

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.*5. Lease Serial No.
NMNM0405444A

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
ALDABRA 26 FED COM 8H2. Name of Operator
DEVON ENERGY PRODUCTION CO EMail: trina.couch@devn.com

Contact: TRINA C COUCH

9. API Well No.
30-015-38624-00-X13a. Address
333 WEST SHERIDAN AVE
OKLAHOMA CITY, OK 731023b. Phone No. (include area code)
Ph: 405-228-720310. Field and Pool, or Exploratory
INGLE WELLS

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

Sec 26 T23S R31E SESE 350FSL 445FEL

11. County or Parish, and State

EDDY COUNTY, NM

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.)

Due to hole problems while in the lateral, Devon Energy Production Company, L.P. respectfully requests to open hole side track the well from the current wellbore.

Attached is the new Directional Plan

Thank you

Accepted for record

NMOCD-tes 12/16/2013

RECEIVED

DEC 16 2013

NMOCD ARTESIA

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

Electronic Submission #229226 verified by the BLM Well Information System
For DEVON ENERGY PRODUCTION CO LP, sent to the Carlsbad
Committed to AFMSS for processing by JOHNNY DICKERSON on 12/11/2013 (14JLD1693SE)

Name (Printed/Typed) TRINA C COUCH

Title REGULATORY ASSOCIATE

Signature (Electronic Submission)

Date 12/11/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 12/12/2013

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Project: Eddy County, NM (NAD-83)
 Site: Aldabra 26 Fed
 Well: 8H
 Wellbore: ST01
 Design: Plan #2



Azimuths to Grid North
 True North: -0.32°
 Magnetic North: 7.05°
 Magnetic Field
 Strength: 48376.7snT
 Dip Angle: 60.14°
 Date: 12/7/2013
 Model: IGRF2010



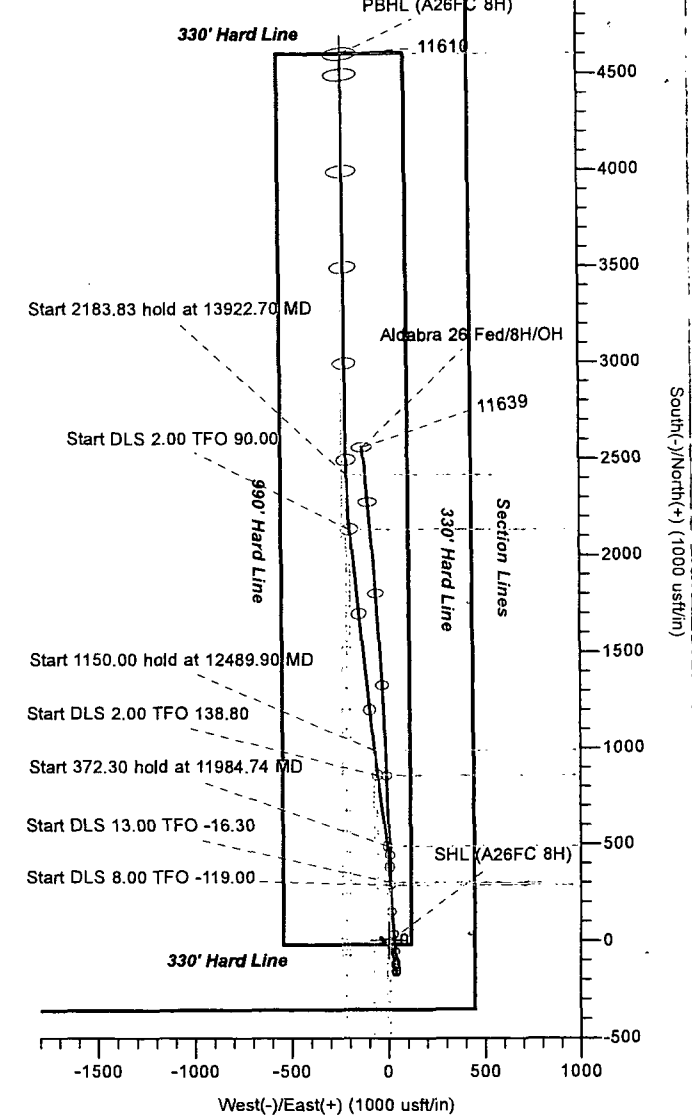
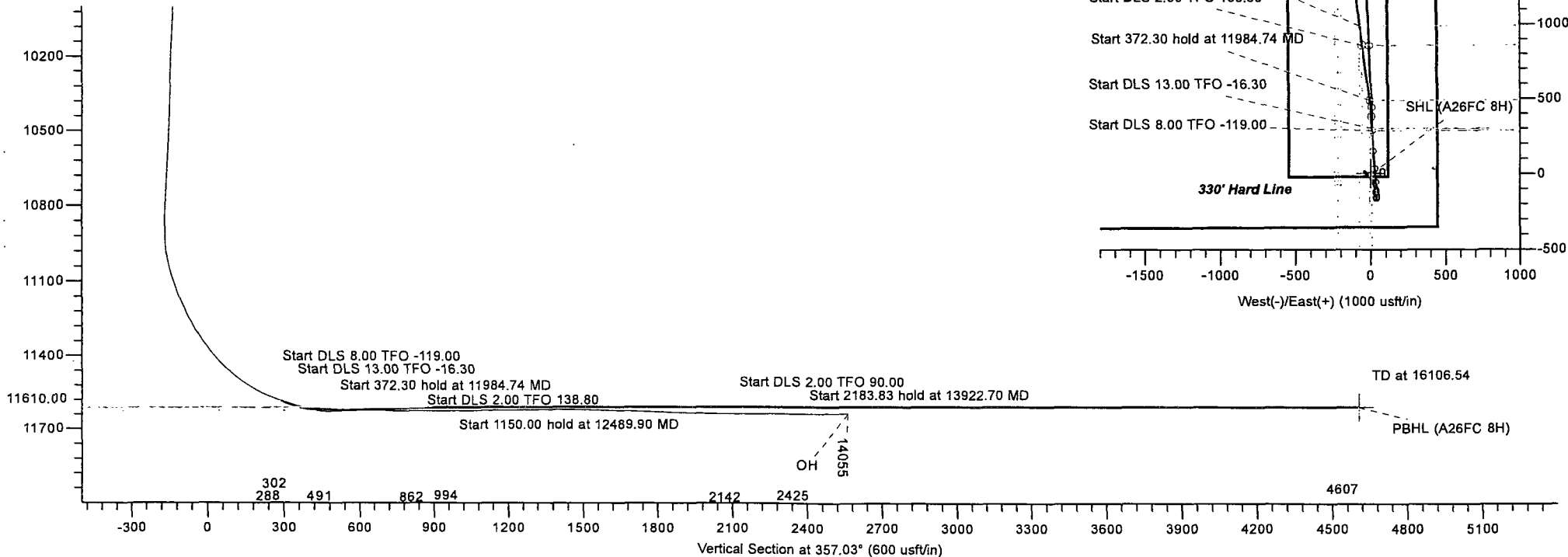
PROJECT DETAILS: Eddy County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL (A26FC 8H)	0.00	0.00	0.00	462149.31	724265.93	32.269137	-103.741488
PBHL (A26FC 8H)	11610.00	4600.76	-238.90	466750.07	724027.03	32.281786	-103.742179

