

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 88210
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
June 19, 2008

HOBBS OCD

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

JUL 31 2012

RECEIVED

WELL API NO. 30-025-40372
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name: Brown Bear 36 State
8. Well Number 2H
9. OGRID Number 7377
10. Pool name or Wildcat WC Red Hills; BS Upper Shale
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3319' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	7. Lease Name or Unit Agreement Name: Brown Bear 36 State
2. Name of Operator EOG Resources, Inc.	8. Well Number 2H
3. Address of Operator P.O. Box 2267 Midland, TX 79702	9. OGRID Number 7377
4. Well Location Unit Letter M : 220 feet from the South line and 675 feet from the West line Section 36 Township 25S Range 33E NMPM County Lea	10. Pool name or Wildcat WC Red Hills; BS Upper Shale
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3319' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our APD for this well to reflect a change in the proposed SHL and BHL.

Attached please find a revised C-102 showing a SHL of 220' FSL & 675' FWL, U/L M, 36-25S-33E, Lea Co. BHL of 230' FNL & 1005' FWL, U/L D, 36-25S-33E, Lea Co.

A revised directional plan is also attached.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 7/27/12

Type or print name Stan Wagner E-mail address: _____ PHONE 432-686-3689

For State Use Only

APPROVED BY [Signature] TITLE PETROLEUM ENGINEER DATE AUG 01 2012

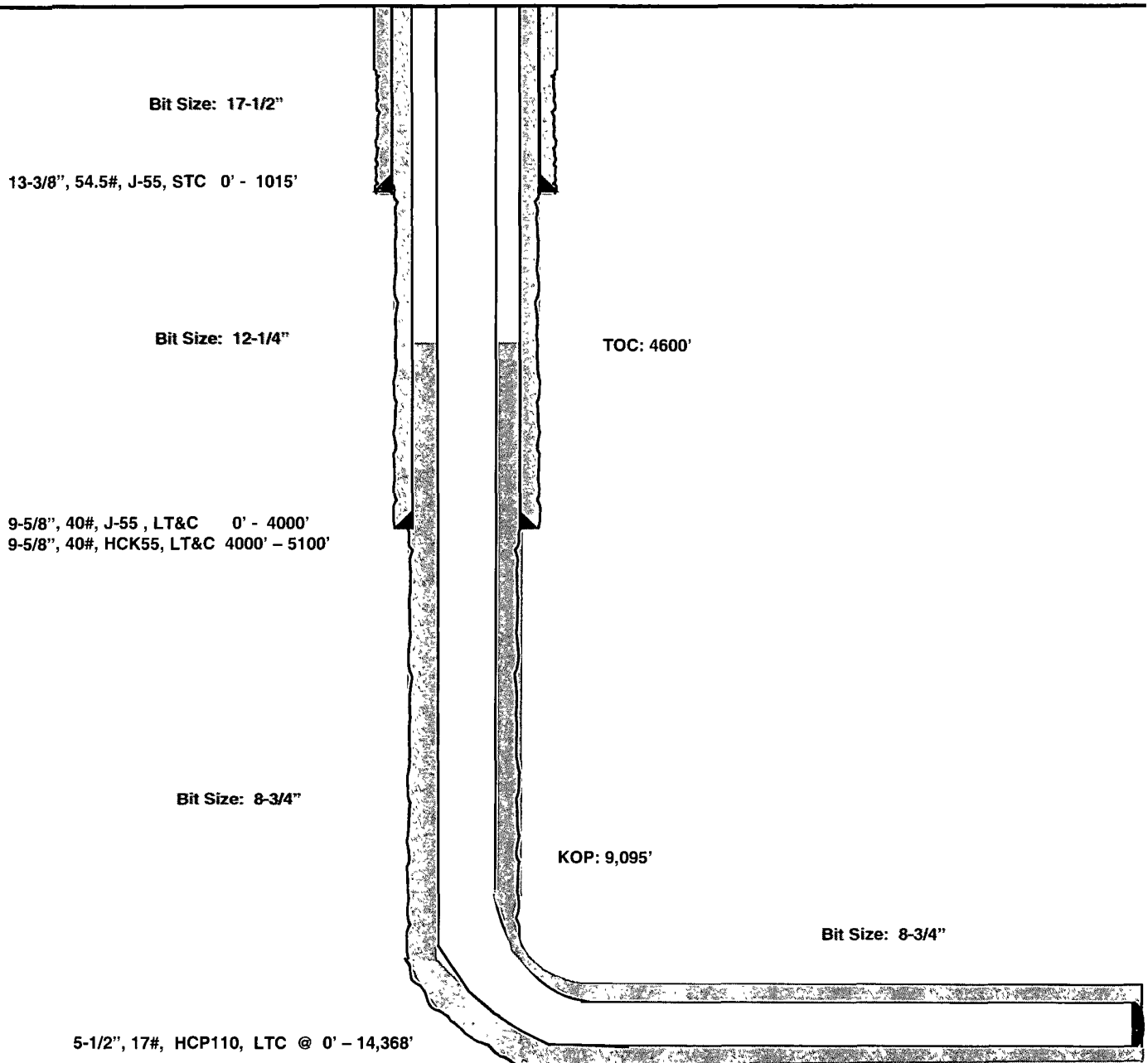
Conditions of Approval (if any):

