

DATE IN 12-13-10	SUSPENSE	ENGINEER DKB	LOGGED IN 12.14.10	TYPE NSL	APP NO. 1034927618
------------------	----------	--------------	--------------------	----------	--------------------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



RECEIVED OGD

DEC -9 P 1:29

Devon 6137

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS, WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

Cotton Draw 9th
 ## 151H, 152H,
 155H, 156H
 6310
 Eddy

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

- [D] Other: Specify _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
 U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Sam McCurdy
 Print or Type Name

[Signature]
 Signature

Landman
 Title

12/7/10
 Date

Sam. McCurdy @ dvn.com
 e-mail Address



Sam McCurdy
Landman

Devon Energy Corporation
20 North Broadway
Oklahoma City, Oklahoma 73102-8260
Phone 405-228-2406
Fax 405-552-8113

December 7, 2010

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505
Attn: David Brooks

RE: Cotton Draw Unit
#151H, #152H, #155H & #156H
Section 35-T24S-R31E
Eddy County, New Mexico

Gentlemen:

Devon Energy Production Company, L.P. ("Devon"), as Operator, intends to drill the referenced horizontal Delaware formation wells with permitted SHL, BHL, TVD & TMD as follows:

Section 35, Township 24 South, Range 31 East, Eddy County, NM

Cotton Draw Unit #151H:	SHL: 200' FNL & 660' FWL BHL: 200' FSL & 660' FWL TVD: 8,259'; TMD: 12,821'
Cotton Draw Unit #152H:	SHL: 200' FNL & 1980' FWL BHL: 200' FSL & 1980' FWL TVD: 8,267'; TMD: 12,846'
Cotton Draw Unit #155H:	SHL: 200' FNL & 1980' FEL BHL: 200' FSL & 1980' FEL TVD: 8,270'; TMD: 12,859'
Cotton Draw Unit #156H:	SHL: 200' FNL & 660' FEL BHL: 200' FSL & 660' FEL TVD: 8,280' & TMD: 12,878'

Devon will penetrate the target formation at a non-standard location in an effort to maximize the productive length of the wellbore. Because of this Devon will penetrate the top of the target Delaware formation at non-standard locations of:

Cotton Draw Unit #151H	200' FNL & 660' FWL
Cotton Draw Unit #152H	200' FNL & 1980' FWL
Cotton Draw Unit #155H	200' FNL & 1980' FEL
Cotton Draw Unit #156H	200' FNL & 660' FEL

After penetrating the Delaware formation at the above listed locations, Devon will continue drilling through the referenced formation with the horizontal portion of the wellbore. Although the target formation will be penetrated at a non-standard location the highest perforation in the well will not occur closer than 330' to the outer boundary. By spotting the surface hole location 200' from the section line, this allows for room to build the curve and land horizontally at a standard location within the target Delaware interval. By spotting the bottom hole location 200' from the outer boundary, this allows room to drill sufficient rathole for casing shoe joints. According to Division rules, the above mentioned penetration points would be classified as non-standard locations.

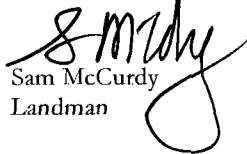
Devon respectfully requests that the Commission administratively approve this application for a non-standard location in accordance with Division Rule 104(F) (3). These non-standard locations affect the leasehold owners as follows: The Cotton Draw Unit #151H affects the leasehold owner in unit letter D of Section 2-T25S-R31E, Eddy County, NM and unit letter M of Section 26-T24S-R31E, Eddy County, NM. The Cotton Draw Unit #152H affects the leasehold owner in unit letter C of Section 2-T25S-R31E, Eddy County, NM and unit letter N of Section 26-T24S-R31E, Eddy County, NM. The Cotton Draw Unit #155H affects the leasehold owner in unit letter B of Section 2-T25S-R31E, Eddy County, NM and unit letter O of Section 26-T24S-R31E, Eddy County, NM. The Cotton Draw Unit #156H affects the leasehold owner in unit letter A of Section 2-T25S-R31E, Eddy County, NM and unit letter P of Section 26-T24S-R31E, Eddy County, NM. The ownership in all affected units is the same as the ownership in the wells; therefore no additional notification should be required as only working interest parties are affected. Additionally, Devon requests Commission approval to designate four (4) separate 160 project area's consisting of four standard oil spacing units each that are comprised of the W/2 W/2, E/2 W/2, W/2 E/2 & E/2 E/2 Section 35-T24S-R31E, Eddy County, NM, respectively.

Attached for your review you will find a structure map on top of the Delaware formation, Weatherford Drilling Services drilling plans for each of the four (4) wells, a land plat reflecting the affected parties and a State of New Mexico form C-102 for each of the four (4) wells.

Feel free to contact the undersigned at (405) 228-2406 if there are any concerns or questions regarding this application.

Yours very truly,

DEVON ENERGY PRODUCTION COMPANY, L.P.


Sam McCurdy
Landman

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name	⁶ Well Number
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
6137	DEVON ENERGY PRODUCTION COMPANY, L.P.	3500.9

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
D	35	24S	31 E		200	NORTH	660	WEST	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
M	35	24 S	31 E		200	SOUTH	660	WEST	EDDY

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

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.

660' 200' SURFACE LOCATION NW CORNER SEC. 35 LAT. = 32°10'51.95"N LONG. = 103°45'25.66"W NMSP EAST (FT) N = 430036.93 E = 719612.25	COTTON DRAW UNIT #151 ELEV. = 3500.9' LAT. = 32°10'49.98"N (NAD83) LONG. = 103°45'17.98"W NMSP EAST (FT) N = 429840.99 E = 720272.75	NE CORNER SEC. 35 LAT. = 32°10'52.00"N LONG. = 103°44'24.18"W NMSP EAST (FT) N = 430070.15 E = 724896.74	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 unleased 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: _____
SW CORNER SEC. 35 LAT. = 32°10'00.38"N LONG. = 103°45'25.88"W NMSP EAST (FT) N = 424824.54 E = 719621.10	BOTTOM OF HOLE LAT. = 32°10'02.32"N LONG. = 103°45'18.19"W NMSP EAST (FT) N = 425024.11 E = 720280.89	SE CORNER SEC. 35 LAT. = 32°10'00.07"N LONG. = 103°44'24.35"W NMSP EAST (FT) N = 424821.55 E = 724911.12	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. SEPTEMBER 30, 2010 Date of Survey Signature and Seal of Professional Surveyor: _____ Certificate Number: 12797 SURVEY NO. 230

District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-102
Revised October 15, 2009
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name <i>under 5 Cotton Draw Dlv or 5 Paker Lake Dlv</i>
⁴ Property Code	⁵ Property Name COTTON DRAW UNIT	⁶ Well Number 152
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3504.5

¹⁰ Surface Location

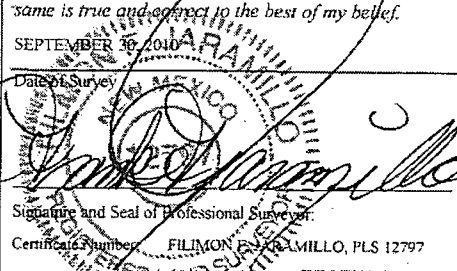
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	24 S	31E		200	NORTH	1980	WEST	EDDY

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
N	35	24 S	31E		200	SOUTH	1980	WEST	EDDY

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

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.

1980' 200' SURFACE LOCATION NW CORNER SEC. 35 LAT. = 32°10'51.95"N LONG. = 103°45'25.66"W NMSP EAST (FT) N = 430036.93 E = 719612.25 COTTON DRAW UNIT #152 ELEV. = 3504.5' LAT. = 32°10'49.99"N (NAD83) LONG. = 103°45'02.63"W NMSP EAST (FT) N = 429849.03 E = 721592.72	NE CORNER SEC. 35 LAT. = 32°10'52.00"N LONG. = 103°44'24.18"W NMSP EAST (FT) N = 430070.15 E = 724896.74	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 undivided 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 _____
SW CORNER SEC. 35 LAT. = 32°10'00.38"N LONG. = 103°45'25.88"W NMSP EAST (FT) N = 424824.54 E = 719621.10 BOTTOM OF HOLE LAT. = 32°10'02.25"N LONG. = 103°45'02.84"W NMSP EAST (FT) N = 425023.24 E = 721600.93 200' BOTTOM OF HOLE 1980'	SE CORNER SEC. 35 LAT. = 32°10'00.07"N LONG. = 103°44'24.35"W NMSP EAST (FT) N = 424821.55 E = 724911.12	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. SEPTEMBER 30, 2010 Date of Survey _____ Signature and Seal of Professional Surveyor:  Certificate Number: FILIMON E. RAMALLO, PLS 12797 SURVEY NO. 231

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name <i>Under 5 Cotton Draw Dlw or 5 Poper Lake Dlw</i>
⁴ Property Code	⁵ Property Name COTTON DRAW UNIT	⁶ Well Number 155
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3498.7

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
B	35	24 S	31 E		200	NORTH	1980	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
O	35	24 S	31 E		200	SOUTH	1980	EAST	EDDY

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

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.

NW CORNER SEC. 35 LAT. = 32°10'51.95"N LONG. = 103°45'25.66"W NMSP EAST (FT) N = 430036.93 E = 719612.25	COTTON DRAW UNIT #155 ELEV. = 3498.7' LAT. = 32°10'50.00"N (NAD83) LONG. = 103°44'47.22"W NMSP EAST (FT) N = 429857.47 E = 722917.19	SURFACE LOCATION 200'	NE CORNER SEC. 35 LAT. = 32°10'52.00"N LONG. = 103°44'24.18"W NMSP EAST (FT) N = 430070.15 E = 724896.74	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 unleased 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.
SW CORNER SEC. 35 LAT. = 32°10'00.38"N LONG. = 103°45'25.88"W NMSP EAST (FT) N = 424824.54 E = 719621.10				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. SEPTEMBER 30, 2010 Date of Survey Signature and Seal of Professional Surveyor Certificate Number: FILMON E. JARAMILLO, PLS 12797 SURVEY NO. 234
SE CORNER SEC. 35 LAT. = 32°10'00.07"N LONG. = 103°44'24.35"W NMSP EAST (FT) N = 424821.55 E = 724911.12				BOTTOM OF HOLE 200'

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

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

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number	² Pool Code	³ Pool Name <i>under 3 Packer Lake, Eddy or Cotton Draw Oiler</i>
⁴ Property Code	⁵ Property Name COTTON DRAW UNIT	⁶ Well Number 156
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3492.7

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
A	35	24 S	31 E		200	NORTH	660	EAST	EDDY