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
1	11776.00	68.30	0.00	11585.81	289.00	9.70	0.00	0.00	288.11	
2	11791.00	67.72	358.87	11591.42	302.90	9.56	8.00	-119.00	302.00	
3	11984.74	92.00	352.00	11625.31	491.44	-5.93	13.00	-16.30	491.09	
4	12357.04	92.00	352.00	11612.32	859.89	-57.72	0.00	0.00	861.73	
5	12489.90	90.00	353.75	11610.00	991.70	-74.19	2.00	138.80	994.21	
6	13639.90	90.00	353.75	11610.00	2134.86	-199.39	0.00	0.00	2142.33	
7	13922.70	90.00	359.41	11610.00	2417.04	-216.26	2.00	90.00	2425.00	
8	16106.54	90.00	359.41	11610.00	4600.76	-238.90	0.00	0.00	4606.96	



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

Plan: Plan #2 (8H/ST01)
 Aldabra 26 Fed
 Created By: Jesse Aguilera
 Date: 15:15, December 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:	ST01		
Design:	Plan #2		

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:	13.20 in
		Grid Convergence:	0.32 °

Well	8H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Ground Level:	3,470.00 usft

Wellbore:	ST01
-----------	------

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/7/2013	7.36	60.14	48,377

Design	Plan #2
--------	---------

Audit Notes:	
Version:	Phase: PLAN
	Tie On Depth: 11,776.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	357.03