AUG 01 2012

Brown Bear 36 State #2H
Red Hills
Lea County, New Mexico
Proposed Wellbore
REVISED 7/26/12
API: 30-025-

220' FSL
675' FWL
Section 36
T-25-S, R-33-E

KB: 3,349'
GL: 3,319'



Lateral: 14,368' MD, 9,554' TVD

BH Location: 230' FNL & 1005' FWL
Section 36
T-25-S, R-33-E

Permit Information:

Well Name: Brown Bear 36 State No. 2H

Location:

SL: 220' FSL & 675' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1005' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 – 1015'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-14,368'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1015'	575	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	1325	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,368'	250	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1
	550	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1200	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1015'	Fresh - Gel	8.6-8.8	28-34	N/c
1000' – 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' – 9,095'	Cut Brine	8.4-9.0	28-34	N/c
KOP – 14,368' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Project: Lea County, NM (Nad27)
Site: Brown Bear 36 State
Well: Brown Bear 36 State 2H
Wellbore: Wellbore #1
Plan: Plan#1 072512
Rig:

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 Gnd

WELL DETAILS: Brown Bear 36 State 2H

Ground Level	3319 00
North	3319 00
East	748213 00
Lat	32° 4' 48" N
Long	103° 31' 55" W

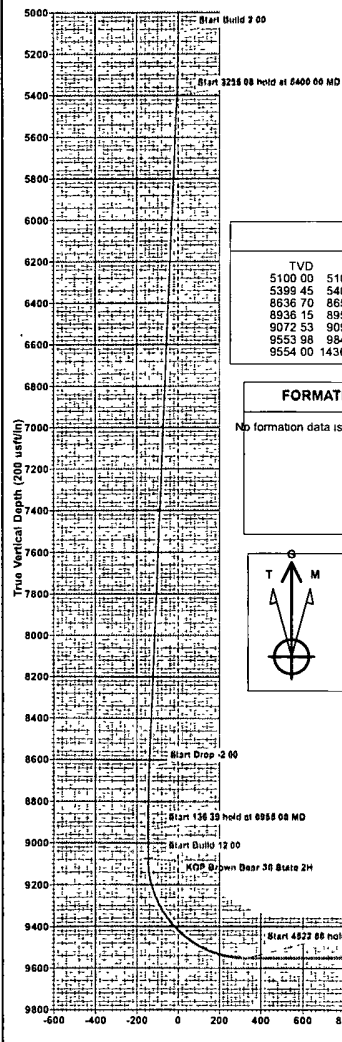
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	East	Shape
KOP Brown Bear 36 State 2H	9072 54	-167 00	332 00	393662 00	748545 00	Point
BHL Brown Bear 36 State 2H	9554 00	4833 00	294 00	398662 00	748507 00	Point

