

OCT 19 2012

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a. Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

432-686-3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

330 FSL & 365 FWL, SWNW, Sec 36 SHL
230 FNL & 380 FWL, NWNW, Sec 25 Proposed BHL

5. Lease Serial No.

NM 122622 BHL

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

Endurance 36 3H

State Com

9. API Well No

30-025-40259

10. Field and Pool, or Exploratory Area

Bradley; Bone Spring

11. County or Parish, State

Lea NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|--|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☐ Other |
| ☒ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

EOG Resources requests an amendment to the APD for this well to reflect changes in production casing, reclamation plan, and BHL.

Change from a pilot to a non-pilot well.

Casing change from 5-1/2", 20#, P110/HCP110 NSCC to 5-1/2", 17#, P110/HCP110 LTC.

Change in BHL to 230' FNL & 380' FWL, U/L D (NWNW), Sec 25, T26S, R33E
Amended directional plan is attached.

Amended reclamation plan and wellsite diagram attached.

**UNORTHODOX
LOCATION**

OCD CONDITION OF APPROVAL for Drilling
Intent to Drill ONLY — CANNOT produce until the Non-Standard
Location has been approved by the OCD Santa Fe office.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Stan Wagner

Title Regulatory Analyst

Signature

Date 9/06/12

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ James A. Amos

Title FIELD MANAGER

Conditions of approval, if any, are attached. Approval of this notice 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.

Office
CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

OCT 22 2012

* Amended

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 3H
REVISED BHL 8/29/12

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Rustler	785'
Top of Salt	1,400'
Base of Salt	4,965'
Lamar	5,205'
Bell Canyon	5,230'
Brushy Canyon	7,790'
Bone Spring Lime	9,423'
TD	9,550'

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

Upper Permian Sands	0- 400'	Fresh Water
Brushy Canyon	7,790'	Oil
Bone Spring Lime	9,423'	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 915' and circulating cement back to surface.

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 915'	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'-5,100'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0'-16,579'	5.500"	17#	P110 or HCP110	LTC	1.125	1.25	1.60

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 3H
REVISED BHL 8/29/12

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /ft	Slurry Description
915'	275	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ surface)
	300	14.8	1.34	Tail: Class C + 0.005 pps Static Free + 2% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
5,100'	650	12.7	2.22	Lead: Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
16,579'	225	10.8	3.68	Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 4900')
	250	11.8	2.38	Middle: 50:50:10 Class 'H' + 0.80% FL-52 + 0.45% ASA-301 + 0.40% SMS + 2.00% Salt + 3.00 lb/sx LCM-1 + 0.20% R-21 + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
	2025	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

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

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

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 drilling the intermediate hole section. Due to the 3000 psi BOPE requirement, a FIT test is not required prior to drilling below the surface casing shoe.

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 3000/ 250 psig and the annular preventer to 3000/ 250 psig. The intermediate casing will be tested to 2000 psi for 30 minutes.

EOG RESOURCES, INC.
ENDURANCE 36 STATE COM NO. 3H
REVISED BHL 8/29/12

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.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 915'	Fresh Water Gel	8.6-8.8	28-34	N/c
915' – 5,100'	Saturated Brine	10.0-10.2	28-34	N/c
5,100' – 9,072'	Cut Brine Water	8.5-9.3	28-34	N/c
9,072' – 16,579' Lateral	Cut Brine Water	9.0-9.5	28-34	N/c

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) A mud logging unit will be continuously monitoring drill penetration rate and hydrocarbon shows from intermediate casing point to TD.
- (D) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

EOG RESOURCES, INC.
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8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logging is anticipated in the 8-3/4" hole section. The logging suites scheduled for this hole section are listed below:

NGT–CNL–LDT w/ Pe	From TD to previous casing shoe. At casing pull GR – Neutron to surface.
HR Laterolog Array	From TD to previous casing shoe.

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 4135 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

