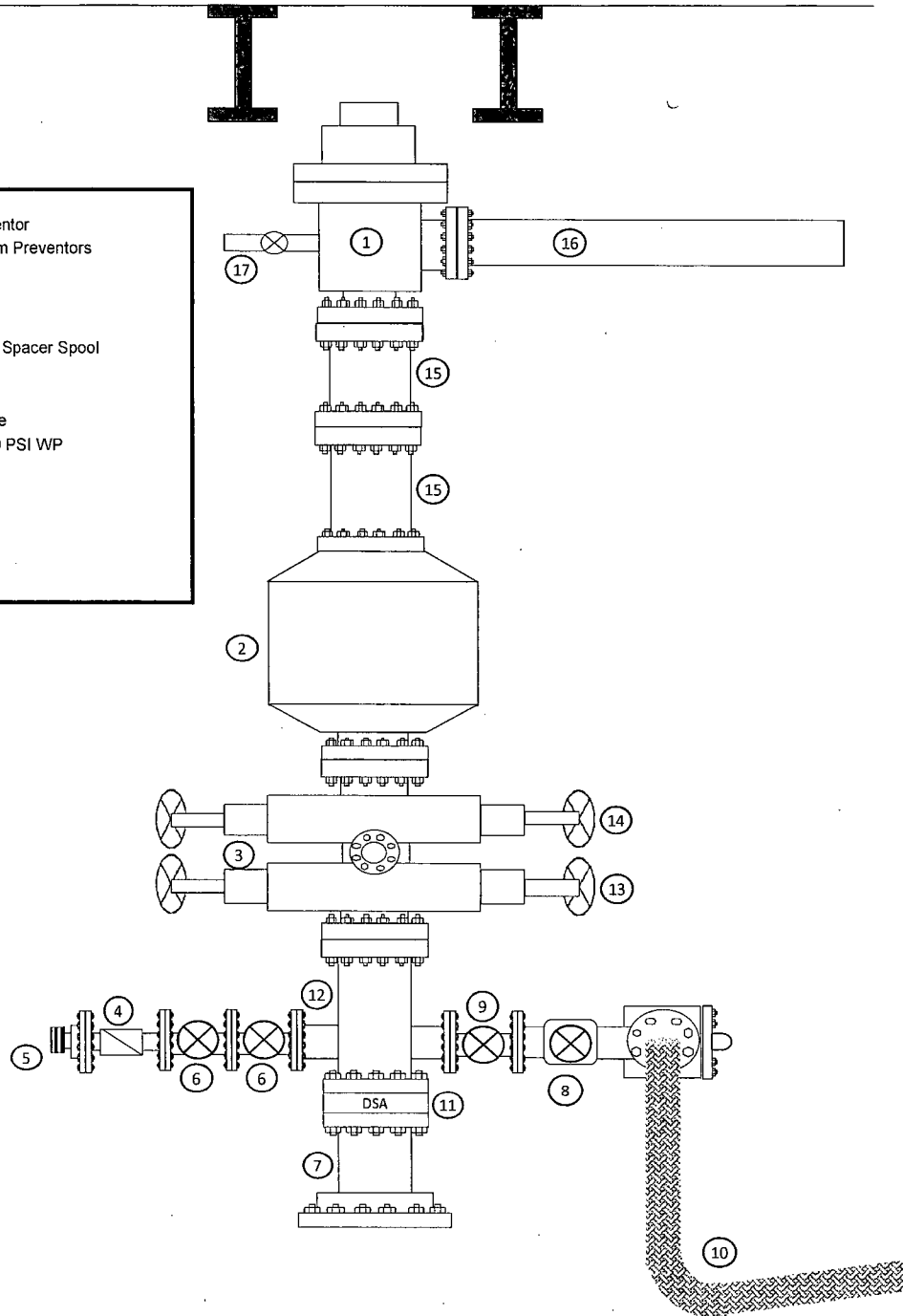
