

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
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 reverse side.

5. Lease Serial No.
NMNM0405444A

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
ALDABRA 26 FED COM 8H

9. API Well No.
30-015-38624-00-X1

10. Field and Pool, or Exploratory
INGLE WELLS ; B.S. (33740)

11. County or Parish, and State
EDDY COUNTY, NM

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator Contact: ~ TRINA C COUCH
DEVON ENERGY PRODUCTION CO EMail: trina.couch@dev.com

3a. Address 333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 73102
3b. Phone No. (include area code)
Ph: 405-228-7203

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 26 T23S R31E SESE 350FSL 445FEL

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 site is ready for final inspection.)

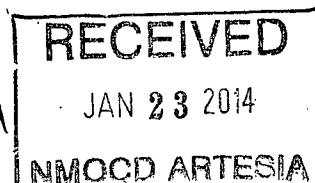
Devon Energy Production Company, L.P. respectfully requests to RETRACT the prior sundry on the Aldabra 28 Fed Com 8H (EC Transition # 221416/ Serial Number: 770-61106) requesting a BHL change.

Devon Energy Production Company, L.P would like to request the following:

* Due to the severe fluid losses experienced on the Aldabra 25 Fed 3H, (API #: 30-015-38614), Devon respectfully requests to change the casing design on the Aldabra 26 Fed 8H (API #: 30-015-38632) from a 3 string design to a 4 string design. A updated drilling plan, with the casing design, cementing plan and BOP details are attached.

* Change BHL

Accepted for record
NMOCD 10/25/2014



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

Electronic Submission #222449 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMS for processing by WESLEY INGRAM on 10/17/2013 (14WWI0237SE)

Name (Printed/Typed) TRINA C COUCH

Title REGULATORY ASSOCIATE

Signature (Electronic Submission)

Date 10/09/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By WESLEY INGRAM

Title PETROLEUM ENGINEER

Date 01/17/2014

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

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.

Additional data for EC transaction #222449 that would not fit on the form

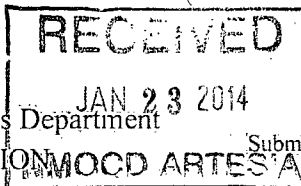
32. Additional remarks, continued

From: 2600 FSL & 400 FEL of Sec 23S-31E
To: 330 FNL & 660 FEL of Sec 26-23S-31E

Attachments:
Revised Plat
Drilling Plan
Directional Survey
BOP Schematic

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1253 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6175 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-38624	² Pool Code 33740	³ Pool Name Ingle Wells, B.S.
⁴ Property Code 38559	⁵ Property Name ALDABRA 26 FED COM	
⁶ Well Number 8H	⁷ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	
⁸ OGRID No. 6137	⁹ Elevation 3470.6	

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	26	23 S	31 E		350	SOUTH	445	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

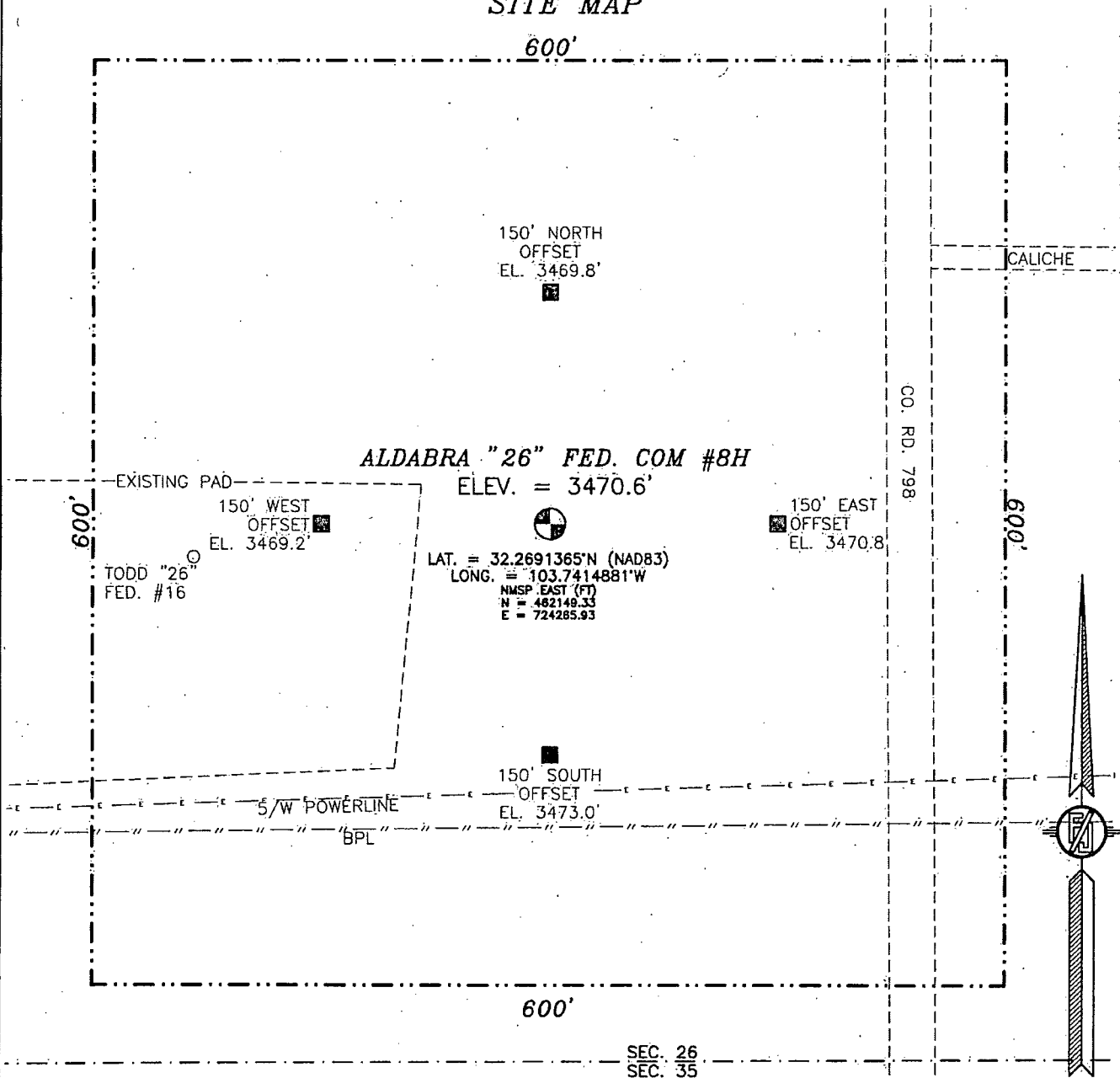
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	26	23 S	31 E		330	NORTH	660	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
160			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

N89°46'53"E 2639.39 FT NW CORNER SEC. 26 LAT. = 32.2827139°N LONG. = 103.7571232°W NMSP EAST (FT) N = 467062.36 E = 719406.80 N/4 CORNER SEC. 26 LAT. = 32.2827023°N LONG. = 103.7485828°W NMSP EAST (FT) N = 467072.42 E = 722046.18 NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED IN NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. W/4 CORNER SEC. 26 LAT. = 32.2754504°N LONG. = 103.7571220°W NMSP EAST (FT) N = 464419.95 E = 719421.39 SW CORNER SEC. 26 LAT. = 32.2681897°N LONG. = 103.7571227°W NMSP EAST (FT) N = 461778.57 E = 719435.33 S89°44'28"W 2638.20 FT		N89°46'44"E 2639.09 FT BOTTOM OF HOLE LAT. = 32.2817864°N LONG. = 103.7421790°W NMSP EAST (FT) N = 466750.06 E = 724027.03 NE CORNER SEC. 26 LAT. = 32.2826905°N LONG. = 103.7400433°W NMSP EAST (FT) N = 467082.60 E = 724685.25 E/4 CORNER SEC. 26 LAT. = 32.2754314°N LONG. = 103.7400445°W NMSP EAST (FT) N = 464441.80 E = 724699.48 SE CORNER SEC. 26 LAT. = 32.2681723°N LONG. = 103.7400492°W NMSP EAST (FT) N = 461801.01 E = 724712.61 S00°18'09"W 2641.42 FT S00°18'09"W 2640.82 FT S00°17'05"E 2640.82 FT S89°46'17"W 2639.13 FT		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____ ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. OCTOBER 9 2013 Date of Survey 12/19/13 Signature and Seal of Professional Surveyor: Certificate Number PLS 12797 SURVEY NO: 216B
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SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR# 798 (RED RD.) GO NORTH ON
CR# 798 1.15 MILES AND LOCATION IS ON THE LEFT (WEST) 240'.

DEVON ENERGY PRODUCTION COMPANY, L.P.

ALDABRA "26" FED. COM #8H

LOCATED 350' FT. FROM THE SOUTH LINE

AND 445' FT. FROM THE EAST LINE OF

SECTION 26, TOWNSHIP 23 SOUTH,

RANGE 31 EAST, N.M.P.M.

EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 9, 2013

SURVEY NO. 216B

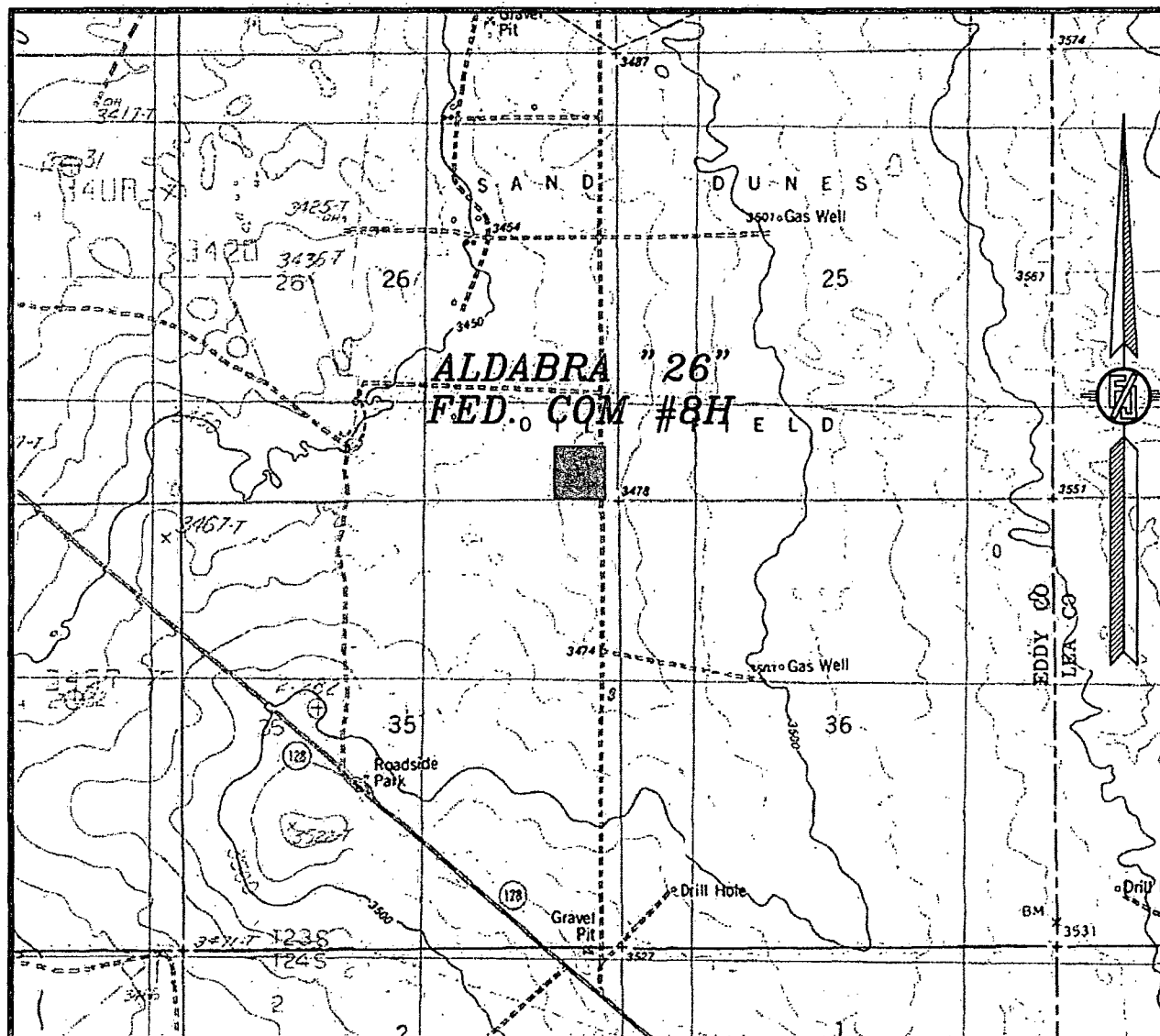
MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 887-5830

CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



CONTOUR INTERVAL:
LOS MEDANOS

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
ALDABRA "26" FED. COM #8H
LOCATED 350 FT. FROM THE SOUTH LINE
AND 445 FT. FROM THE EAST LINE OF
SECTION 26, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

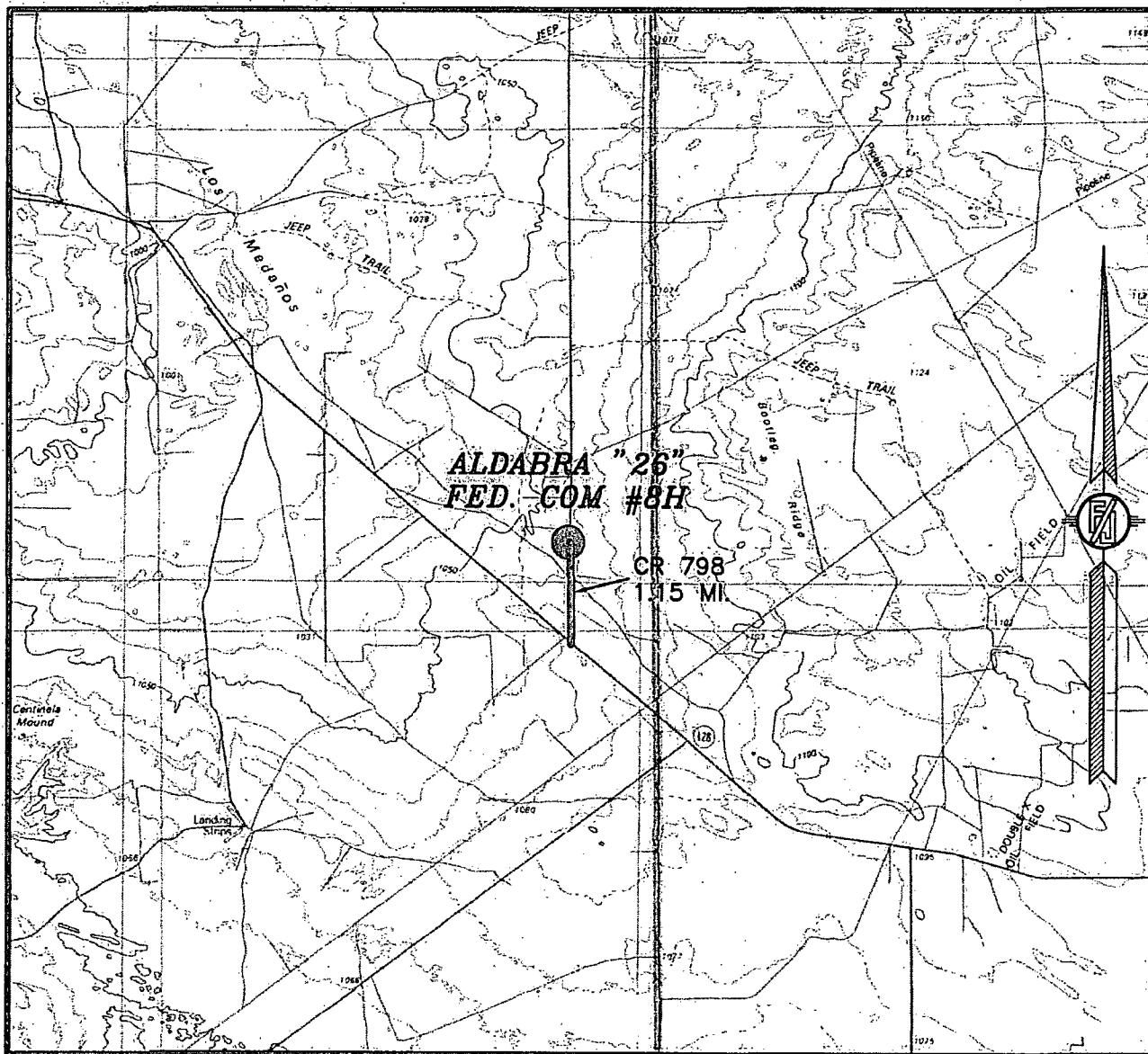
OCTOBER 9, 2013

SURVEY NO. 216B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

VICINITY MAP



NOT TO SCALE

DIRECTIONS TO LOCATION

FROM STATE HWY. 128 AND CR# 798 (RED RD.) GO NORTH ON
CR# 798 1.15 MILES AND LOCATION IS ON THE LEFT (WEST) 240'.

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EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 9, 2013