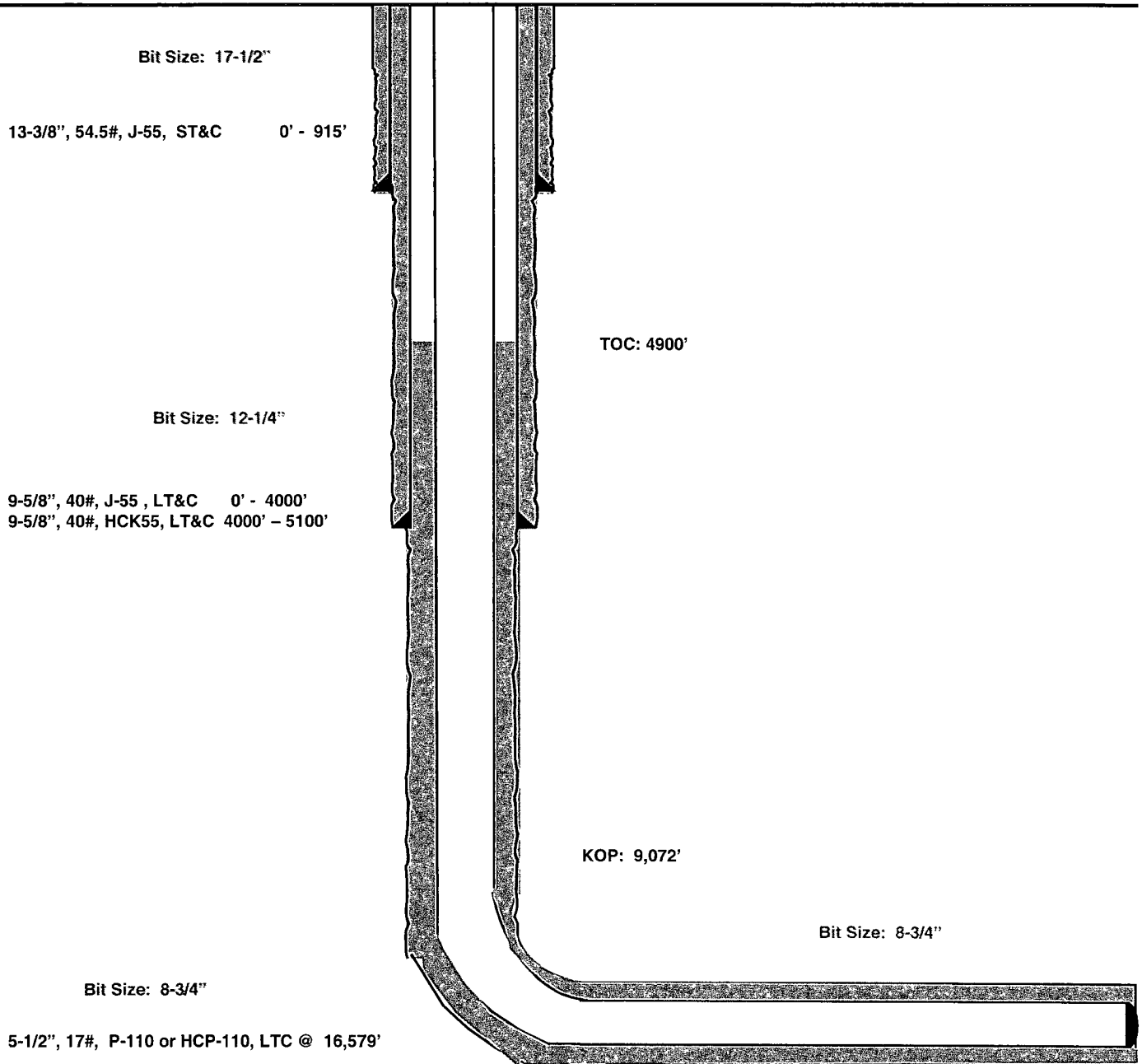
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

Endurance 36 State Com #3H
Red Hills
Lea County, New Mexico
REVISED BHL 8/29/12
Proposed Wellbore

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

API: 30-025- *****

KB: 3,366'
GL: 3,336'



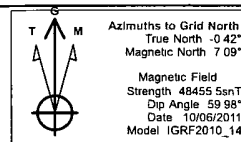
Bone Spring Sand Lateral: 16,579' MD, 9,550' TVD

BH Location: 230' FNL & 380' FWL
Section 25
T-26-S, R-33-E

EOG Resources

**Project: Lea County, NM (Nad27)
Site: Endurance 36 State Com
Well: Endurance 36 State Com 3H
Wellbore: Wellbore #1
Plan: Plan #2 082412
Rig: Cactus Rig No. 123**

PROJECT DETAILS	
Lea County, NM (Nad27)	
Geodetic System	US State Plane 1927 (Exact solution)
Datum	NAD 1927 (NADCON CONUS)
Ellipsoid	Clarke 1866
Zone	New Mexico East 3001
System Datum	Mean Sea Level
Location North	Grid



PHOENIX
TECHNOLOGY SERVICE

WELL DETAILS: Endurance 36 State Com 3H

	Ground Level	3336 00	
Northing	Easting	Latitude	Longitude
365025 00	748111 00	32° 0' 3 7533 N	103° 31' 58 6703 W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL Endurance 36 State Com 3H	9550 00	7234 00	-36 00	372259 00	748075 00	Point