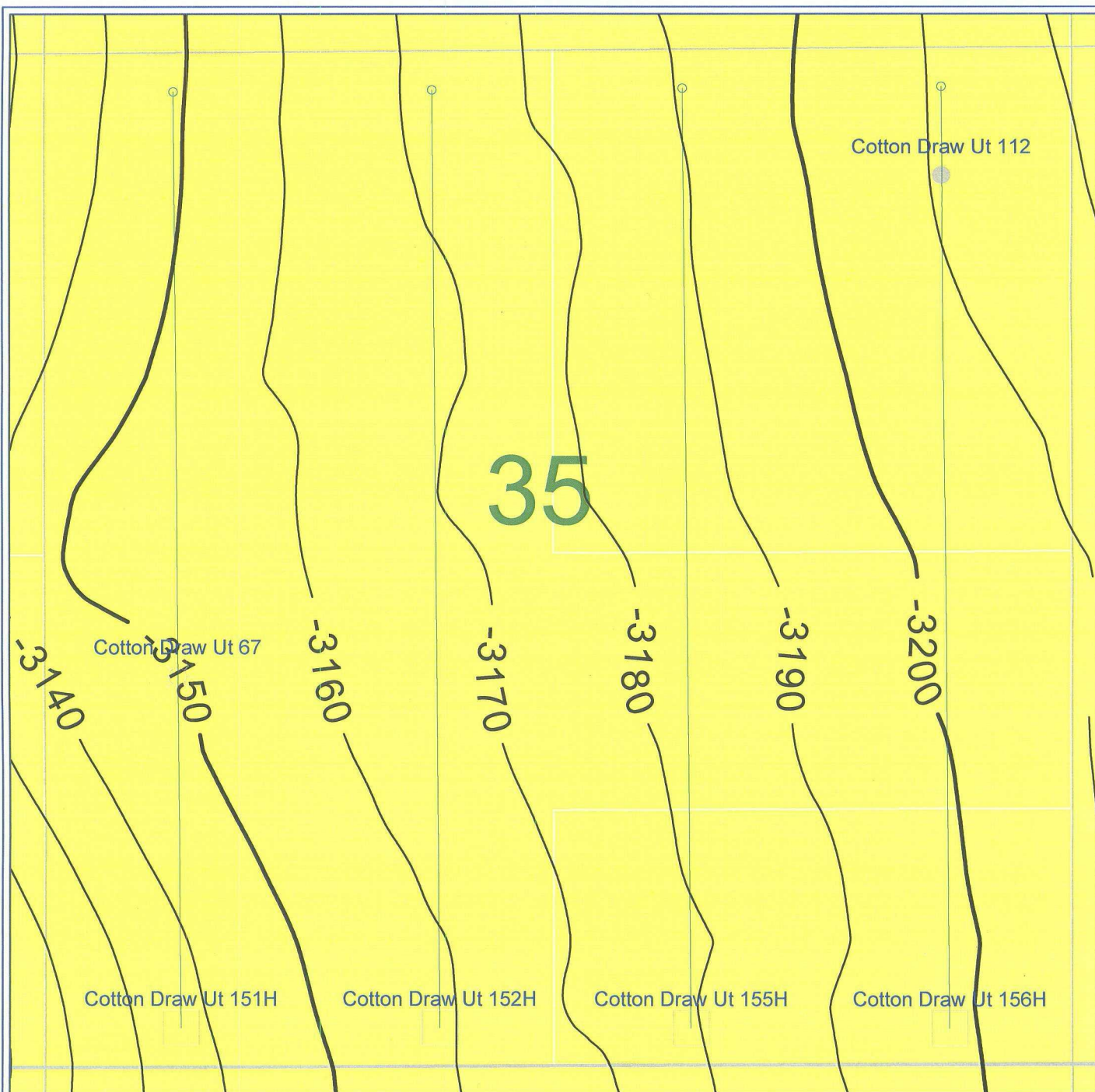
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	24 S	31 E		200	SOUTH	660	EAST	EDDY

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

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.

NW CORNER SEC. 35 LAT. = 32°10'51.95"N LONG. = 103°45'25.66"W NMSP EAST (FT) N = 430036.93 E = 719612.25	COTTON DRAW UNIT #156 ELEV. = 3492.7' LAT. = 32°10'50.01"N (NAD83) LONG. = 103°44'31.86"W NMSP EAST (FT) N = 429865.83 E = 724237.32	SURFACE LOCATION 660' 200' NE CORNER SEC. 35 LAT. = 32°10'52.00"N LONG. = 103°44'24.18"W NMSP EAST (FT) N = 430070.15 E = 724896.74	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 unleased 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 _____
SW CORNER SEC. 35 LAT. = 32°10'00.38"N LONG. = 103°45'25.88"W NMSP EAST (FT) N = 424824.54 E = 719621.10	BOTTOM OF HOLE LAT. = 32°10'02.09"N LONG. = 103°44'32.02"W NMSP EAST (FT) N = 425021.87 E = 724250.58	SE CORNER SEC. 35 LAT. = 32°10'00.07"N LONG. = 103°44'24.35"W NMSP EAST (FT) N = 424821.55 E = 724911.12 BOTTOM OF HOLE 660' 200'	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. SEPTEMBER 30, 2010 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number: FILIMON E. JARAMILLO, PLS 12797 SURVEY NO. 235



PETRA 11/23/2010 3:17:08 PM



Proposed Delaware Locations

Structure: Top Delaware (TVDSS)

By: J. Tackett



Weatherford®

Drilling Services

Proposal



devon

COTTON DRAW UNIT #151H

EDDY COUNTY, NM

WELL FILE: PLAN 1

NOVEMBER 3, 2010

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Cotton Draw Unit #151H
Eddy Co., NM

KB ELEV: 3526
GL ELEV: 3501

SECTION DETAILS						
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W
1	0.00	0.00	179.90	0.00	0.00	0.00
2	7677.15	0.00	0.00	7677.15	0.00	0.00
3	8575.77	89.88	179.90	8250.00	-571.63	0.97
4	12821.03	89.88	179.90	8259.00	-4816.88	8.17

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cotton Draw Unit #151H	0.00	0.00	429840.99	720272.72	32°10'49.390N	103°45'17.908W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8259.00	-4816.88	8.17	425024.11	720280.89	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983

Ellipsoid: GRS 1980

Zone: New Mexico, Eastern Zone

Magnetic Model: IGR2010

System Datum: Mean Sea Level

Local North: Grid North

SITE DETAILS

Cotton Draw Unit #151H

Site Centre Northing: 429840.99

Easting: 720272.72

Ground Level: 3501.00

Positional Uncertainty: 0.00

Convergence: 0.31

LEGEND

- Cotton Draw #134H (I)
- Cotton Draw Unit #135H (I)
- Cotton Draw Unit #136H (I)
- Plan #1

Azimuths to Grid North

True North: 0.31°

Magnetic North: 7.39°

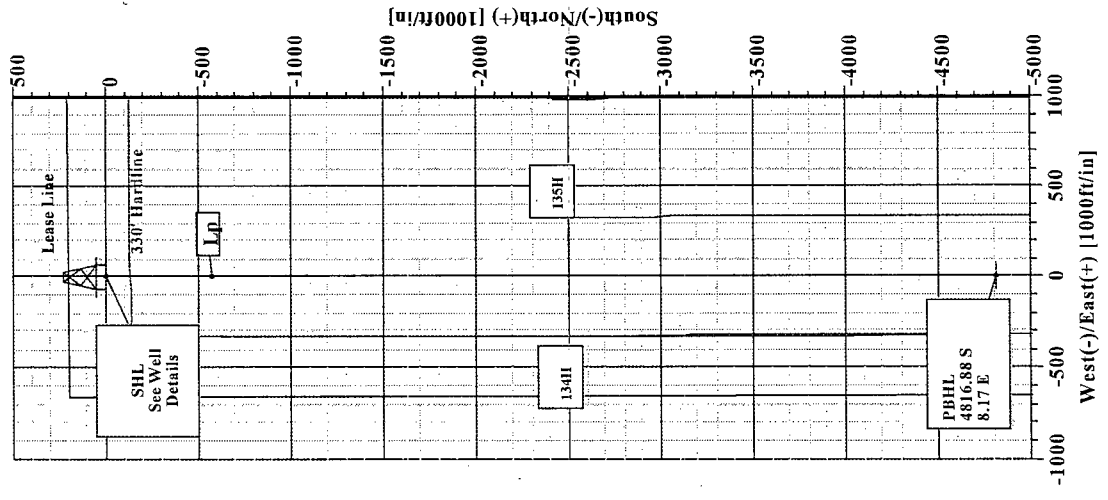
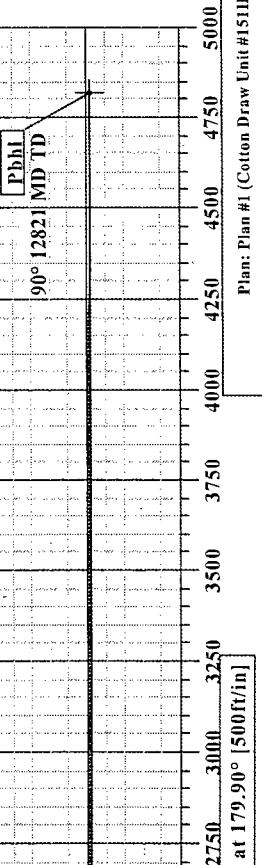
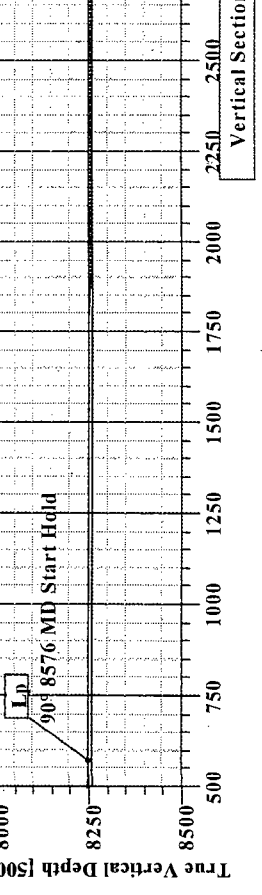
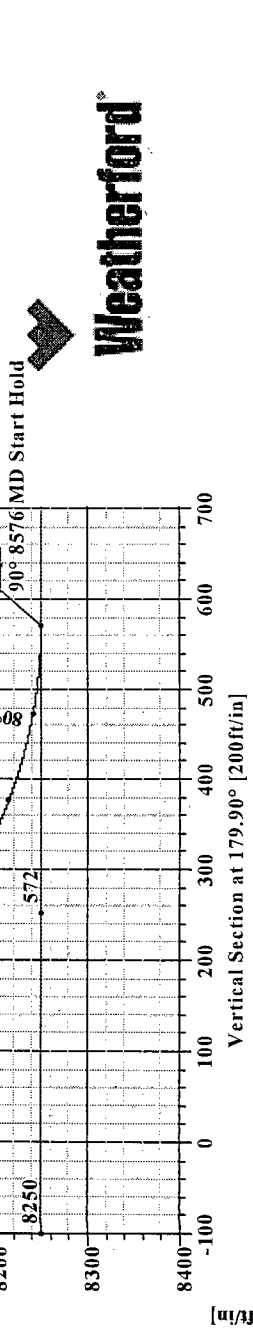
Magnetic Field Strength: 48616nT

Dip Angle: 60.12°

Date: 4/7/2011

Model: IGR2010

Total Correction to Grid North: 7.39°





Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/3/2010	Time: 13:24:36	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cotton Draw Unit #151H, Grid North		
Site: Cotton Draw Unit #151H	Vertical (TVD) Reference: SITE 3526.0		
Well: Cotton Draw Unit #151H	Section (VS) Reference: Well (0.00N;0.00E;179.90Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 11/3/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit #151H		
Site Position:	Northing: 429840.99 ft	Latitude: 32 10 49.390 N
From: Map	Easting: 720272.72 ft	Longitude: 103 45 17.908 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3501.00 ft		Grid Convergence: 0.31 deg

Well: Cotton Draw Unit #151H	Slot Name:
Well Position: +N/-S 0.00 ft	Latitude: 32 10 49.390 N
+E/-W 0.00 ft	Longitude: 103 45 17.908 W
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 4/1/2011	Above System Datum: Mean Sea Level		
Field Strength: 48616 nT	Declination: 7.69 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.12 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
8259.00	0.00	0.00	179.90