SURVEY NO. 216B

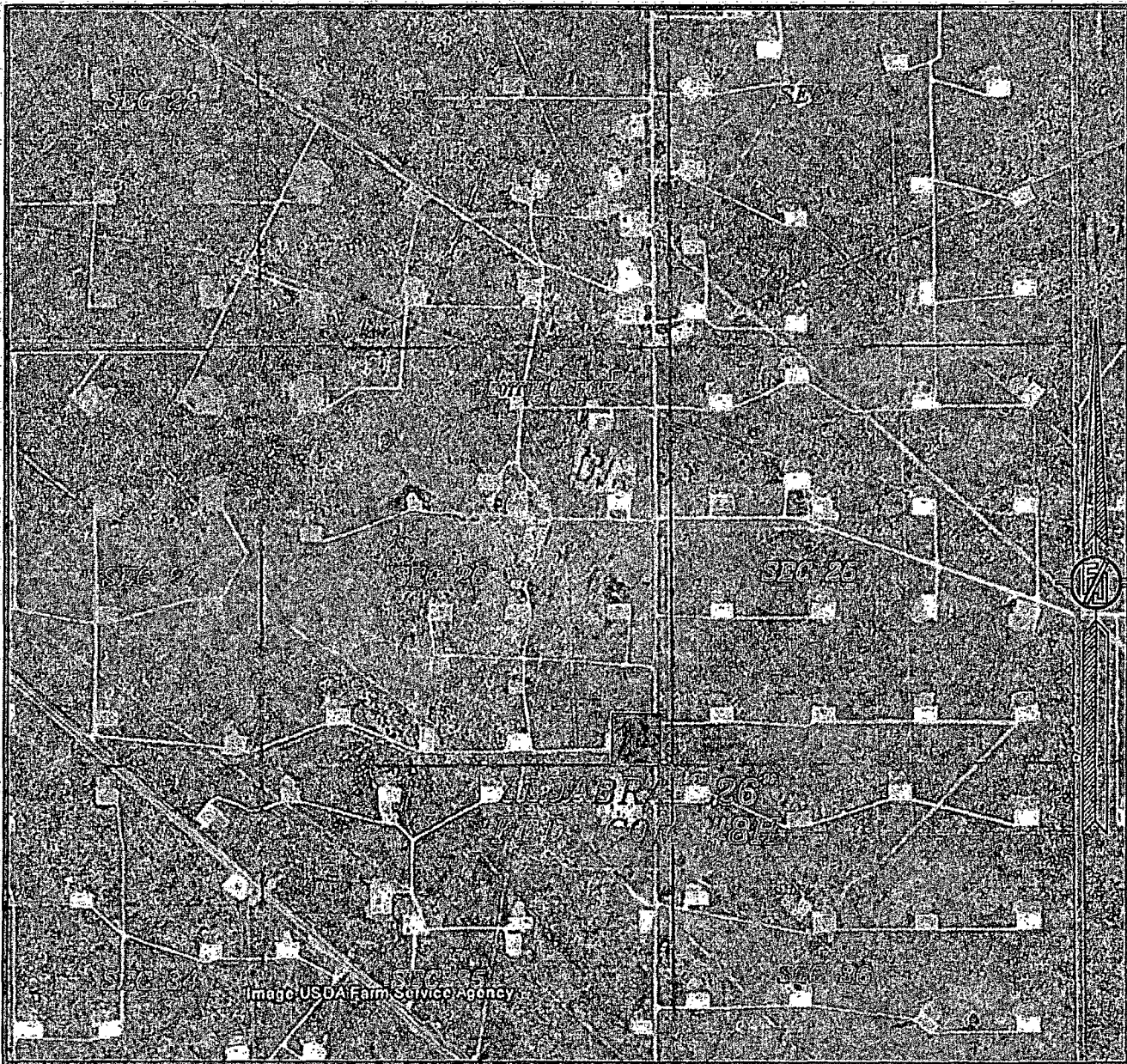
MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 887-5830

CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 23 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.
ALDABRA "26" FED. COM #8H
LOCATED 350 FT. FROM THE SOUTH LINE
AND 445 FT. FROM THE EAST LINE OF
SECTION 26, TOWNSHIP 23 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

OCTOBER 9, 2013

SURVEY NO. 216B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

ALDABRA 26 FED 8H – APD DRILLING PLAN (4 String)
10.9.13 JSP

The surface fresh water sands will be protected by setting 20" casing at 880' and circulating cement back to surface. The salt interval will be isolated by setting 13-3/8" casing at 4,425' and the Delaware intervals will be isolated by setting 9-5/8" casing at 8,350' and circulating cement to surface. 5-1/2" production casing to total depth and circulating cement to surface. All casing is new and API approved.

Casing Program

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
26"	0 - 880	20"	0 - 880	94#	BTC	J-55
17-1/2"	880 - 4425	13-3/8"	0 - 4425	68#	BTC	HCL-80
12-1/4"	4425 - 8,350	9-5/8"	0 - 8,350	43.5#	LTC	HCP-110
8-1/2"	8,350 - 15,979	5-1/2"	0 - 15,979	17#	BTC	HCP-110

MAX TVD: 11,620 FT

Design Factors

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
20"	1.18	4.8	17
13-3/8"	1.17	1.5	3.8
9-5/8"	1.13	2.8	3.0
5-1/2"	1.58	2.0	6.8

Mud Program

Depth	Mud Wt.	Visc.	Fluid Loss	Type System
0 - 880	8.4 - 9.0	30 - 34	N/C	FW
880 - 4,425	9.8 - 10.0	28 - 32	N/C	Brine
4,425 - 8,350	8.4 - 8.6	28 - 32	N/C	FW
8,350 - 15,979	8.6 - 9.0	28 - 32	N/C	FW

Pressure Control Equipment

The BOP system used to drill the 17-1/2" hole will consist of a **20" 2M Annular preventer**. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **2M system** prior to drilling out the casing shoe.

The BOP system used to drill the 12 1/4" and 8 3/4" hole intervals will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **3M system** prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 2 as a **3M system** prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked as per Onshore Order 2. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at **3,000 psi WP**.

Devon requests a variance to use a flexible line with flanged ends between the BOP and the choke manifold (choke line). The line will be kept as straight as possible with minimal turns.

Aldabra 26 Fed 8H

Cementing Program (cement volumes based on at least Surface 100% excess, Intermediate #1 75% excess, Intermediate #2 50% excess, Production Casing is 25% excess)

20" Surface

Lead: 845 sacks Class C Cement + 0.125 lbs/sack Poly-E-Flake + 4% bwoc Bentonite + 70.8% Fresh Water, 13.5 ppg
Yield: 1.75 cf/sk
Water Requirement: 9.07 gal/sk
Mix Water Volume: 183 bbls
TOC @ surface

Tail: 970 sacks 100% Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg
Yield: 1.33 cf/sk
Water Requirement: 6.32 gal/sk
Mix Water Volume: 146 bbls

13-3/8" 1st Intermediate

Lead: 2165 sacks (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.8 % Fresh Water, 12.9 ppg
Yield: 1.85 cf/sk
Water Requirement: 9.81 gal/sk
Mix Water Volume: 506 bbls
TOC @ surface
Tail: 945 sacks 100% Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg
Yield: 1.33 cf/sk
Water Requirement: 6.32 gal/sk
Mix Water Volume: 143 bbls

9-5/8" 2nd Intermediate

1st Stage

Lead: 490 sacks (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water, 11.9 ppg
Yield: 2.26 ft3/sk
Water Requirement: 12.89 gal/sk
Mix Water Volume: 56 bbls
TOC @ 7000ft

Tail: 205 sacks (50:50) Class H Cement: Poz (Fly Ash) + 2% BWOC Bentonite + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 62.4% Fresh Water, 14.4 ppg
Yield: 1.24 cf/sk
Water Requirement: 5.75 gal/sk
Mix Water Volume: 28 bbls
DV Tool @ 7000ft

2nd Stage

Lead: 435 sacks (50:50) Class C Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 1 lb/sk of Calseal + 0.5lb/sk D-Air 5000 + 76.2% Fresh Water, 11.9 ppg
Yield: 2.25 cf/sk
Water Requirement: 12.80 gal/sk
Mix Water Volume: 133 bbls
TOC @ 4426ft

Tail: 190 sacks (50:50) Class H Cement: Poz (Fly Ash) + 2% BWOC Bentonite + 0.2% BWOC Halad-9 + 0.2% BWOC HR-800 + 62.4% Fresh Water, 14.4 ppg
Yield: 1.33 cf/sk
Water Requirement: 5.75 gal/sk
Mix Water Volume: 26 bbls
DV Tool @ 4426ft

3rd Stage

Lead: 725 sacks (65:35) Class C Cement: Poz (Fly Ash): 6% BWOC Bentonite + 5% BWOW Sodium Chloride + 0.125 lbs/sack Poly-E-Flake + 70.8 % Fresh Water, 12.9 ppg
Yield: 2.25 cf/sk
Water Requirement: 9.81 gal/sk
Mix Water Volume: 170 bbls
TOC @ surface

Tail: 135 sacks 100% Class C Cement + 0.125 lbs/sack Poly-E-Flake + 63.9% Fresh Water, 14.8 ppg
Yield: 1.33 cf/sk
Water Requirement: 6.32 gal/sk
Mix Water Volume: 21 bbls

5-1/2" Production Casing

Lead #1: 1040 sacks (50:50) Class H Cement: Poz (Fly Ash) + 10% BWOC Bentonite + 1 lb/sk of Kol-Seal + 0.3% BWOC HR-601 + 0.5lb/sk D-Air 5000 + 76.4% Fresh Water, 11.9 ppg
Yield: 2.26 ft³/sk
Water Requirement: 12.89 gal/sk
Mix Water Volume: 320 bbls
TOC @ surface

Lead #2: 325 sacks (65:35) Class H Cement: Poz (Fly Ash): 6% BWOC Bentonite + 0.25% BWOC HR-601 + 0.125 lbs/sack Poly-E-Flake + 73.6 % Fresh Water, 12.5 ppg
Yield: 1.96 cf/sk
Water Requirement: 10.86 gal/sk
Mix Water Volume: 84bbls
TOC @ 9082ft

Tail: 1285 sacks (50:50) Class H Cement: Poz (Fly Ash) + 1 lb/sk Sodium Chloride + 0.5% bwoc HALAD-344 + 0.4% bwoc CFR-3 + 0.1% bwoc HR-601 + 2% bwoc Bentonite + 58.8% Fresh Water, 14.5 ppg
Yield: 1.22 cf/sk
Water Requirement: 5.38gal/sk
Mix Water Volume: 165bbls

TOC for All Strings:

Surface:	0' (Surface)
Intermediate:	0' (Surface)
Production Casing:	0' (Surface)
Production Liner:	0' (Surface)

ACTUAL CEMENT VOLUMES WILL BE ADJUSTED BASED ON FLUID CALIPER AND CALIPER LOG DATA.