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
5100 00	0 00	0 00	5100 00	0 00	0 00	0 00	0 00	0 00
5400 00	6 00	116 70	5398 45	-7 05	14 02	2 00	116 70	-6 19
8655 08	6 00	116 70	8636 70	-159 95	317 98	0 00	0 00	-140 35
8955 08	0 00	0 00	8936 15	-167 00	332 00	2 00	180 00	-146 53
9018 93	0 00	0 00	9000 00	-167 00	332 00	0 00	0 00	-146 53
9095 46	0 00	0 00	9076 54	-167 00	332 00	0 00	0 00	-146 53
9845 46	90 00	359 56	9554 00	310 45	328 37	12 00	359 56	329 82
14368 14	90 00	359 56	9554 00	4833 00	294 00	0 00	0 00	4641 93

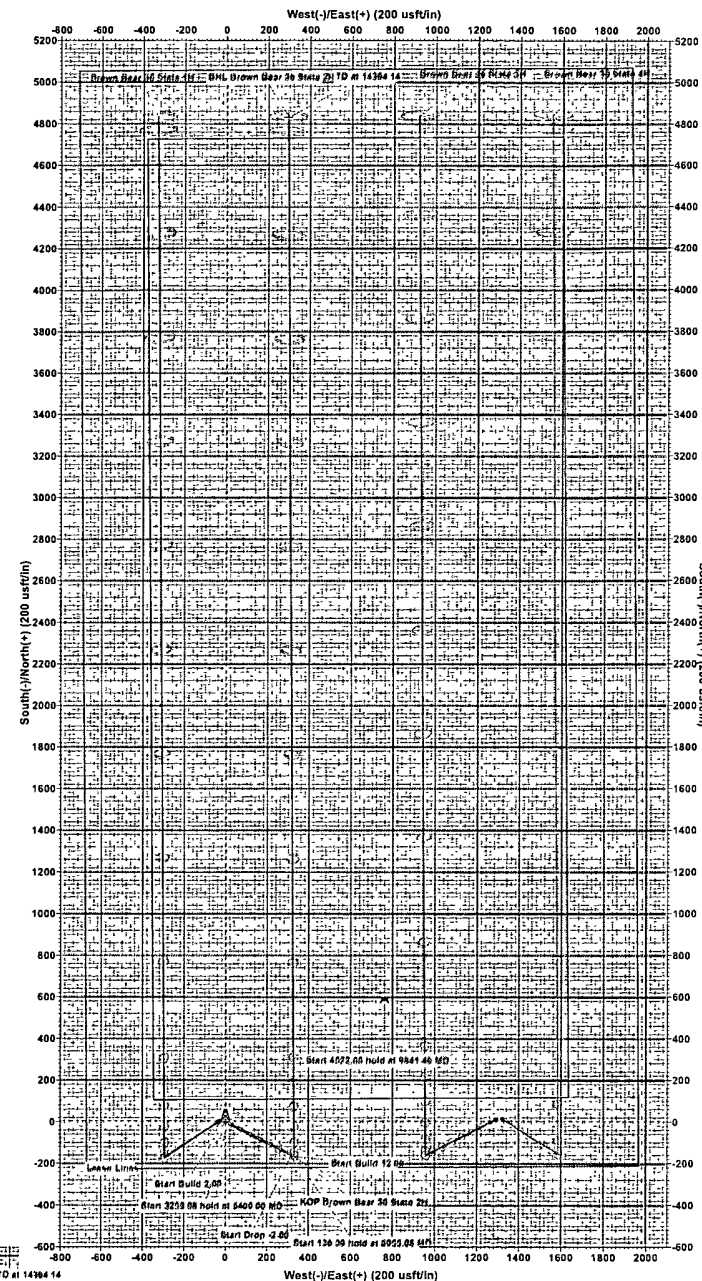
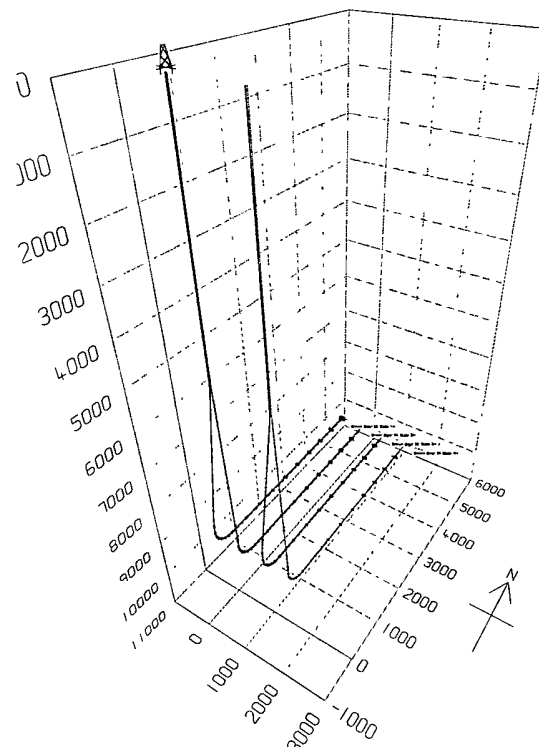
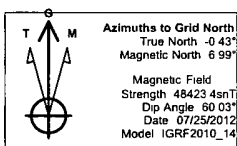
BHL Brown Bear 36 State 2H