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
11,776.00	68.30	0.00	11,585.81	289.00	9.70	0.00	0.00	0.00	0.00	
11,791.00	67.72	358.87	11,591.42	302.90	9.56	8.00	-3.85	-7.56	-119.00	
11,984.74	92.00	352.00	11,625.31	491.44	-5.93	13.00	12.53	-3.54	-16.30	
12,357.04	92.00	352.00	11,612.32	859.89	-57.72	0.00	0.00	0.00	0.00	
12,489.90	90.00	353.75	11,610.00	991.70	-74.19	2.00	-1.51	1.32	138.80	
13,639.90	90.00	353.75	11,610.00	2,134.86	-199.39	0.00	0.00	0.00	0.00	
13,922.70	90.00	359.41	11,610.00	2,417.04	-216.26	2.00	0.00	2.00	90.00	
16,106.54	90.00	359.41	11,610.00	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:	ST01		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (A26FC 8H)									
108.10	0.30	328.95	108.10	0.24	-0.15	0.25	0.28	0.28	0.00
226.24	0.47	297.08	226.24	0.73	-0.74	0.77	0.23	0.14	-26.98
344.38	0.42	324.19	344.37	1.30	-1.42	1.37	0.18	-0.04	22.95
436.56	0.53	291.61	436.55	1.73	-2.02	1.83	0.31	0.12	-35.34
528.74	0.47	286.42	528.73	1.99	-2.77	2.14	0.08	-0.07	-5.63
620.92	0.47	306.72	620.90	2.33	-3.44	2.50	0.18	0.00	22.02
713.10	0.54	304.76	713.08	2.80	-4.10	3.01	0.08	0.08	-2.13
805.28	0.92	284.37	805.25	3.23	-5.17	3.50	0.49	0.41	-22.12
897.46	1.00	298.28	897.42	3.80	-6.60	4.13	0.27	0.09	15.09
989.64	1.29	287.03	989.58	4.48	-8.30	4.91	0.40	0.31	-12.20
1,081.82	1.44	281.33	1,081.74	5.01	-10.43	5.55	0.22	0.16	-6.18
1,174.00	1.48	258.08	1,173.89	5.00	-12.73	5.65	0.64	0.04	-25.22
1,269.86	1.57	255.93	1,269.71	4.42	-15.21	5.20	0.11	0.09	-2.24
1,365.72	1.58	254.15	1,365.54	3.74	-17.76	4.66	0.05	0.01	-1.86
1,461.58	1.50	240.76	1,461.36	2.77	-20.12	3.81	0.38	-0.08	-13.97
1,557.44	1.40	237.02	1,557.19	1.52	-22.20	2.66	0.14	-0.10	-3.90
1,653.30	1.08	231.16	1,653.03	0.31	-23.89	1.55	0.36	-0.33	-6.11
1,749.16	0.90	241.41	1,748.87	-0.61	-25.25	0.69	0.26	-0.19	10.69
1,845.02	0.77	254.71	1,844.72	-1.14	-26.53	0.23	0.24	-0.14	13.87
1,940.88	0.87	253.23	1,940.57	-1.52	-27.85	-0.08	0.11	0.10	-1.54
2,036.74	0.70	283.83	2,036.43	-1.59	-29.12	-0.08	0.46	-0.18	31.92
2,132.60	0.79	286.54	2,132.28	-1.27	-30.32	0.31	0.10	0.09	2.83
2,228.46	0.90	305.99	2,228.13	-0.64	-31.56	1.00	0.32	0.11	20.29
2,324.32	0.94	317.49	2,323.98	0.39	-32.70	2.08	0.20	0.04	12.00
2,420.18	1.15	321.10	2,419.82	1.71	-33.84	3.47	0.23	0.22	3.77
2,516.04	0.98	315.43	2,515.66	3.05	-35.02	4.86	0.21	-0.18	-5.91
2,611.90	1.09	329.22	2,611.51	4.41	-36.06	6.28	0.28	0.11	14.39
2,707.76	1.41	332.17	2,707.34	6.24	-37.08	8.15	0.34	0.33	3.08
2,803.62	1.36	337.17	2,803.18	8.33	-38.07	10.29	0.14	-0.05	5.22
2,899.48	1.02	327.73	2,899.02	10.10	-38.97	12.11	0.41	-0.35	-9.85
2,995.34	0.82	336.75	2,994.86	11.45	-39.69	13.49	0.26	-0.21	9.41
3,091.20	0.54	330.35	3,090.72	12.48	-40.19	14.54	0.30	-0.29	-6.68
3,187.06	0.51	339.95	3,186.57	13.27	-40.56	15.35	0.10	-0.03	10.01
3,282.92	0.31	348.09	3,282.43	13.92	-40.76	16.02	0.22	-0.21	8.49
3,378.78	0.15	313.48	3,378.29	14.26	-40.90	16.36	0.21	-0.17	-36.10
3,474.64	0.19	186.57	3,474.15	14.19	-41.01	16.30	0.32	0.04	-132.39
3,570.50	0.39	140.98	3,570.01	13.78	-40.82	15.88	0.30	0.21	-47.56
3,666.36	0.99	137.28	3,665.86	12.92	-40.06	14.98	0.63	0.63	-3.86
3,762.22	1.29	125.33	3,761.70	11.69	-38.61	13.67	0.40	0.31	-12.47
3,858.08	1.53	124.45	3,857.53	10.34	-36.68	12.23	0.25	0.25	-0.92
3,953.94	1.98	114.83	3,953.35	8.92	-34.12	10.68	0.56	0.47	-10.04
4,049.80	2.86	130.27	4,049.12	6.68	-30.79	8.27	1.13	0.92	16.11
4,145.66	2.95	137.15	4,144.86	3.32	-27.29	4.73	0.38	0.09	7.18
4,241.52	2.83	139.69	4,240.60	-0.29	-24.08	0.96	0.18	-0.13	2.65
4,337.38	2.35	140.26	4,336.36	-3.60	-21.29	-2.50	0.50	-0.50	0.59
4,433.24	1.93	143.58	4,432.15	-6.41	-19.08	-5.42	0.46	-0.44	3.46
4,529.10	2.01	141.43	4,527.96	-9.03	-17.07	-8.13	0.11	0.08	-2.24
4,624.96	2.29	147.65	4,623.75	-11.96	-15.00	-11.17	0.38	0.29	6.49
4,720.82	2.16	148.65	4,719.54	-15.12	-13.03	-14.43	0.14	-0.14	1.04
4,816.68	2.12	145.05	4,815.33	-18.12	-11.08	-17.52	0.15	-0.04	-3.76
4,912.54	1.91	125.56	4,911.13	-20.50	-8.76	-20.02	0.74	-0.22	-20.33
5,008.40	1.87	117.67	5,006.94	-22.15	-6.08	-21.81	0.27	-0.04	-8.23