Project: Eddy County, NM (NAD-83)
Site: Aldabra 26 Fed
Well: 8H
Wellbore: OH
Design: Plan #1 Draft1



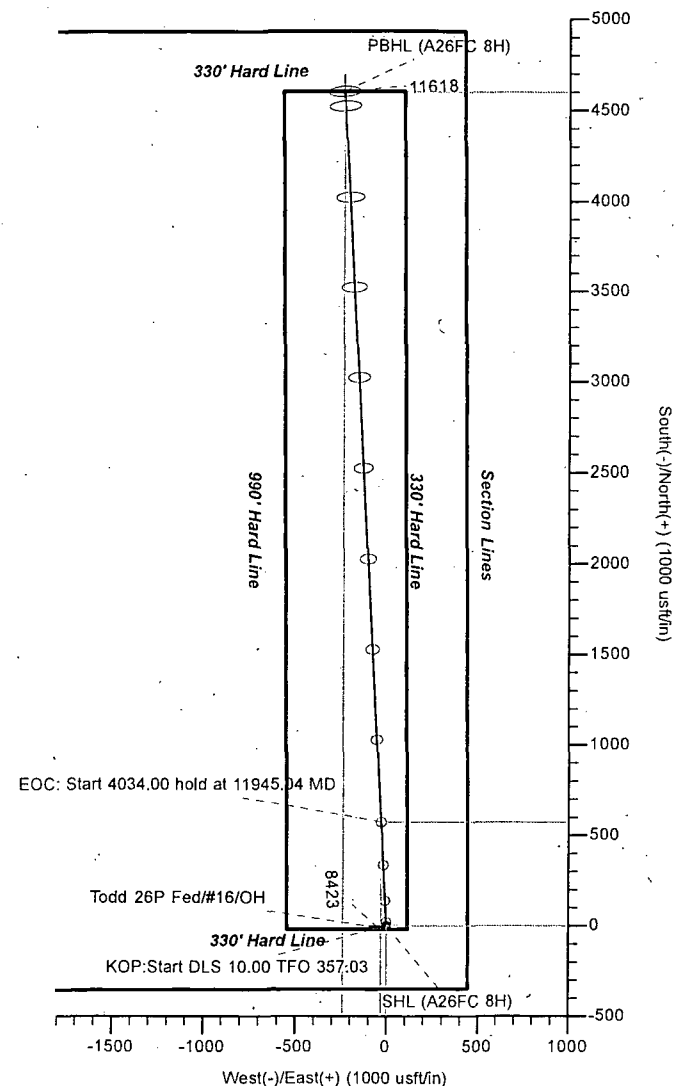
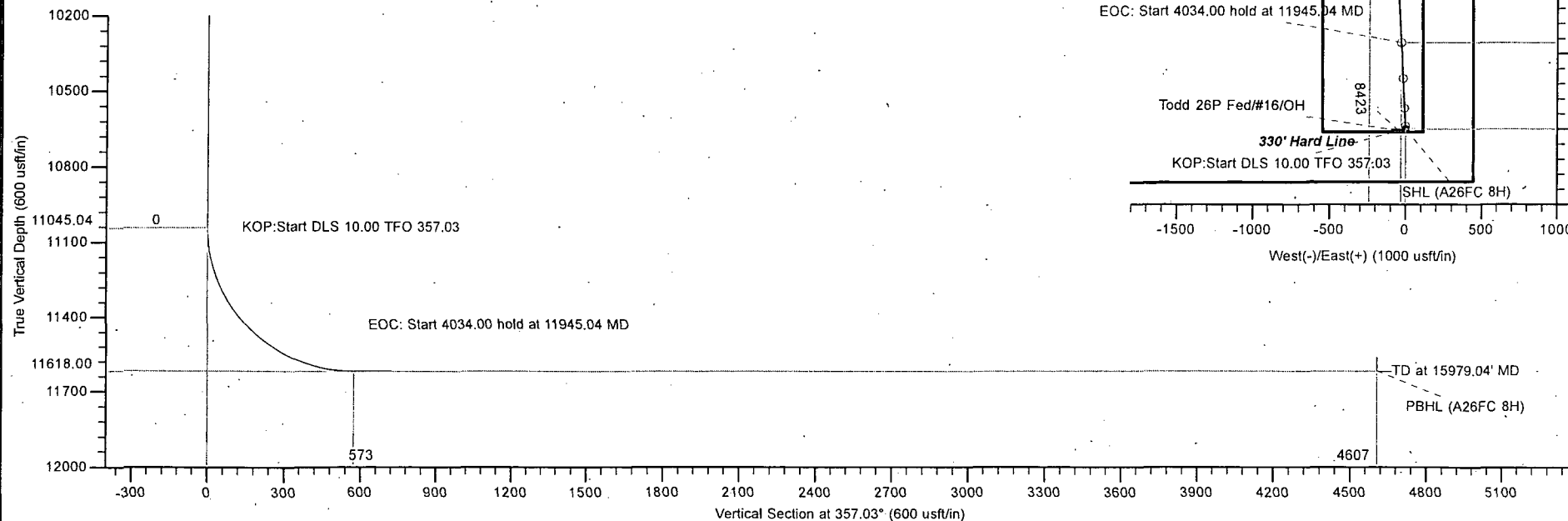
Magnetic Field
Strength: 48378.3snT
Dip Angle: 60.13°
Date: 10/08/2013
Model: BGGM2013

devon

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (A26FC 8H)	0.00	0.00	0.00	462149.31	724265.93	32° 16' 8.891 N	103° 44' 29.357 W
PBHL (A26FC 8H)	11618.00	4600.76	-238.90	466750.07	724027.03	32° 16' 54.431 N	103° 44' 31.844 W

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	11045.04	0.00	0.00	11045.04	0.00	0.00	0.00	0.00	0.00	KOP:Start DLS 10.00 TFO 357.03
3	11945.04	90.00	357.03	11618.00	572.19	-29.71	10.00	357.03	572.96	EOC: Start 4034.00 hold at 11945.04 MD
4	15979.04	90.00	357.03	11618.00	4600.76	-238.90	0.00	0.00	4606.96	TD at 15979.04' MD



LEAM DRILLING SYSTEMS LLC
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft1 (8H/OH)
Aldabra 26 Fed

Created By: Heber Claros Date: 10:39, October 08 2013

Date: _____

Approved: _____ Date: _____

DEVON ENERGY

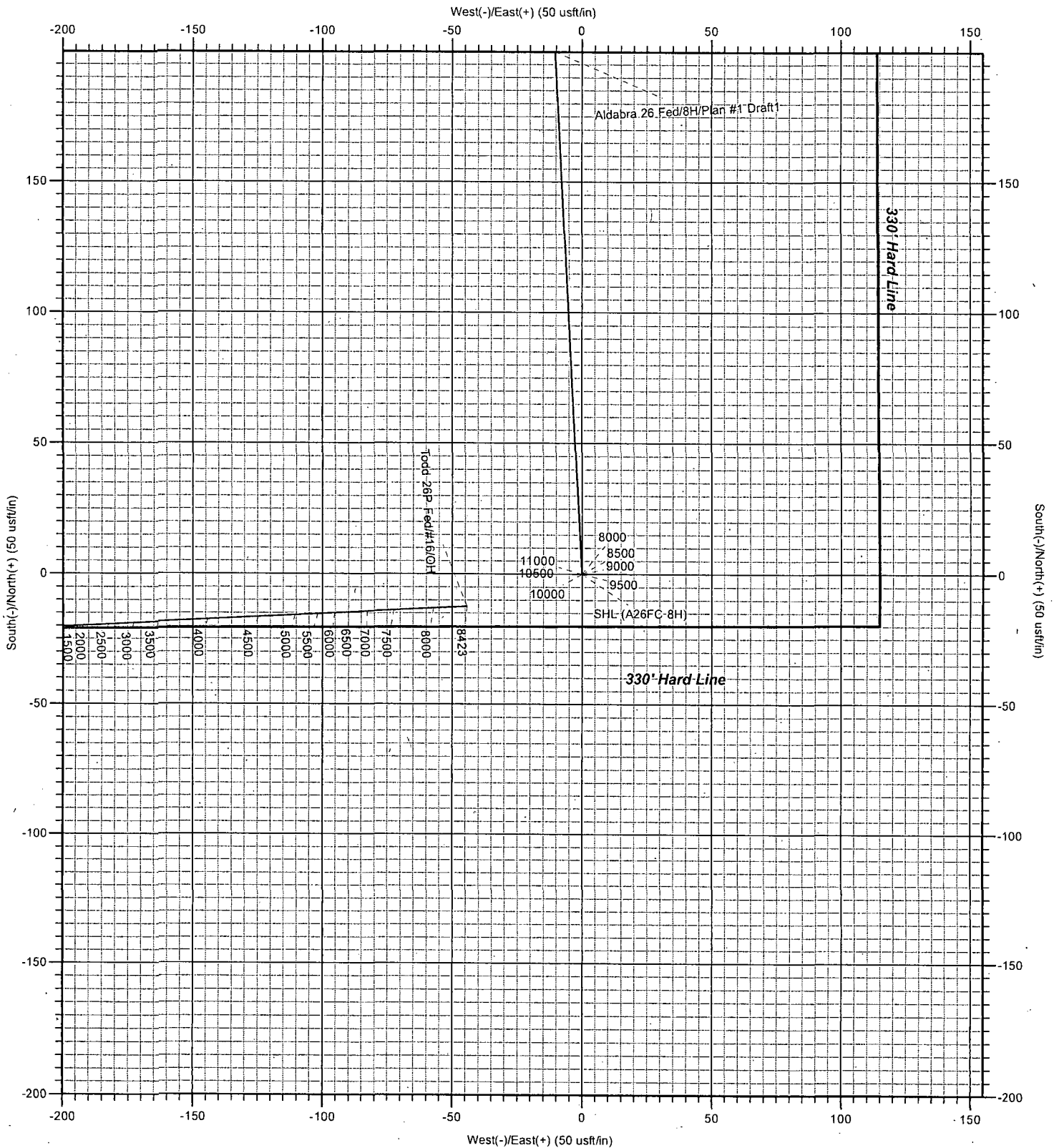
Project: Eddy County, NM (NAD-83)
Site: Aldabra 26 Fed
Well: 8H
Wellbore: OH
Design: Plan #1 Draft1