**ANNOTATIONS**

TVD	MD	Annotation
5100 00	5100 00	Start Build 2.00
5399 45	5400 00	Start 3255.08 hold at 5400 MD
8636 70	8655 08	Start Drop -2.00
8936 15	8955 08	Start 136.39 hold at 8955 MD
9072 53	9091 46	Start Build 12.00
9553 98	9841 46	Start 4522.68 hold at 9841 MD
9554 00	14368 14	TD at 14368.14

FORMATION TOP DETAILS

No formation data is available



EOG Resources

Lea County, NM (Nad27)
Brown Bear 36 State
Brown Bear 36 State 2H
Wellbore #1

Plan: Plan#1 072512

EOG Resources

26 July, 2012



PHOENIX
TECHNOLOGY SERVICES

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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		Brown Bear 36 State			
Site Position:		Northing:		393,829.00 usft	
From: Map		Easting:		748,183.00 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
0.00 usft				Latitude: 32° 4' 48.7838 N	
				Longitude: 103° 31' 55.3525 W	
				Grid Convergence: 0.43 °	

Well:		Brown Bear 36 State 2H				
Well Position	+N/-S	0.00 usft	Northing:	393,829.00 usft	Latitude:	32° 4' 48.7816 N
	+E/-W	0.00 usft	Easting:	748,213.00 usft	Longitude:	103° 31' 55.0038 W
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,319.00 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	07/25/12	7.42	60.03	48,423

Design	Plan#1 072512			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0 00	0.00	0.00	3.48

Survey Tool Program		Date 07/26/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	14,364.14	Plan#1 072512 (Wellbore #1)	MWD	MWD - Standard

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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	-3,349.00	0.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
100.00	0.00	0.00	-3,249.00	100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
200.00	0.00	0.00	-3,149.00	200.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
300.00	0.00	0.00	-3,049.00	300.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
400.00	0.00	0.00	-2,949.00	400.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
500.00	0.00	0.00	-2,849.00	500.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
600.00	0.00	0.00	-2,749.00	600.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
700.00	0.00	0.00	-2,649.00	700.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
800.00	0.00	0.00	-2,549.00	800.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
900.00	0.00	0.00	-2,449.00	900.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,000.00	0.00	0.00	-2,349.00	1,000.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,100.00	0.00	0.00	-2,249.00	1,100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,200.00	0.00	0.00	-2,149.00	1,200.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,300.00	0.00	0.00	-2,049.00	1,300.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,400.00	0.00	0.00	-1,949.00	1,400.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,500.00	0.00	0.00	-1,849.00	1,500.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,600.00	0.00	0.00	-1,749.00	1,600.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,700.00	0.00	0.00	-1,649.00	1,700.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,800.00	0.00	0.00	-1,549.00	1,800.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
1,900.00	0.00	0.00	-1,449.00	1,900.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,000.00	0.00	0.00	-1,349.00	2,000.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,100.00	0.00	0.00	-1,249.00	2,100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,200.00	0.00	0.00	-1,149.00	2,200.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,300.00	0.00	0.00	-1,049.00	2,300.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,400.00	0.00	0.00	-949.00	2,400.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,500.00	0.00	0.00	-849.00	2,500.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	
2,600.00	0.00	0.00	-749.00	2,600.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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	-649.00	2,700.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
2,800.00	0.00	0.00	-549.00	2,800.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
2,900.00	0.00	0.00	-449.00	2,900.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,000.00	0.00	0.00	-349.00	3,000.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,100.00	0.00	0.00	-249.00	3,100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,200.00	0.00	0.00	-149.00	3,200.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,300.00	0.00	0.00	-49.00	3,300.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,400.00	0.00	0.00	51.00	3,400.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,500.00	0.00	0.00	151.00	3,500.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,600.00	0.00	0.00	251.00	3,600.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,700.00	0.00	0.00	351.00	3,700.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,800.00	0.00	0.00	451.00	3,800.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
3,900.00	0.00	0.00	551.00	3,900.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,000.00	0.00	0.00	651.00	4,000.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,100.00	0.00	0.00	751.00	4,100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,200.00	0.00	0.00	851.00	4,200.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,300.00	0.00	0.00	951.00	4,300.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,400.00	0.00	0.00	1,051.00	4,400.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,500.00	0.00	0.00	1,151.00	4,500.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,600.00	0.00	0.00	1,251.00	4,600.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,700.00	0.00	0.00	1,351.00	4,700.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,800.00	0.00	0.00	1,451.00	4,800.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
4,900.00	0.00	0.00	1,551.00	4,900.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
5,000.00	0.00	0.00	1,651.00	5,000.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
5,100.00	0.00	0.00	1,751.00	5,100.00	0.00	0.00	0.00	0.00	393,829.00	748,213.00		
Start Build 2.00												
5,200.00	2.00	116.70	1,850.98	5,199.98	-0.78	1.56	-0.69	2.00	393,828.22	748,214.56		

