

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCD Artesia
JUL 15 2013

NMOCD 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.

NMLC029358; NM 0107697

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well



Oil Well



Gas Well



Other

8. Well Name and No.

Mimosa 24 Fed Com 2H

2. Name of Operator

DEVON ENERGY PRODUCTION COMPANY, LP

9. API Well No.

30-015-40947

3a. Address

333 WEST SHERIDAN, OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

405-235-3611

10. Field and Pool, or Exploratory

Lusk; Bone Spring West

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

1045 FNL 190 FWL

24 19S 31E

1669 FNL 340 FEL

PP: 1045 FNL & 190 FWL

11. County or Parish, State

Eddy, 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 <u>Production Csg Change APD</u>
	☐ Change Plans ☐ Plug and Abandon ☐ Temporary Abandon
	☐ Convert to Injection ☐ Plug Back ☐ Water Disposal

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal deepen directionally or recompletes 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 must be filed within 30 days following the completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must 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 Co. L.P. respectfully requests to make the following changes on the APD Production string removing the LTC connections due to the increased tortuosity as follow:

Hole Size	Hole Interval	OD Csg	Csg Interval	Wt	Collar	Grade
8 3/4"	From 4275-8432' to	5.5"	From 0-8462' to	17#	From LTC to	HCP-110
8 3/4"	4275-14,693'	5.5"	0-14,693'	17#	BTC	HCP-110

Casing Design Factors

Csg Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
5.5" 17# BTC	1.98	from 2.46 - 2.45	from 6.22 - 5.63

Cement volumes will be adjusted with the caliper results.

Only change 1st Stage tail as follows:

Tail: 1515 sx (50:50) Poz (Fly Ash):CI H + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 0.5% bwoc FL-52 + 0.45% bwoc Sodium Metasilicate + 57.2% FW, 14.2 ppg, 1.28 cf/sx.

(Attached is the revised C-102; Directional Survey; Anti-Collision Report)

Accepted for record

NMOCD 7/15/2013

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

Name (Printed/Typed)

Judy A. Barnett x8699

Title

Regulatory Specialist

Signature

Date

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

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 to any matter within its jurisdiction.

(Instructions on page 2)

APPROVED

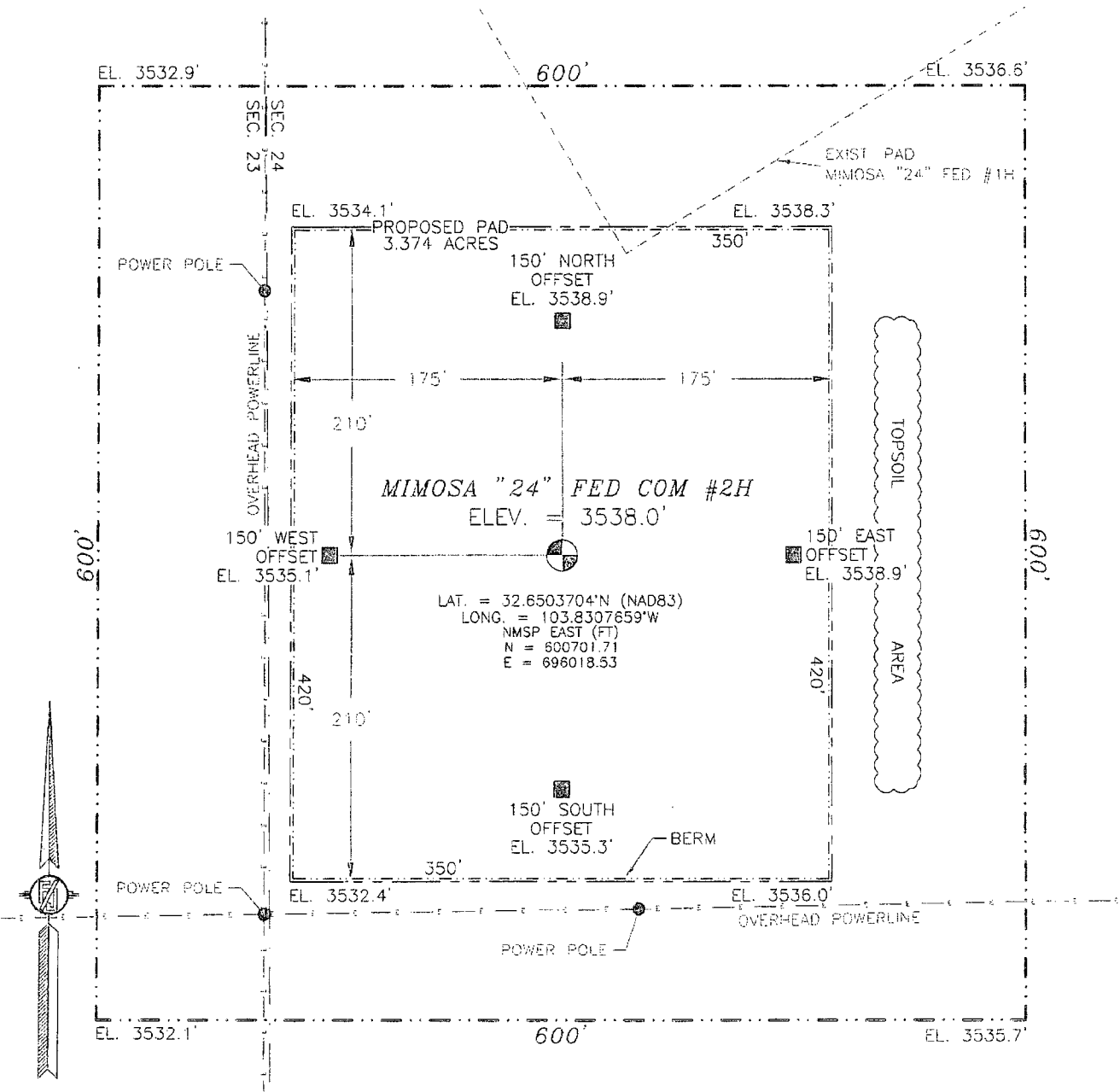
JUL 2 2013

Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

☐ AMENDED REPORT[illegible]

SECTION 24, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200

SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR 222 (SHUGART ROAD) AND CR 248 (LUSK PLANT ROAD) GO SOUTHEAST ON CR 248 1.8 MILES TURN RIGHT ON CALICHE ROAD 0.27 MILES. SITE IS ABOUT 800 FT LEFT (EAST).

DEVON ENERGY PRODUCTION COMPANY, L.P.

MIMOSA "24" FED COM #2H

LOCATED 1045 FT. FROM THE NORTH LINE
AND 190 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