SECTION DETAILS

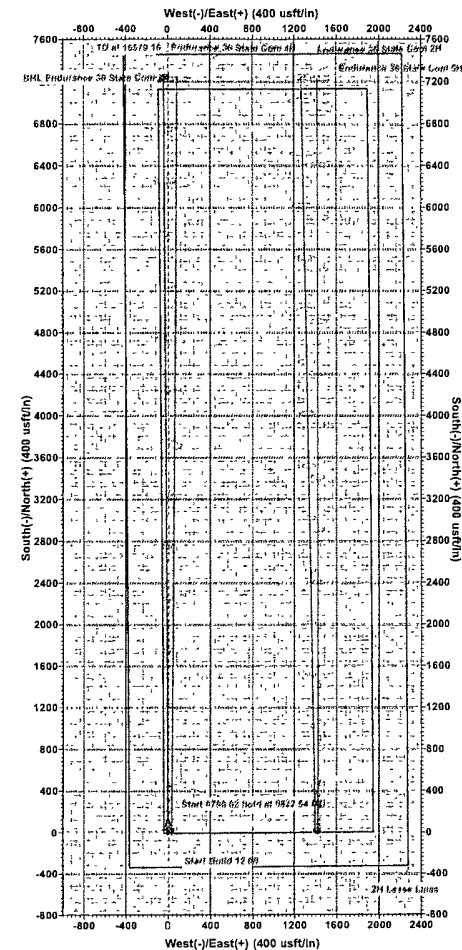
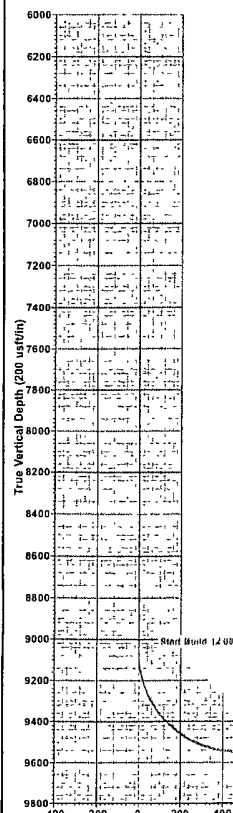
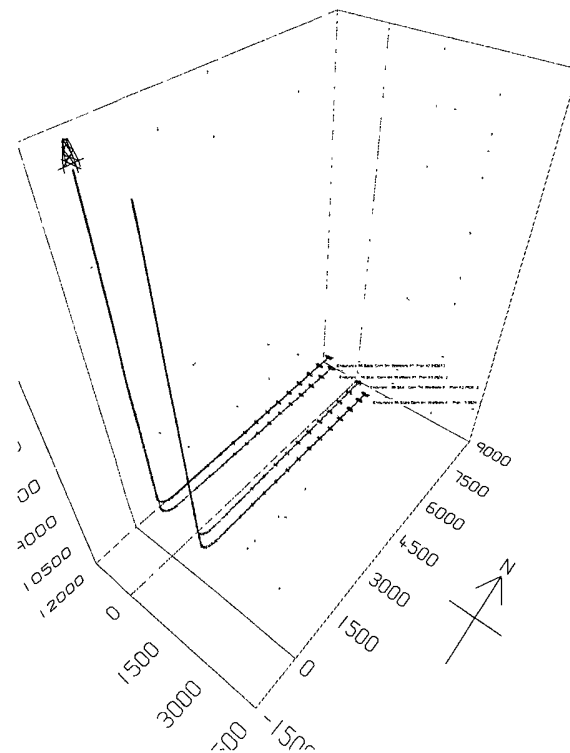
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	V Sect
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
9072 54	0 00	0 00	9072 54	0 00	0 00	0 00	0 00	0 00
9822 54	90 00	359 71	9550 00	477 46	-2 38	12 00	359 71	477 46
16579 16	90 00	359 71	9550 00	7234 00	-36 00	0 00	0 00	7234 09

ANNOTATIONS

TVD	MD	Annotation
9072 54	9072 54	Start Build 12 00
9550 00	9822 54	Start 6756 62 hold at 9822 54 MD
9550 00	16579 16	TD at 16579 16

FORMATION TOP DETAILS

No formation data is available



Vertical Section at 359 71° (200 usft/in)

File: EEER Endowment 36 State Corp. Wt (GAL) 1270 Wt

EOG Resources

Lea County, NM (Nad27)

Endurance 36 State Com

Endurance 36 State Com 3H

Wellbore #1

Plan: Plan #2 082412

EOG Resources

24 August, 2012



PHOENIX
TECHNOLOGY SERVICES

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Endurance 36 State Com 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	Well @ 3366.00usft
Site:	Endurance 36 State Com	MD Reference:	Well @ 3366.00usft
Well:	Endurance 36 State Com 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan #2 082412	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:	Endurance 36 State Com		
Site Position:		Northing:	365,024 70 usft
From:	Map	Easting:	748,111 00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.7503 N
		Longitude:	103° 31' 58.6703 W
		Grid Convergence:	0 42 °

Well		Endurance 36 State Com 3H				
Well Position	+N/-S	0.00 usft	Northing:	365,025.00 usft	Latitude:	32° 0' 3.7533 N
	+E/-W	0.00 usft	Easting:	748,111.00 usft	Longitude:	103° 31' 58.6703 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,336.00 usft