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349 00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349 00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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)	
5,300.00	4.00	116.70	1,950.84	5,299.84	-3.14	6.23	-2.75	2.00	393,825.86	748,219.23	
5,400.00	6.00	116.70	2,050.45	5,399.45	-7.05	14.02	-6.19	2.00	393,821.95	748,227.02	
Start 3255.08 hold at 5400.00 MD											
5,500.00	6.00	116.70	2,149.90	5,498.90	-11.75	23.36	-10.31	0.00	393,817.25	748,236.36	
5,600.00	6.00	116.70	2,249.36	5,598.36	-16.45	32.70	-14.43	0.00	393,812.55	748,245.70	
5,700.00	6.00	116.70	2,348.81	5,697.81	-21.14	42.03	-18.55	0.00	393,807.86	748,255.03	
5,800.00	6.00	116.70	2,448.26	5,797.26	-25.84	51.37	-22.67	0.00	393,803.16	748,264.37	
5,900.00	6.00	116.70	2,547.71	5,896.71	-30.54	60.71	-26.80	0.00	393,798.46	748,273.71	
6,000.00	6.00	116.70	2,647.17	5,996.17	-35.24	70.05	-30.92	0.00	393,793.76	748,283.05	
6,100.00	6.00	116.70	2,746.62	6,095.62	-39.93	79.39	-35.04	0.00	393,789.07	748,292.39	
6,200.00	6.00	116.70	2,846.07	6,195.07	-44.63	88.72	-39.16	0.00	393,784.37	748,301.72	
6,300.00	6.00	116.70	2,945.52	6,294.52	-49.33	98.06	-43.28	0.00	393,779.67	748,311.06	
6,400.00	6.00	116.70	3,044.97	6,393.97	-54.02	107.40	-47.40	0.00	393,774.98	748,320.40	
6,500.00	6.00	116.70	3,144.43	6,493.43	-58.72	116.74	-51.52	0.00	393,770.28	748,329.74	
6,600.00	6.00	116.70	3,243.88	6,592.88	-63.42	126.08	-55.65	0.00	393,765.58	748,339.08	
6,700.00	6.00	116.70	3,343.33	6,692.33	-68.12	135.41	-59.77	0.00	393,760.88	748,348.41	
6,800.00	6.00	116.70	3,442.78	6,791.78	-72.81	144.75	-63.89	0.00	393,756.19	748,357.75	
6,900.00	6.00	116.70	3,542.23	6,891.23	-77.51	154.09	-68.01	0.00	393,751.49	748,367.09	
7,000.00	6.00	116.70	3,641.69	6,990.69	-82.21	163.43	-72.13	0.00	393,746.79	748,376.43	
7,100.00	6.00	116.70	3,741.14	7,090.14	-86.90	172.77	-76.25	0.00	393,742.10	748,385.77	
7,200.00	6.00	116.70	3,840.59	7,189.59	-91.60	182.10	-80.37	0.00	393,737.40	748,395.10	
7,300.00	6.00	116.70	3,940.04	7,289.04	-96.30	191.44	-84.50	0.00	393,732.70	748,404.44	
7,400.00	6.00	116.70	4,039.50	7,388.50	-101.00	200.78	-88.62	0.00	393,728.00	748,413.78	
7,500.00	6.00	116.70	4,138.95	7,487.95	-105.69	210.12	-92.74	0.00	393,723.31	748,423.12	
7,600.00	6.00	116.70	4,238.40	7,587.40	-110.39	219.46	-96.86	0.00	393,718.61	748,432.46	
7,700.00	6.00	116.70	4,337.85	7,686.85	-115.09	228.79	-100.98	0.00	393,713.91	748,441.79	