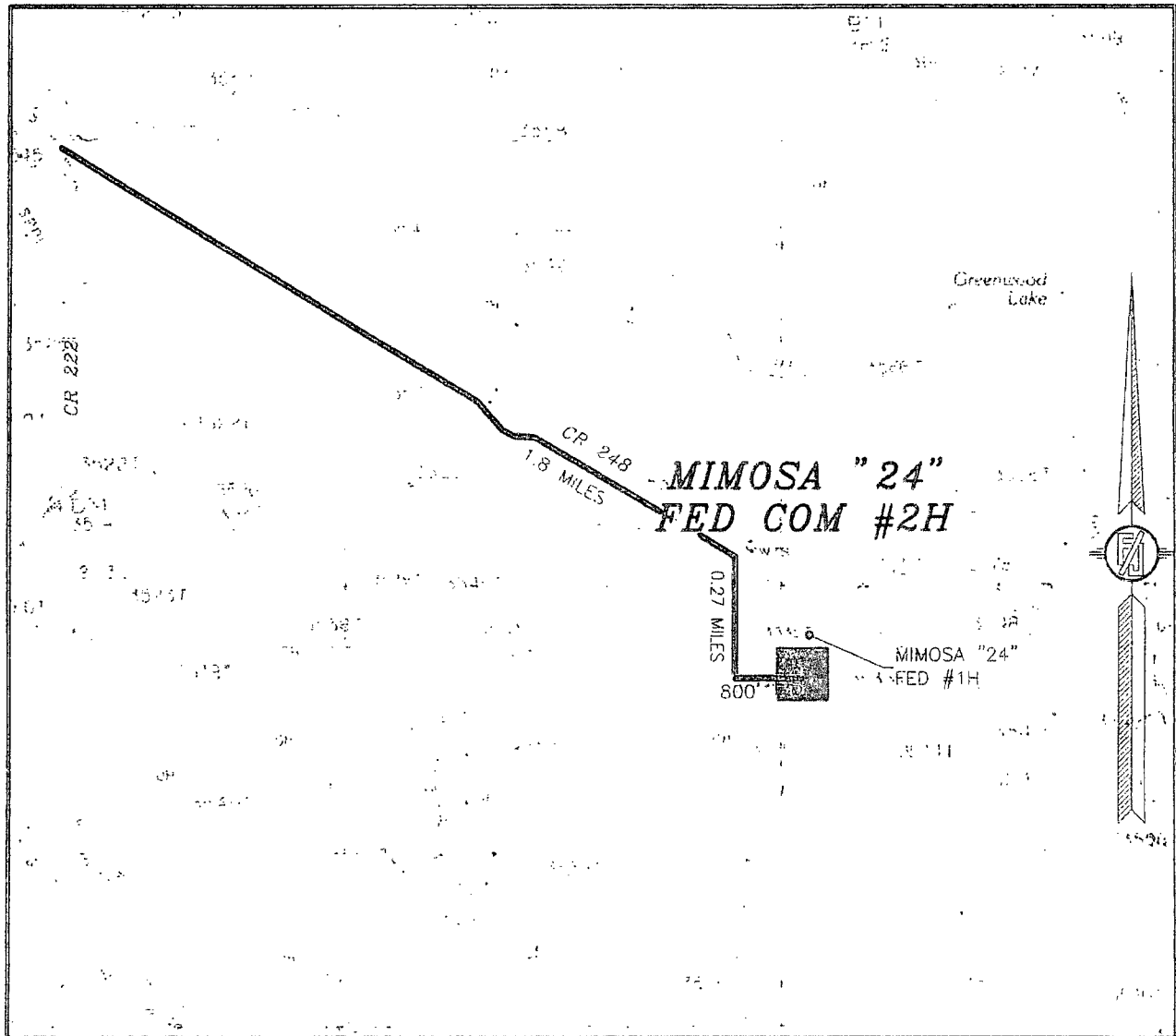
JUNE 25, 2013

SURVEY NO. 10464.

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 234-3341

501 SOUTH CANAL
(5/5) 234-3341

SECTION 24, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
LOCATION VERIFICATION MAP



USGS QUAD MAP:
GREENWOOD LAKE, NM

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

MIMOSA "24" FED COM #2H

LOCATED 1045 FT. FROM THE NORTH LINE
AND 190 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

DIRECTIONS TO LOCATION

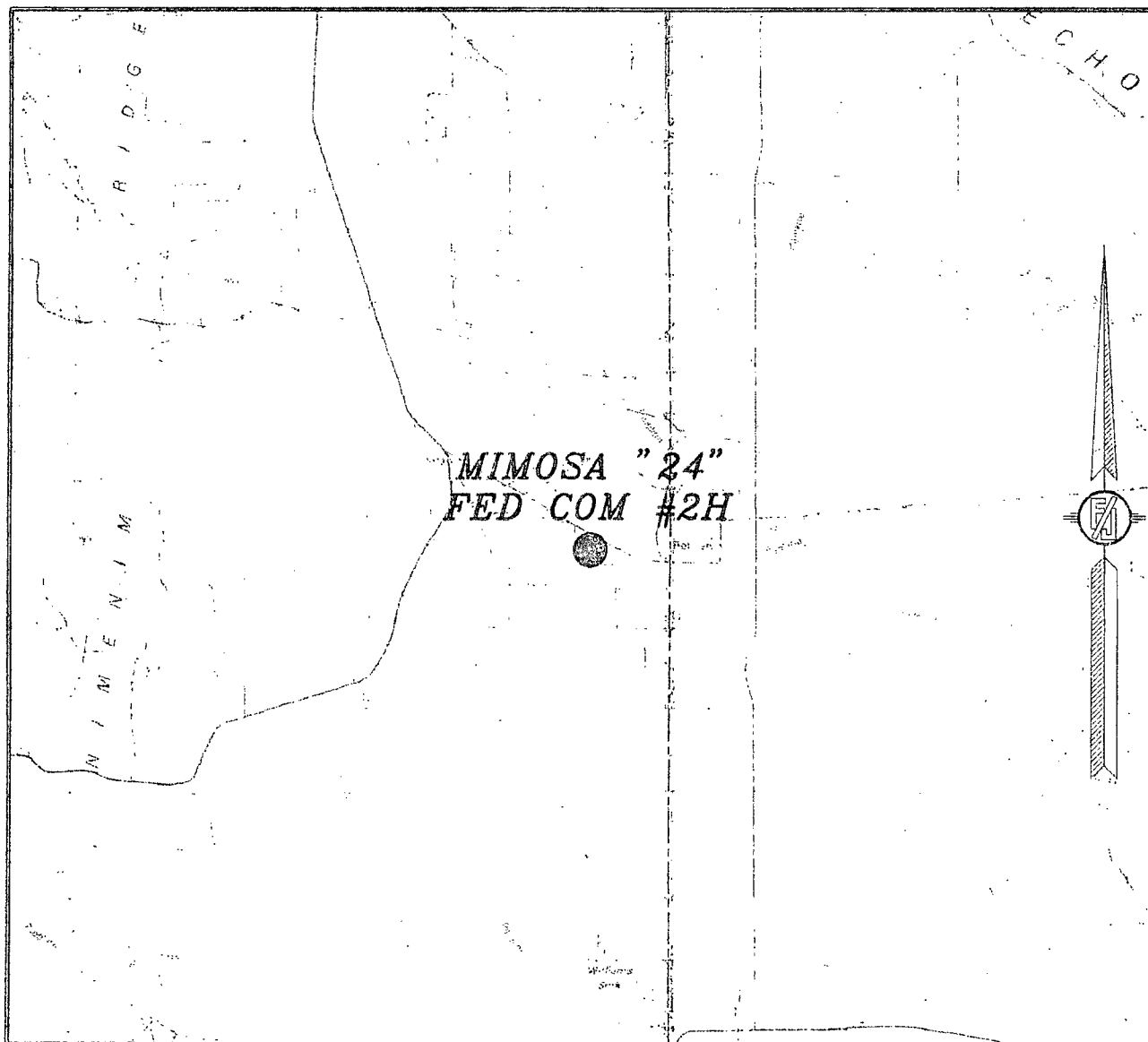
FROM THE INTERSECTION OF CR 222 (SHUGART ROAD) AND CR 248 (LUSK PLANT ROAD) GO SOUTHEAST ON CR 248 1.8 MILES TURN RIGHT ON CALICHE ROAD 0.27 MILES. SITE IS ABOUT 800 FT LEFT (EAST).

JUNE 25, 2013

SURVEY NO. 1046A

MADRON SURVEYING, INC. 30' SOUTH-CANAL (375) 234-3341 CARLSBAD, NEW MEXICO

SECTION 24, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

MIMOSA "24" FED COM #2H

LOCATED 1045 FT. FROM THE NORTH LINE
AND 190 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 25, 2013

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SURVEY NO. 1046A

SECTION 24, TOWNSHIP 19 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL PHOTO

MIMOSA "24"
FED COM #2H



MIMOSA "24"
FED #1H

BOTTOM OF HOLE



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
MARCH, 2012

DEVON ENERGY PRODUCTION COMPANY, L.P.

MIMOSA "24" FED COM #2H

LOCATED 1045 FT. FROM THE NORTH LINE
AND 190 FT. FROM THE WEST LINE OF
SECTION 24, TOWNSHIP 19 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 25, 2013