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:	ST01		
Design:	Plan #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
5,104.26	2.06	132.07	5,102.74	-24.04	-3.42	-23.83	0.55	0.20	15.02	
5,200.12	2.17	139.75	5,198.54	-26.57	-0.96	-26.49	0.32	0.11	8.01	
5,295.98	2.11	135.50	5,294.33	-29.22	1.45	-29.25	0.18	-0.06	-4.43	
5,391.84	1.75	135.59	5,390.14	-31.52	3.71	-31.67	0.38	-0.38	0.09	
5,487.70	1.69	140.30	5,485.95	-33.66	5.63	-33.90	0.16	-0.06	4.91	
5,583.56	1.61	151.86	5,581.77	-35.93	7.17	-36.25	0.36	-0.08	12.06	
5,679.42	1.82	143.78	5,677.59	-38.35	8.71	-38.75	0.33	0.22	-8.43	
5,775.28	1.89	158.84	5,773.40	-41.05	10.18	-41.52	0.51	0.07	15.71	
5,871.14	1.51	156.86	5,869.22	-43.68	11.24	-44.21	0.40	-0.40	-2.07	
5,967.00	1.65	136.95	5,965.04	-45.85	12.68	-46.45	0.59	0.15	-20.77	
6,062.86	1.73	145.69	6,060.86	-48.06	14.44	-48.74	0.28	0.08	9.12	
6,158.72	1.87	148.99	6,156.67	-50.59	16.06	-51.36	0.18	0.15	3.44	
6,254.58	1.87	154.89	6,252.48	-53.35	17.53	-54.19	0.20	0.00	6.15	
6,350.44	1.93	149.69	6,348.29	-56.16	19.01	-57.07	0.19	0.06	-5.42	
6,446.30	1.78	145.07	6,444.10	-58.77	20.68	-59.77	0.22	-0.16	-4.82	
6,542.16	1.72	150.41	6,539.92	-61.25	22.24	-62.32	0.18	-0.06	5.57	
6,638.02	1.91	154.24	6,635.73	-63.94	23.64	-65.08	0.24	0.20	4.00	
6,733.88	1.94	151.57	6,731.53	-66.80	25.11	-68.01	0.10	0.03	-2.79	
6,829.74	1.90	153.77	6,827.34	-69.65	26.59	-70.94	0.09	-0.04	2.30	
6,925.60	1.72	158.63	6,923.15	-72.42	27.81	-73.76	0.25	-0.19	5.07	
7,021.46	1.62	153.86	7,018.97	-74.98	28.93	-76.37	0.18	-0.10	-4.98	
7,117.32	1.73	165.31	7,114.79	-77.59	29.90	-79.04	0.37	0.11	11.94	
7,213.18	1.85	152.07	7,210.60	-80.36	30.99	-81.86	0.45	0.13	-13.81	
7,309.04	1.73	156.69	7,306.42	-83.05	32.29	-84.62	0.20	-0.13	4.82	
7,404.90	1.75	165.81	7,402.23	-85.80	33.22	-87.41	0.29	0.02	9.51	
7,500.76	1.85	152.85	7,498.05	-88.60	34.28	-90.26	0.44	0.10	-13.52	
7,596.62	1.71	164.66	7,593.86	-91.35	35.37	-93.06	0.41	-0.15	12.32	
7,692.48	1.38	153.16	7,689.69	-93.76	36.27	-95.52	0.47	-0.34	-12.00	
7,788.34	1.69	158.43	7,785.51	-96.11	37.31	-97.91	0.36	0.32	5.50	
7,884.20	1.63	160.54	7,881.33	-98.71	38.28	-100.56	0.09	-0.06	2.20	
7,980.06	1.80	156.22	7,977.15	-101.37	39.34	-103.27	0.22	0.18	-4.51	
8,075.92	1.80	162.41	8,072.96	-104.18	40.40	-106.14	0.20	0.00	6.46	
8,171.78	1.52	163.67	8,168.78	-106.84	41.22	-108.83	0.29	-0.29	1.31	
8,267.64	1.54	160.24	8,264.61	-109.27	42.01	-111.30	0.10	0.02	-3.58	
8,363.50	2.00	168.27	8,360.42	-112.12	42.79	-114.19	0.54	0.48	8.38	
8,459.36	2.05	184.68	8,456.22	-115.47	42.99	-117.54	0.61	0.05	17.12	
8,555.22	1.91	201.56	8,552.03	-118.66	42.26	-120.69	0.62	-0.15	17.61	
8,651.08	0.75	243.96	8,647.86	-120.42	41.11	-122.39	1.51	-1.21	44.23	
8,746.94	0.45	213.68	8,743.71	-121.01	40.34	-122.94	0.45	-0.31	-31.59	
8,842.80	1.03	266.83	8,839.57	-121.37	39.27	-123.25	0.88	0.61	55.45	
8,938.66	1.19	285.43	8,935.41	-121.16	37.45	-122.93	0.41	0.17	19.40	
9,034.52	1.36	274.34	9,031.25	-120.81	35.35	-122.48	0.31	0.18	-11.57	
9,130.38	0.76	255.28	9,127.09	-120.88	33.60	-122.46	0.72	-0.63	-19.88	
9,226.24	0.76	194.82	9,222.94	-121.66	32.83	-123.19	0.80	0.00	-63.07	
9,322.10	0.80	176.37	9,318.79	-122.94	32.71	-124.47	0.26	0.04	-19.25	
9,417.96	1.29	164.22	9,414.64	-124.65	33.04	-126.19	0.56	0.51	-12.67	
9,513.82	0.98	141.90	9,510.48	-126.33	33.84	-127.91	0.56	-0.32	-23.28	
9,609.68	0.97	123.92	9,606.33	-127.43	35.02	-129.07	0.32	-0.01	-18.76	
9,705.54	1.61	126.21	9,702.16	-128.68	36.78	-130.41	0.67	0.67	2.39	
9,801.40	2.00	141.65	9,797.97	-130.78	38.90	-132.62	0.65	0.41	16.11	
9,897.26	1.64	168.92	9,893.79	-133.44	40.21	-135.35	0.97	-0.38	28.45	
9,993.12	1.79	167.34	9,989.60	-136.25	40.80	-138.18	0.16	0.16	-1.65	
10,088.98	2.21	171.64	10,085.40	-139.54	41.39	-141.49	0.46	0.44	4.49	
10,184.84	1.85	177.47	10,181.20	-142.91	41.73	-144.88	0.43	-0.38	6.08	