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7677.15	0.00	0.00	7677.15	0.00	0.00	0.00	0.00	0.00	0.00	
8575.77	89.88	179.90	8250.00	-571.63	0.97	10.00	10.00	0.00	0.00	
12821.03	89.88	179.90	8259.00	-4816.88	8.17	0.00	0.00	0.00	0.00	Pbhl

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	429840.99	720272.72	
7677.15	0.00	0.00	7677.15	0.00	0.00	0.00	0.00	429840.99	720272.72	Kop
7700.00	2.29	179.90	7699.99	-0.46	0.00	0.46	10.00	429840.53	720272.72	
7800.00	12.29	179.90	7799.06	-13.12	0.02	13.12	10.00	429827.87	720272.74	
7900.00	22.29	179.90	7894.42	-42.80	0.07	42.80	10.00	429798.19	720272.79	
8000.00	32.29	179.90	7983.18	-88.59	0.15	88.59	10.00	429752.40	720272.87	
8100.00	42.29	179.90	8062.63	-149.10	0.25	149.10	10.00	429691.89	720272.97	
8200.00	52.29	179.90	8130.37	-222.50	0.38	222.50	10.00	429618.49	720273.10	
8300.00	62.30	179.90	8184.33	-306.54	0.52	306.54	10.00	429534.45	720273.24	
8400.00	72.30	179.90	8222.88	-398.67	0.68	398.67	10.00	429442.32	720273.40	
8500.00	82.30	179.90	8244.84	-496.10	0.84	496.10	10.00	429344.89	720273.56	
8575.77	89.88	179.90	8250.00	-571.63	0.97	571.64	10.00	429269.36	720273.69	Lp
8600.00	89.88	179.90	8250.05	-595.87	1.01	595.87	0.00	429245.12	720273.73	
8700.00	89.88	179.90	8250.26	-695.87	1.18	695.87	0.00	429145.12	720273.90	
8800.00	89.88	179.90	8250.47	-795.87	1.35	795.87	0.00	429045.12	720274.07	
8900.00	89.88	179.90	8250.69	-895.87	1.52	895.87	0.00	428945.12	720274.24	
9000.00	89.88	179.90	8250.90	-995.87	1.69	995.87	0.00	428845.12	720274.41	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/3/2010	Time: 13:24:36	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North	
Site: Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0	
Well: Cotton Draw Unit #151H	Section (VS) Reference:	Well (0.00N,0.00E,179.90Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9100.00	89.88	179.90	8251.11	-1095.87	1.86	1095.87	0.00	428745.12	720274.58	
9200.00	89.88	179.90	8251.32	-1195.87	2.03	1195.87	0.00	428645.12	720274.75	
9300.00	89.88	179.90	8251.53	-1295.87	2.20	1295.87	0.00	428545.12	720274.92	
9400.00	89.88	179.90	8251.75	-1395.86	2.37	1395.87	0.00	428445.13	720275.09	
9500.00	89.88	179.90	8251.96	-1495.86	2.54	1495.87	0.00	428345.13	720275.26	
9600.00	89.88	179.90	8252.17	-1595.86	2.71	1595.87	0.00	428245.13	720275.43	
9700.00	89.88	179.90	8252.38	-1695.86	2.88	1695.87	0.00	428145.13	720275.60	
9800.00	89.88	179.90	8252.59	-1795.86	3.05	1795.87	0.00	428045.13	720275.77	
9900.00	89.88	179.90	8252.81	-1895.86	3.22	1895.87	0.00	427945.13	720275.94	
10000.00	89.88	179.90	8253.02	-1995.86	3.39	1995.87	0.00	427845.13	720276.11	
10100.00	89.88	179.90	8253.23	-2095.86	3.55	2095.87	0.00	427745.13	720276.27	
10200.00	89.88	179.90	8253.44	-2195.86	3.72	2195.86	0.00	427645.13	720276.44	
10300.00	89.88	179.90	8253.65	-2295.86	3.89	2295.86	0.00	427545.13	720276.61	
10400.00	89.88	179.90	8253.87	-2395.86	4.06	2395.86	0.00	427445.13	720276.78	
10500.00	89.88	179.90	8254.08	-2495.86	4.23	2495.86	0.00	427345.13	720276.95	
10600.00	89.88	179.90	8254.29	-2595.86	4.40	2595.86	0.00	427245.13	720277.12	
10700.00	89.88	179.90	8254.50	-2695.86	4.57	2695.86	0.00	427145.13	720277.29	
10800.00	89.88	179.90	8254.71	-2795.86	4.74	2795.86	0.00	427045.13	720277.46	
10900.00	89.88	179.90	8254.93	-2895.86	4.91	2895.86	0.00	426945.13	720277.63	
11000.00	89.88	179.90	8255.14	-2995.86	5.08	2995.86	0.00	426845.13	720277.80	
11100.00	89.88	179.90	8255.35	-3095.86	5.25	3095.86	0.00	426745.13	720277.97	
11200.00	89.88	179.90	8255.56	-3195.86	5.42	3195.86	0.00	426645.13	720278.14	
11300.00	89.88	179.90	8255.77	-3295.86	5.59	3295.86	0.00	426545.13	720278.31	
11400.00	89.88	179.90	8255.99	-3395.86	5.76	3395.86	0.00	426445.13	720278.48	
11500.00	89.88	179.90	8256.20	-3495.86	5.93	3495.86	0.00	426345.13	720278.65	
11600.00	89.88	179.90	8256.41	-3595.86	6.10	3595.86	0.00	426245.13	720278.82	
11700.00	89.88	179.90	8256.62	-3695.86	6.27	3695.86	0.00	426145.13	720278.99	
11800.00	89.88	179.90	8256.84	-3795.86	6.44	3795.86	0.00	426045.13	720279.16	
11900.00	89.88	179.90	8257.05	-3895.86	6.61	3895.86	0.00	425945.13	720279.33	
12000.00	89.88	179.90	8257.26	-3995.86	6.78	3995.86	0.00	425845.13	720279.50	
12100.00	89.88	179.90	8257.47	-4095.85	6.95	4095.86	0.00	425745.14	720279.67	
12200.00	89.88	179.90	8257.68	-4195.85	7.12	4195.86	0.00	425645.14	720279.84	
12300.00	89.88	179.90	8257.90	-4295.85	7.29	4295.86	0.00	425545.14	720280.01	
12400.00	89.88	179.90	8258.11	-4395.85	7.46	4395.86	0.00	425445.14	720280.18	
12500.00	89.88	179.90	8258.32	-4495.85	7.63	4495.86	0.00	425345.14	720280.35	
12600.00	89.88	179.90	8258.53	-4595.85	7.80	4595.86	0.00	425245.14	720280.52	
12700.00	89.88	179.90	8258.74	-4695.85	7.96	4695.86	0.00	425145.14	720280.68	
12800.00	89.88	179.90	8258.96	-4795.85	8.13	4795.86	0.00	425045.14	720280.85	
12821.03	89.88	179.90	8259.00	-4816.88	8.17	4816.89	0.00	425024.11	720280.89	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec			Longitude Deg Min Sec		
Pbhl			8259.00	-4816.88	8.17	425024.11	720280.89	32	10	1.723 N	103	45	18.114 W



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company:	Devon Energy	Date:	11/3/2010	Time:	13:24:36	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North				
Site:	Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0				
Well:	Cotton Draw Unit #151H	Section (VS) Reference:	Well (0.00N;0.00E,179.90Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7677.15	7677.15	Kop
8575.77	8250.00	Lp
12821.03	8259.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 11/3/2010 Time: 13:32:51 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #151H Co-ordinate(NE) Reference: Well: Cotton Draw Unit #151H, Grid North
Reference Well: Cotton Draw Unit #151H Vertical (TVD) Reference: SITE 3526.0
Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD Interval: 100.00 ft
Depth Range: 0.00 to 12821.03 ft
Maximum Radius: 10000.00 ft

Reference: Plan: Plan #1
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #1

Date Composed: 11/3/2010

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw #134H	Cotton Draw #134H	1 V0 Plan: Plan #1 V1	10500.00	16273.53	872.70	772.87	8.74	
Cotton Draw Unit #13	Cotton Draw Unit #131	V0 Plan: Plan #1 V1	12821.03	14233.23	866.89	764.54	8.47	

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	16353.54	8980.00	0.00	141.09	187.65	-2416.66	-324.69	9384.81	9328.22	165.85	
100.00	100.00	16353.54	8980.00	0.08	141.09	187.65	-2416.66	-324.69	9288.28	9231.60	163.89	
200.00	200.00	16353.54	8980.00	0.31	141.09	187.65	-2416.66	-324.69	9191.82	9134.92	161.53	
300.00	300.00	16353.54	8980.00	0.53	141.09	187.65	-2416.66	-324.69	9095.44	9038.31	159.20	
400.00	400.00	16353.54	8980.00	0.76	141.09	187.65	-2416.66	-324.69	8999.14	8941.78	156.88	
500.00	500.00	16353.54	8980.00	0.98	141.09	187.65	-2416.66	-324.69	8902.93	8845.33	154.58	
600.00	600.00	16353.54	8980.00	1.21	141.09	187.65	-2416.66	-324.69	8806.79	8748.97	152.31	
700.00	700.00	16353.54	8980.00	1.43	141.09	187.65	-2416.66	-324.69	8710.74	8652.69	150.05	
800.00	800.00	16353.54	8980.00	1.66	141.09	187.65	-2416.66	-324.69	8614.79	8556.50	147.81	
900.00	900.00	16353.54	8980.00	1.88	141.09	187.65	-2416.66	-324.69	8518.92	8460.41	145.59	
1000.00	1000.00	16353.54	8980.00	2.11	141.09	187.65	-2416.66	-324.69	8423.16	8364.41	143.38	
1100.00	1100.00	16353.54	8980.00	2.33	141.09	187.65	-2416.66	-324.69	8327.49	8268.51	141.20	
1200.00	1200.00	16353.54	8980.00	2.56	141.09	187.65	-2416.66	-324.69	8231.92	8172.72	139.03	
1300.00	1300.00	16353.54	8980.00	2.78	141.09	187.65	-2416.66	-324.69	8136.47	8077.03	136.89	
1400.00	1400.00	16353.54	8980.00	3.01	141.09	187.65	-2416.66	-324.69	8041.12	7981.45	134.76	
1500.00	1500.00	16353.54	8980.00	3.23	141.09	187.65	-2416.66	-324.69	7945.88	7885.98	132.65	
1600.00	1600.00	16353.54	8980.00	3.46	141.09	187.65	-2416.66	-324.69	7850.77	7790.63	130.55	
1700.00	1700.00	16353.54	8980.00	3.68	141.09	187.65	-2416.66	-324.69	7755.78	7695.41	128.47	
1800.00	1800.00	16353.54	8980.00	3.91	141.09	187.65	-2416.66	-324.69	7660.91	7600.31	126.41	
1900.00	1900.00	16353.54	8980.00	4.13	141.09	187.65	-2416.66	-324.69	7566.18	7505.34	124.37	
2000.00	2000.00	16353.54	8980.00	4.35	141.09	187.65	-2416.66	-324.69	7471.58	7410.52	122.35	
2100.00	2100.00	16353.54	8980.00	4.58	141.09	187.65	-2416.66	-324.69	7377.13	7315.83	120.34	
2200.00	2200.00	16353.54	8980.00	4.80	141.09	187.65	-2416.66	-324.69	7282.83	7221.29	118.35	
2300.00	2300.00	16353.54	8980.00	5.03	141.09	187.65	-2416.66	-324.69	7188.68	7126.90	116.37	
2400.00	2400.00	16353.54	8980.00	5.25	141.09	187.65	-2416.66	-324.69	7094.69	7032.68	114.42	
2500.00	2500.00	16353.54	8980.00	5.48	141.09	187.65	-2416.66	-324.69	7000.86	6938.62	112.47	
2600.00	2600.00	16353.54	8980.00	5.70	141.09	187.65	-2416.66	-324.69	6907.21	6844.73	110.55	
2700.00	2700.00	16353.54	8980.00	5.93	141.09	187.65	-2416.66	-324.69	6813.74	6751.02	108.64	
2800.00	2800.00	16353.54	8980.00	6.15	141.09	187.65	-2416.66	-324.69	6720.46	6657.50	106.75	
2900.00	2900.00	16353.54	8980.00	6.38	141.09	187.65	-2416.66	-324.69	6627.37	6564.18	104.87	
3000.00	3000.00	16353.54	8980.00	6.60	141.09	187.65	-2416.66	-324.69	6534.49	6471.06	103.02	
3100.00	3100.00	16353.54	8980.00	6.83	141.09	187.65	-2416.66	-324.69	6441.82	6378.15	101.17	
3200.00	3200.00	16353.54	8980.00	7.05	141.09	187.65	-2416.66	-324.69	6349.38	6285.46	99.35	
3300.00	3300.00	16353.54	8980.00	7.28	141.09	187.65	-2416.66	-324.69	6257.16	6193.01	97.53	
3400.00	3400.00	16353.54	8980.00	7.50	141.09	187.65	-2416.66	-324.69	6165.19	6100.80	95.74	
3500.00	3500.00	16353.54	8980.00	7.73	141.09	187.65	-2416.66	-324.69	6073.47	6008.83	93.96	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/3/2010	Time:	13:32:51	Page:	2
Field:	Eddy Co., NM (NAD 83)						
Reference Site:	Cotton Draw Unit #151H	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North				
Reference Well:	Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0				
Reference Wellpath:	1					Db:	Sybase