SURVEY NO. 1046A

MADRON SURVEYING, INC. 501 SOUTH CANAL CARLSBAD, NEW MEXICO
(505) 234-3361

devon

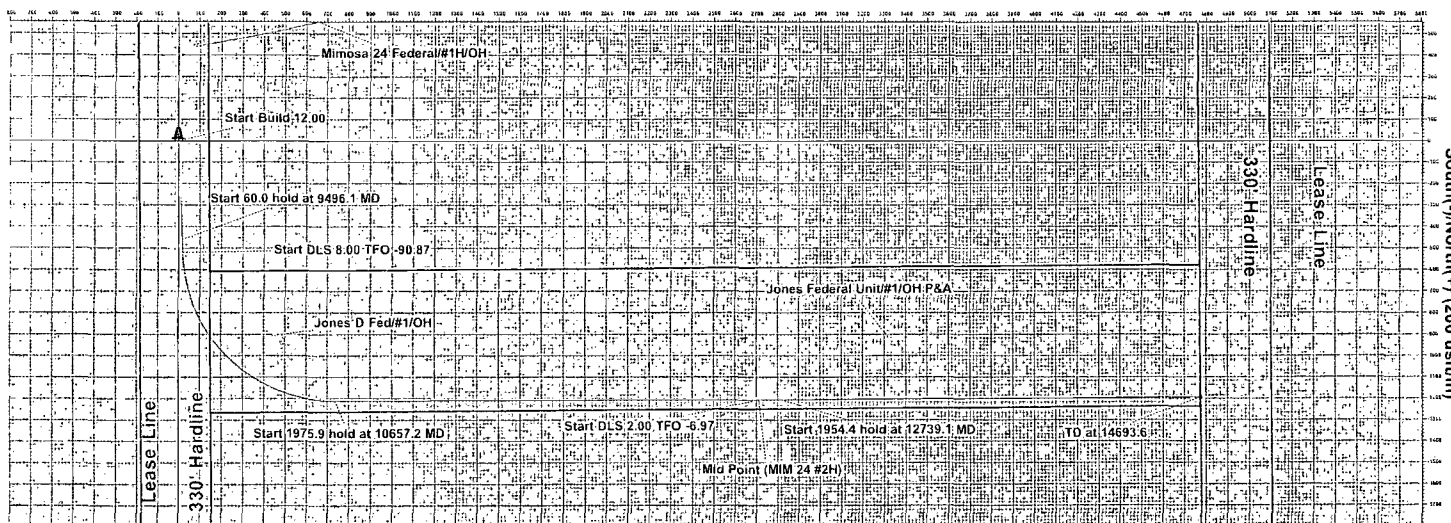
PROJECT DETAILS: Eddy County (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid

PATHFINDER

A Schlumberger Company

Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Plan: Plan #6 (#2H/OH)

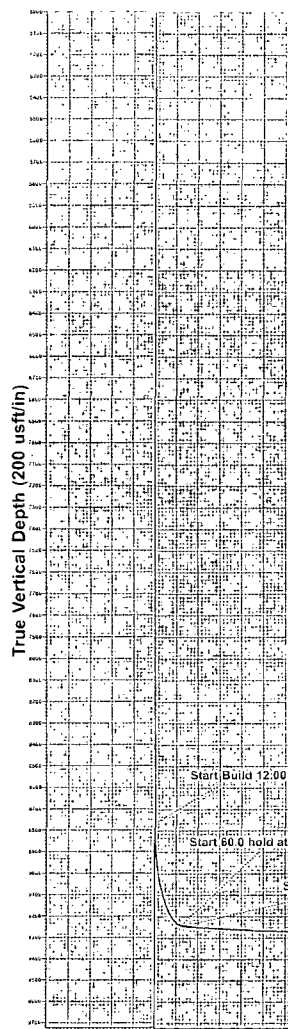
West(-)/East(+) (200 usft/in)



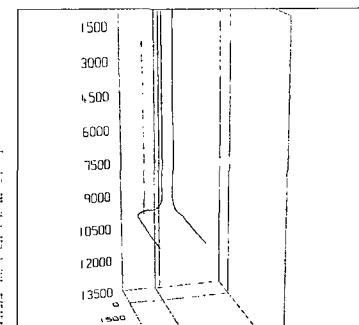
WELL DETAILS: #2H						
Ground Elevation: 3538.0						
RKB Elevation: KB = 26' @ 3564.0usft (H&P 300)						
Rig Name: H&P 300						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	600701.710	696018.530	32.650370	-103.830766	

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	8763.0	0.00	0.00	8763.0	0.0	0.0	0.00	0.00	0.0	
3	9496.1	88.00	178.00	9240.0	-460.4	15.1	12.00	178.00	127.3	
4	9556.1	88.00	178.00	9242.1	-520.3	18.2	0.00	0.00	143.9	
5	10657.2	89.06	89.88	9277.6	-1210.7	734.9	8.00	-90.87	1006.7	
6	12633.1	89.06	89.88	9310.0	-1206.6	2710.6	0.00	0.00	2922.3	Mid Point (MIM 24 #2H)
7	12739.1	91.17	89.62	9309.8	-1206.1	2816.6	2.00	-6.97	3025.1	
8	14693.6	91.17	89.62	9270.0	-1193.2	4770.6	0.00	0.00	4917.6	PBHL (MIM 24 #2H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL (MIM 24 #2H)	9270.0	-1193.2	4770.6	599508.470	700789.150	Point
Mid Point (MIM 24 #2H)	9310.0	-1206.6	2710.6	599495.153	698729.101	Point



Vertical Section at 104.04° (200 usft/in)



G
T **M** Azimuths to Grid North
True North: -0.27°
Magnetic North: 7.33°

Magnetic Field
Strength: 48783.9snT
Dip Angle: 60.54°
Date: 6/13/2012
Model: IGRF200510

Plan: Plan #6 (#2H/OH)
Created By: Michael Trout Date: 14:26, June 26 2013
Checked: _____ Date: _____



A Schlumberger Company

Devon Energy, Inc.

Eddy County (NAD83)

Mimosa 24 Federal

#2H

OH

Plan: Plan #6

Pathfinder X&Y Report

26 June, 2013





A Schlumberger Company

Pathfinder Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
MD Reference: KB = 26' @ 3564.0usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Eddy County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Mimosa 24 Federal		
Site Position:		Northing:	601,165.150 usft
From:	Map	Easting:	696,100.350 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.651643
		Longitude:	-103.830493
		Grid Convergence:	0.27 °

Well	#2H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32.650370
		Longitude:	-103.830766
		Ground Level:	3,538.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	6/13/2012	(°)
			7.61
		Dip Angle	(°)
		60.54	
		Field Strength	(nT)
		48.784	

Design	Plan #6		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			104.04

Survey Tool Program	Date	6/26/2013		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.0	14,693.6	Plan #6 (OH)	Pathfinder	Pathfinder MWD



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
0.0	0.00	0.00	0.0	-3,564.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
100.0	0.00	0.00	100.0	-3,464.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
200.0	0.00	0.00	200.0	-3,364.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
300.0	0.00	0.00	300.0	-3,264.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
400.0	0.00	0.00	400.0	-3,164.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
500.0	0.00	0.00	500.0	-3,064.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
600.0	0.00	0.00	600.0	-2,964.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
650.0	0.00	0.00	650.0	-2,914.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Rustler										
700.0	0.00	0.00	700.0	-2,864.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
800.0	0.00	0.00	800.0	-2,764.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
900.0	0.00	0.00	900.0	-2,664.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Salado										
1,000.0	0.00	0.00	1,000.0	-2,564.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,100.0	0.00	0.00	1,100.0	-2,464.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,200.0	0.00	0.00	1,200.0	-2,364.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,300.0	0.00	0.00	1,300.0	-2,264.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,400.0	0.00	0.00	1,400.0	-2,164.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,500.0	0.00	0.00	1,500.0	-2,064.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,600.0	0.00	0.00	1,600.0	-1,964.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,700.0	0.00	0.00	1,700.0	-1,864.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,800.0	0.00	0.00	1,800.0	-1,764.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1,900.0	0.00	0.00	1,900.0	-1,664.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,000.0	0.00	0.00	2,000.0	-1,564.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,100.0	0.00	0.00	2,100.0	-1,464.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,200.0	0.00	0.00	2,200.0	-1,364.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,275.0	0.00	0.00	2,275.0	-1,289.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53

Tansil Dolomite



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
MD Reference: KB = 26' @ 3564.0usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
2,300.0	0.00	0.00	2,300.0	-1,264.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,385.0	0.00	0.00	2,385.0	-1,179.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Yates										
2,400.0	0.00	0.00	2,400.0	-1,164.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,500.0	0.00	0.00	2,500.0	-1,064.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,600.0	0.00	0.00	2,600.0	-964.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Seven Rivers										
2,700.0	0.00	0.00	2,700.0	-864.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,715.0	0.00	0.00	2,715.0	-849.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Capitan										
2,800.0	0.00	0.00	2,800.0	-764.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2,900.0	0.00	0.00	2,900.0	-664.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,000.0	0.00	0.00	3,000.0	-564.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,100.0	0.00	0.00	3,100.0	-464.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,200.0	0.00	0.00	3,200.0	-364.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,300.0	0.00	0.00	3,300.0	-264.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,400.0	0.00	0.00	3,400.0	-164.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,500.0	0.00	0.00	3,500.0	-64.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,600.0	0.00	0.00	3,600.0	36.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,700.0	0.00	0.00	3,700.0	136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,800.0	0.00	0.00	3,800.0	236.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,900.0	0.00	0.00	3,900.0	336.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
3,915.0	0.00	0.00	3,915.0	351.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
B/Capitan										
4,000.0	0.00	0.00	4,000.0	436.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,100.0	0.00	0.00	4,100.0	536.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,200.0	0.00	0.00	4,200.0	636.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,300.0	0.00	0.00	4,300.0	736.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Design: Plan #6