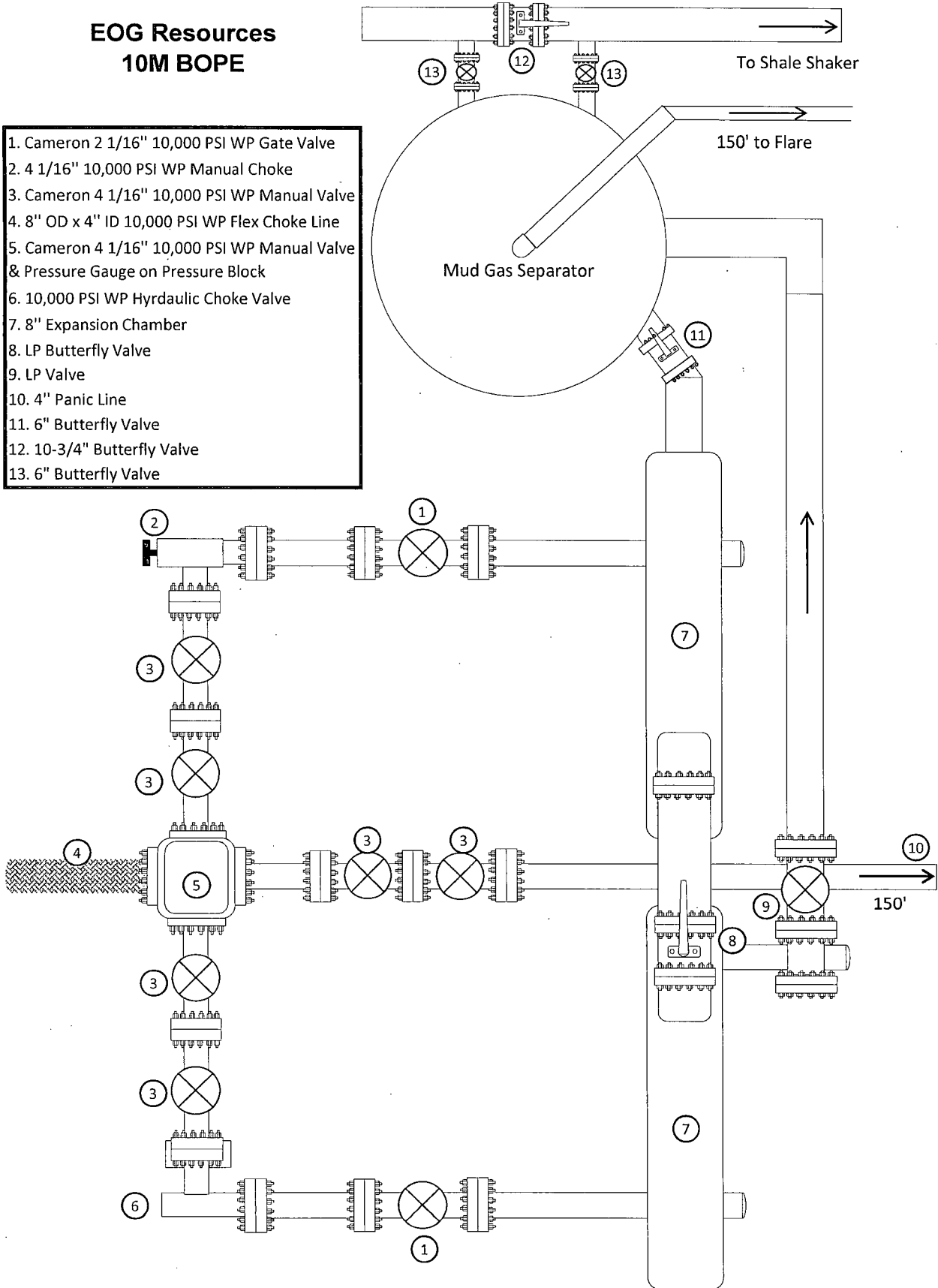