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		ft		
3600.00	3600.00	16353.54	8980.00	7.95	141.09	187.65	-2416.66	-324.69	5982.02	5917.14		92.20		
3700.00	3700.00	16353.54	8980.00	8.18	141.09	187.65	-2416.66	-324.69	5890.85	5825.72		90.45		
3800.00	3800.00	16353.54	8980.00	8.40	141.09	187.65	-2416.66	-324.69	5799.96	5734.59		88.72		
3900.00	3900.00	16353.54	8980.00	8.63	141.09	187.65	-2416.66	-324.69	5709.38	5643.76		87.01		
4000.00	4000.00	16353.54	8980.00	8.85	141.09	187.65	-2416.66	-324.69	5619.13	5553.26		85.31		
4100.00	4100.00	16353.54	8980.00	9.07	141.09	187.65	-2416.66	-324.69	5529.20	5463.08		83.62		
4200.00	4200.00	16353.54	8980.00	9.30	141.09	187.65	-2416.66	-324.69	5439.63	5373.26		81.96		
4300.00	4300.00	16353.54	8980.00	9.52	141.09	187.65	-2416.66	-324.69	5350.43	5283.80		80.31		
4400.00	4400.00	16353.54	8980.00	9.75	141.09	187.65	-2416.66	-324.69	5261.61	5194.73		78.67		
4500.00	4500.00	16353.54	8980.00	9.97	141.09	187.65	-2416.66	-324.69	5173.21	5106.07		77.05		
4600.00	4600.00	16353.54	8980.00	10.20	141.09	187.65	-2416.66	-324.69	5085.23	5017.83		75.45		
4700.00	4700.00	16353.54	8980.00	10.42	141.09	187.65	-2416.66	-324.69	4997.71	4930.05		73.87		
4800.00	4800.00	16353.54	8980.00	10.65	141.09	187.65	-2416.66	-324.69	4910.66	4842.74		72.30		
4900.00	4900.00	16353.54	8980.00	10.87	141.09	187.65	-2416.66	-324.69	4824.11	4755.92		70.74		
5000.00	5000.00	16353.54	8980.00	11.10	141.09	187.65	-2416.66	-324.69	4738.10	4669.64		69.21		
5100.00	5100.00	16353.54	8980.00	11.32	141.09	187.65	-2416.66	-324.69	4652.64	4583.91		67.69		
5200.00	5200.00	16353.54	8980.00	11.55	141.09	187.65	-2416.66	-324.69	4567.78	4498.76		66.19		
5300.00	5300.00	16353.54	8980.00	11.77	141.09	187.65	-2416.66	-324.69	4483.53	4414.24		64.70		
5400.00	5400.00	16353.54	8980.00	12.00	141.09	187.65	-2416.66	-324.69	4399.95	4330.37		63.24		
5500.00	5500.00	16353.54	8980.00	12.22	141.09	187.65	-2416.66	-324.69	4317.07	4247.20		61.79		
5600.00	5600.00	16353.54	8980.00	12.45	141.09	187.65	-2416.66	-324.69	4234.92	4164.75		60.35		
5700.00	5700.00	16353.54	8980.00	12.67	141.09	187.65	-2416.66	-324.69	4153.56	4083.09		58.94		
5800.00	5800.00	16353.54	8980.00	12.90	141.09	187.65	-2416.66	-324.69	4073.03	4002.25		57.54		
5900.00	5900.00	16353.54	8980.00	13.12	141.09	187.65	-2416.66	-324.69	3993.38	3922.28		56.16		
6000.00	6000.00	16353.54	8980.00	13.35	141.09	187.65	-2416.66	-324.69	3914.66	3843.23		54.81		
6100.00	6100.00	16353.54	8980.00	13.57	141.09	187.65	-2416.66	-324.69	3836.94	3765.17		53.46		
6200.00	6200.00	16353.54	8980.00	13.80	141.09	187.65	-2416.66	-324.69	3760.26	3688.15		52.14		
6300.00	6300.00	16353.54	8980.00	14.02	141.09	187.65	-2416.66	-324.69	3684.71	3612.23		50.84		
6400.00	6400.00	16353.54	8980.00	14.24	141.09	187.65	-2416.66	-324.69	3610.34	3537.49		49.56		
6500.00	6500.00	16353.54	8980.00	14.47	141.09	187.65	-2416.66	-324.69	3537.24	3463.99		48.29		
6600.00	6600.00	16353.54	8980.00	14.69	141.09	187.65	-2416.66	-324.69	3465.48	3391.82		47.04		
6700.00	6700.00	16353.54	8980.00	14.92	141.09	187.65	-2416.66	-324.69	3395.15	3321.05		45.82		
6800.00	6800.00	16353.54	8980.00	15.14	141.09	187.65	-2416.66	-324.69	3326.35	3251.78		44.61		
6900.00	6900.00	16353.54	8980.00	15.37	141.09	187.65	-2416.66	-324.69	3259.15	3184.09		43.42		
7000.00	7000.00	16353.54	8980.00	15.59	141.09	187.65	-2416.66	-324.69	3193.68	3118.08		42.24		
7100.00	7100.00	16353.54	8980.00	15.82	141.09	187.65	-2416.66	-324.69	3130.03	3053.85		41.09		
7200.00	7200.00	16353.54	8980.00	16.04	141.09	187.65	-2416.66	-324.69	3068.32	2991.51		39.95		
7300.00	7300.00	16353.54	8980.00	16.27	141.09	187.65	-2416.66	-324.69	3008.67	2931.16		38.82		
7400.00	7400.00	16353.54	8980.00	16.49	141.09	187.65	-2416.66	-324.69	2951.20	2872.91		37.70		
7500.00	7500.00	16353.54	8980.00	16.72	141.09	187.65	-2416.66	-324.69	2896.04	2816.88		36.58		
7600.00	7600.00	16353.54	8980.00	16.94	141.09	187.65	-2416.66	-324.69	2843.34	2763.18		35.47		
7700.00	7699.99	16353.54	8980.00	17.16	141.09	7.93	-2416.66	-324.69	2792.83	2711.54		34.36		
7800.00	7799.06	16353.54	8980.00	17.32	141.09	8.99	-2416.66	-324.69	2734.72	2652.45		33.24		
7900.00	7894.42	16353.54	8980.00	17.48	141.09	10.62	-2416.66	-324.69	2665.54	2582.44		32.08		
8000.00	7983.18	16353.54	8980.00	17.66	141.09	13.30	-2416.66	-324.69	2586.57	2502.77		30.87		
8100.00	8062.63	16353.54	8980.00	17.90	141.09	18.13	-2416.66	-324.69	2499.43	2414.91		29.57		
8200.00	8130.37	16353.54	8980.00	18.23	141.09	28.56	-2416.66	-324.69	2406.01	2320.28		28.06		
8300.00	8184.33	16353.54	8980.00	18.68	141.09	58.28	-2416.66	-324.69	2308.58	2218.94		25.75		
8400.00	8222.88	16353.54	8980.00	19.27	141.09	119.56	-2416.66	-324.69	2209.78	2118.47		24.20		
8500.00	8244.84	16353.54	8980.00	20.00	141.09	149.27	-2416.66	-324.69	2112.60	2024.63		24.01		
8600.00	8250.05	16353.54	8980.00	20.85	141.09	157.87	-2416.66	-324.69	2020.26	1933.28		23.23		



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/3/2010	Time:	13:32:51	Page:	3
Field:	Eddy Co., NM (NAD 83)						
Reference Site:	Cotton Draw Unit #151H	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North				
Reference Well:	Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0				
Reference Wellpath:	1						Db: Sybase