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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
4,400.0	0.00	0.00	4,400.0	836.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,500.0	0.00	0.00	4,500.0	936.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,565.0	0.00	0.00	4,565.0	1,001.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Delaware										
4,600.0	0.00	0.00	4,600.0	1,036.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,700.0	0.00	0.00	4,700.0	1,136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,800.0	0.00	0.00	4,800.0	1,236.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
4,900.0	0.00	0.00	4,900.0	1,336.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,000.0	0.00	0.00	5,000.0	1,436.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,100.0	0.00	0.00	5,100.0	1,536.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,200.0	0.00	0.00	5,200.0	1,636.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,300.0	0.00	0.00	5,300.0	1,736.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,400.0	0.00	0.00	5,400.0	1,836.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,500.0	0.00	0.00	5,500.0	1,936.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,600.0	0.00	0.00	5,600.0	2,036.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,700.0	0.00	0.00	5,700.0	2,136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,800.0	0.00	0.00	5,800.0	2,236.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
5,900.0	0.00	0.00	5,900.0	2,336.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,000.0	0.00	0.00	6,000.0	2,436.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,100.0	0.00	0.00	6,100.0	2,536.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,200.0	0.00	0.00	6,200.0	2,636.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,300.0	0.00	0.00	6,300.0	2,736.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,400.0	0.00	0.00	6,400.0	2,836.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,500.0	0.00	0.00	6,500.0	2,936.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,600.0	0.00	0.00	6,600.0	3,036.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,700.0	0.00	0.00	6,700.0	3,136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
6,800.0	0.00	0.00	6,800.0	3,236.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53



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Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
6,900.0	0.00	0.00	6,900.0	3,336.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,000.0	0.00	0.00	7,000.0	3,436.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,020.0	0.00	0.00	7,020.0	3,456.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
Bone Spring										
7,100.0	0.00	0.00	7,100.0	3,536.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,200.0	0.00	0.00	7,200.0	3,636.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,300.0	0.00	0.00	7,300.0	3,736.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,400.0	0.00	0.00	7,400.0	3,836.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,500.0	0.00	0.00	7,500.0	3,936.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,600.0	0.00	0.00	7,600.0	4,036.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,700.0	0.00	0.00	7,700.0	4,136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,800.0	0.00	0.00	7,800.0	4,236.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
7,900.0	0.00	0.00	7,900.0	4,336.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,000.0	0.00	0.00	8,000.0	4,436.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,100.0	0.00	0.00	8,100.0	4,536.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,200.0	0.00	0.00	8,200.0	4,636.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,300.0	0.00	0.00	8,300.0	4,736.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,320.0	0.00	0.00	8,320.0	4,756.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
1st Bone Spring Ss										
8,400.0	0.00	0.00	8,400.0	4,836.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,500.0	0.00	0.00	8,500.0	4,936.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,600.0	0.00	0.00	8,600.0	5,036.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,630.0	0.00	0.00	8,630.0	5,066.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
2nd Bone Spring Lime										
8,700.0	0.00	0.00	8,700.0	5,136.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,763.0	0.00	0.00	8,763.0	5,199.0	0.0	0.0	0.0	0.00	600,701.71	696,018.53
8,775.0	1.44	178.00	8,775.0	5,211.0	-0.2	0.0	0.0	12.00	600,701.56	696,018.54
8,800.0	4.44	178.00	8,800.0	5,236.0	-1.4	0.1	0.4	12.00	600,700.28	696,018.58



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Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
8,825.0	7.44	178.00	8,824.8	5,260.8	-4.0	0.1	1.1	12.00	600,697.69	696,018.67
8,850.0	10.44	178.00	8,849.5	5,285.5	-7.9	0.3	2.2	12.00	600,693.81	696,018.81
8,875.0	13.44	178.00	8,874.0	5,310.0	-13.1	0.5	3.6	12.00	600,688.64	696,018.99
8,900.0	16.45	178.00	8,898.1	5,334.1	-19.5	0.7	5.4	12.00	600,682.19	696,019.21
8,925.0	19.45	178.00	8,921.9	5,357.9	-27.2	1.0	7.5	12.00	600,674.50	696,019.48
8,950.0	22.45	178.00	8,945.3	5,381.3	-36.1	1.3	10.0	12.00	600,665.57	696,019.79
8,975.0	25.45	178.00	8,968.1	5,404.1	-46.3	1.6	12.8	12.00	600,655.42	696,020.15
9,000.0	28.45	178.00	8,990.4	5,426.4	-57.6	2.0	15.9	12.00	600,644.10	696,020.54
9,025.0	31.45	178.00	9,012.0	5,448.0	-70.1	2.4	19.4	12.00	600,631.63	696,020.98
9,050.0	34.45	178.00	9,033.0	5,469.0	-83.7	2.9	23.1	12.00	600,618.04	696,021.45
9,052.4	34.74	178.00	9,035.0	5,471.0	-85.0	3.0	23.5	12.00	600,616.67	696,021.50
2nd Bone Spring Ss										
9,075.0	37.45	178.00	9,053.2	5,489.2	-98.3	3.4	27.2	12.00	600,603.37	696,021.96
9,096.5	40.03	178.00	9,070.0	5,506.0	-111.8	3.9	30.9	12.00	600,589.94	696,022.43
2nd Bone Spring Upr Ss										
9,100.0	40.45	178.00	9,072.7	5,508.7	-114.0	4.0	31.5	12.00	600,587.67	696,022.51
9,125.0	43.46	178.00	9,091.3	5,527.3	-130.7	4.6	36.2	12.00	600,570.97	696,023.10
9,150.0	46.46	178.00	9,109.0	5,545.0	-148.4	5.2	41.0	12.00	600,553.32	696,023.71
9,175.0	49.46	178.00	9,125.7	5,561.7	-166.9	5.8	46.2	12.00	600,534.76	696,024.36
9,200.0	52.46	178.00	9,141.5	5,577.5	-186.4	6.5	51.5	12.00	600,515.36	696,025.04
9,225.0	55.46	178.00	9,156.2	5,592.2	-206.6	7.2	57.1	12.00	600,495.16	696,025.74
9,250.0	58.46	178.00	9,169.8	5,605.8	-227.5	7.9	62.9	12.00	600,474.22	696,026.47
9,275.0	61.46	178.00	9,182.3	5,618.3	-249.1	8.7	68.9	12.00	600,452.59	696,027.23
9,300.0	64.46	178.00	9,193.7	5,629.7	-271.4	9.5	75.0	12.00	600,430.34	696,028.01
9,303.1	64.84	178.00	9,195.0	5,631.0	-274.2	9.6	75.8	12.00	600,427.52	696,028.10
2nd Bone Spring Upr Ss Base										
9,325.0	67.46	178.00	9,203.8	5,639.8	-294.2	10.3	81.4	12.00	600,407.52	696,028.80