Azimuths to Grid North
True North: -0.32°
Magnetic North: 7.18°

Magnetic Field
Strength: 48378.3nT
Dip Angle: 60.13°
Date: 10/08/2013
Model: BGGM2013

devon



LEAM DRILLING SYSTEMS LLC.
2010 East Davis, Conroe, Texas 77301
Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 Draft1 (8H/OH)
Aldabra 26 Fed
Created By: Heber Claros Date: 10:42, October 08 2013
Approved: _____ Date: _____

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	3470' - KB 28' @ 3498.00usft (Cactus 105)
Project:	Eddy County, NM (NAD-83)	MD Reference:	3470' - KB 28' @ 3498.00usft (Cactus 105)
Site:	Aldabra 26 Fed	North Reference:	Grid
Well:	8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

Project:	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Aldabra 26 Fed		
Site Position:		Northing:	462,149.31 usft
From:	Lat/Long	Easting:	724,265.93 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 16' 8.891 N
		Longitude:	103° 44' 29.357 W
		Grid Convergence:	0.32 °

Well	8H					
Well Position	+N/-S	0.00 usft	Northing:	462,149.31 usft	Latitude:	32° 16' 8.891 N
	+E/-W	0.00 usft	Easting:	724,265.93 usft	Longitude:	103° 44' 29.357 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,470.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	10/08/13	7.49	60.13	48,378

Design					Plan #1 Draft1				
Audit Notes:									
Version:		Phase:		PROTOTYPE		Tie On Depth:		0.00	
Vertical Section:		Depth From (TVD)		+N/-S		+E/-W		Direction	
		(usft)		(usft)		(usft)		(°)	
		0.00		0.00		0.00		357.03	

Plan Sections:										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11,045.04	0.00	0.00	11,045.04	0.00	0.00	0.00	0.00	0.00	0.00	
11,945.04	90.00	357.03	11,618.00	572.19	-29.71	10.00	10.00	-0.33	357.03	
15,979.04	90.00	357.03	11,618.00	4,600.76	-238.90	0.00	0.00	0.00	0.00	PBHL (A26FC 8H)

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	3470 + KB 28' @ 3498.00usft (Cactus 105)
Project:	Eddy County NM (NAD-83)	MD Reference:	3470 + KB 28' @ 3498.00usft (Cactus 105)
Site:	Aldabra 26 Fed	North Reference:	Grid
Well:	8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,045.04	0.00	0.00	11,045.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 10.00 TFO 357.03									
11,050.00	0.50	357.03	11,050.00	0.02	0.00	0.02	10.00	10.00	0.00
11,100.00	5.50	357.03	11,099.92	2.63	-0.14	2.63	10.00	10.00	0.00
11,150.00	10.50	357.03	11,149.41	9.57	-0.50	9.59	10.00	10.00	0.00
11,200.00	15.50	357.03	11,198.12	20.80	-1.08	20.83	10.00	10.00	0.00
11,250.00	20.50	357.03	11,245.66	36.22	-1.88	36.27	10.00	10.00	0.00
11,300.00	25.50	357.03	11,291.67	55.72	-2.89	55.80	10.00	10.00	0.00
11,350.00	30.50	357.03	11,335.80	79.15	-4.11	79.26	10.00	10.00	0.00
11,400.00	35.50	357.03	11,377.73	106.34	-5.52	106.48	10.00	10.00	0.00
11,450.00	40.50	357.03	11,417.12	137.07	-7.12	137.25	10.00	10.00	0.00
11,500.00	45.50	357.03	11,453.67	171.11	-8.89	171.34	10.00	10.00	0.00
11,550.00	50.50	357.03	11,487.12	208.20	-10.81	208.48	10.00	10.00	0.00
11,600.00	55.50	357.03	11,517.21	248.06	-12.88	248.40	10.00	10.00	0.00
11,650.00	60.50	357.03	11,543.70	290.39	-15.08	290.79	10.00	10.00	0.00
11,700.00	65.50	357.03	11,566.39	334.87	-17.39	335.32	10.00	10.00	0.00
11,750.00	70.50	357.03	11,585.12	381.15	-19.79	381.66	10.00	10.00	0.00
11,800.00	75.50	357.03	11,599.74	428.88	-22.27	429.46	10.00	10.00	0.00
11,850.00	80.50	357.03	11,610.13	477.71	-24.81	478.35	10.00	10.00	0.00
11,900.00	85.50	357.03	11,616.23	527.25	-27.38	527.96	10.00	10.00	0.00
11,945.04	90.00	357.03	11,618.00	572.19	-29.71	572.96	10.00	10.00	0.00
EOC: Start 4034.00 hold at 11945.04 MD									
12,000.00	90.00	357.03	11,618.00	627.07	-32.56	627.92	0.00	0.00	0.00
12,100.00	90.00	357.03	11,618.00	726.94	-37.75	727.92	0.00	0.00	0.00
12,200.00	90.00	357.03	11,618.00	826.80	-42.93	827.92	0.00	0.00	0.00
12,300.00	90.00	357.03	11,618.00	926.67	-48.12	927.92	0.00	0.00	0.00
12,400.00	90.00	357.03	11,618.00	1,026.53	-53.30	1,027.92	0.00	0.00	0.00
12,500.00	90.00	357.03	11,618.00	1,126.40	-58.49	1,127.92	0.00	0.00	0.00
12,600.00	90.00	357.03	11,618.00	1,226.27	-63.68	1,227.92	0.00	0.00	0.00
12,700.00	90.00	357.03	11,618.00	1,326.13	-68.86	1,327.92	0.00	0.00	0.00
12,800.00	90.00	357.03	11,618.00	1,426.00	-74.05	1,427.92	0.00	0.00	0.00
12,900.00	90.00	357.03	11,618.00	1,525.86	-79.23	1,527.92	0.00	0.00	0.00
13,000.00	90.00	357.03	11,618.00	1,625.73	-84.42	1,627.92	0.00	0.00	0.00
13,100.00	90.00	357.03	11,618.00	1,725.59	-89.60	1,727.92	0.00	0.00	0.00
13,200.00	90.00	357.03	11,618.00	1,825.46	-94.79	1,827.92	0.00	0.00	0.00
13,300.00	90.00	357.03	11,618.00	1,925.32	-99.98	1,927.92	0.00	0.00	0.00
13,400.00	90.00	357.03	11,618.00	2,025.19	-105.16	2,027.92	0.00	0.00	0.00
13,500.00	90.00	357.03	11,618.00	2,125.05	-110.35	2,127.92	0.00	0.00	0.00
13,600.00	90.00	357.03	11,618.00	2,224.92	-115.53	2,227.92	0.00	0.00	0.00
13,700.00	90.00	357.03	11,618.00	2,324.79	-120.72	2,327.92	0.00	0.00	0.00
13,800.00	90.00	357.03	11,618.00	2,424.65	-125.90	2,427.92	0.00	0.00	0.00
13,900.00	90.00	357.03	11,618.00	2,524.52	-131.09	2,527.92	0.00	0.00	0.00
14,000.00	90.00	357.03	11,618.00	2,624.38	-136.28	2,627.92	0.00	0.00	0.00
14,100.00	90.00	357.03	11,618.00	2,724.25	-141.46	2,727.92	0.00	0.00	0.00
14,200.00	90.00	357.03	11,618.00	2,824.11	-146.65	2,827.92	0.00	0.00	0.00
14,300.00	90.00	357.03	11,618.00	2,923.98	-151.83	2,927.92	0.00	0.00	0.00
14,400.00	90.00	357.03	11,618.00	3,023.84	-157.02	3,027.92	0.00	0.00	0.00
14,500.00	90.00	357.03	11,618.00	3,123.71	-162.20	3,127.92	0.00	0.00	0.00
14,600.00	90.00	357.03	11,618.00	3,223.57	-167.39	3,227.92	0.00	0.00	0.00
14,700.00	90.00	357.03	11,618.00	3,323.44	-172.58	3,327.92	0.00	0.00	0.00
14,800.00	90.00	357.03	11,618.00	3,423.31	-177.76	3,427.92	0.00	0.00	0.00
14,900.00	90.00	357.03	11,618.00	3,523.17	-182.95	3,527.92	0.00	0.00	0.00
15,000.00	90.00	357.03	11,618.00	3,623.04	-188.13	3,627.92	0.00	0.00	0.00
15,100.00	90.00	357.03	11,618.00	3,722.90	-193.32	3,727.92	0.00	0.00	0.00