Wellbore						Wellbore #1									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
						IGRF2010_14		10/06/11		(°)		(°)		(nT)	
										7 51		59.98		48,455	

Design:	Plan #2 082412			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	359.71

Survey Tool Program	Date	08/24/12		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	16,579.16	Plan #2 082412 (Wellbore #1)	MWD	MWD - Standard

Phoenix Technology Services
EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Endurance 36 State Com
Well: Endurance 36 State Com 3H
Wellbore: Wellbore #1
Design: Plan #2 082412

Local Co-ordinate Reference: Well Endurance 36 State Com 3H
TVD Reference: Well @ 3366.00usft
MD Reference: Well @ 3366.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	-3,366.00	0.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
100.00	0.00	0.00	-3,266.00	100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
200.00	0.00	0.00	-3,166.00	200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
300.00	0.00	0.00	-3,066.00	300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
400.00	0.00	0.00	-2,966.00	400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
500.00	0.00	0.00	-2,866.00	500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
600.00	0.00	0.00	-2,766.00	600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
700.00	0.00	0.00	-2,666.00	700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
800.00	0.00	0.00	-2,566.00	800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
900.00	0.00	0.00	-2,466.00	900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,000.00	0.00	0.00	-2,366.00	1,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,100.00	0.00	0.00	-2,266.00	1,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,200.00	0.00	0.00	-2,166.00	1,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,300.00	0.00	0.00	-2,066.00	1,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,400.00	0.00	0.00	-1,966.00	1,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,500.00	0.00	0.00	-1,866.00	1,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,600.00	0.00	0.00	-1,766.00	1,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,700.00	0.00	0.00	-1,666.00	1,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,800.00	0.00	0.00	-1,566.00	1,800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
1,900.00	0.00	0.00	-1,466.00	1,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,000.00	0.00	0.00	-1,366.00	2,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,100.00	0.00	0.00	-1,266.00	2,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,200.00	0.00	0.00	-1,166.00	2,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,300.00	0.00	0.00	-1,066.00	2,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,400.00	0.00	0.00	-966.00	2,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,500.00	0.00	0.00	-866.00	2,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
2,600.00	0.00	0.00	-766.00	2,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00

Phoenix Technology Services
EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Endurance 36 State Com
Well: Endurance 36 State Com 3H
Wellbore: Wellbore #1
Design: Plan #2 082412

Local Co-ordinate Reference: Well Endurance 36 State Com 3H
TVD Reference: Well @ 3366.00usft
MD Reference: Well @ 3366.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: GCR DB v5000

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0 00	-666.00	2,700.00	0 00	0.00	0.00	0.00	365,025.00	748,111.00
2,800.00	0.00	0.00	-566.00	2,800.00	0 00	0.00	0.00	0.00	365,025.00	748,111.00
2,900.00	0.00	0 00	-466.00	2,900.00	0.00	0.00	0.00	0 00	365,025.00	748,111.00
3,000.00	0.00	0 00	-366.00	3,000.00	0.00	0.00	0 00	0 00	365,025.00	748,111.00
3,100.00	0.00	0.00	-266.00	3,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
3,200.00	0.00	0.00	-166.00	3,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
3,300.00	0.00	0.00	-66.00	3,300.00	0 00	0.00	0 00	0 00	365,025.00	748,111.00
3,400.00	0 00	0.00	34.00	3,400.00	0.00	0.00	0.00	0 00	365,025.00	748,111.00
3,500.00	0 00	0.00	134.00	3,500.00	0.00	0.00	0.00	0 00	365,025.00	748,111.00
3,600.00	0.00	0 00	234.00	3,600.00	0.00	0.00	0 00	0.00	365,025.00	748,111.00
3,700.00	0.00	0.00	334.00	3,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
3,800.00	0.00	0 00	434.00	3,800.00	0.00	0.00	0.00	0 00	365,025.00	748,111.00
3,900.00	0 00	0.00	534.00	3,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
4,000.00	0 00	0.00	634.00	4,000.00	0.00	0.00	0.00	0 00	365,025.00	748,111.00
4,100.00	0.00	0.00	734.00	4,100.00	0.00	0.00	0.00	0.00	365,025 00	748,111.00
4,200.00	0.00	0.00	834.00	4,200.00	0.00	0.00	0.00	0.00	365,025 00	748,111.00
4,300.00	0.00	0.00	934.00	4,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
4,400.00	0.00	0.00	1,034.00	4,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
4,500.00	0.00	0.00	1,134.00	4,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
4,600.00	0.00	0.00	1,234.00	4,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
4,700.00	0.00	0 00	1,334.00	4,700.00	0.00	0.00	0.00	0.00	365,025 00	748,111.00
4,800.00	0.00	0.00	1,434.00	4,800.00	0 00	0.00	0.00	0.00	365,025.00	748,111.00
4,900.00	0.00	0.00	1,534.00	4,900.00	0 00	0.00	0.00	0.00	365,025.00	748,111.00
5,000.00	0.00	0.00	1,634.00	5,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111 00
5,100.00	0 00	0.00	1,734.00	5,100.00	0.00	0.00	0 00	0.00	365,025.00	748,111.00
5,200.00	0.00	0.00	1,834.00	5,200.00	0.00	0.00	0 00	0.00	365,025.00	748,111.00
5,300.00	0.00	0.00	1,934.00	5,300.00	0 00	0.00	0.00	0.00	365,025.00	748,111.00