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Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
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9.328.0	67.83	178.00	9.205.0	5,641.0	-297.0	10.4	82.1	12.00	600,404.72	696,028.90
2nd Bone Spring Middle Ss										
9.350.0	70.47	178.00	9.212.8	5,648.8	-317.5	11.1	87.8	12.00	600,384.21	696,029.62
9.375.0	73.47	178.00	9.220.6	5,656.6	-341.3	11.9	94.4	12.00	600,360.45	696,030.45
9.400.0	76.47	178.00	9.227.0	5,663.0	-365.4	12.8	101.0	12.00	600,336.32	696,031.29
9.425.0	79.47	178.00	9.232.3	5,668.3	-389.8	13.6	107.8	12.00	600,311.89	696,032.14
9.450.0	82.47	178.00	9.236.2	5,672.2	-414.5	14.5	114.6	12.00	600,287.22	696,033.00
9.475.0	85.47	178.00	9.238.8	5,674.8	-439.3	15.3	121.5	12.00	600,262.37	696,033.87
9.496.1	88.00	178.00	9.240.0	5,676.0	-460.4	16.1	127.3	12.00	600,241.36	696,034.61
9.500.0	88.00	178.00	9.240.1	5,676.1	-464.3	16.2	128.4	0.00	600,237.43	696,034.74
9.556.1	88.00	178.00	9.242.1	5,678.1	-520.3	18.2	143.9	0.00	600,181.43	696,036.70
9.600.0	87.95	174.48	9.243.6	5,679.6	-564.1	21.0	157.3	8.00	600,137.62	696,039.58
9.650.0	87.90	170.48	9.245.5	5,681.5	-613.6	27.6	175.6	8.00	600,088.10	696,046.11
9.700.0	87.87	166.48	9.247.3	5,683.3	-662.6	37.6	197.2	8.00	600,039.15	696,056.09
9.750.0	87.84	162.48	9.249.2	5,685.2	-710.7	50.9	221.9	8.00	599,991.02	696,069.46
9.800.0	87.82	158.47	9.251.1	5,687.1	-757.8	67.6	249.5	8.00	599,943.93	696,086.15
9.850.0	87.82	154.47	9.253.0	5,689.0	-803.6	87.6	279.9	8.00	599,898.13	696,106.10
9.900.0	87.82	150.47	9.254.9	5,690.9	-847.9	110.7	313.1	8.00	599,853.84	696,129.19
9.950.0	87.84	146.46	9.256.8	5,692.8	-890.5	136.8	348.8	8.00	599,811.26	696,155.31
10.000.0	87.86	142.46	9.258.6	5,694.6	-931.1	165.8	386.8	8.00	599,770.61	696,184.35
10.050.0	87.90	138.46	9.260.5	5,696.5	-969.6	197.6	427.0	8.00	599,732.08	696,216.15
10.100.0	87.95	134.46	9.262.3	5,698.3	-1,005.8	232.0	469.2	8.00	599,695.87	696,250.56
10.150.0	88.01	130.45	9.264.1	5,700.1	-1,039.6	268.9	513.1	8.00	599,662.15	696,287.42
10.200.0	88.07	126.45	9.265.8	5,701.8	-1,070.6	308.0	558.6	8.00	599,631.08	696,326.55
10.250.0	88.15	122.45	9.267.4	5,703.4	-1,098.9	349.2	605.4	8.00	599,602.81	696,367.75
10.300.0	88.23	118.45	9.269.0	5,705.0	-1,124.2	392.3	653.4	8.00	599,577.49	696,410.82
10.350.0	88.33	114.45	9.270.5	5,706.5	-1,146.5	437.0	702.2	8.00	599,555.24	696,455.56



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10,400.0	88.43	110.45	9,271.9	5,707.9	-1,165.6	483.2	751.6	8.00	599,536.15	696,501.74
10,450.0	88.54	106.45	9,273.2	5,709.2	-1,181.4	530.6	801.4	8.00	599,520.34	696,549.14
10,500.0	88.65	102.45	9,274.5	5,710.5	-1,193.8	579.0	851.4	8.00	599,507.87	696,597.54
10,550.0	88.78	98.45	9,275.6	5,711.6	-1,202.9	628.2	901.3	8.00	599,498.81	696,646.69
10,600.0	88.91	94.45	9,276.6	5,712.6	-1,208.5	677.8	950.8	8.00	599,493.19	696,696.35
10,650.0	89.04	90.45	9,277.5	5,713.5	-1,210.7	727.8	999.8	8.00	599,491.05	696,746.29
10,657.2	89.06	89.88	9,277.6	5,713.6	-1,210.7	734.9	1,006.7	8.00	599,491.03	696,753.45
10,700.0	89.06	89.88	9,278.3	5,714.3	-1,210.6	777.7	1,048.3	0.00	599,491.12	696,796.28
10,800.0	89.06	89.88	9,280.0	5,716.0	-1,210.4	877.7	1,145.2	0.00	599,491.33	696,896.27
10,900.0	89.06	89.88	9,281.6	5,717.6	-1,210.2	977.7	1,242.1	0.00	599,491.54	696,996.25
11,000.0	89.06	89.88	9,283.2	5,719.2	-1,210.0	1,077.7	1,339.1	0.00	599,491.75	697,096.24
11,100.0	89.06	89.88	9,284.9	5,720.9	-1,209.8	1,177.7	1,436.0	0.00	599,491.95	697,196.22
11,200.0	89.06	89.88	9,286.5	5,722.5	-1,209.5	1,277.7	1,533.0	0.00	599,492.16	697,296.21
11,300.0	89.06	89.88	9,288.2	5,724.2	-1,209.3	1,377.7	1,629.9	0.00	599,492.37	697,396.20
11,400.0	89.06	89.88	9,289.8	5,725.8	-1,209.1	1,477.7	1,726.9	0.00	599,492.58	697,496.18
11,500.0	89.06	89.88	9,291.4	5,727.4	-1,208.9	1,577.6	1,823.8	0.00	599,492.79	697,596.17
11,600.0	89.06	89.88	9,293.1	5,729.1	-1,208.7	1,677.6	1,920.8	0.00	599,493.00	697,696.16
11,700.0	89.06	89.88	9,294.7	5,730.7	-1,208.5	1,777.6	2,017.7	0.00	599,493.21	697,796.14
11,800.0	89.06	89.88	9,296.3	5,732.3	-1,208.3	1,877.6	2,114.7	0.00	599,493.41	697,896.13
11,900.0	89.06	89.88	9,298.0	5,734.0	-1,208.1	1,977.6	2,211.6	0.00	599,493.62	697,996.12
12,000.0	89.06	89.88	9,299.6	5,735.6	-1,207.9	2,077.6	2,308.6	0.00	599,493.83	698,096.10
12,100.0	89.06	89.88	9,301.3	5,737.3	-1,207.7	2,177.6	2,405.5	0.00	599,494.04	698,196.09
12,200.0	89.06	89.88	9,302.9	5,738.9	-1,207.5	2,277.5	2,502.5	0.00	599,494.25	698,296.07
12,300.0	89.06	89.88	9,304.5	5,740.5	-1,207.3	2,377.5	2,599.4	0.00	599,494.46	698,396.06
12,400.0	89.06	89.88	9,306.2	5,742.2	-1,207.0	2,477.5	2,696.4	0.00	599,494.67	698,496.05
12,500.0	89.06	89.88	9,307.8	5,743.8	-1,206.8	2,577.5	2,793.3	0.00	599,494.88	698,596.03
12,600.0	89.06	89.88	9,309.5	5,745.5	-1,206.6	2,677.5	2,890.3	0.00	599,495.08	698,696.02



A Schlumberger Company

Pathfinder

Pathfinder X&Y Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Site: Mimosa 24 Federal
Well: #2H
Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
MD Reference: KB = 26' @ 3564.0usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
12,633.1	89.06	89.88	9,310.0	5,746.0	-1,206.6	2,710.6	2,922.3	0.00	599,495.15	698,729.10
Mid Point (MIM 24 #2H)										
12,700.0	90.39	89.72	9,310.3	5,746.3	-1,206.3	2,777.5	2,987.2	2.00	599,495.39	698,796.01
12,739.1	91.17	89.62	9,309.8	5,745.8	-1,206.1	2,816.6	3,025.1	2.00	599,495.61	698,835.15
12,800.0	91.17	89.62	9,308.6	5,744.6	-1,205.7	2,877.5	3,084.0	0.00	599,496.01	698,895.99
12,900.0	91.17	89.62	9,306.5	5,742.5	-1,205.0	2,977.4	3,180.9	0.00	599,496.67	698,995.97
13,000.0	91.17	89.62	9,304.5	5,740.5	-1,204.4	3,077.4	3,277.7	0.00	599,497.33	699,095.95
13,100.0	91.17	89.62	9,302.4	5,738.4	-1,203.7	3,177.4	3,374.5	0.00	599,497.99	699,195.93
13,200.0	91.17	89.62	9,300.4	5,736.4	-1,203.1	3,277.4	3,471.3	0.00	599,498.64	699,295.90
13,300.0	91.17	89.62	9,298.4	5,734.4	-1,202.4	3,377.3	3,568.2	0.00	599,499.30	699,395.88
13,400.0	91.17	89.62	9,296.3	5,732.3	-1,201.7	3,477.3	3,665.0	0.00	599,499.96	699,495.86
13,500.0	91.17	89.62	9,294.3	5,730.3	-1,201.1	3,577.3	3,761.8	0.00	599,500.62	699,595.83
13,600.0	91.17	89.62	9,292.3	5,728.3	-1,200.4	3,677.3	3,858.7	0.00	599,501.28	699,695.81
13,700.0	91.17	89.62	9,290.2	5,726.2	-1,199.8	3,777.3	3,955.5	0.00	599,501.93	699,795.79
13,800.0	91.17	89.62	9,288.2	5,724.2	-1,199.1	3,877.2	4,052.3	0.00	599,502.59	699,895.77
13,900.0	91.17	89.62	9,286.2	5,722.2	-1,198.5	3,977.2	4,149.2	0.00	599,503.25	699,995.74
14,000.0	91.17	89.62	9,284.1	5,720.1	-1,197.8	4,077.2	4,246.0	0.00	599,503.91	700,095.72
14,100.0	91.17	89.62	9,282.1	5,718.1	-1,197.1	4,177.2	4,342.8	0.00	599,504.57	700,195.70
14,200.0	91.17	89.62	9,280.0	5,716.0	-1,196.5	4,277.1	4,439.6	0.00	599,505.22	700,295.67
14,300.0	91.17	89.62	9,278.0	5,714.0	-1,195.8	4,377.1	4,536.5	0.00	599,505.88	700,395.65
14,400.0	91.17	89.62	9,276.0	5,712.0	-1,195.2	4,477.1	4,633.3	0.00	599,506.54	700,495.63
14,500.0	91.17	89.62	9,273.9	5,709.9	-1,194.5	4,577.1	4,730.1	0.00	599,507.20	700,595.61
14,600.0	91.17	89.62	9,271.9	5,707.9	-1,193.9	4,677.1	4,827.0	0.00	599,507.85	700,695.58
14,693.6	91.17	89.62	9,270.0	5,706.0	-1,193.2	4,770.6	4,917.6	0.00	599,508.47	700,789.15
PBHL (MIM 24 #2H)										