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		ft		
8700.00	8250.26	16353.54	8980.00	21.82	141.09	157.87	-2416.66	-324.69	1930.56	1843.15	22.09			
8800.00	8250.47	16353.54	8980.00	22.89	141.09	157.87	-2416.66	-324.69	1841.92	1754.03	20.96			
8900.00	8250.69	16353.54	8980.00	24.05	141.09	157.87	-2416.66	-324.69	1754.50	1666.08	19.84			
9000.00	8250.90	16353.54	8980.00	25.30	141.09	157.87	-2416.66	-324.69	1668.50	1579.50	18.75			
9100.00	8251.11	16353.54	8980.00	26.60	141.09	157.87	-2416.66	-324.69	1584.14	1494.53	17.68			
9200.00	8251.32	16353.54	8980.00	27.97	141.09	157.87	-2416.66	-324.69	1501.70	1411.44	16.64			
9300.00	8251.53	16353.54	8980.00	29.39	141.09	157.87	-2416.66	-324.69	1421.51	1330.57	15.63			
9400.00	8251.75	16353.54	8980.00	30.85	141.09	157.87	-2416.66	-324.69	1343.99	1252.34	14.66			
9500.00	8251.96	16353.54	8980.00	32.35	141.09	157.87	-2416.66	-324.69	1269.61	1177.22	13.74			
9600.00	8252.17	16353.54	8980.00	33.88	141.09	157.87	-2416.66	-324.69	1198.97	1105.82	12.87			
9700.00	8252.38	16353.54	8980.00	35.43	141.09	157.87	-2416.66	-324.69	1132.76	1038.83	12.06			
9800.00	8252.59	16353.54	8980.00	37.02	141.09	157.87	-2416.66	-324.69	1071.80	977.08	11.32			
9900.00	8252.81	16353.54	8980.00	38.62	141.09	157.87	-2416.66	-324.69	1017.03	921.51	10.65			
10000.00	8253.02	16353.54	8980.00	40.24	141.09	157.87	-2416.66	-324.69	969.52	873.17	10.06			
10100.00	8253.23	16353.54	8980.00	41.88	141.09	157.87	-2416.66	-324.69	930.36	833.19	9.57			
10200.00	8253.44	16353.54	8980.00	43.54	141.09	157.87	-2416.66	-324.69	900.66	802.64	9.19			
10300.00	8253.65	16353.54	8980.00	45.20	141.09	157.87	-2416.66	-324.69	881.36	782.49	8.91			
10400.00	8253.87	16353.54	8980.00	46.88	141.09	157.87	-2416.66	-324.69	873.15	773.43	8.76			
10500.00	8254.08	16273.53	8980.00	48.57	139.64	157.87	-2496.66	-324.49	872.70	772.87	8.74			
10600.00	8254.29	16173.53	8980.00	50.27	137.84	157.87	-2596.66	-324.25	872.48	772.72	8.75			
10700.00	8254.50	16073.53	8980.00	51.98	136.03	157.87	-2696.66	-324.01	872.25	772.57	8.75			
10800.00	8254.71	15973.53	8980.00	53.70	134.22	157.87	-2796.66	-323.76	872.03	772.40	8.75			
10900.00	8254.93	15873.53	8980.00	55.42	132.42	157.87	-2896.66	-323.52	871.80	772.24	8.76			
11000.00	8255.14	15773.53	8980.00	57.15	130.61	157.87	-2996.66	-323.27	871.58	772.07	8.76			
11100.00	8255.35	15673.54	8980.00	58.89	128.81	157.87	-3096.66	-323.03	871.35	771.89	8.76			
11200.00	8255.56	15573.54	8980.00	60.63	127.00	157.87	-3196.66	-322.78	871.13	771.71	8.76			
11300.00	8255.77	15473.54	8980.00	62.37	125.20	157.87	-3296.66	-322.54	870.90	771.53	8.76			
11400.00	8255.99	15373.54	8980.00	64.12	123.40	157.87	-3396.66	-322.29	870.68	771.34	8.76			
11500.00	8256.20	15273.54	8980.00	65.88	121.60	157.86	-3496.66	-322.05	870.46	771.15	8.77			
11600.00	8256.41	15173.54	8980.00	67.63	119.80	157.86	-3596.66	-321.80	870.23	770.95	8.77			
11700.00	8256.62	15073.54	8980.00	69.40	118.00	157.86	-3696.66	-321.56	870.01	770.75	8.77			
11800.00	8256.84	14973.54	8980.00	71.16	116.20	157.86	-3796.66	-321.32	869.78	770.55	8.77			
11900.00	8257.05	14873.54	8980.00	72.93	114.40	157.86	-3896.66	-321.07	869.56	770.35	8.77			
12000.00	8257.26	14773.54	8980.00	74.70	112.60	157.86	-3996.66	-320.83	869.33	770.14	8.76			
12100.00	8257.47	14673.54	8980.00	76.47	110.80	157.86	-4096.66	-320.58	869.11	769.93	8.76			
12200.00	8257.68	14573.54	8980.00	78.25	109.01	157.86	-4196.66	-320.34	868.88	769.72	8.76			
12300.00	8257.90	14473.54	8980.00	80.03	107.21	157.86	-4296.65	-320.09	868.66	769.50	8.76			
12400.00	8258.11	14373.54	8980.00	81.81	105.42	157.86	-4396.65	-319.85	868.43	769.29	8.76			
12500.00	8258.32	14273.54	8980.00	83.59	103.63	157.86	-4496.65	-319.60	868.21	769.07	8.76			
12600.00	8258.53	14173.54	8980.00	85.37	101.83	157.86	-4596.65	-319.36	867.98	768.84	8.76			
12700.00	8258.74	14073.54	8980.00	87.16	100.04	157.86	-4696.65	-319.12	867.76	768.62	8.75			
12800.00	8258.96	13973.54	8980.00	88.95	98.26	157.86	-4796.65	-318.87	867.53	768.39	8.75			
12821.03	8259.00	13952.51	8980.00	89.32	97.88	157.86	-4817.68	-318.82	867.49	768.34	8.75			

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		ft		
0.00	0.00	16640.89	8980.06	0.00	142.08	172.17	-2408.09	331.25	9380.48	9321.15	158.11			
100.00	100.00	16640.89	8980.06	0.08	142.08	172.17	-2408.09	331.25	9283.93	9224.51	156.25			



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co. NM (NAD 83)
Reference Site: Cotton Draw Unit #151H
Reference Well: Cotton Draw Unit #151H
Reference Wellpath: 1

Date: 11/3/2010

Time: 13:32:51

Page: 4

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #151H, Grid North
Vertical (TVD) Reference: SITE 3526.0

Db: Sybase

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
200.00	200.00	16640.89	8980.06	0.31	142.08	172.17	-2408.09	331.25	9187.45	9127.81	154.03	
300.00	300.00	16640.89	8980.06	0.53	142.08	172.17	-2408.09	331.25	9091.06	9031.18	151.83	
400.00	400.00	16640.89	8980.06	0.76	142.08	172.17	-2408.09	331.25	8994.74	8934.63	149.64	
500.00	500.00	16640.89	8980.06	0.98	142.08	172.17	-2408.09	331.25	8898.50	8838.16	147.48	
600.00	600.00	16640.89	8980.06	1.21	142.08	172.17	-2408.09	331.25	8802.34	8741.78	145.33	
700.00	700.00	16640.89	8980.06	1.43	142.08	172.17	-2408.09	331.25	8706.28	8645.48	143.19	
800.00	800.00	16640.89	8980.06	1.66	142.08	172.17	-2408.09	331.25	8610.30	8549.27	141.08	
900.00	900.00	16640.89	8980.06	1.88	142.08	172.17	-2408.09	331.25	8514.41	8453.15	138.98	
1000.00	1000.00	16640.89	8980.06	2.11	142.08	172.17	-2408.09	331.25	8418.62	8357.13	136.90	
1100.00	1100.00	16640.89	8980.06	2.33	142.08	172.17	-2408.09	331.25	8322.93	8261.21	134.84	
1200.00	1200.00	16640.89	8980.06	2.56	142.08	172.17	-2408.09	331.25	8227.34	8165.39	132.79	
1300.00	1300.00	16640.89	8980.06	2.78	142.08	172.17	-2408.09	331.25	8131.86	8069.67	130.76	
1400.00	1400.00	16640.89	8980.06	3.01	142.08	172.17	-2408.09	331.25	8036.49	7974.07	128.74	
1500.00	1500.00	16640.89	8980.06	3.23	142.08	172.17	-2408.09	331.25	7941.23	7878.58	126.74	
1600.00	1600.00	16640.89	8980.06	3.46	142.08	172.17	-2408.09	331.25	7846.09	7783.20	124.76	
1700.00	1700.00	16640.89	8980.06	3.68	142.08	172.17	-2408.09	331.25	7751.07	7687.95	122.79	
1800.00	1800.00	16640.89	8980.06	3.91	142.08	172.17	-2408.09	331.25	7656.18	7592.83	120.84	
1900.00	1900.00	16640.89	8980.06	4.13	142.08	172.17	-2408.09	331.25	7561.42	7497.83	118.91	
2000.00	2000.00	16640.89	8980.06	4.35	142.08	172.17	-2408.09	331.25	7466.80	7402.97	116.99	
2100.00	2100.00	16640.89	8980.06	4.58	142.08	172.17	-2408.09	331.25	7372.32	7308.26	115.08	
2200.00	2200.00	16640.89	8980.06	4.80	142.08	172.17	-2408.09	331.25	7277.99	7213.69	113.19	
2300.00	2300.00	16640.89	8980.06	5.03	142.08	172.17	-2408.09	331.25	7183.81	7119.27	111.32	
2400.00	2400.00	16640.89	8980.06	5.25	142.08	172.17	-2408.09	331.25	7089.79	7025.02	109.46	
2500.00	2500.00	16640.89	8980.06	5.48	142.08	172.17	-2408.09	331.25	6995.93	6930.92	107.62	
2600.00	2600.00	16640.89	8980.06	5.70	142.08	172.17	-2408.09	331.25	6902.25	6837.00	105.79	
2700.00	2700.00	16640.89	8980.06	5.93	142.08	172.17	-2408.09	331.25	6808.75	6743.26	103.98	
2800.00	2800.00	16640.89	8980.06	6.15	142.08	172.17	-2408.09	331.25	6715.43	6649.71	102.18	
2900.00	2900.00	16640.89	8980.06	6.38	142.08	172.17	-2408.09	331.25	6622.31	6556.35	100.40	
3000.00	3000.00	16640.89	8980.06	6.60	142.08	172.17	-2408.09	331.25	6529.39	6463.19	98.63	
3100.00	3100.00	16640.89	8980.06	6.83	142.08	172.17	-2408.09	331.25	6436.69	6370.25	96.88	
3200.00	3200.00	16640.89	8980.06	7.05	142.08	172.17	-2408.09	331.25	6344.21	6277.53	95.14	
3300.00	3300.00	16640.89	8980.06	7.28	142.08	172.17	-2408.09	331.25	6251.96	6185.03	93.42	
3400.00	3400.00	16640.89	8980.06	7.50	142.08	172.17	-2408.09	331.25	6159.95	6092.78	91.71	
3500.00	3500.00	16640.89	8980.06	7.73	142.08	172.17	-2408.09	331.25	6068.19	6000.78	90.02	
3600.00	3600.00	16640.89	8980.06	7.95	142.08	172.17	-2408.09	331.25	5976.70	5909.04	88.34	
3700.00	3700.00	16640.89	8980.06	8.18	142.08	172.17	-2408.09	331.25	5885.48	5817.58	86.68	
3800.00	3800.00	16640.89	8980.06	8.40	142.08	172.17	-2408.09	331.25	5794.56	5726.41	85.03	
3900.00	3900.00	16640.89	8980.06	8.63	142.08	172.17	-2408.09	331.25	5703.93	5635.54	83.39	
4000.00	4000.00	16640.89	8980.06	8.85	142.08	172.17	-2408.09	331.25	5613.63	5544.98	81.78	
4100.00	4100.00	16640.89	8980.06	9.07	142.08	172.17	-2408.09	331.25	5523.66	5454.76	80.17	
4200.00	4200.00	16640.89	8980.06	9.30	142.08	172.17	-2408.09	331.25	5434.04	5364.89	78.58	
4300.00	4300.00	16640.89	8980.06	9.52	142.08	172.17	-2408.09	331.25	5344.79	5275.39	77.01	
4400.00	4400.00	16640.89	8980.06	9.75	142.08	172.17	-2408.09	331.25	5255.93	5186.27	75.45	
4500.00	4500.00	16640.89	8980.06	9.97	142.08	172.17	-2408.09	331.25	5167.47	5097.55	73.91	
4600.00	4600.00	16640.89	8980.06	10.20	142.08	172.17	-2408.09	331.25	5079.45	5009.27	72.38	
4700.00	4700.00	16640.89	8980.06	10.42	142.08	172.17	-2408.09	331.25	4991.87	4921.43	70.86	
4800.00	4800.00	16640.89	8980.06	10.65	142.08	172.17	-2408.09	331.25	4904.77	4834.06	69.37	
4900.00	4900.00	16640.89	8980.06	10.87	142.08	172.17	-2408.09	331.25	4818.17	4747.19	67.88	
5000.00	5000.00	16640.89	8980.06	11.10	142.08	172.17	-2408.09	331.25	4732.10	4660.85	66.42	
5100.00	5100.00	16640.89	8980.06	11.32	142.08	172.17	-2408.09	331.25	4646.58	4575.06	64.97	
5200.00	5200.00	16640.89	8980.06	11.55	142.08	172.17	-2408.09	331.25	4561.66	4489.86	63.53	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/3/2010	Time:	13:32:51	Page:	5
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North				
Reference Site:	Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0				
Reference Well:	Cotton Draw Unit #151H		Db: Sybase				
Reference Wellpath:	1						