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:	ST01		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,280.70	1.62	187.79	10,277.02	-145.80	41.62	-147.76	0.40	-0.24	10.77
10,376.56	1.62	177.59	10,372.84	-148.50	41.49	-150.45	0.30	0.00	-10.64
10,472.42	1.63	183.62	10,468.66	-151.21	41.46	-153.16	0.18	0.01	6.29
10,568.28	1.89	174.47	10,564.48	-154.15	41.53	-156.09	0.40	0.27	-9.55
10,664.14	2.63	181.77	10,660.26	-157.92	41.61	-159.86	0.83	0.77	7.62
10,805.00	2.33	177.79	10,800.99	-164.01	41.62	-165.94	0.25	-0.21	-2.83
10,925.00	1.10	279.80	10,920.95	-166.25	40.58	-168.13	2.31	-1.02	85.01
10,957.00	4.20	344.60	10,952.92	-165.07	39.97	-166.92	12.07	9.69	202.50
10,988.00	8.40	353.30	10,983.73	-161.72	39.40	-163.55	13.86	13.55	28.06
11,020.00	12.40	354.70	11,015.20	-155.98	38.81	-157.78	12.52	12.50	4.37
11,051.00	14.90	356.50	11,045.32	-148.68	38.26	-150.47	8.18	8.06	5.81
11,083.00	16.80	357.70	11,076.10	-139.96	37.82	-141.73	6.02	5.94	3.75
11,114.00	18.40	357.70	11,105.65	-130.59	37.45	-132.36	5.16	5.16	0.00
11,146.00	20.30	357.00	11,135.84	-120.00	36.95	-121.75	5.98	5.94	-2.19
11,178.00	21.70	356.60	11,165.71	-108.55	36.31	-110.29	4.40	4.37	-1.25
11,209.00	23.20	356.80	11,194.36	-96.73	35.63	-98.45	4.84	4.84	0.65
11,241.00	25.40	357.70	11,223.53	-83.58	35.00	-85.28	6.97	6.87	2.81
11,273.00	27.30	358.70	11,252.20	-69.38	34.56	-71.08	6.10	5.94	3.12
11,304.00	28.80	358.20	11,279.56	-54.81	34.17	-56.51	4.90	4.84	-1.61
11,335.00	30.50	357.70	11,306.50	-39.49	33.62	-41.18	5.54	5.48	-1.61
11,367.00	33.40	356.80	11,333.65	-22.58	32.80	-24.25	9.18	9.06	-2.81
11,398.00	35.30	355.40	11,359.24	-5.13	31.60	-6.76	6.64	6.13	-4.52
11,430.00	37.50	354.70	11,385.00	13.79	29.96	12.22	7.00	6.87	-2.19
11,462.00	41.00	354.30	11,409.77	33.94	28.02	32.44	10.97	10.94	-1.25
11,494.00	43.70	353.80	11,433.42	55.38	25.78	53.97	8.50	8.44	-1.56
11,526.00	46.10	353.50	11,456.08	77.83	23.28	76.51	7.53	7.50	-0.94
11,557.00	49.50	353.30	11,476.90	100.63	20.64	99.43	10.98	10.97	-0.65
11,589.00	52.70	354.20	11,497.00	125.39	17.94	124.29	10.24	10.00	2.81
11,621.00	55.80	355.20	11,515.69	151.24	15.54	150.23	10.01	9.69	3.12
11,652.00	59.20	356.80	11,532.35	177.32	13.73	176.37	11.80	10.97	5.16
11,684.00	62.80	357.50	11,547.86	205.27	12.34	204.35	11.41	11.25	2.19
11,716.00	65.30	357.50	11,561.86	234.01	11.08	233.12	7.81	7.81	0.00
11,747.00	66.20	358.40	11,574.59	262.26	10.07	261.38	3.93	2.90	2.90
11,776.00	68.30	0.00	11,585.81	289.00	9.70	288.11	8.85	7.24	5.52
11,791.00	67.72	358.87	11,591.42	302.90	9.56	302.00	8.00	-3.85	-7.56
11,800.00	68.85	358.51	11,594.75	311.26	9.37	310.36	13.00	12.48	-3.91
11,825.00	71.97	357.56	11,603.14	334.80	8.56	333.91	13.00	12.50	-3.81
11,850.00	75.10	356.64	11,610.22	358.74	7.35	357.88	13.00	12.51	-3.67
11,875.00	78.23	355.75	11,615.99	383.01	5.74	382.20	13.00	12.53	-3.57
11,900.00	81.36	354.88	11,620.41	407.53	3.73	406.79	13.00	12.54	-3.49
11,925.00	84.50	354.02	11,623.49	432.22	1.33	431.57	13.00	12.55	-3.43
11,950.00	87.64	353.17	11,625.20	457.00	-1.45	456.46	13.00	12.55	-3.39
11,975.00	90.78	352.33	11,625.55	481.80	-4.61	481.39	13.00	12.55	-3.38
11,984.74	92.00	352.00	11,625.31	491.44	-5.93	491.09	13.00	12.55	-3.38
12,000.00	92.00	352.00	11,624.78	506.54	-8.06	506.28	0.00	0.00	0.00
12,100.00	92.00	352.00	11,621.29	605.51	-21.97	605.83	0.00	0.00	0.00
12,200.00	92.00	352.00	11,617.80	704.48	-35.87	705.39	0.00	0.00	0.00
12,300.00	92.00	352.00	11,614.31	803.44	-49.78	804.94	0.00	0.00	0.00