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Pathfinder

Pathfinder X&Y Report



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Site: Mimosa 24 Federal
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Wellbore: OH
Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
MD Reference: KB = 26' @ 3564.0usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,275.0	2,275.0	Tansil Dolomite			
8,320.0	8,320.0	1st Bone Spring Ss			
7,020.0	7,020.0	Bone Spring			
9,303.1	9,195.0	2nd Bone Spring Upr Ss Base			
9,328.0	9,205.0	2nd Bone Spring Middle Ss			
2,715.0	2,715.0	Capitan			
900.0	900.0	Salado			
2,600.0	2,600.0	Seven Rivers			
3,915.0	3,915.0	B/Capitan			
2,385.0	2,385.0	Yates			
9,052.4	9,035.0	2nd Bone Spring Ss			
650.0	650.0	Rustler			
4,565.0	4,565.0	Delaware			
9,096.5	9,070.0	2nd Bone Spring Upr Ss			
8,630.0	8,630.0	2nd Bone Spring Lime			

Checked By: _____ Approved By: _____ Date: _____

Devon - Mimosa 24 Federal #2H - Plan #6 - TXT

HEADER INFORMATION

COMPANY : Devon Energy, Inc.
 FIELD : Eddy County (NAD83)
 SITE : Mimosa 24 Federal
 WELL : #2H
 WELLPATH: OH
 DEPTHUNT: usft

WELL INFORMATION

WELL EW MAP : 696018.53
 WELL NS MAP : 600701.71
 DATUM ELEVN : 3564.00
 VSECT ANGLE : 104.04
 VSECT NORTH : 0.00
 VSECT EAST : 0.00

SURVEY TYPE INFORMATION

H 0.00 - 14693.59 PLAN #6 : PATHFINDER

SURVEY LIST

MD	INC	AZI	TVD	VSEC	N/S	E/W
0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00

Devon - Mimosa 24 Federal #2H - Plan #6 - TXT						
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00
8600.00	0.00	0.00	8600.00	0.00	0.00	0.00
8700.00	0.00	0.00	8700.00	0.00	0.00	0.00
8763.00	0.00	0.00	8763.00	0.00	0.00	0.00
8775.00	1.44	178.00	8775.00	0.04	-0.15	0.01
8800.00	4.44	178.00	8799.96	0.40	-1.43	0.05
8825.00	7.44	178.00	8824.83	1.11	-4.02	0.14
8850.00	10.44	178.00	8849.52	2.19	-7.90	0.28
8875.00	13.44	178.00	8873.97	3.61	-13.07	0.46
8900.00	16.45	178.00	8898.13	5.40	-19.52	0.68
8925.00	19.45	178.00	8921.91	7.53	-27.21	0.95
8950.00	22.45	178.00	8945.25	9.99	-36.14	1.26
8975.00	25.45	178.00	8968.10	12.80	-46.29	1.62
9000.00	28.45	178.00	8990.38	15.93	-57.61	2.01
9025.00	31.45	178.00	9012.04	19.38	-70.08	2.45
9050.00	34.45	178.00	9033.01	23.14	-83.67	2.92
9075.00	37.45	178.00	9053.25	27.19	-98.34	3.43
9100.00	40.45	178.00	9072.69	31.54	-114.04	3.98
9125.00	43.46	178.00	9091.28	36.15	-130.74	4.57
9150.00	46.46	178.00	9108.97	41.03	-148.39	5.18

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9175.00	49.46	178.00	9125.71	46.17	-166.95	5.83
9200.00	52.46	178.00	9141.45	51.53	-186.35	6.51
9225.00	55.46	178.00	9156.16	57.12	-206.55	7.21
9250.00	58.46	178.00	9169.79	62.91	-227.49	7.94
9275.00	61.46	178.00	9182.30	68.89	-249.12	8.70
9300.00	64.46	178.00	9193.66	75.04	-271.37	9.48
9325.00	67.46	178.00	9203.85	81.35	-294.19	10.27
9350.00	70.47	178.00	9212.82	87.80	-317.50	11.09
9375.00	73.47	178.00	9220.56	94.37	-341.26	11.92
9400.00	76.47	178.00	9227.04	101.04	-365.39	12.76
9425.00	79.47	178.00	9232.25	107.79	-389.82	13.61
9450.00	82.47	178.00	9236.17	114.62	-414.49	14.47
9475.00	85.47	178.00	9238.80	121.49	-439.34	15.34
9496.07	88.00	178.00	9240.00	127.30	-460.35	16.08
9500.00	88.00	178.00	9240.14	128.39	-464.28	16.21
9556.07	88.00	178.00	9242.09	143.87	-520.28	18.17
9600.00	87.95	174.48	9243.65	157.29	-564.09	21.05
9650.00	87.90	170.48	9245.46	175.65	-613.61	27.58
9700.00	87.87	166.48	9247.30	197.21	-662.56	37.56
9750.00	87.84	162.48	9249.18	221.85	-710.69	50.93
9800.00	87.82	158.47	9251.07	249.48	-757.78	67.62
9850.00	87.82	154.47	9252.97	279.93	-803.58	87.57
9900.00	87.82	150.47	9254.87	313.08	-847.87	110.66
9950.00	87.84	146.46	9256.77	348.76	-890.45	136.78
10000.00	87.86	142.46	9258.64	386.79	-931.10	165.82
10050.00	87.90	138.46	9260.49	426.99	-969.63	197.62
10100.00	87.95	134.46	9262.30	469.16	-1005.84	232.03
10150.00	88.01	130.45	9264.07	513.10	-1039.56	268.89
10200.00	88.07	126.45	9265.78	558.60	-1070.63	308.02
10250.00	88.15	122.45	9267.43	605.43	-1098.90	349.22
10300.00	88.23	118.45	9269.01	653.36	-1124.22	392.29
10350.00	88.33	114.45	9270.51	702.16	-1146.47	437.03
10400.00	88.43	110.45	9271.93	751.59	-1165.56	483.21
10450.00	88.54	106.45	9273.25	801.41	-1181.37	530.61
10500.00	88.65	102.45	9274.47	851.39	-1193.84	579.01
10550.00	88.78	98.45	9275.60	901.27	-1202.90	628.16
10600.00	88.91	94.45	9276.61	950.81	-1208.52	677.82
10650.00	89.04	90.45	9277.50	999.77	-1210.66	727.76
10657.17	89.06	89.88	9277.62	1006.73	-1210.68	734.92
10700.00	89.06	89.88	9278.32	1048.25	-1210.59	777.75
10800.00	89.06	89.88	9279.96	1145.20	-1210.38	877.74
10900.00	89.06	89.88	9281.60	1242.15	-1210.17	977.72
11000.00	89.06	89.88	9283.24	1339.10	-1209.96	1077.71
11100.00	89.06	89.88	9284.88	1436.04	-1209.76	1177.69
11200.00	89.06	89.88	9286.52	1532.99	-1209.55	1277.68
11300.00	89.06	89.88	9288.15	1629.94	-1209.34	1377.67
11400.00	89.06	89.88	9289.79	1726.89	-1209.13	1477.65
11500.00	89.06	89.88	9291.43	1823.83	-1208.92	1577.64
11600.00	89.06	89.88	9293.07	1920.78	-1208.71	1677.63
11700.00	89.06	89.88	9294.71	2017.73	-1208.50	1777.61
11800.00	89.06	89.88	9296.35	2114.68	-1208.30	1877.60
11900.00	89.06	89.88	9297.99	2211.62	-1208.09	1977.59
12000.00	89.06	89.88	9299.63	2308.57	-1207.88	2077.57
12100.00	89.06	89.88	9301.26	2405.52	-1207.67	2177.56
12200.00	89.06	89.88	9302.90	2502.47	-1207.46	2277.54
12300.00	89.06	89.88	9304.54	2599.41	-1207.25	2377.53
12400.00	89.06	89.88	9306.18	2696.36	-1207.04	2477.52
12500.00	89.06	89.88	9307.82	2793.31	-1206.83	2577.50
12600.00	89.06	89.88	9309.46	2890.26	-1206.63	2677.49
12633.09	89.06	89.88	9310.00	2922.33	-1206.56	2710.57
12700.00	90.39	89.72	9310.32	2987.19	-1206.32	2777.48
12739.14	91.17	89.62	9309.79	3025.10	-1206.10	2816.62
12800.00	91.17	89.62	9308.55	3084.03	-1205.70	2877.46