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	Distance	Distance	Distance	Distance	Factor	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	ft			
5300.00	5300.00	16640.89	8980.06	11.77	142.08	172.17	-2408.09	331.25	4477.35	4405.27		62.11		
5400.00	5400.00	16640.89	8980.06	12.00	142.08	172.17	-2408.09	331.25	4393.71	4321.34		60.71		
5500.00	5500.00	16640.89	8980.06	12.22	142.08	172.17	-2408.09	331.25	4310.76	4238.10		59.33		
5600.00	5600.00	16640.89	8980.06	12.45	142.08	172.17	-2408.09	331.25	4228.55	4155.59		57.96		
5700.00	5700.00	16640.89	8980.06	12.67	142.08	172.17	-2408.09	331.25	4147.12	4073.86		56.61		
5800.00	5800.00	16640.89	8980.06	12.90	142.08	172.17	-2408.09	331.25	4066.53	3992.95		55.27		
5900.00	5900.00	16640.89	8980.06	13.12	142.08	172.17	-2408.09	331.25	3986.81	3912.92		53.96		
6000.00	6000.00	16640.89	8980.06	13.35	142.08	172.17	-2408.09	331.25	3908.02	3833.80		52.66		
6100.00	6100.00	16640.89	8980.06	13.57	142.08	172.17	-2408.09	331.25	3830.22	3755.67		51.38		
6200.00	6200.00	16640.89	8980.06	13.80	142.08	172.17	-2408.09	331.25	3753.48	3678.57		50.11		
6300.00	6300.00	16640.89	8980.06	14.02	142.08	172.17	-2408.09	331.25	3677.85	3602.59		48.87		
6400.00	6400.00	16640.89	8980.06	14.24	142.08	172.17	-2408.09	331.25	3603.41	3527.77		47.64		
6500.00	6500.00	16640.89	8980.06	14.47	142.08	172.17	-2408.09	331.25	3530.23	3454.20		46.43		
6600.00	6600.00	16640.89	8980.06	14.69	142.08	172.17	-2408.09	331.25	3458.40	3381.96		45.24		
6700.00	6700.00	16640.89	8980.06	14.92	142.08	172.17	-2408.09	331.25	3388.00	3311.12		44.07		
6800.00	6800.00	16640.89	8980.06	15.14	142.08	172.17	-2408.09	331.25	3319.11	3241.78		42.92		
6900.00	6900.00	16640.89	8980.06	15.37	142.08	172.17	-2408.09	331.25	3251.84	3174.02		41.79		
7000.00	7000.00	16640.89	8980.06	15.59	142.08	172.17	-2408.09	331.25	3186.30	3107.95		40.67		
7100.00	7100.00	16640.89	8980.06	15.82	142.08	172.17	-2408.09	331.25	3122.57	3043.66		39.57		
7200.00	7200.00	16640.89	8980.06	16.04	142.08	172.17	-2408.09	331.25	3060.79	2981.26		38.48		
7300.00	7300.00	16640.89	8980.06	16.27	142.08	172.17	-2408.09	331.25	3001.07	2920.86		37.41		
7400.00	7400.00	16640.89	8980.06	16.49	142.08	172.17	-2408.09	331.25	2943.54	2862.57		36.35		
7500.00	7500.00	16640.89	8980.06	16.72	142.08	172.17	-2408.09	331.25	2888.32	2806.50		35.30		
7600.00	7600.00	16640.89	8980.06	16.94	142.08	172.17	-2408.09	331.25	2835.56	2752.77		34.25		
7700.00	7699.99	16640.89	8980.06	17.16	142.08	352.08	-2408.09	331.25	2785.00	2701.12		33.20		
7800.00	7799.06	16640.89	8980.06	17.32	142.08	351.03	-2408.09	331.25	2726.85	2642.02		32.15		
7900.00	7894.42	16640.89	8980.06	17.48	142.08	349.39	-2408.09	331.25	2657.63	2572.03		31.05		
8000.00	7983.18	16640.89	8980.06	17.66	142.08	346.72	-2408.09	331.25	2578.64	2492.39		29.90		
8100.00	8062.63	16640.89	8980.06	17.90	142.08	341.89	-2408.09	331.25	2491.47	2404.57		28.67		
8200.00	8130.37	16640.89	8980.06	18.23	142.08	331.46	-2408.09	331.25	2398.05	2309.97		27.23		
8300.00	8184.33	16640.89	8980.06	18.68	142.08	301.68	-2408.09	331.25	2300.61	2208.65		25.02		
8400.00	8222.88	16640.89	8980.06	19.27	142.08	240.33	-2408.09	331.25	2201.80	2108.22		23.53		
8500.00	8244.84	16640.89	8980.06	20.00	142.08	210.67	-2408.09	331.25	2104.63	2014.38		23.32		
8600.00	8250.05	16640.89	8980.06	20.85	142.08	202.09	-2408.09	331.25	2012.29	1923.03		22.54		
8700.00	8250.26	16640.89	8980.06	21.82	142.08	202.09	-2408.09	331.25	1922.61	1832.90		21.43		
8800.00	8250.47	16640.89	8980.06	22.89	142.08	202.09	-2408.09	331.25	1833.99	1743.78		20.33		
8900.00	8250.69	16640.89	8980.06	24.05	142.08	202.09	-2408.09	331.25	1746.61	1655.84		19.24		
9000.00	8250.90	16640.89	8980.06	25.30	142.08	202.09	-2408.09	331.25	1660.64	1569.29		18.18		
9100.00	8251.11	16640.89	8980.06	26.60	142.08	202.09	-2408.09	331.25	1576.34	1484.34		17.14		
9200.00	8251.32	16640.89	8980.06	27.97	142.08	202.09	-2408.09	331.25	1493.97	1401.30		16.12		
9300.00	8251.53	16640.89	8980.06	29.39	142.08	202.09	-2408.09	331.25	1413.87	1320.51		15.14		
9400.00	8251.75	16640.89	8980.06	30.85	142.08	202.09	-2408.09	331.25	1336.47	1242.37		14.20		
9500.00	8251.96	16640.89	8980.06	32.35	142.08	202.09	-2408.09	331.25	1262.24	1167.39		13.31		
9600.00	8252.17	16640.89	8980.06	33.88	142.08	202.09	-2408.09	331.25	1191.78	1096.15		12.46		
9700.00	8252.38	16640.89	8980.06	35.43	142.08	202.09	-2408.09	331.25	1125.81	1029.39		11.68		
9800.00	8252.59	16640.89	8980.06	37.02	142.08	202.09	-2408.09	331.25	1065.15	967.92		10.95		
9900.00	8252.81	16640.89	8980.06	38.62	142.08	202.09	-2408.09	331.25	1010.77	912.71		10.31		
10000.00	8253.02	16640.89	8980.06	40.24	142.08	202.09	-2408.09	331.25	963.72	864.82		9.74		
10100.00	8253.23	16640.89	8980.06	41.88	142.08	202.09	-2408.09	331.25	925.12	825.37		9.27		
10200.00	8253.44	16640.89	8980.06	43.54	142.08	202.09	-2408.09	331.25	896.07	795.47		8.91		
10300.00	8253.65	16640.89	8980.06	45.20	142.08	202.09	-2408.09	331.25	877.53	776.05		8.65		



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/3/2010	Time:	13:32:51	Page:	6
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #151H, Grid North				
Reference Site:	Cotton Draw Unit #151H	Vertical (TVD) Reference:	SITE 3526.0				
Reference Well:	Cotton Draw Unit #151H						
Reference Wellpath:	1		Db: Sybase				

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr		Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
10400.00	8253.87	16640.89	8980.06	46.88	142.08	202.09	-2408.09	331.25	870.15	767.79	8.50	
10500.00	8254.08	16554.25	8980.06	48.57	140.52	202.10	-2494.74	331.55	869.91	767.49	8.49	
10600.00	8254.29	16454.25	8980.06	50.27	138.71	202.12	-2594.74	331.90	869.78	767.41	8.50	
10700.00	8254.50	16354.25	8980.06	51.98	136.90	202.13	-2694.73	332.24	869.65	767.32	8.50	
10800.00	8254.71	16254.25	8980.06	53.70	135.10	202.15	-2794.73	332.59	869.52	767.23	8.50	
10900.00	8254.93	16154.25	8980.06	55.42	133.29	202.17	-2894.73	332.93	869.39	767.13	8.50	
11000.00	8255.14	16054.25	8980.06	57.15	131.49	202.18	-2994.73	333.28	869.26	767.02	8.50	
11100.00	8255.35	15954.25	8980.06	58.89	129.68	202.20	-3094.73	333.63	869.13	766.91	8.50	
11200.00	8255.56	15854.25	8980.06	60.63	127.88	202.21	-3194.73	333.97	869.00	766.80	8.50	
11300.00	8255.77	15754.25	8980.05	62.37	126.08	202.23	-3294.73	334.32	868.87	766.69	8.50	
11400.00	8255.99	15654.25	8980.05	64.12	124.28	202.25	-3394.73	334.66	868.74	766.57	8.50	
11500.00	8256.20	15554.25	8980.05	65.88	122.47	202.26	-3494.73	335.01	868.61	766.44	8.50	
11600.00	8256.41	15454.25	8980.05	67.63	120.67	202.28	-3594.73	335.35	868.47	766.31	8.50	
11700.00	8256.62	15354.25	8980.05	69.40	118.87	202.30	-3694.72	335.70	868.34	766.18	8.50	
11800.00	8256.84	15254.25	8980.05	71.16	117.08	202.31	-3794.72	336.05	868.21	766.05	8.50	
11900.00	8257.05	15154.25	8980.05	72.93	115.28	202.33	-3894.72	336.39	868.08	765.91	8.50	
12000.00	8257.26	15054.25	8980.05	74.70	113.48	202.34	-3994.72	336.74	867.95	765.78	8.49	
12100.00	8257.47	14954.25	8980.05	76.47	111.69	202.36	-4094.72	337.08	867.82	765.63	8.49	
12200.00	8257.68	14854.25	8980.05	78.25	109.89	202.38	-4194.72	337.43	867.69	765.49	8.49	
12300.00	8257.90	14754.25	8980.05	80.03	108.10	202.39	-4294.72	337.77	867.56	765.34	8.49	
12400.00	8258.11	14654.25	8980.04	81.81	106.30	202.41	-4394.72	338.12	867.44	765.19	8.48	
12500.00	8258.32	14554.25	8980.04	83.59	104.51	202.42	-4494.72	338.47	867.31	765.04	8.48	
12600.00	8258.53	14454.25	8980.04	85.37	102.72	202.44	-4594.72	338.81	867.18	764.89	8.48	
12700.00	8258.74	14354.25	8980.04	87.16	100.93	202.46	-4694.71	339.16	867.05	764.74	8.47	
12800.00	8258.96	14254.25	8980.04	88.95	99.14	202.47	-4794.71	339.50	866.92	764.58	8.47	
12821.03	8259.00	14233.23	8980.04	89.32	98.77	202.48	-4815.74	339.58	866.89	764.54	8.47	

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

Report Date: November 03, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #151H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 429840.990 USFT	Latitude 32.1803884 DEG
East/West 720272.720 USFT	Longitude -103.7549698 DEG
Grid Convergence: .31°	
Total Correction: +7.38°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.18039° N	32° 10 min 49.398 sec
Longitude =	103.75497° W	103° 45 min 17.891 sec

Magnetic Declination =	7.69°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6539
Local Field Strength =	48612 nT	Magnetic Vector X = 24000 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3242 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42150 nT
Spud Date =	Apr 01, 2011	Magnetic Vector H = 24218 nT

Signed: _____

Date: _____



Weatherford®

Drilling Services

Proposal



devon

COTTON DRAW UNIT #152H

EDDY COUNTY, NM

WELL FILE: PLAN 1

NOVEMBER 8, 2010

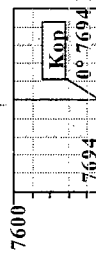
Weatherford International, Ltd.