Phoenix Technology Services
EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Endurance 36 State Com
Well: Endurance 36 State Com 3H
Wellbore: Wellbore #1
Design: Plan #2 082412

Local Co-ordinate Reference: Well Endurance 36 State Com 3H
TVD Reference: Well @ 3366.00usft
MD Reference: Well @ 3366.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	2,034.00	5,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
5,500.00	0.00	0.00	2,134.00	5,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
5,600.00	0.00	0.00	2,234.00	5,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
5,700.00	0.00	0.00	2,334.00	5,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
5,800.00	0.00	0.00	2,434.00	5,800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
5,900.00	0.00	0.00	2,534.00	5,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,000.00	0.00	0.00	2,634.00	6,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,100.00	0.00	0.00	2,734.00	6,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,200.00	0.00	0.00	2,834.00	6,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,300.00	0.00	0.00	2,934.00	6,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,400.00	0.00	0.00	3,034.00	6,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,500.00	0.00	0.00	3,134.00	6,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,600.00	0.00	0.00	3,234.00	6,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,700.00	0.00	0.00	3,334.00	6,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,800.00	0.00	0.00	3,434.00	6,800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
6,900.00	0.00	0.00	3,534.00	6,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,000.00	0.00	0.00	3,634.00	7,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,100.00	0.00	0.00	3,734.00	7,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,200.00	0.00	0.00	3,834.00	7,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,300.00	0.00	0.00	3,934.00	7,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,400.00	0.00	0.00	4,034.00	7,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,500.00	0.00	0.00	4,134.00	7,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,600.00	0.00	0.00	4,234.00	7,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,700.00	0.00	0.00	4,334.00	7,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,800.00	0.00	0.00	4,434.00	7,800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
7,900.00	0.00	0.00	4,534.00	7,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,000.00	0.00	0.00	4,634.00	8,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00

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8,100.00	0.00	0.00	4,734.00	8,100.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,200.00	0.00	0.00	4,834.00	8,200.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,300.00	0.00	0.00	4,934.00	8,300.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,400.00	0.00	0.00	5,034.00	8,400.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,500.00	0.00	0.00	5,134.00	8,500.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,600.00	0.00	0.00	5,234.00	8,600.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,700.00	0.00	0.00	5,334.00	8,700.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,800.00	0.00	0.00	5,434.00	8,800.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
8,900.00	0.00	0.00	5,534.00	8,900.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
9,000.00	0.00	0.00	5,634.00	9,000.00	0.00	0.00	0.00	0.00	365,025.00	748,111.00
9,072.54	0.00	0.00	5,706.54	9,072.54	0.00	0.00	0.00	0.00	365,025.00	748,111.00
Start Build 12.00										
9,100.00	3.30	359.71	5,733.98	9,099.98	0.79	0.00	0.79	12.00	365,025.79	748,111.00
9,200.00	15.30	359.71	5,832.49	9,198.49	16.91	-0.08	16.91	12.00	365,041.91	748,110.92
9,300.00	27.30	359.71	5,925.49	9,291.49	53.16	-0.26	53.17	12.00	365,078.16	748,110.74
9,400.00	39.30	359.71	6,008.93	9,374.93	107.96	-0.54	107.96	12.00	365,132.96	748,110.46
9,500.00	51.30	359.71	6,079.14	9,445.14	178.90	-0.89	178.91	12.00	365,203.90	748,110.11
9,600.00	63.30	359.71	6,133.07	9,499.07	262.90	-1.31	262.90	12.00	365,287.90	748,109.69
9,700.00	75.30	359.71	6,168.36	9,534.36	356.27	-1.77	356.27	12.00	365,381.27	748,109.23
9,800.00	87.30	359.71	6,183.47	9,549.47	454.93	-2.26	454.94	12.00	365,479.93	748,108.74
9,822.54	90.00	359.71	6,184.00	9,550.00	477.46	-2.38	477.46	12.00	365,502.46	748,108.62
Start 6756.62 hold at 9822.54 MD										
9,900.00	90.00	359.71	6,184.00	9,550.00	554.92	-2.76	554.93	0.00	365,579.92	748,108.24
10,000.00	90.00	359.71	6,184.00	9,550.00	654.92	-3.26	654.93	0.00	365,679.92	748,107.74
10,100.00	90.00	359.71	6,184.00	9,550.00	754.92	-3.76	754.93	0.00	365,779.92	748,107.24
10,200.00	90.00	359.71	6,184.00	9,550.00	854.92	-4.25	854.93	0.00	365,879.92	748,106.75
10,300.00	90.00	359.71	6,184.00	9,550.00	954.92	-4.75	954.93	0.00	365,979.92	748,106.25