Leam Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 8H
Company:	DEVON ENERGY	TVD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Project:	Eddy County NM (NAD-83)	MD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Site:	Aldabra 26 Fed	North Reference:	Grid
Well:	8H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1 Draft1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,200.00	90.00	357.03	11,618.00	3,822.77	-198.50	3,827.92	0.00	0.00	0.00	
15,300.00	90.00	357.03	11,618.00	3,922.63	-203.69	3,927.92	0.00	0.00	0.00	
15,400.00	90.00	357.03	11,618.00	4,022.50	-208.88	4,027.92	0.00	0.00	0.00	
15,500.00	90.00	357.03	11,618.00	4,122.36	-214.06	4,127.92	0.00	0.00	0.00	
15,600.00	90.00	357.03	11,618.00	4,222.23	-219.25	4,227.92	0.00	0.00	0.00	
15,700.00	90.00	357.03	11,618.00	4,322.09	-224.43	4,327.92	0.00	0.00	0.00	
15,800.00	90.00	357.03	11,618.00	4,421.96	-229.62	4,427.92	0.00	0.00	0.00	
15,900.00	90.00	357.03	11,618.00	4,521.83	-234.80	4,527.92	0.00	0.00	0.00	
15,979.04	90.00	357.03	11,618.00	4,600.76	-238.90	4,606.96	0.00	0.00	0.00	
TD at 15979.04' MD - PBHL (A26FC 8H)										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (A26FC 8H)		0.00	0.00	0.00	0.00	0.00	462,149.31	724,265.93	32° 16' 8.891 N	103° 44' 29.357 W
- plan misses target center by 11045.04usft at 11045.04usft MD (11045.04 TVD, 0.00 N, 0.00 E)										
- Point										
PBHL (A26FC 8H)		0.00	0.00	11,618.00	4,600.76	-238.90	466,750.07	724,027.03	32° 16' 54.431 N	103° 44' 31.844 W
- plan hits target center										
- Point										

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,045.04	11,045.04	0.00	0.00	KOP: Start DLS 10.00 TFO 357.03
11,945.04	11,618.00	572.19	-29.71	EOC: Start 4034.00 hold at 11945.04 MD
15,979.04	11,618.00	4,600.76	-238.90	TD at 15979.04' MD

DEVON ENERGY

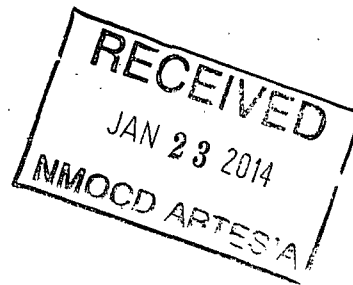
Eddy County, NM (NAD-83)

Aldabra 26 Fed

8H

OH

Plan #1 Draft1



Anticollision Report

08 October, 2013

Anticollision Report

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 8H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Reference Site:	Aldabra 26 Fed	MD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft 1	Offset TVD Reference:	Reference Datum

Offset Design: Todd 26 Fed - #16 - OH - OH												Offset Site Error: 0.00 usft	
Survey Program: 198-Totco												Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,600.00	2,600.00	2,602.68	2,602.44	5.70	0.00	-96.07	-19.24	-181.00	182.03	176.33	5.70	31.934	
2,700.00	2,700.00	2,703.40	2,703.15	5.92	0.00	-96.09	-19.17	-179.53	180.58	174.66	5.93	30.478	
2,800.00	2,800.00	2,804.59	2,804.32	6.15	0.00	-96.13	-19.06	-177.43	178.50	172.35	6.15	29.025	
2,900.00	2,900.00	2,904.54	2,904.23	6.37	0.00	-96.18	-18.93	-174.92	175.99	169.62	6.37	27.608	
3,000.00	3,000.00	3,004.00	3,003.67	6.60	0.00	-96.22	-18.82	-172.67	173.73	167.13	6.60	26.326	
3,100.00	3,100.00	3,103.48	3,103.12	6.82	0.00	-96.26	-18.72	-170.71	171.77	164.94	6.82	25.171	
3,200.00	3,200.00	3,202.96	3,202.59	7.05	0.00	-96.29	-18.64	-169.05	170.09	163.05	7.05	24.131	
3,300.00	3,300.00	3,302.92	3,302.55	7.27	0.00	-96.32	-18.57	-167.64	168.68	161.41	7.27	23.191	
3,400.00	3,400.00	3,404.24	3,403.84	7.50	0.00	-96.36	-18.47	-165.70	166.77	159.28	7.50	22.241	
3,500.00	3,500.00	3,505.51	3,505.08	7.72	0.00	-96.42	-18.33	-162.97	164.07	156.35	7.72	21.244	
3,600.00	3,600.00	3,606.74	3,606.25	7.95	0.00	-96.50	-18.15	-159.43	160.58	152.63	7.95	20.204	
3,700.00	3,700.00	3,707.09	3,706.51	8.17	0.00	-96.59	-17.94	-155.23	156.40	148.23	8.17	19.137	
3,800.00	3,800.00	3,806.63	3,805.97	8.40	0.00	-96.69	-17.74	-151.27	152.42	144.02	8.40	18.151	
3,900.00	3,900.00	3,905.92	3,905.19	8.62	0.00	-96.79	-17.55	-147.51	148.64	140.02	8.62	17.239	
4,000.00	4,000.00	4,006.49	4,005.69	8.85	0.00	-96.89	-17.37	-143.78	144.94	136.09	8.85	16.383	
4,100.00	4,100.00	4,106.90	4,106.02	9.07	0.00	-97.00	-17.16	-139.66	140.84	131.77	9.07	15.525	
4,200.00	4,200.00	4,207.40	4,206.41	9.30	0.00	-97.14	-16.93	-135.15	136.36	127.06	9.30	14.668	
4,300.00	4,300.00	4,305.64	4,304.57	9.52	0.00	-97.27	-16.73	-131.10	132.25	122.72	9.52	13.889	
4,400.00	4,400.00	4,405.41	4,404.28	9.75	0.00	-97.39	-16.56	-127.72	128.86	119.11	9.75	13.222	
4,500.00	4,500.00	4,505.18	4,504.00	9.97	0.00	-97.50	-16.40	-124.47	125.61	115.64	9.97	12.598	
4,600.00	4,600.00	4,604.97	4,603.73	10.20	0.00	-97.62	-16.24	-121.36	122.49	112.30	10.20	12.014	
4,700.00	4,700.00	4,704.76	4,703.48	10.42	0.00	-97.74	-16.09	-118.38	119.51	109.09	10.42	11.469	
4,800.00	4,800.00	4,804.56	4,803.24	10.64	0.00	-97.86	-15.95	-115.53	116.67	106.03	10.65	10.980	
4,900.00	4,900.00	4,904.36	4,903.01	10.87	0.00	-97.98	-15.81	-112.82	113.96	103.09	10.87	10.484	
5,000.00	5,000.00	5,004.06	5,002.67	11.09	0.00	-98.09	-15.68	-110.29	111.43	100.34	11.09	10.044	
5,100.00	5,100.00	5,103.73	5,102.32	11.32	0.00	-98.20	-15.57	-108.03	109.17	97.86	11.32	9.645	
5,200.00	5,200.00	5,203.41	5,201.98	11.54	0.00	-98.30	-15.47	-106.05	107.19	95.65	11.54	9.285	
5,300.00	5,300.00	5,303.11	5,301.66	11.77	0.00	-98.39	-15.38	-104.34	105.48	93.71	11.77	8.963	
5,400.00	5,400.00	5,402.81	5,401.36	11.99	0.00	-98.46	-15.31	-102.91	104.05	92.06	11.99	8.675	
5,500.00	5,500.00	5,502.81	5,501.34	12.22	0.00	-98.53	-15.24	-101.60	102.75	90.53	12.22	8.409	
5,600.00	5,600.00	5,602.80	5,601.32	12.44	0.00	-98.61	-15.18	-100.29	101.44	89.00	12.44	8.153	
5,700.00	5,700.00	5,702.79	5,701.30	12.67	0.00	-98.68	-15.11	-98.99	100.14	87.47	12.67	7.905	
5,800.00	5,800.00	5,802.78	5,801.29	12.89	0.00	-98.76	-15.05	-97.68	98.84	85.95	12.89	7.666	
5,900.00	5,900.00	5,902.77	5,901.27	13.12	0.00	-98.84	-14.98	-96.37	97.54	84.42	13.12	7.436	
6,000.00	6,000.00	6,002.68	6,001.17	13.34	0.00	-98.91	-14.92	-95.11	96.28	82.94	13.34	7.216	
6,100.00	6,100.00	6,102.59	6,101.08	13.57	0.00	-98.99	-14.86	-93.93	95.10	81.53	13.57	7.010	
6,200.00	6,200.00	6,202.51	6,200.98	13.79	0.00	-99.06	-14.80	-92.83	94.01	80.22	13.79	6.816	
6,300.00	6,300.00	6,302.42	6,300.89	14.02	0.00	-99.13	-14.75	-91.83	93.01	78.99	14.02	6.636	
6,400.00	6,400.00	6,402.34	6,400.81	14.24	0.00	-99.19	-14.71	-90.90	92.09	77.85	14.24	6.466	
6,500.00	6,500.00	6,502.47	6,500.93	14.47	0.00	-99.26	-14.66	-89.96	91.15	76.69	14.47	6.301	
6,600.00	6,600.00	6,602.62	6,601.07	14.69	0.00	-99.33	-14.60	-88.85	90.04	75.35	14.69	6.129	
6,700.00	6,700.00	6,702.76	6,701.21	14.92	0.00	-99.43	-14.54	-87.56	88.76	73.85	14.92	5.951	
6,800.00	6,800.00	6,802.90	6,801.34	15.14	0.00	-99.54	-14.46	-86.10	87.31	72.17	15.14	5.767	
6,900.00	6,900.00	6,903.04	6,901.46	15.37	0.00	-99.66	-14.38	-84.46	85.69	70.33	15.37	5.577	
7,000.00	7,000.00	7,003.11	7,001.52	15.59	0.00	-99.81	-14.29	-82.69	83.93	68.34	15.59	5.383	
7,100.00	7,100.00	7,103.17	7,101.56	15.81	0.00	-99.96	-14.20	-80.82	82.07	66.25	15.81	5.189	
7,200.00	7,200.00	7,203.22	7,201.60	16.04	0.00	-100.14	-14.10	-78.86	80.12	64.08	16.04	4.995	
7,300.00	7,300.00	7,303.27	7,301.63	16.26	0.00	-100.33	-14.00	-76.80	78.09	61.82	16.26	4.801	
7,400.00	7,400.00	7,403.33	7,401.66	16.49	0.00	-100.54	-13.89	-74.66	75.96	59.47	16.49	4.607	
7,500.00	7,500.00	7,503.50	7,501.80	16.71	0.00	-100.78	-13.77	-72.32	73.64	56.93	16.71	4.406	
7,600.00	7,600.00	7,603.65	7,601.92	16.94	0.00	-101.07	-13.64	-69.72	71.07	54.13	16.94	4.196	
7,700.00	7,700.00	7,703.79	7,702.01	17.16	0.00	-101.41	-13.50	-66.87	68.25	51.08	17.16	3.976	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 8H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	3470 + KB 28 @ 3498.00usft (Cactus 105)
Reference Site:	Aldabra 26 Fed	MD Reference:	3470 + KB 28 @ 3498.00usft (Cactus 105)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft1	Offset TVD Reference:	Reference Datum