7,800.00	6.00	116.70	4,437.30	7,786.30	-119.78	238.13	-105.10	0.00	393,709.22	748,451.13	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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)	
7,900.00	6.00	116.70	4,536.76	7,885.76	-124.48	247.47	-109.22	0.00	393,704.52	748,460.47	
8,000.00	6.00	116.70	4,636.21	7,985.21	-129.18	256.81	-113.35	0.00	393,699.82	748,469.81	
8,100.00	6.00	116.70	4,735.66	8,084.66	-133.88	266.15	-117.47	0.00	393,695.12	748,479.15	
8,200.00	6.00	116.70	4,835.11	8,184.11	-138.57	275.48	-121.59	0.00	393,690.43	748,488.48	
8,300.00	6.00	116.70	4,934.57	8,283.57	-143.27	284.82	-125.71	0.00	393,685.73	748,497.82	
8,400.00	6.00	116.70	5,034.02	8,383.02	-147.97	294.16	-129.83	0.00	393,681.03	748,507.16	
8,500.00	6.00	116.70	5,133.47	8,482.47	-152.66	303.50	-133.95	0.00	393,676.34	748,516.50	
8,600.00	6.00	116.70	5,232.92	8,581.92	-157.36	312.84	-138.08	0.00	393,671.64	748,525.84	
8,655.08	6.00	116.70	5,287.70	8,636.70	-159.95	317.98	-140.35	0.00	393,669.05	748,530.98	
Start Drop -2.00											
8,700.00	5.10	116.70	5,332.41	8,681.41	-161.90	321.86	-142.06	2.00	393,667.10	748,534.86	
8,800.00	3.10	116.70	5,432.15	8,781.15	-165.11	328.25	-144.88	2.00	393,663.89	748,541.25	
8,900.00	1.10	116.70	5,532.08	8,881.08	-166.76	331.53	-146.32	2.00	393,662.24	748,544.53	
8,955.08	0.00	0.00	5,587.15	8,936.15	-167.00	332.00	-146.53	2.00	393,662.00	748,545.00	
Start 136.39 hold at 8955.08 MD											
9,000.00	0.00	0.00	5,632.07	8,981.07	-167.00	332.00	-146.53	0.00	393,662.00	748,545.00	
9,018.93	0.00	0.00	5,651.00	9,000.00	-167.00	332.00	-146.53	0.00	393,662.00	748,545.00	
9,091.46	0.00	0.00	5,723.53	9,072.53	-167.00	332.00	-146.53	0.00	393,662.00	748,545.00	
Start Build 12.00											
9,100.00	1.02	359.56	5,732.07	9,081.07	-166.92	332.00	-146.46	12.00	393,662.08	748,545.00	
9,200.00	13.02	359.56	5,831.14	9,180.14	-154.72	331.91	-134.28	12.00	393,674.28	748,544.91	
9,300.00	25.02	359.56	5,925.51	9,274.51	-122.18	331.66	-101.82	12.00	393,706.82	748,544.66	
9,400.00	37.02	359.56	6,011.04	9,360.04	-70.74	331.27	-50.49	12.00	393,758.26	748,544.27	
9,500.00	49.02	359.56	6,084.02	9,433.02	-2.63	330.75	17.46	12.00	393,826.37	748,543.75	
9,600.00	61.02	359.56	6,141.23	9,490.23	79.16	330.13	99.06	12.00	393,908.16	748,543.13	
9,700.00	73.02	359.56	6,180.20	9,529.20	171.05	329.43	190.74	12.00	394,000.05	748,542.43	
9,800.00	85.02	359.56	6,199.20	9,548.20	269.04	328.69	288.50	12.00	394,098.04	748,541.69	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349 00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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)	