12,357.04	92.00	352.00	11,612.32	859.89	-57.72	861.73	0.00	0.00	0.00
12,400.00	91.35	352.57	11,611.06	902.45	-63.48	904.52	2.00	-1.51	1.32
12,489.90	90.00	353.75	11,610.00	991.70	-74.19	994.21	2.00	-1.51	1.32
12,500.00	90.00	353.75	11,610.00	1,001.74	-75.29	1,004.29	0.00	0.00	0.00
12,600.00	90.00	353.75	11,610.00	1,101.14	-86.18	1,104.13	0.00	0.00	0.00
12,700.00	90.00	353.75	11,610.00	1,200.55	-97.06	1,203.96	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:	ST01		
Design:	Plan #2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,800.00	90.00	353.75	11,610.00	1,299.95	-107.95	1,303.80	0.00	0.00	0.00
12,900.00	90.00	353.75	11,610.00	1,399.36	-118.84	1,403.64	0.00	0.00	0.00
13,000.00	90.00	353.75	11,610.00	1,498.76	-129.72	1,503.47	0.00	0.00	0.00
13,100.00	90.00	353.75	11,610.00	1,598.17	-140.61	1,603.31	0.00	0.00	0.00
13,200.00	90.00	353.75	11,610.00	1,697.57	-151.50	1,703.14	0.00	0.00	0.00
13,300.00	90.00	353.75	11,610.00	1,796.98	-162.38	1,802.98	0.00	0.00	0.00
13,400.00	90.00	353.75	11,610.00	1,896.39	-173.27	1,902.82	0.00	0.00	0.00
13,500.00	90.00	353.75	11,610.00	1,995.79	-184.16	2,002.65	0.00	0.00	0.00
13,600.00	90.00	353.75	11,610.00	2,095.20	-195.04	2,102.49	0.00	0.00	0.00
13,639.90	90.00	353.75	11,610.00	2,134.86	-199.39	2,142.33	0.00	0.00	0.00
13,700.00	90.00	354.95	11,610.00	2,194.67	-205.30	2,202.36	2.00	0.00	2.00
13,800.00	90.00	356.95	11,610.00	2,294.41	-212.36	2,302.33	2.00	0.00	2.00
13,900.00	90.00	358.95	11,610.00	2,394.34	-215.94	2,402.32	2.00	0.00	2.00
13,922.70	90.00	359.41	11,610.00	2,417.04	-216.26	2,425.00	2.00	0.00	2.00
14,000.00	90.00	359.41	11,610.00	2,494.34	-217.06	2,502.23	0.00	0.00	0.00
14,100.00	90.00	359.41	11,610.00	2,594.33	-218.10	2,602.15	0.00	0.00	0.00
14,200.00	90.00	359.41	11,610.00	2,694.33	-219.14	2,702.06	0.00	0.00	0.00
14,300.00	90.00	359.41	11,610.00	2,794.32	-220.17	2,801.98	0.00	0.00	0.00
14,400.00	90.00	359.41	11,610.00	2,894.32	-221.21	2,901.89	0.00	0.00	0.00
14,500.00	90.00	359.41	11,610.00	2,994.31	-222.25	3,001.80	0.00	0.00	0.00
14,600.00	90.00	359.41	11,610.00	3,094.31	-223.28	3,101.72	0.00	0.00	0.00
14,700.00	90.00	359.41	11,610.00	3,194.30	-224.32	3,201.63	0.00	0.00	0.00
14,800.00	90.00	359.41	11,610.00	3,294.29	-225.36	3,301.55	0.00	0.00	0.00
14,900.00	90.00	359.41	11,610.00	3,394.29	-226.39	3,401.46	0.00	0.00	0.00
15,000.00	90.00	359.41	11,610.00	3,494.28	-227.43	3,501.37	0.00	0.00	0.00
15,100.00	90.00	359.41	11,610.00	3,594.28	-228.47	3,601.29	0.00	0.00	0.00
15,200.00	90.00	359.41	11,610.00	3,694.27	-229.50	3,701.20	0.00	0.00	0.00
15,300.00	90.00	359.41	11,610.00	3,794.27	-230.54	3,801.12	0.00	0.00	0.00
15,400.00	90.00	359.41	11,610.00	3,894.26	-231.58	3,901.03	0.00	0.00	0.00
15,500.00	90.00	359.41	11,610.00	3,994.26	-232.61	4,000.94	0.00	0.00	0.00
15,600.00	90.00	359.41	11,610.00	4,094.25	-233.65	4,100.86	0.00	0.00	0.00
15,700.00	90.00	359.41	11,610.00	4,194.25	-234.69	4,200.77	0.00	0.00	0.00
15,800.00	90.00	359.41	11,610.00	4,294.24	-235.72	4,300.69	0.00	0.00	0.00
15,900.00	90.00	359.41	11,610.00	4,394.24	-236.76	4,400.60	0.00	0.00	0.00
16,000.00	90.00	359.41	11,610.00	4,494.23	-237.80	4,500.51	0.00	0.00	0.00
16,106.54	90.00	359.41	11,610.00	4,600.76	-238.90	4,606.96	0.00	0.00	0.00
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	32.269137	-103.741488
- plan hits target center										
- Point										
PBHL (A26FC 8H)		0.00	0.00	11,610.00	4,600.76	-238.90	466,750.07	724,027.03	32.281786	-103.742179
- plan hits target center										
- Point										