Offset Design: Todd 26P/Fed #16 OH/OH												Offset Site Error:	0.00 usft
Survey Program: 166-Totco												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
7,800.00	7,800.00	7,803.91	7,802.09	17.39	0.00	-101.82	-13.34	-63.75	65.17	47.78	17.39	3.748	
7,900.00	7,900.00	7,904.00	7,902.12	17.61	0.00	-102.31	-13.17	-60.38	61.84	44.23	17.61	3.511	
8,000.00	8,000.00	8,003.81	8,001.87	17.84	0.00	-102.84	-13.00	-57.03	58.52	40.68	17.84	3.281	
8,100.00	8,100.00	8,103.65	8,101.66	18.06	0.00	-103.40	-12.85	-53.90	55.44	37.37	18.06	3.069	
8,200.00	8,200.00	8,203.60	8,201.57	18.29	0.00	-104.01	-12.69	-50.85	52.44	34.15	18.29	2.867	
8,300.00	8,300.00	8,303.56	8,301.48	18.51	0.00	-104.70	-12.54	-47.81	49.44	30.93	18.51	2.671	
8,400.00	8,400.00	8,403.51	8,401.38	18.74	0.00	-105.47	-12.39	-44.76	46.46	27.72	18.74	2.480	
8,409.54	8,409.54	8,413.04	8,410.91	18.76	0.00	-105.55	-12.37	-44.47	46.18	27.42	18.76	2.462	CC, ES, SF
8,500.00	8,500.00	8,425.00	8,422.87	18.96	0.00	-105.65	-12.35	-44.10	89.71	70.75	18.96	4.731	
8,600.00	8,600.00	8,425.00	8,422.87	19.19	0.00	-105.65	-12.35	-44.10	182.96	163.77	19.19	9.536	
8,700.00	8,700.00	8,425.00	8,422.87	19.41	0.00	-105.65	-12.35	-44.10	280.89	261.48	19.41	14.471	
8,800.00	8,800.00	8,425.00	8,422.87	19.64	0.00	-105.65	-12.35	-44.10	379.91	360.27	19.64	19.348	
8,900.00	8,900.00	8,425.00	8,422.87	19.86	0.00	-105.65	-12.35	-44.10	479.33	459.47	19.86	24.135	
9,000.00	9,000.00	8,425.00	8,422.87	20.09	0.00	-105.65	-12.35	-44.10	578.95	558.86	20.09	28.825	
9,100.00	9,100.00	8,425.00	8,422.87	20.31	0.00	-105.65	-12.35	-44.10	678.68	658.37	20.31	33.416	
9,200.00	9,200.00	8,425.00	8,422.87	20.53	0.00	-105.65	-12.35	-44.10	778.48	757.95	20.53	37.910	
9,300.00	9,300.00	8,425.00	8,422.87	20.76	0.00	-105.65	-12.35	-44.10	878.33	857.57	20.76	42.310	
9,400.00	9,400.00	8,425.00	8,422.87	20.98	0.00	-105.65	-12.35	-44.10	978.21	957.22	20.98	46.816	
9,500.00	9,500.00	8,425.00	8,422.87	21.21	0.00	-105.65	-12.35	-44.10	1,078.11	1,056.90	21.21	50.832	
9,600.00	9,600.00	8,425.00	8,422.87	21.43	0.00	-105.65	-12.35	-44.10	1,178.03	1,156.59	21.43	54.961	
9,700.00	9,700.00	8,425.00	8,422.87	21.66	0.00	-105.65	-12.35	-44.10	1,277.96	1,256.30	21.66	59.004	
9,800.00	9,800.00	8,425.00	8,422.87	21.88	0.00	-105.65	-12.35	-44.10	1,377.90	1,356.01	21.88	62.965	
9,900.00	9,900.00	8,425.00	8,422.87	22.11	0.00	-105.65	-12.35	-44.10	1,477.84	1,455.74	22.11	66.846	
10,000.00	10,000.00	8,425.00	8,422.87	22.33	0.00	-105.65	-12.35	-44.10	1,577.80	1,555.47	22.33	70.649	
10,100.00	10,100.00	8,425.00	8,422.87	22.56	0.00	-105.65	-12.35	-44.10	1,677.76	1,655.20	22.56	74.376	
10,200.00	10,200.00	8,425.00	8,422.87	22.78	0.00	-105.65	-12.35	-44.10	1,777.73	1,754.94	22.78	78.030	
10,300.00	10,300.00	8,425.00	8,422.87	23.01	0.00	-105.65	-12.35	-44.10	1,877.69	1,854.69	23.01	81.613	
10,400.00	10,400.00	8,425.00	8,422.87	23.23	0.00	-105.65	-12.35	-44.10	1,977.67	1,954.43	23.23	85.127	
10,500.00	10,500.00	8,425.00	8,422.87	23.46	0.00	-105.65	-12.35	-44.10	2,077.64	2,054.18	23.46	88.573	
10,600.00	10,600.00	8,425.00	8,422.87	23.68	0.00	-105.65	-12.35	-44.10	2,177.62	2,153.94	23.68	91.954	
10,700.00	10,700.00	8,425.00	8,422.87	23.91	0.00	-105.65	-12.35	-44.10	2,277.60	2,253.69	23.91	95.272	
10,800.00	10,800.00	8,425.00	8,422.87	24.13	0.00	-105.65	-12.35	-44.10	2,377.58	2,353.45	24.13	98.528	
10,900.00	10,900.00	8,425.00	8,422.87	24.36	0.00	-105.65	-12.35	-44.10	2,477.56	2,453.20	24.36	101.723	
11,000.00	11,000.00	8,425.00	8,422.87	24.58	0.00	-105.65	-12.35	-44.10	2,577.54	2,552.96	24.58	104.861	
11,045.04	11,045.04	8,425.00	8,422.87	24.68	0.00	-105.65	-12.35	-44.10	2,622.57	2,597.89	24.68	106.255	
11,050.00	11,050.00	8,425.00	8,422.87	24.69	0.00	-74.17	-12.35	-44.10	2,627.53	2,602.84	24.69	106.408	
11,100.00	11,099.92	8,425.00	8,422.87	24.81	0.00	-10.39	-12.35	-44.10	2,677.45	2,652.67	24.79	108.024	
11,150.00	11,149.41	8,425.00	8,422.87	24.92	0.00	-5.35	-12.35	-44.10	2,726.99	2,702.14	24.84	109.762	
11,200.00	11,198.12	8,425.00	8,422.87	25.03	0.00	-3.59	-12.35	-44.10	2,775.78	2,750.91	24.87	111.607	
11,250.00	11,245.66	8,425.00	8,422.87	25.14	0.00	-2.71	-12.35	-44.10	2,823.53	2,798.66	24.87	113.542	
11,300.00	11,291.87	8,425.00	8,422.87	25.24	0.00	-2.18	-12.35	-44.10	2,869.91	2,845.07	24.84	115.547	
11,350.00	11,335.80	8,425.00	8,422.87	25.34	0.00	-1.83	-12.35	-44.10	2,914.65	2,889.86	24.79	117.597	
11,400.00	11,377.73	8,425.00	8,422.87	25.45	0.00	-1.58	-12.35	-44.10	2,957.50	2,932.78	24.72	119.663	
11,450.00	11,417.12	8,425.00	8,422.87	25.57	0.00	-1.40	-12.35	-44.10	2,998.20	2,973.57	24.63	121.714	
11,500.00	11,453.67	8,425.00	8,422.87	25.70	0.00	-1.26	-12.35	-44.10	3,036.56	3,012.02	24.55	123.713	
11,550.00	11,487.12	8,425.00	8,422.87	25.85	0.00	-1.15	-12.35	-44.10	3,072.37	3,047.91	24.46	125.621	
11,570.70	11,500.00	8,425.00	8,422.87	25.92	0.00	-1.11	-12.35	-44.10	3,086.40	3,061.98	24.42	126.379	
11,600.00	11,517.21	8,425.00	8,422.87	26.01	0.00	-1.06	-12.35	-44.10	3,105.44	3,081.06	24.38	127.396	
11,650.00	11,543.70	8,425.00	8,422.87	26.20	0.00	-1.00	-12.35	-44.10	3,135.62	3,111.31	24.31	128.998	
11,700.00	11,566.39	8,425.00	8,422.87	26.40	0.00	-0.94	-12.35	-44.10	3,162.76	3,138.50	24.26	130.385	
11,750.00	11,585.12	8,425.00	8,422.87	26.63	0.00	-0.90	-12.35	-44.10	3,186.74	3,162.51	24.23	131.523	
11,800.00	11,599.74	8,425.00	8,422.87	26.88	0.00	-0.86	-12.35	-44.10	3,207.44	3,183.21	24.23	132.380	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Leam Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 8H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Reference Site:	Aldabra 26 Fed	MD Reference:	3470' + KB 28' @ 3498.00usft (Cactus 105)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	8H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	±2.00 sigma
Reference Wellbore:	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #1 Draft1	Offset TVD Reference:	Reference Datum