9,841.46	90.00	359.56	6,201.00	9,550.00	310.45	328.37	329.81	12.00	394,139.45	748,541.37	
Start 4522.68 hold at 9841.46 MD											
9,900.00	90.00	359.56	6,201.00	9,550.00	368.99	327.93	388.22	0.00	394,197.99	748,540.93	
10,000.00	90.00	359.56	6,201.00	9,550.00	468.98	327.17	487.98	0.00	394,297.98	748,540.17	
10,100.00	90.00	359.56	6,201.00	9,550.00	568.98	326.41	587.75	0.00	394,397.98	748,539.41	
10,200.00	90.00	359.56	6,201.00	9,550.00	668.98	325.65	687.52	0.00	394,497.98	748,538.65	
10,300.00	90.00	359.56	6,201.00	9,550.00	768.97	324.89	787.28	0.00	394,597.97	748,537.89	
10,400.00	90.00	359.56	6,201.00	9,550.00	868.97	324.13	887.05	0.00	394,697.97	748,537.13	
10,500.00	90.00	359.56	6,201.00	9,550.00	968.97	323.37	986.82	0.00	394,797.97	748,536.37	
10,600.00	90.00	359.56	6,201.00	9,550.00	1,068.97	322.61	1,086.58	0.00	394,897.97	748,535.61	
10,700.00	90.00	359.56	6,201.00	9,550.00	1,168.96	321.85	1,186.35	0.00	394,997.96	748,534.85	
10,800.00	90.00	359.56	6,201.00	9,550.00	1,268.96	321.09	1,286.12	0.00	395,097.96	748,534.09	
10,900.00	90.00	359.56	6,201.00	9,550.00	1,368.96	320.33	1,385.88	0.00	395,197.96	748,533.33	
11,000.00	90.00	359.56	6,201.00	9,550.00	1,468.95	319.57	1,485.65	0.00	395,297.95	748,532.57	
11,100.00	90.00	359.56	6,201.00	9,550.00	1,568.95	318.81	1,585.41	0.00	395,397.95	748,531.81	
11,200.00	90.00	359.56	6,201.00	9,550.00	1,668.95	318.05	1,685.18	0.00	395,497.95	748,531.05	
11,300.00	90.00	359.56	6,201.00	9,550.00	1,768.95	317.29	1,784.95	0.00	395,597.95	748,530.29	
11,400.00	90.00	359.56	6,201.00	9,550.00	1,868.94	316.53	1,884.71	0.00	395,697.94	748,529.53	
11,500.00	90.00	359.56	6,201.00	9,550.00	1,968.94	315.77	1,984.48	0.00	395,797.94	748,528.77	
11,600.00	90.00	359.56	6,201.00	9,550.00	2,068.94	315.01	2,084.25	0.00	395,897.94	748,528.01	
11,700.00	90.00	359.56	6,201.00	9,550.00	2,168.93	314.25	2,184.01	0.00	395,997.93	748,527.25	
11,800.00	90.00	359.56	6,201.00	9,550.00	2,268.93	313.49	2,283.78	0.00	396,097.93	748,526.49	
11,900.00	90.00	359.56	6,201.00	9,550.00	2,368.93	312.73	2,383.55	0.00	396,197.93	748,525.73	
12,000.00	90.00	359.56	6,201.00	9,550.00	2,468.93	311.97	2,483.31	0.00	396,297.93	748,524.97	
12,100.00	90.00	359.56	6,201.00	9,550.00	2,568.92	311.21	2,583.08	0.00	396,397.92	748,524.21	
12,200.00	90.00	359.56	6,201.00	9,550.00	2,668.92	310.45	2,682.85	0.00	396,497.92	748,523.45	
12,300.00	90.00	359.56	6,201.00	9,550.00	2,768.92	309.69	2,782.61	0.00	396,597.92	748,522.69	