Phoenix Technology Services
EOG Resources



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Design: Plan #2 082412

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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	90.00	359.71	6,184.00	9,550.00	1,054.92	-5.25	1,054.93	0.00	366,079.92	748,105.75
10,500.00	90.00	359.71	6,184.00	9,550.00	1,154.92	-5.75	1,154.93	0.00	366,179.92	748,105.25
10,600.00	90.00	359.71	6,184.00	9,550.00	1,254.91	-6.25	1,254.93	0.00	366,279.91	748,104.75
10,700.00	90.00	359.71	6,184.00	9,550.00	1,354.91	-6.74	1,354.93	0.00	366,379.91	748,104.26
10,800.00	90.00	359.71	6,184.00	9,550.00	1,454.91	-7.24	1,454.93	0.00	366,479.91	748,103.76
10,900.00	90.00	359.71	6,184.00	9,550.00	1,554.91	-7.74	1,554.93	0.00	366,579.91	748,103.26
11,000.00	90.00	359.71	6,184.00	9,550.00	1,654.91	-8.24	1,654.93	0.00	366,679.91	748,102.76
11,100.00	90.00	359.71	6,184.00	9,550.00	1,754.91	-8.73	1,754.93	0.00	366,779.91	748,102.27
11,200.00	90.00	359.71	6,184.00	9,550.00	1,854.91	-9.23	1,854.93	0.00	366,879.91	748,101.77
11,300.00	90.00	359.71	6,184.00	9,550.00	1,954.91	-9.73	1,954.93	0.00	366,979.91	748,101.27
11,400.00	90.00	359.71	6,184.00	9,550.00	2,054.90	-10.23	2,054.93	0.00	367,079.90	748,100.77
11,500.00	90.00	359.71	6,184.00	9,550.00	2,154.90	-10.72	2,154.93	0.00	367,179.90	748,100.28
11,600.00	90.00	359.71	6,184.00	9,550.00	2,254.90	-11.22	2,254.93	0.00	367,279.90	748,099.78
11,700.00	90.00	359.71	6,184.00	9,550.00	2,354.90	-11.72	2,354.93	0.00	367,379.90	748,099.28
11,800.00	90.00	359.71	6,184.00	9,550.00	2,454.90	-12.22	2,454.93	0.00	367,479.90	748,098.78
11,900.00	90.00	359.71	6,184.00	9,550.00	2,554.90	-12.71	2,554.93	0.00	367,579.90	748,098.29
12,000.00	90.00	359.71	6,184.00	9,550.00	2,654.90	-13.21	2,654.93	0.00	367,679.90	748,097.79
12,100.00	90.00	359.71	6,184.00	9,550.00	2,754.90	-13.71	2,754.93	0.00	367,779.90	748,097.29
12,200.00	90.00	359.71	6,184.00	9,550.00	2,854.89	-14.21	2,854.93	0.00	367,879.89	748,096.79
12,300.00	90.00	359.71	6,184.00	9,550.00	2,954.89	-14.71	2,954.93	0.00	367,979.89	748,096.29
12,400.00	90.00	359.71	6,184.00	9,550.00	3,054.89	-15.20	3,054.93	0.00	368,079.89	748,095.80
12,500.00	90.00	359.71	6,184.00	9,550.00	3,154.89	-15.70	3,154.93	0.00	368,179.89	748,095.30
12,600.00	90.00	359.71	6,184.00	9,550.00	3,254.89	-16.20	3,254.93	0.00	368,279.89	748,094.80
12,700.00	90.00	359.71	6,184.00	9,550.00	3,354.89	-16.70	3,354.93	0.00	368,379.89	748,094.30
12,800.00	90.00	359.71	6,184.00	9,550.00	3,454.89	-17.19	3,454.93	0.00	368,479.89	748,093.81
12,900.00	90.00	359.71	6,184.00	9,550.00	3,554.89	-17.69	3,554.93	0.00	368,579.89	748,093.31
13,000.00	90.00	359.71	6,184.00	9,550.00	3,654.88	-18.19	3,654.93	0.00	368,679.88	748,092.81