Devon - Mimosa 24 Federal #2H - Plan #6 - TXT						
12900.00	91.17	89.62	9306.51	3180.86	-1205.04	2977.44
13000.00	91.17	89.62	9304.48	3277.69	-1204.38	3077.42
13100.00	91.17	89.62	9302.44	3374.52	-1203.72	3177.40
13200.00	91.17	89.62	9300.41	3471.35	-1203.07	3277.37
13300.00	91.17	89.62	9298.37	3568.18	-1202.41	3377.35
13400.00	91.17	89.62	9296.34	3665.01	-1201.75	3477.33
13500.00	91.17	89.62	9294.30	3761.84	-1201.09	3577.30
13600.00	91.17	89.62	9292.26	3858.67	-1200.43	3677.28
13700.00	91.17	89.62	9290.23	3955.50	-1199.78	3777.26
13800.00	91.17	89.62	9288.19	4052.33	-1199.12	3877.24
13900.00	91.17	89.62	9286.16	4149.16	-1198.46	3977.21
14000.00	91.17	89.62	9284.12	4245.98	-1197.80	4077.19
14100.00	91.17	89.62	9282.08	4342.81	-1197.14	4177.17
14200.00	91.17	89.62	9280.05	4439.64	-1196.49	4277.14
14300.00	91.17	89.62	9278.01	4536.47	-1195.83	4377.12
14400.00	91.17	89.62	9275.98	4633.30	-1195.17	4477.10
14500.00	91.17	89.62	9273.94	4730.13	-1194.51	4577.08
14600.00	91.17	89.62	9271.91	4826.96	-1193.86	4677.05
14693.59	91.17	89.62	9270.00	4917.58	-1193.24	4770.62



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Devon Energy, Inc.

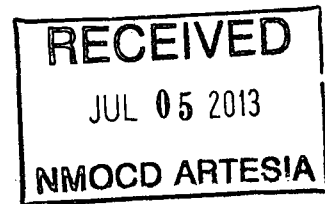
Eddy County (NAD83)

Mimosa 24 Federal

#2H

OH

Plan #6



Anticollision Report

26 June, 2013





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Pathfinder Anticollision Report



Company: Devon Energy, Inc.
Project: Eddy County (NAD83)
Reference Site: Mimosa 24 Federal
Site Error: 0.0 usft
Reference Well: #2H
Well Error: 0.0 usft
Reference Wellbore: OH
Reference Design: Plan #6

Local Co-ordinate Reference: Well #2H
TVD Reference: KB = 26' @ 3564.0usft (H&P 300)
MD Reference: KB = 26' @ 3564.0usft (H&P 300)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Reference	Plan #6
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria
Interpolation Method:	MD Interval 100.0usft
Depth Range:	Unlimited
Results Limited by:	Maximum separation factor of 6.00
Warning Levels Evaluated at:	2.00 Sigma
Error Model:	Systematic Ellipse
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Casing Method:	Not applied

Survey Tool Program		Date	6/26/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	14,693.6	Plan #6 (OH)	Pathfinder	Pathfinder MWD	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Jones D Fed						
#1 - OH - OH	10,209.6	9,251.0	207.7	172.4	5.890	CC, ES, SF
Jones Federal Unit						
#1 - OH - OH	13,242.8	9,278.1	288.9	67.6	1.306	Level 2, CC, ES, SF
Mimosa 24 Federal						
#1H - OH - OH						Out of range

Offset Design Jones D Fed - #1 - OH - OH											
Survey Program: 100-NS-GYRO-MS											
Offset Site Error: 0.0 usft											
Offset Well Error: 0.0 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)
10,200.0	9,265.8	9,250.9	9,249.2	18.7	16.8	-91.99	-907.6	436.7	207.8	172.6	35.23
10,209.6	9,266.1	9,251.0	9,249.3	18.8	16.8	-91.99	-907.6	436.7	207.7	172.4	35.25
											5.898
											5.890 CC, ES, SF

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



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Pathfinder Anticollision Report



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Well Error: 0.0 usft
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Output errors are at 2.00 sigma
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Offset TVD Reference: Offset Datum

Offset Design Jones Federal Unit - #1 - OH - OH													Offset Site Error: 0.0 usft
Survey Program: 100-INC+TREND													Offset Well Error: 0.0 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)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,000.0	9,299.6	9,278.3	9,275.8	25.8	245.0	-86.04	-913.9	3,318.3	1,275.1	1,061.3	213.80	5.964	
12,100.0	9,301.3	9,279.9	9,277.4	26.3	245.0	-86.35	-913.9	3,318.3	1,177.9	963.5	214.42	5.494	
12,200.0	9,302.9	9,281.5	9,279.0	26.8	245.1	-86.67	-913.9	3,318.3	1,081.4	866.3	215.04	5.029	
12,300.0	9,304.5	9,283.2	9,280.7	27.3	245.1	-86.99	-913.9	3,318.3	985.4	769.8	215.67	4.569	
12,400.0	9,306.2	9,284.8	9,282.3	27.9	245.2	-87.31	-913.9	3,318.3	890.4	674.1	216.29	4.117	
12,500.0	9,307.8	9,286.4	9,283.9	28.4	245.2	-87.63	-913.9	3,318.3	796.6	579.7	216.92	3.672	
12,600.0	9,309.5	9,288.0	9,285.5	29.0	245.3	-87.95	-913.9	3,318.3	704.5	486.9	217.54	3.238	
12,700.0	9,310.3	9,288.9	9,286.4	29.5	245.3	-90.74	-913.9	3,318.3	614.8	396.6	218.17	2.818	
12,800.0	9,308.6	9,287.1	9,284.6	30.1	245.2	-91.80	-913.9	3,318.3	528.6	310.0	218.60	2.418	
12,900.0	9,306.5	9,285.1	9,282.6	30.7	245.2	-91.40	-913.9	3,318.3	448.3	229.1	219.20	2.045	
13,000.0	9,304.5	9,283.1	9,280.6	31.2	245.1	-91.00	-913.9	3,318.3	377.3	157.5	219.80	1.717 Level 3	
13,100.0	9,302.4	9,281.0	9,278.5	31.8	245.1	-90.59	-913.9	3,318.3	322.2	101.9	220.39	1.462 Level 2	
13,200.0	9,300.4	9,279.0	9,276.5	32.4	245.0	-90.19	-913.9	3,318.3	292.0	71.1	220.98	1.322 Level 2	
13,242.8	9,299.5	9,278.1	9,275.6	32.6	245.0	-90.02	-913.9	3,318.3	288.9	67.6	221.23	1.306 Level 2, CC, ES, SF	
13,300.0	9,298.4	9,277.0	9,274.5	33.0	245.0	-89.79	-913.9	3,318.3	294.5	72.9	221.56	1.329 Level 2	
13,400.0	9,296.3	9,274.9	9,272.4	33.6	244.9	-89.38	-913.9	3,318.3	328.9	106.7	222.14	1.480 Level 2	
13,500.0	9,294.3	9,272.9	9,270.4	34.2	244.9	-88.98	-913.9	3,318.3	386.7	164.0	222.71	1.737 Level 3	
13,600.0	9,292.3	9,270.9	9,268.3	34.8	244.8	-88.57	-913.9	3,318.3	459.3	236.0	223.27	2.057	
13,700.0	9,290.2	9,268.8	9,266.3	35.4	244.8	-88.17	-913.9	3,318.3	540.7	316.9	223.83	2.416	
13,800.0	9,288.2	9,266.8	9,264.3	36.0	244.7	-87.77	-913.9	3,318.3	627.5	403.1	224.38	2.797	
13,900.0	9,286.2	9,264.7	9,262.2	36.6	244.7	-87.36	-913.9	3,318.3	717.7	492.8	224.92	3.191	
14,000.0	9,284.1	9,262.7	9,260.2	37.2	244.6	-86.96	-913.9	3,318.3	810.3	584.8	225.45	3.594	
14,100.0	9,282.1	9,260.6	9,258.1	37.8	244.6	-86.56	-913.9	3,318.3	904.4	678.4	225.98	4.002	
14,200.0	9,280.0	9,258.6	9,256.1	38.4	244.5	-86.15	-913.9	3,318.3	999.6	773.1	226.50	4.413	
14,300.0	9,278.0	9,256.6	9,254.1	39.1	244.5	-85.75	-913.9	3,318.3	1,095.7	868.7	227.01	4.827	
14,400.0	9,276.0	9,254.5	9,252.0	39.7	244.4	-85.35	-913.9	3,318.3	1,192.5	964.9	227.51	5.241	
14,500.0	9,273.9	9,252.5	9,250.0	40.3	244.4	-84.94	-913.9	3,318.3	1,289.7	1,061.7	228.01	5.656	