P.O. Box 61028
Midland, TX 79711 USA
+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com

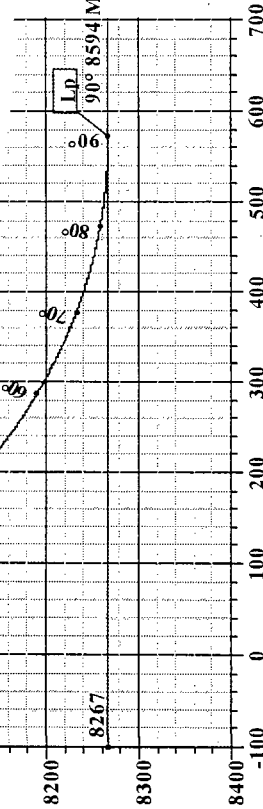


Cotton Draw Unit #152H Eddy Co., NM

KP ELEV: 3529.50
GL ELEV: 3504.50



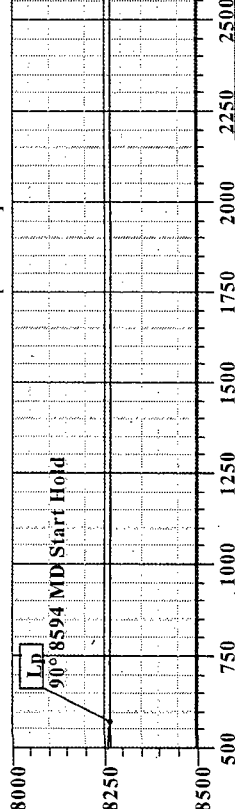
True Vertical Depth [200ft/in]



Vertical Section at 179.90° [200ft/in]

90° 8594 MD Start Hold

True Vertical Depth [500ft/in]



Vertical Section at 179.90° [500ft/in]

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	7694.04	0.00	179.90	7694.04	0.00	0.00	0.00	0.00	0.00	0.00
3	8594.04	90.00	179.90	8267.00	-572.96	0.97	10.00	179.90	572.96	Pbhl
4	12846.88	90.00	179.90	8267.00	-4825.79	8.21	0.00	0.00	4825.80	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cotton Draw Unit #152H	0.00	0.00	429849.03	721592.72	32°10'49.399N	103°45'02.549W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8267.00	-4825.79	8.21	425023.24	721600.93	Point

FIELD DETAILS

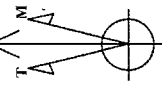
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Datum: GRS 1980
Zone: 12N, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

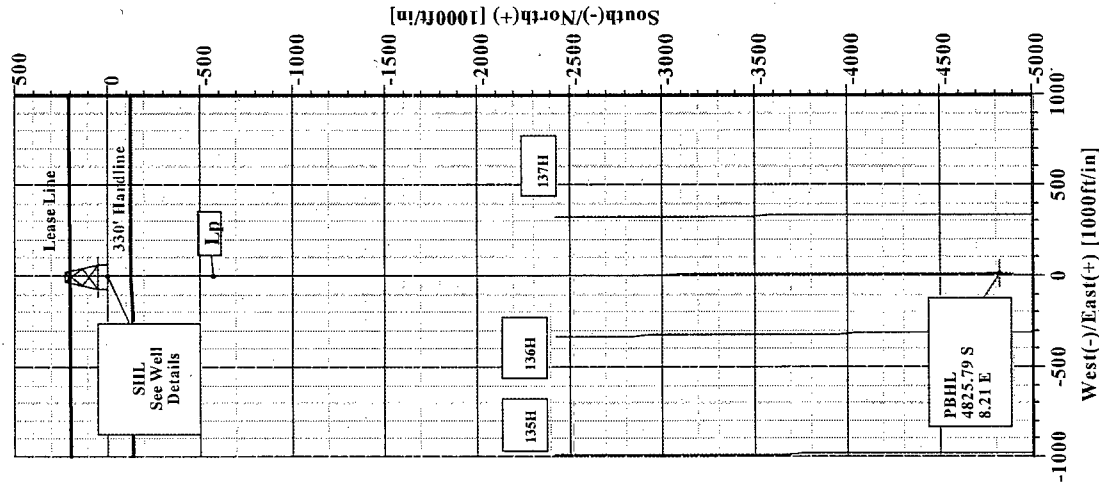
Cotton Draw Unit #152H
Site Centre Northing: 429849.03
Easting: 721592.72
Ground Level: 3504.50
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

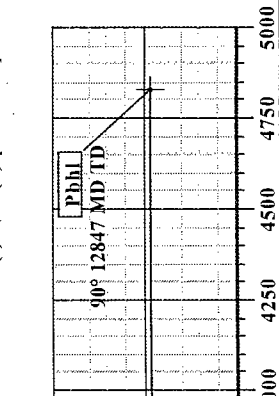
- Cotton Draw Unit #135H (I)
- Cotton Draw Unit #136H (I)
- Cotton Draw Unit #137H (I)
- Plan #1



Azimuths to Grid North
True North: 0.31°
Magnetic North: 7.39°
Magnetic Field
Strength: 48621 nT
Dip Angle: 66.1°
Date: 11/8/2010
Model: IGRF2010
Total Correction to Grid North: 7.39°



West(-)/East(+) [1000ft/in]



Plan: Plan #1 (Cotton Draw Unit #152H/1)

Created By: Russell W. Joyner

Date: 11/8/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy		Date: 11/8/2010	Time: 13:33:13	Page: 1
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: Cotton Draw Unit #152H, Grid North		
Site: Cotton Draw Unit #152H		Vertical (TVD) Reference: SITE 3529.5		
Well: Cotton Draw Unit #152H		Section (VS) Reference: Well (0.00N,0.00E,179.90Azi)		
Wellpath: 1		Survey Calculation Method: Minimum Curvature Db: Sybase		

Plan: Plan #1	Date Composed: 11/8/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit #152H	
Site Position:	Northing: 429849.03 ft Latitude: 32 10 49.399 N
From: Map	Easting: 721592.72 ft Longitude: 103 45 2.549 W
Position Uncertainty: 0.00 ft	North Reference: Grid
Ground Level: 3504.50 ft	Grid Convergence: 0.31 deg

Well: Cotton Draw Unit #152H		Slot Name:	
Well Position:	+N/-S 0.00 ft Northing: 429849.03 ft Latitude: 32 10 49.399 N	+E/-W 0.00 ft Easting: 721592.72 ft Longitude: 103 45 2.549 W	
Position Uncertainty: 0.00 ft			

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3529.50 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 3/15/2011		Above System Datum: Mean Sea Level	
Field Strength: 48621 nT		Declination: 7.70 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.12 deg	
ft	ft	+E/-W	Direction
		ft	deg
8267.00	0.00	0.00	179.90

Plan Section Information											
MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target	
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg		
0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
7694.04	0.00	179.90	7694.04	0.00	0.00	0.00	0.00	0.00	0.00		
8594.04	90.00	179.90	8267.00	-572.96	0.97	10.00	10.00	0.00	179.90		
12846.88	90.00	179.90	8267.00	-4825.79	8.21	0.00	0.00	0.00	0.00	Pbhl	

Survey											
MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment	
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft		
7600.00	0.00	179.90	7600.00	0.00	0.00	0.00	0.00	429849.03	721592.72		
7694.04	0.00	179.90	7694.04	0.00	0.00	0.00	0.00	429849.03	721592.72	Kop	
7700.00	0.60	179.90	7700.00	-0.03	0.00	0.03	10.00	429849.00	721592.72		
7800.00	10.60	179.90	7799.40	-9.77	0.02	9.77	10.00	429839.26	721592.74		
7900.00	20.60	179.90	7895.59	-36.62	0.06	36.62	10.00	429812.41	721592.78		
8000.00	30.60	179.90	7985.67	-79.77	0.14	79.77	10.00	429769.26	721592.86		
8100.00	40.60	179.90	8066.88	-137.90	0.23	137.90	10.00	429711.13	721592.95		
8200.00	50.60	179.90	8136.76	-209.25	0.36	209.25	10.00	429639.78	721593.08		
8300.00	60.60	179.90	8193.19	-291.65	0.50	291.65	10.00	429557.38	721593.22		
8400.00	70.60	179.90	8234.45	-382.60	0.65	382.60	10.00	429466.43	721593.37		
8500.00	80.60	179.90	8259.30	-479.34	0.82	479.34	10.00	429369.69	721593.54		
8594.04	90.00	179.90	8267.00	-572.96	0.97	572.96	10.00	429276.07	721593.69	Lp	
8600.00	90.00	179.90	8267.00	-578.91	0.98	578.92	0.00	429270.12	721593.70		
8700.00	90.00	179.90	8267.00	-678.91	1.16	678.92	0.00	429170.12	721593.88		
8800.00	90.00	179.90	8267.00	-778.91	1.33	778.92	0.00	429070.12	721594.05		
8900.00	90.00	179.90	8267.00	-878.91	1.50	878.92	0.00	428970.12	721594.22		
9000.00	90.00	179.90	8267.00	-978.91	1.67	978.92	0.00	428870.12	721594.39		