Exhibit 1a

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



Manufacturer: Robsco, Inc.

Serial Number: L31802030612R091712-1

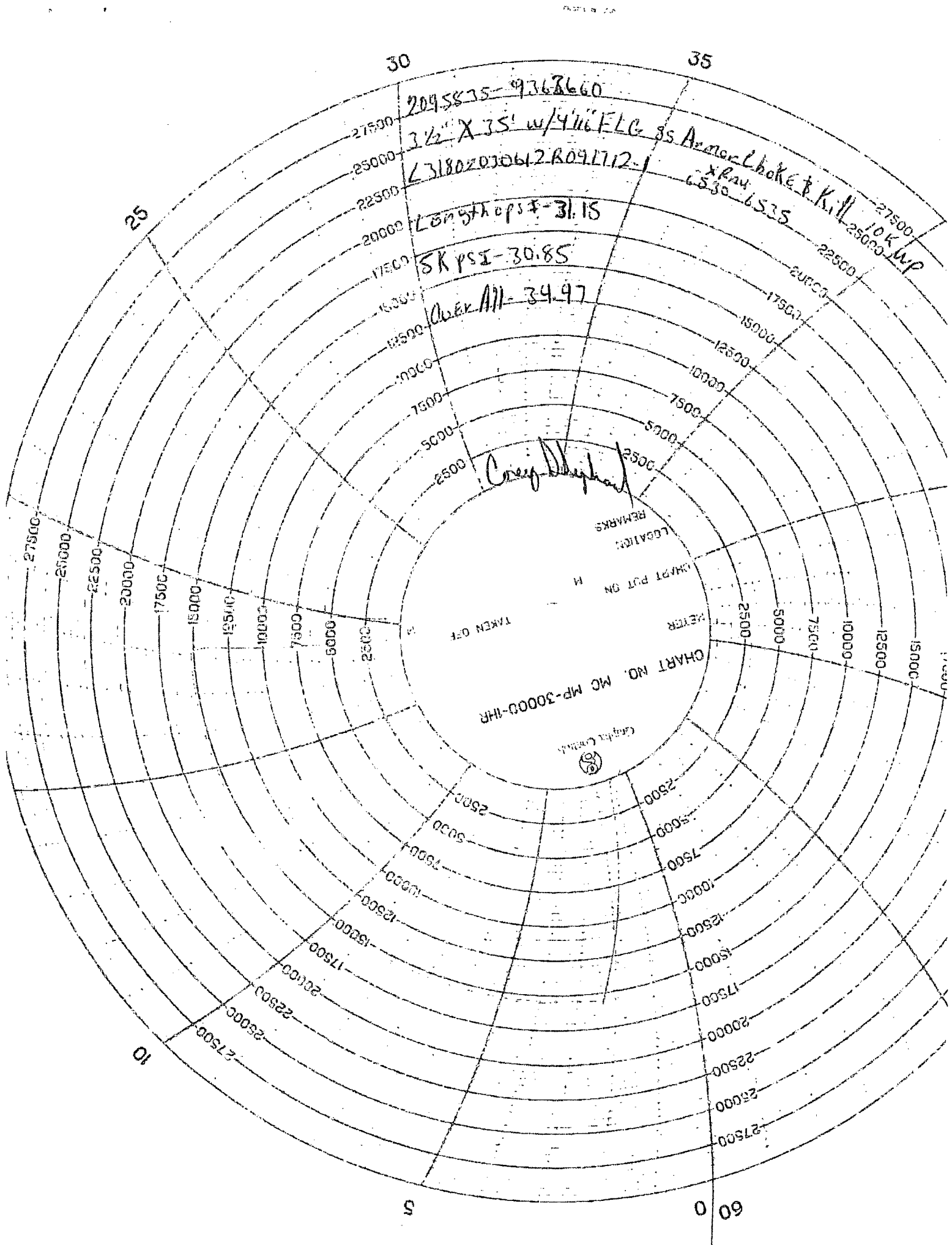
Length: 35', Exterior Stainless Steel Armour

Size: OD = 8" ID = 3.5"

Ends: 4-1/16" 10k Flange

WP Rating: 10,000 psi

Anchors required by manufacturer: No



2095835-936860

3 1/2' X 35' w/4 1/2" FLG 85 Armer L hoke & Kill
L31802030612 R091712-1
X Rm 6530 6535

Length of post - 31.15

SK PSI - 30.85

Over All - 34.97

Craig D. Highland

TAKEN OFF

REMARKS

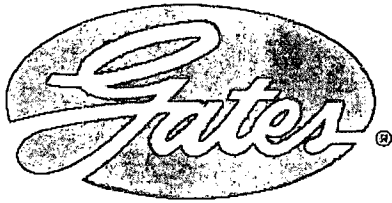
LOCATION

CHART PUT ON

METER

CHART NO. MC MP-30000-IHR

Graph Control



Robesco, Inc.
OILFIELD RUBBER PRODUCTS
4749 Eastpark Drive
Houston, TX 77028
United States of America

Gates Corporation Authorized Rotary and Vibrator Hose Subcontracted Fabricator

Hydrostatic Test Certification

Robesco, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the hydrostatic test per API Spec 7K, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Assembly Part Number
36335R4-1/16FLG10K-SS

Serial Number / Date Code
L31802030612R091712-1

Chart Recorder Information

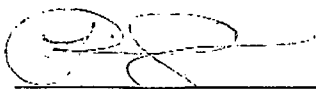
Hose Size
3.5IN X 35FT

Testers
OC CS

Serial Number
Recorder 22349

Calibration Date
July 10th 2012

Hydrostatic Test: Passed
Visual Inspection: Passed


QA Representative Signature

9/17/2012 PS
Date & Initial