Phoenix Technology Services
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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	90.00	359.71	6,184.00	9,550.00	3,754.88	-18.69	3,754.93	0.00	368,779.88	748,092.31	
13,200.00	90.00	359.71	6,184.00	9,550.00	3,854.88	-19.18	3,854.93	0.00	368,879.88	748,091.82	
13,300.00	90.00	359.71	6,184.00	9,550.00	3,954.88	-19.68	3,954.93	0.00	368,979.88	748,091.32	
13,400.00	90.00	359.71	6,184.00	9,550.00	4,054.88	-20.18	4,054.93	0.00	369,079.88	748,090.82	
13,500.00	90.00	359.71	6,184.00	9,550.00	4,154.88	-20.68	4,154.93	0.00	369,179.88	748,090.32	
13,600.00	90.00	359.71	6,184.00	9,550.00	4,254.88	-21.17	4,254.93	0.00	369,279.88	748,089.83	
13,700.00	90.00	359.71	6,184.00	9,550.00	4,354.88	-21.67	4,354.93	0.00	369,379.88	748,089.33	
13,800.00	90.00	359.71	6,184.00	9,550.00	4,454.87	-22.17	4,454.93	0.00	369,479.87	748,088.83	
13,900.00	90.00	359.71	6,184.00	9,550.00	4,554.87	-22.67	4,554.93	0.00	369,579.87	748,088.33	
14,000.00	90.00	359.71	6,184.00	9,550.00	4,654.87	-23.16	4,654.93	0.00	369,679.87	748,087.84	
14,100.00	90.00	359.71	6,184.00	9,550.00	4,754.87	-23.66	4,754.93	0.00	369,779.87	748,087.34	
14,200.00	90.00	359.71	6,184.00	9,550.00	4,854.87	-24.16	4,854.93	0.00	369,879.87	748,086.84	
14,300.00	90.00	359.71	6,184.00	9,550.00	4,954.87	-24.66	4,954.93	0.00	369,979.87	748,086.34	
14,400.00	90.00	359.71	6,184.00	9,550.00	5,054.87	-25.16	5,054.93	0.00	370,079.87	748,085.84	
14,500.00	90.00	359.71	6,184.00	9,550.00	5,154.87	-25.65	5,154.93	0.00	370,179.87	748,085.35	
14,600.00	90.00	359.71	6,184.00	9,550.00	5,254.86	-26.15	5,254.93	0.00	370,279.86	748,084.85	
14,700.00	90.00	359.71	6,184.00	9,550.00	5,354.86	-26.65	5,354.93	0.00	370,379.86	748,084.35	
14,800.00	90.00	359.71	6,184.00	9,550.00	5,454.86	-27.15	5,454.93	0.00	370,479.86	748,083.85	
14,900.00	90.00	359.71	6,184.00	9,550.00	5,554.86	-27.64	5,554.93	0.00	370,579.86	748,083.36	
15,000.00	90.00	359.71	6,184.00	9,550.00	5,654.86	-28.14	5,654.93	0.00	370,679.86	748,082.86	
15,100.00	90.00	359.71	6,184.00	9,550.00	5,754.86	-28.64	5,754.93	0.00	370,779.86	748,082.36	
15,200.00	90.00	359.71	6,184.00	9,550.00	5,854.86	-29.14	5,854.93	0.00	370,879.86	748,081.86	
15,300.00	90.00	359.71	6,184.00	9,550.00	5,954.86	-29.63	5,954.93	0.00	370,979.86	748,081.37	
15,400.00	90.00	359.71	6,184.00	9,550.00	6,054.85	-30.13	6,054.93	0.00	371,079.85	748,080.87	
15,500.00	90.00	359.71	6,184.00	9,550.00	6,154.85	-30.63	6,154.93	0.00	371,179.85	748,080.37	
15,600.00	90.00	359.71	6,184.00	9,550.00	6,254.85	-31.13	6,254.93	0.00	371,279.85	748,079.87	
15,700.00	90.00	359.71	6,184.00	9,550.00	6,354.85	-31.62	6,354.93	0.00	371,379.85	748,079.38	

Phoenix Technology Services
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Planned Survey