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Pathfinder Anticollision Report

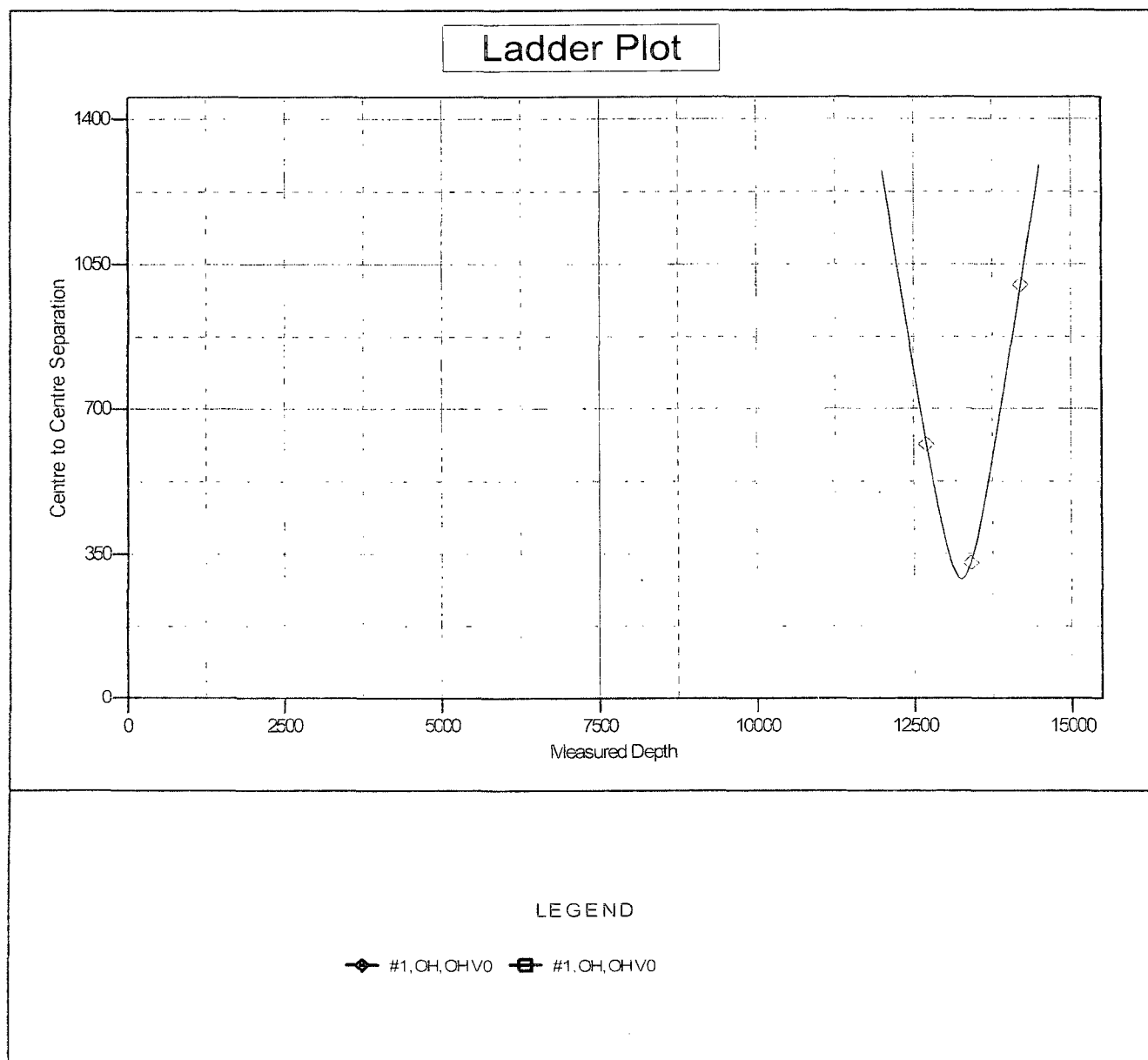


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Reference Well: #2H
Well Error: 0.0 usft
Reference Wellbore: OH
Reference Design: Plan #6

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Output errors are at: 2.00 sigma
Database: EDM 5000.1 Single User Db
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB = 26' @ 3564.0usft (H&P 300)
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: #2H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.27°



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



A Schlumberger Company

Pathfinder Anticollision Report



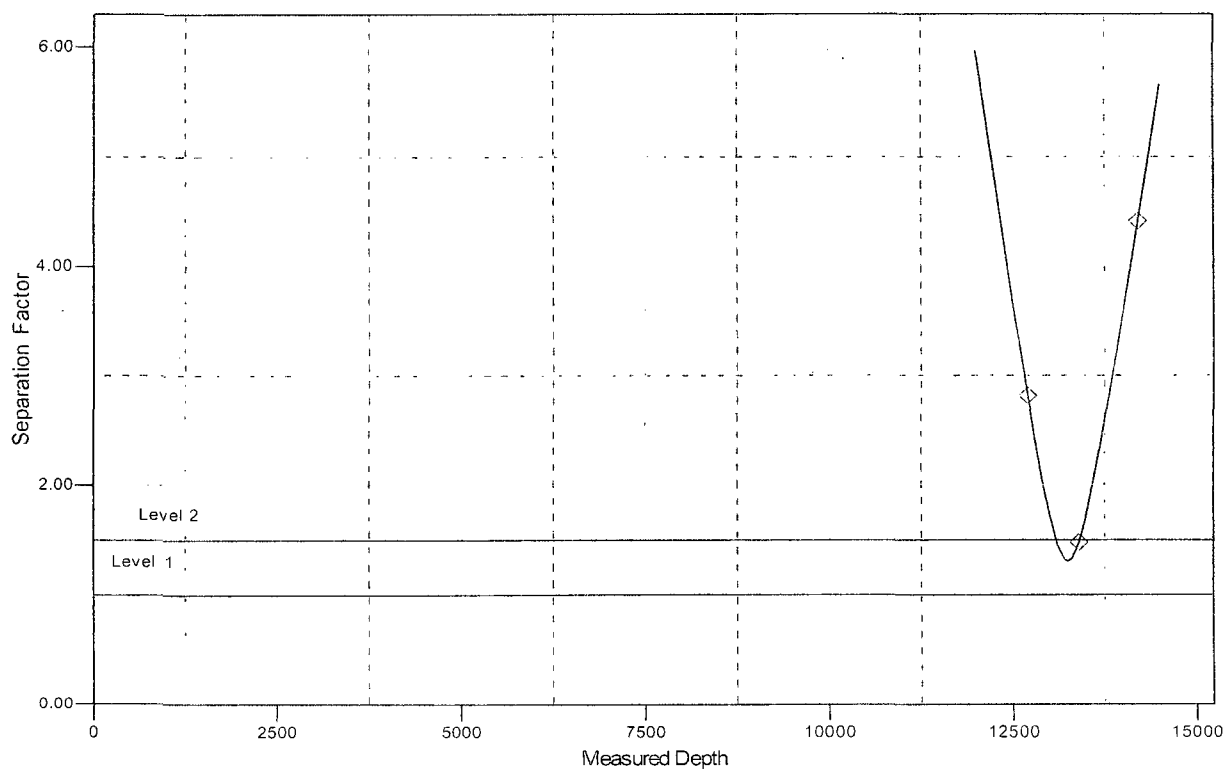
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Grid Convergence at Surface is: 0.27°

Separation Factor Plot



LEGEND

◆ #1, OH, OHV0 ▣ #1, OH, OHV0