DEVON ENERGY

Eddy County, NM (NAD-83)

Aldabra 26 Fed

8H

ST01

Plan #2

Anticollision Report

08 December, 2013

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:	ST01	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Reference	Plan #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.99 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	12/8/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
108.10	10,805.00	Survey #2 (OH)	NS-GYRO-MS	North sensing gyrocompassing m/s	
10,925.00	11,776.00	Survey #3 (OH)	LEAM MWD-ADJ	MWD - Standard	
11,776.00	16,106.30	Plan #2 (ST01)	LEAM MWD-ADJ	MWD - Standard	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Aldabra 26 Fed						
8H - OH - OH	11,776.00	11,776.00	0.00	0.00	10,000.000	CC
8H - OH - OH	11,780.44	11,780.44	0.03	-1.98	0.015	Level 1, SF
8H - OH - OH	11,791.00	11,790.99	0.35	-6.54	0.051	Level 1, ES

Offset Design		Aldabra 26 Fed - 8H - OH - OH							Offset Site Error:		0.00 usft		
Survey Program:		108-NS-GYRO-MS, 10925-LEAM MWD-ADJ							Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N-S (usft)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,776.00	11,585.81	11,776.00	11,585.81	0.00	0.00	0.00	289.00	9.70	0.00	0.00	0.00	N/A	CC
11,780.44	11,587.45	11,780.44	11,587.43	1.78	0.02	23.26	293.13	9.70	0.03	-1.98	2.01	0.015	Level 1, SF
11,791.00	11,591.42	11,790.99	11,591.12	6.00	0.10	23.55	303.01	9.70	0.35	-6.54	6.89	0.051	Level 1, ES
11,800.00	11,594.75	11,799.97	11,594.08	6.01	0.16	25.43	311.49	9.70	0.78	-5.86	6.64	0.117	Level 1
11,825.00	11,603.14	11,824.85	11,601.35	6.03	0.33	31.94	335.28	9.69	2.16	-3.75	5.91	0.366	Level 1
11,850.00	11,610.22	11,849.63	11,607.01	6.04	0.50	35.05	359.40	9.59	3.96	-1.42	5.39	0.736	Level 1
11,875.00	11,615.99	11,874.31	11,611.00	6.06	0.69	35.01	383.75	9.18	6.10	1.10	5.00	1.220	Level 2
11,900.00	11,620.41	11,899.09	11,613.77	6.08	0.89	35.13	408.35	8.33	8.12	3.53	4.59	1.769	
11,925.00	11,623.49	11,923.99	11,615.88	6.10	1.09	37.55	433.14	7.11	9.60	5.44	4.16	2.306	
11,950.00	11,625.20	11,948.82	11,617.71	6.11	1.30	44.15	457.86	5.76	10.44	6.60	3.84	2.718	
11,975.00	11,625.55	11,973.57	11,619.04	6.13	1.53	54.54	482.54	4.53	11.24	7.48	3.76	2.987	
11,984.74	11,625.31	11,983.23	11,619.47	6.14	1.62	59.61	492.18	4.06	11.60	7.78	3.82	3.037	
12,000.00	11,624.78	11,998.35	11,620.09	6.15	1.76	67.45	507.27	3.33	12.33	8.39	3.95	3.126	
12,100.00	11,621.29	12,097.63	11,622.45	6.22	2.73	93.02	606.41	-1.34	20.68	15.74	4.93	4.192	
12,200.00	11,617.80	12,196.97	11,623.75	6.31	3.77	100.91	705.66	-5.47	31.00	24.27	6.73	4.606	
12,300.00	11,614.31	12,296.48	11,624.86	6.47	4.84	104.60	805.07	-9.68	41.50	32.82	8.68	4.780	
12,357.04	11,612.32	12,352.89	11,625.26	6.62	5.49	105.65	861.44	-11.90	47.63	37.76	9.87	4.824	
12,400.00	11,611.06	12,395.53	11,625.26	6.77	6.01	105.74	904.06	-13.31	52.17	41.38	10.79	4.835	
12,489.90	11,610.00	12,485.20	11,624.56	7.22	7.12	104.07	993.68	-15.96	60.06	47.24	12.82	4.685	
12,500.00	11,610.00	12,495.31	11,624.44	7.29	7.25	103.78	1,003.79	-16.28	60.79	47.72	13.07	4.650	
12,600.00	11,610.00	12,595.83	11,623.09	8.14	8.51	101.19	1,104.22	-19.99	67.54	51.89	15.65	4.316	
12,700.00	11,610.00	12,696.69	11,621.88	9.23	9.79	99.38	1,204.94	-25.19	72.98	54.71	18.27	3.995	