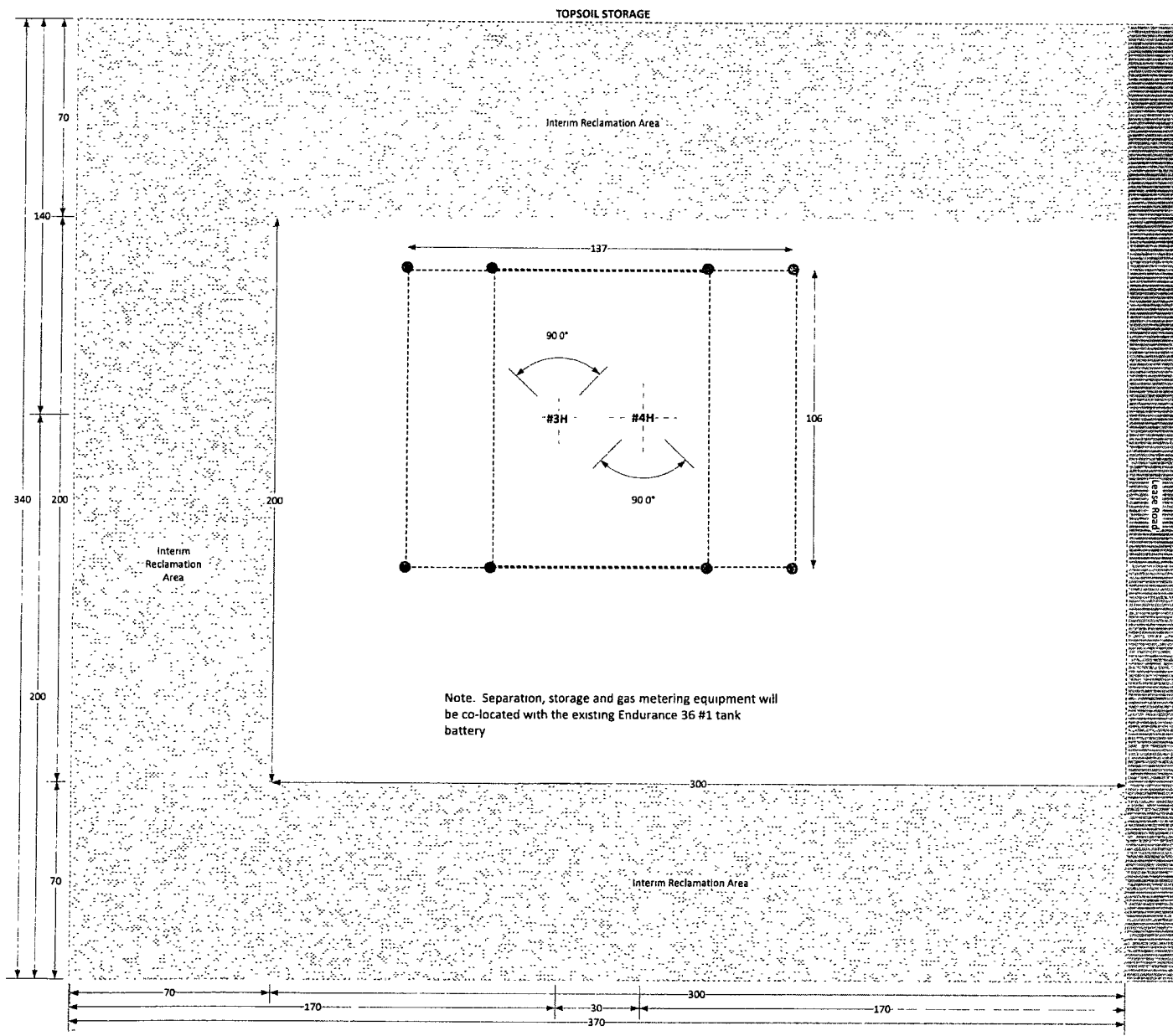
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
15,800.00	90.00	359.71	6,184.00	9,550.00	6,454.85	-32.12	6,454.93	0.00	371,479.85	748,078.88
15,900.00	90.00	359.71	6,184.00	9,550.00	6,554.85	-32.62	6,554.93	0.00	371,579.85	748,078.38
16,000.00	90.00	359.71	6,184.00	9,550.00	6,654.85	-33.12	6,654.93	0.00	371,679.85	748,077.88
16,100.00	90.00	359.71	6,184.00	9,550.00	6,754.85	-33.62	6,754.93	0.00	371,779.85	748,077.38
16,200.00	90.00	359.71	6,184.00	9,550.00	6,854.84	-34.11	6,854.93	0.00	371,879.84	748,076.89
16,300.00	90.00	359.71	6,184.00	9,550.00	6,954.84	-34.61	6,954.93	0.00	371,979.84	748,076.39
16,400.00	90.00	359.71	6,184.00	9,550.00	7,054.84	-35.11	7,054.93	0.00	372,079.84	748,075.89
16,500.00	90.00	359.71	6,184.00	9,550.00	7,154.84	-35.61	7,154.93	0.00	372,179.84	748,075.39
16,579.16	90.00	359.71	6,184.00	9,550.00	7,234.00	-36.00	7,234.09	0.00	372,259.00	748,075.00

TD at 16579.16

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,072.54	9,072.54	0.00	0.00	Start Build 12.00
9,822.54	9,550.00	477.46	-2.38	Start 6756.62 hold at 9822.54 MD
16,579.16	9,550.00	7,234.00	-36.00	TD at 16579.16

Checked By: _____ Approved By: _____ Date: _____



TITLE		
ENDURANCE 36 STATE COM # 3H & 4H		
DESCRIPTION		
PROPOSED SURFACE USE PLAN		
DRAWN BY	REVISED	SCALE
PNH	9/4/2012	1" = 35 ft