Offset Design: Todd 26P Fed #16 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 198-Tolco												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,801.05	11,600.00	8,425.00	8,422.87	26.89	0.00	-0.86	-12.35	-44.10	3,207.84	3,183.61	24.23	132.395	
11,850.00	11,610.13	8,425.00	8,422.87	27.16	0.00	-0.84	-12.35	-44.10	3,224.78	3,200.52	24.26	132.935	
11,900.00	11,616.23	8,425.00	8,422.87	27.45	0.00	-0.81	-12.35	-44.10	3,238.68	3,214.36	24.32	133.174	
11,945.04	11,618.00	8,425.00	8,422.87	27.74	0.00	-0.80	-12.35	-44.10	3,248.19	3,223.79	24.40	133.118	
12,000.00	11,618.00	8,425.00	8,422.87	28.11	0.00	-0.80	-12.35	-44.10	3,258.51	3,234.05	24.46	133.224	
12,100.00	11,618.00	8,425.00	8,422.87	28.87	0.00	-0.80	-12.35	-44.10	3,279.55	3,254.97	24.58	133.420	
12,200.00	11,618.00	8,425.00	8,422.87	29.72	0.00	-0.80	-12.35	-44.10	3,303.49	3,278.77	24.72	133.616	
12,300.00	11,618.00	8,425.00	8,422.87	30.67	0.00	-0.80	-12.35	-44.10	3,330.26	3,305.38	24.89	133.812	
12,400.00	11,618.00	8,425.00	8,422.87	31.69	0.00	-0.80	-12.35	-44.10	3,359.80	3,334.73	25.07	134.006	
12,500.00	11,618.00	8,425.00	8,422.87	32.78	0.00	-0.80	-12.35	-44.10	3,392.03	3,366.75	25.28	134.198	
12,600.00	11,618.00	8,425.00	8,422.87	33.94	0.00	-0.80	-12.35	-44.10	3,426.87	3,401.37	25.50	134.387	
12,700.00	11,618.00	8,425.00	8,422.87	35.16	0.00	-0.80	-12.35	-44.10	3,464.25	3,438.51	25.74	134.572	
12,800.00	11,618.00	8,425.00	8,422.87	36.43	0.00	-0.80	-12.35	-44.10	3,504.09	3,478.08	26.00	134.753	
12,900.00	11,618.00	8,425.00	8,422.87	37.75	0.00	-0.80	-12.35	-44.10	3,546.30	3,520.01	26.28	134.928	
13,000.00	11,618.00	8,425.00	8,422.87	39.11	0.00	-0.80	-12.35	-44.10	3,590.79	3,564.22	26.58	135.097	
13,100.00	11,618.00	8,425.00	8,422.87	40.51	0.00	-0.80	-12.35	-44.10	3,637.50	3,610.61	26.89	135.261	
13,200.00	11,618.00	8,425.00	8,422.87	41.94	0.00	-0.80	-12.35	-44.10	3,686.33	3,659.10	27.22	135.418	
13,300.00	11,618.00	8,425.00	8,422.87	43.40	0.00	-0.80	-12.35	-44.10	3,737.19	3,709.62	27.57	135.569	
13,400.00	11,618.00	8,425.00	8,422.87	44.90	0.00	-0.80	-12.35	-44.10	3,790.01	3,762.08	27.93	135.713	
13,500.00	11,618.00	8,425.00	8,422.87	46.42	0.00	-0.80	-12.35	-44.10	3,844.71	3,816.41	28.30	135.850	
13,600.00	11,618.00	8,425.00	8,422.87	47.96	0.00	-0.80	-12.35	-44.10	3,901.20	3,872.51	28.69	135.980	
13,700.00	11,618.00	8,425.00	8,422.87	49.52	0.00	-0.80	-12.35	-44.10	3,959.41	3,930.32	29.09	136.104	
13,800.00	11,618.00	8,425.00	8,422.87	51.10	0.00	-0.80	-12.35	-44.10	4,019.27	3,989.77	29.51	136.221	
13,900.00	11,618.00	8,425.00	8,422.87	52.70	0.00	-0.80	-12.35	-44.10	4,080.70	4,050.77	29.93	136.332	
14,000.00	11,618.00	8,425.00	8,422.87	54.32	0.00	-0.80	-12.35	-44.10	4,143.64	4,113.27	30.37	136.436	
14,100.00	11,618.00	8,425.00	8,422.87	55.94	0.00	-0.80	-12.35	-44.10	4,208.01	4,177.19	30.82	136.534	
14,200.00	11,618.00	8,425.00	8,422.87	57.59	0.00	-0.80	-12.35	-44.10	4,273.75	4,242.47	31.28	136.626	
14,300.00	11,618.00	8,425.00	8,422.87	59.24	0.00	-0.80	-12.35	-44.10	4,340.80	4,309.05	31.75	136.713	
14,400.00	11,618.00	8,425.00	8,422.87	60.91	0.00	-0.80	-12.35	-44.10	4,409.09	4,376.86	32.23	136.794	
14,500.00	11,618.00	8,425.00	8,422.87	62.58	0.00	-0.80	-12.35	-44.10	4,478.58	4,445.86	32.72	136.869	
14,600.00	11,618.00	8,425.00	8,422.87	64.27	0.00	-0.80	-12.35	-44.10	4,549.21	4,515.99	33.22	136.940	
14,700.00	11,618.00	8,425.00	8,422.87	65.96	0.00	-0.80	-12.35	-44.10	4,620.92	4,587.19	33.73	137.005	
14,800.00	11,618.00	8,425.00	8,422.87	67.66	0.00	-0.80	-12.35	-44.10	4,693.67	4,659.42	34.24	137.067	
14,900.00	11,618.00	8,425.00	8,422.87	69.37	0.00	-0.80	-12.35	-44.10	4,767.40	4,732.63	34.77	137.123	
15,000.00	11,618.00	8,425.00	8,422.87	71.08	0.00	-0.80	-12.35	-44.10	4,842.07	4,806.78	35.30	137.176	
15,100.00	11,618.00	8,425.00	8,422.87	72.81	0.00	-0.80	-12.35	-44.10	4,917.65	4,881.81	35.84	137.225	
15,200.00	11,618.00	8,425.00	8,422.87	74.53	0.00	-0.80	-12.35	-44.10	4,994.08	4,957.70	36.38	137.270	
15,300.00	11,618.00	8,425.00	8,422.87	76.27	0.00	-0.80	-12.35	-44.10	5,071.34	5,034.40	36.93	137.312	
15,400.00	11,618.00	8,425.00	8,422.87	78.01	0.00	-0.80	-12.35	-44.10	5,149.37	5,111.88	37.49	137.351	
15,500.00	11,618.00	8,425.00	8,422.87	79.75	0.00	-0.80	-12.35	-44.10	5,228.16	5,190.10	38.05	137.386	
15,600.00	11,618.00	8,425.00	8,422.87	81.50	0.00	-0.80	-12.35	-44.10	5,307.86	5,269.03	38.62	137.419	
15,700.00	11,618.00	8,425.00	8,422.87	83.25	0.00	-0.80	-12.35	-44.10	5,387.84	5,348.64	39.20	137.449	
15,800.00	11,618.00	8,425.00	8,422.87	85.01	0.00	-0.80	-12.35	-44.10	5,468.68	5,428.90	39.78	137.477	
15,900.00	11,618.00	8,425.00	8,422.87	86.77	0.00	-0.80	-12.35	-44.10	5,550.14	5,509.77	40.36	137.502	
15,979.04	11,618.00	8,425.00	8,422.87	88.16	0.00	-0.80	-12.35	-44.10	5,614.95	5,574.12	40.83	137.520	

20" 2K Annular