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:	ST01	Database:	EDM 5000.1 Single User Db
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design: Aldabra 26 Fed - 8H - OH - OH										Offset Site Error: 0.00 usft			
Survey Program: 108-NS-GYRO-MS-10925-LEAM-MWD-ADJ										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
12,800.00	11,610.00	12,796.63	11,621.22	10.47	11.11	98.34	1,304.69	-31.43	77.48	56.53	20.95	3.698	
12,900.00	11,610.00	12,896.67	11,620.69	11.79	12.46	97.48	1,404.54	-37.54	82.16	58.44	23.71	3.465	
13,000.00	11,610.00	12,997.12	11,621.40	13.19	13.80	97.59	1,504.76	-44.33	86.36	59.90	26.47	3.263	
13,100.00	11,610.00	13,096.97	11,623.61	14.63	15.16	98.69	1,604.31	-51.63	90.23	61.03	29.20	3.090	
13,200.00	11,610.00	13,196.24	11,626.94	16.11	16.53	100.33	1,703.28	-58.67	94.54	62.64	31.90	2.964	
13,300.00	11,610.00	13,297.10	11,631.15	17.64	17.98	102.37	1,803.77	-66.12	98.79	64.19	34.60	2.855	
13,400.00	11,610.00	13,397.24	11,635.21	19.19	19.52	104.25	1,903.51	-74.15	102.52	65.17	37.36	2.744	
13,500.00	11,610.00	13,498.20	11,637.43	20.77	21.12	105.05	2,004.10	-82.46	105.66	65.35	40.31	2.621	
13,600.00	11,610.00	13,598.80	11,638.18	22.37	22.73	105.13	2,104.31	-91.21	107.97	64.56	43.41	2.487	
13,639.90	11,610.00	13,638.69	11,638.19	23.01	23.37	105.02	2,144.05	-94.70	108.80	64.12	44.69	2.435	
13,700.00	11,610.00	13,698.90	11,637.92	23.95	24.34	104.78	2,204.03	-99.90	109.44	62.92	46.52	2.353	
13,800.00	11,610.00	13,798.99	11,638.72	25.45	25.92	105.50	2,303.69	-109.17	107.52	58.32	49.20	2.185	
13,900.00	11,610.00	13,898.65	11,639.37	26.94	27.52	106.66	2,402.96	-117.96	102.64	50.95	51.69	1.986	
13,922.70	11,610.00	13,921.54	11,639.36	27.28	27.90	106.94	2,425.76	-119.99	101.02	48.77	52.25	1.934	
14,000.00	11,610.00	14,000.06	11,638.90	28.47	29.19	107.85	2,503.92	-127.43	94.67	40.28	54.38	1.741	
14,063.31	11,610.00	14,055.00	11,638.52	29.49	30.09	108.72	2,558.51	-133.59	88.84	32.88	55.96	1.588	
14,100.00	11,610.00	14,055.00	11,638.52	30.07	30.09	108.72	2,558.51	-133.59	96.12	39.59	56.53	1.700	
14,200.00	11,610.00	14,055.00	11,638.52	31.69	30.09	108.72	2,558.51	-133.59	163.03	104.93	58.10	2.806	
14,300.00	11,610.00	14,055.00	11,638.52	33.33	30.09	108.72	2,558.51	-133.59	252.82	193.14	59.68	4.236	
14,400.00	11,610.00	14,055.00	11,638.52	34.98	30.09	108.72	2,558.51	-133.59	348.22	288.95	61.27	5.684	
14,500.00	11,610.00	14,055.00	11,638.52	36.64	30.09	108.72	2,558.51	-133.59	445.64	382.78	62.86	7.089	
14,600.00	11,610.00	14,055.00	11,638.52	38.31	30.09	108.72	2,558.51	-133.59	544.00	479.53	64.47	8.438	
14,700.00	11,610.00	14,055.00	11,638.52	39.99	30.09	108.72	2,558.51	-133.59	642.86	576.78	66.08	9.728	
14,800.00	11,610.00	14,055.00	11,638.52	41.68	30.09	108.72	2,558.51	-133.59	742.03	674.32	67.71	10.960	
14,900.00	11,610.00	14,055.00	11,638.52	43.38	30.09	108.72	2,558.51	-133.59	841.40	772.06	69.33	12.135	
15,000.00	11,610.00	14,055.00	11,638.52	45.08	30.09	108.72	2,558.51	-133.59	940.90	869.93	70.97	13.258	
15,100.00	11,610.00	14,055.00	11,638.52	46.79	30.09	108.72	2,558.51	-133.59	1,040.49	967.88	72.61	14.330	
15,200.00	11,610.00	14,055.00	11,638.52	48.51	30.09	108.72	2,558.51	-133.59	1,140.16	1,065.91	74.25	15.355	
15,300.00	11,610.00	14,055.00	11,638.52	50.24	30.09	108.72	2,558.51	-133.59	1,239.88	1,163.98	75.90	16.335	
15,400.00	11,610.00	14,055.00	11,638.52	51.96	30.09	108.72	2,558.51	-133.59	1,339.64	1,262.08	77.56	17.273	
15,500.00	11,610.00	14,055.00	11,638.52	53.70	30.09	108.72	2,558.51	-133.59	1,439.44	1,360.22	79.22	18.171	
15,600.00	11,610.00	14,055.00	11,638.52	55.44	30.09	108.72	2,558.51	-133.59	1,539.26	1,458.38	80.88	19.031	
15,700.00	11,610.00	14,055.00	11,638.52	57.18	30.09	108.72	2,558.51	-133.59	1,639.10	1,556.56	82.55	19.856	
15,800.00	11,610.00	14,055.00	11,638.52	58.93	30.09	108.72	2,558.51	-133.59	1,738.96	1,654.75	84.22	20.648	
15,900.00	11,610.00	14,055.00	11,638.52	60.68	30.09	108.72	2,558.51	-133.59	1,838.84	1,752.95	85.89	21.409	
16,000.00	11,610.00	14,055.00	11,638.52	62.43	30.09	108.72	2,558.51	-133.59	1,938.73	1,851.16	87.57	22.140	
16,106.54	11,610.00	14,055.00	11,638.52	64.31	30.09	108.72	2,558.51	-133.59	2,045.16	1,955.80	89.36	22.887	

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