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	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)	
12,400.00	90.00	359.56	6,201.00	9,550.00	2,868.91	308.93	2,882.38	0.00	396,697.91	748,521.93	
12,500.00	90.00	359.56	6,201.00	9,550.00	2,968.91	308.17	2,982.15	0.00	396,797.91	748,521.17	
12,600.00	90.00	359.56	6,201.00	9,550.00	3,068.91	307.41	3,081.91	0.00	396,897.91	748,520.41	
12,700.00	90.00	359.56	6,201.00	9,550.00	3,168.91	306.65	3,181.68	0.00	396,997.91	748,519.65	
12,800.00	90.00	359.56	6,201.00	9,550.00	3,268.90	305.89	3,281.44	0.00	397,097.90	748,518.89	
12,900.00	90.00	359.56	6,201.00	9,550.00	3,368.90	305.13	3,381.21	0.00	397,197.90	748,518.13	
13,000.00	90.00	359.56	6,201.00	9,550.00	3,468.90	304.37	3,480.98	0.00	397,297.90	748,517.37	
13,100.00	90.00	359.56	6,201.00	9,550.00	3,568.89	303.61	3,580.74	0.00	397,397.89	748,516.61	
13,200.00	90.00	359.56	6,201.00	9,550.00	3,668.89	302.85	3,680.51	0.00	397,497.89	748,515.85	
13,300.00	90.00	359.56	6,201.00	9,550.00	3,768.89	302.09	3,780.28	0.00	397,597.89	748,515.09	
13,400.00	90.00	359.56	6,201.00	9,550.00	3,868.89	301.33	3,880.04	0.00	397,697.89	748,514.33	
13,500.00	90.00	359.56	6,201.00	9,550.00	3,968.88	300.57	3,979.81	0.00	397,797.88	748,513.57	
13,600.00	90.00	359.56	6,201.00	9,550.00	4,068.88	299.81	4,079.58	0.00	397,897.88	748,512.81	
13,700.00	90.00	359.56	6,201.00	9,550.00	4,168.88	299.05	4,179.34	0.00	397,997.88	748,512.05	
13,800.00	90.00	359.56	6,201.00	9,550.00	4,268.87	298.29	4,279.11	0.00	398,097.87	748,511.29	
13,900.00	90.00	359.56	6,201.00	9,550.00	4,368.87	297.53	4,378.88	0.00	398,197.87	748,510.53	
14,000.00	90.00	359.56	6,201.00	9,550.00	4,468.87	296.77	4,478.64	0.00	398,297.87	748,509.77	
14,100.00	90.00	359.56	6,201.00	9,550.00	4,568.87	296.01	4,578.41	0.00	398,397.87	748,509.01	
14,200.00	90.00	359.56	6,201.00	9,550.00	4,668.86	295.25	4,678.17	0.00	398,497.86	748,508.25	
14,300.00	90.00	359.56	6,201.00	9,550.00	4,768.86	294.49	4,777.94	0.00	398,597.86	748,507.49	
14,364.14	90.00	359.56	6,201.00	9,550.00	4,833.00	294.00	4,841.93	0.00	398,662.00	748,507.00	
TD at 14364.14											

Phoenix Technology Services
EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Brown Bear 36 State 2H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Site:	Brown Bear 36 State	MD Reference:	WELL @ 3349.00usft (Original Well Elev + 30' KB)
Well:	Brown Bear 36 State 2H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#1 072512	Database:	GCR DB v5000

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
5,100.00	5,100.00	0.00	0.00	Start Build 2 00
5,400.00	5,399.45	-7.05	14.02	Start 3255.08 hold at 5400.00 MD
8,655.08	8,636.70	-159.95	317.98	Start Drop -2 00
8,955.08	8,936.15	-167.00	332.00	Start 136.39 hold at 8955.08 MD
9,091.46	9,072.53	-167.00	332.00	Start Build 12.00
9,841.46	9,550.00	310.45	328.37	Start 4522.68 hold at 9841.46 MD
14,364.14	9,550.00	4,833.00	294.00	TD at 14364.14

Checked By: _____	Approved By: _____	Date: _____
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