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/8/2010	Time: 13:33:13	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H, Grid North	
Site: Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5	
Well: Cotton Draw Unit #152H	Section (VS) Reference:	Well (0.00N,0.00E, 179.90Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9100.00	90.00	179.90	8267.00	-1078.91	1.84	1078.92	0.00	428770.12	721594.56	
9200.00	90.00	179.90	8267.00	-1178.91	2.01	1178.92	0.00	428670.12	721594.73	
9300.00	90.00	179.90	8267.00	-1278.91	2.18	1278.92	0.00	428570.12	721594.90	
9400.00	90.00	179.90	8267.00	-1378.91	2.35	1378.92	0.00	428470.12	721595.07	
9500.00	90.00	179.90	8267.00	-1478.91	2.52	1478.92	0.00	428370.12	721595.24	
9600.00	90.00	179.90	8267.00	-1578.91	2.69	1578.92	0.00	428270.12	721595.41	
9700.00	90.00	179.90	8267.00	-1678.91	2.86	1678.92	0.00	428170.12	721595.58	
9800.00	90.00	179.90	8267.00	-1778.91	3.03	1778.92	0.00	428070.12	721595.75	
9900.00	90.00	179.90	8267.00	-1878.91	3.20	1878.92	0.00	427970.12	721595.92	
10000.00	90.00	179.90	8267.00	-1978.91	3.37	1978.92	0.00	427870.12	721596.09	
10100.00	90.00	179.90	8267.00	-2078.91	3.54	2078.92	0.00	427770.12	721596.26	
10200.00	90.00	179.90	8267.00	-2178.91	3.71	2178.92	0.00	427670.12	721596.43	
10300.00	90.00	179.90	8267.00	-2278.91	3.88	2278.92	0.00	427570.12	721596.60	
10400.00	90.00	179.90	8267.00	-2378.91	4.05	2378.92	0.00	427470.12	721596.77	
10500.00	90.00	179.90	8267.00	-2478.91	4.22	2478.92	0.00	427370.12	721596.94	
10600.00	90.00	179.90	8267.00	-2578.91	4.39	2578.92	0.00	427270.12	721597.11	
10700.00	90.00	179.90	8267.00	-2678.91	4.56	2678.92	0.00	427170.12	721597.28	
10800.00	90.00	179.90	8267.00	-2778.91	4.73	2778.92	0.00	427070.12	721597.45	
10900.00	90.00	179.90	8267.00	-2878.91	4.90	2878.92	0.00	426970.12	721597.62	
11000.00	90.00	179.90	8267.00	-2978.91	5.07	2978.92	0.00	426870.12	721597.79	
11100.00	90.00	179.90	8267.00	-3078.91	5.24	3078.92	0.00	426770.12	721597.96	
11200.00	90.00	179.90	8267.00	-3178.91	5.41	3178.92	0.00	426670.12	721598.13	
11300.00	90.00	179.90	8267.00	-3278.91	5.58	3278.92	0.00	426570.12	721598.30	
11400.00	90.00	179.90	8267.00	-3378.91	5.75	3378.92	0.00	426470.12	721598.47	
11500.00	90.00	179.90	8267.00	-3478.91	5.92	3478.92	0.00	426370.12	721598.64	
11600.00	90.00	179.90	8267.00	-3578.91	6.09	3578.92	0.00	426270.12	721598.81	
11700.00	90.00	179.90	8267.00	-3678.91	6.26	3678.92	0.00	426170.12	721598.98	
11800.00	90.00	179.90	8267.00	-3778.91	6.43	3778.92	0.00	426070.12	721599.15	
11900.00	90.00	179.90	8267.00	-3878.91	6.60	3878.92	0.00	425970.12	721599.32	
12000.00	90.00	179.90	8267.00	-3978.91	6.77	3978.92	0.00	425870.12	721599.49	
12100.00	90.00	179.90	8267.00	-4078.91	6.94	4078.92	0.00	425770.12	721599.66	
12200.00	90.00	179.90	8267.00	-4178.91	7.11	4178.92	0.00	425670.12	721599.83	
12300.00	90.00	179.90	8267.00	-4278.91	7.28	4278.92	0.00	425570.12	721600.00	
12400.00	90.00	179.90	8267.00	-4378.91	7.45	4378.92	0.00	425470.12	721600.17	
12500.00	90.00	179.90	8267.00	-4478.91	7.62	4478.92	0.00	425370.12	721600.34	
12600.00	90.00	179.90	8267.00	-4578.91	7.79	4578.92	0.00	425270.12	721600.51	
12700.00	90.00	179.90	8267.00	-4678.91	7.96	4678.92	0.00	425170.12	721600.68	
12800.00	90.00	179.90	8267.00	-4778.91	8.13	4778.92	0.00	425070.12	721600.85	
12846.88	90.00	179.90	8267.00	-4825.79	8.21	4825.80	0.00	425023.24	721600.93	Pbhl

Targets

Name	Description	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl			8267.00	-4825.79	8.21	425023.24	721600.93	32 10 1.644 N	103 45 2.757 W



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy	Date: 11/8/2010	Time: 13:33:13	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H; Grid North	
Site: Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5	
Well: Cotton Draw Unit #152H	Section (VS) Reference:	Well (0.00N,0.00E,179.90Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7694.04	7694.04	Kop
8594.04	8267.00	Lp
12846.88	8267.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report



Company: Devon Energy	Date: 11/8/2010	Time: 14:13:46	Page: 1
Field: Eddy Co., NM (NAD 83)			
Reference Site: Cotton Draw Unit #152H	Co-ordinate(NE) Reference: Well: Cotton Draw Unit #152H, Grid North		
Reference Well: Cotton Draw Unit #152H	Vertical (TVD) Reference: SITE 3529.5		
Reference Wellpath: 1	Db: Sybase		

NO GLOBAL SCAN: Using user defined selection & scan criteria				Reference: Plan: Plan #1.
Interpolation Method: MD	Interval: 100.00 ft			Error Model: ISCWSA Ellipse
Depth Range: 0.00 to 12846.88 ft			Scan Method: Closest Approach 3D	
Maximum Radius: 10000.00 ft			Error Surface: Ellipse	

Plan: Plan #1	Date Composed: 11/8/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw Unit #13	Cotton Draw Unit #131 V0 Plan: Plan #1 V1		10500.00	16355.38	864.59	762.92	8.50	
Cotton Draw Unit #13	Cotton Draw Unit #131 V0 Plan: Plan #1 V1		10500.00	16590.46	859.05	758.66	8.56	

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	16412.34	8980.00	0.00	140.75	187.81	-2425.57	-332.68	9388.35	9331.48	165.09	
100.00	100.00	16412.34	8980.00	0.08	140.75	187.81	-2425.57	-332.68	9291.85	9234.89	163.14	
200.00	200.00	16412.34	8980.00	0.31	140.75	187.81	-2425.57	-332.68	9195.42	9138.23	160.79	
300.00	300.00	16412.34	8980.00	0.53	140.75	187.81	-2425.57	-332.68	9099.07	9041.65	158.47	
400.00	400.00	16412.34	8980.00	0.76	140.75	187.81	-2425.57	-332.68	9002.79	8945.15	156.17	
500.00	500.00	16412.34	8980.00	0.98	140.75	187.81	-2425.57	-332.68	8906.60	8848.72	153.88	
600.00	600.00	16412.34	8980.00	1.21	140.75	187.81	-2425.57	-332.68	8810.50	8752.39	151.62	
700.00	700.00	16412.34	8980.00	1.43	140.75	187.81	-2425.57	-332.68	8714.48	8656.14	149.37	
800.00	800.00	16412.34	8980.00	1.66	140.75	187.81	-2425.57	-332.68	8618.56	8559.98	147.14	
900.00	900.00	16412.34	8980.00	1.88	140.75	187.81	-2425.57	-332.68	8522.72	8463.92	144.93	
1000.00	1000.00	16412.34	8980.00	2.11	140.75	187.81	-2425.57	-332.68	8426.99	8367.95	142.74	
1100.00	1100.00	16412.34	8980.00	2.33	140.75	187.81	-2425.57	-332.68	8331.35	8272.08	140.57	
1200.00	1200.00	16412.34	8980.00	2.56	140.75	187.81	-2425.57	-332.68	8235.82	8176.32	138.42	
1300.00	1300.00	16412.34	8980.00	2.78	140.75	187.81	-2425.57	-332.68	8140.39	8080.66	136.28	
1400.00	1400.00	16412.34	8980.00	3.01	140.75	187.81	-2425.57	-332.68	8045.08	7985.11	134.16	
1500.00	1500.00	16412.34	8980.00	3.23	140.75	187.81	-2425.57	-332.68	7949.88	7889.68	132.06	
1600.00	1600.00	16412.34	8980.00	3.46	140.75	187.81	-2425.57	-332.68	7854.80	7794.37	129.97	
1700.00	1700.00	16412.34	8980.00	3.68	140.75	187.81	-2425.57	-332.68	7759.85	7699.18	127.91	
1800.00	1800.00	16412.34	8980.00	3.91	140.75	187.81	-2425.57	-332.68	7665.02	7604.12	125.86	
1900.00	1900.00	16412.34	8980.00	4.13	140.75	187.81	-2425.57	-332.68	7570.32	7509.19	123.83	
2000.00	2000.00	16412.34	8980.00	4.35	140.75	187.81	-2425.57	-332.68	7475.77	7414.39	121.81	
2100.00	2100.00	16412.34	8980.00	4.58	140.75	187.81	-2425.57	-332.68	7381.35	7319.75	119.81	
2200.00	2200.00	16412.34	8980.00	4.80	140.75	187.81	-2425.57	-332.68	7287.09	7225.25	117.83	
2300.00	2300.00	16412.34	8980.00	5.03	140.75	187.81	-2425.57	-332.68	7192.98	7130.90	115.86	
2400.00	2400.00	16412.34	8980.00	5.25	140.75	187.81	-2425.57	-332.68	7099.04	7036.72	113.92	
2500.00	2500.00	16412.34	8980.00	5.48	140.75	187.81	-2425.57	-332.68	7005.26	6942.70	111.98	
2600.00	2600.00	16412.34	8980.00	5.70	140.75	187.81	-2425.57	-332.68	6911.65	6848.85	110.07	
2700.00	2700.00	16412.34	8980.00	5.93	140.75	187.81	-2425.57	-332.68	6818.23	6755.19	108.17	
2800.00	2800.00	16412.34	8980.00	6.15	140.75	187.81	-2425.57	-332.68	6724.99	6661.72	106.28	
2900.00	2900.00	16412.34	8980.00	6.38	140.75	187.81	-2425.57	-332.68	6631.95	6568.44	104.42	
3000.00	3000.00	16412.34	8980.00	6.60	140.75	187.81	-2425.57	-332.68	6539.12	6475.37	102.57	
3100.00	3100.00	16412.34	8980.00	6.83	140.75	187.81	-2425.57	-332.68	6446.50	6382.51	100.73	
3200.00	3200.00	16412.34	8980.00	7.05	140.75	187.81	-2425.57	-332.68	6354.11	6289.87	98.91	
3300.00	3300.00	16412.34	8980.00	7.28	140.75	187.81	-2425.57	-332.68	6261.95	6197.46	97.11	
3400.00	3400.00	16412.34	8980.00	7.50	140.75	187.81	-2425.57	-332.68	6170.03	6105.30	95.32	
3500.00	3500.00	16412.34	8980.00	7.73	140.75	187.81	-2425.57	-332.68	6078.37	6013.40	93.55	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/8/2010	Time:	14:13:46	Page:	2
Field:	Eddy Co., NM (NAD 83)						
Reference Site:	Cotton Draw Unit #152H	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H; Grid North				
Reference Well:	Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5				
Reference Wellpath:	1					Db:	Sybase

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr	Edge	Separation	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
3600.00	3600.00	16412.34	8980.00	7.95	140.75	187.81	-2425.57	-332.68	5986.98	5921.76	91.79	
3700.00	3700.00	16412.34	8980.00	8.18	140.75	187.81	-2425.57	-332.68	5895.86	5830.39	90.05	
3800.00	3800.00	16412.34	8980.00	8.40	140.75	187.81	-2425.57	-332.68	5805.04	5739.32	88.33	
3900.00	3900.00	16412.34	8980.00	8.63	140.75	187.81	-2425.57	-332.68	5714.53	5648.55	86.62	
4000.00	4000.00	16412.34	8980.00	8.85	140.75	187.81	-2425.57	-332.68	5624.33	5558.11	84.93	
4100.00	4100.00	16412.34	8980.00	9.07	140.75	187.81	-2425.57	-332.68	5534.47	5468.00	83.25	
4200.00	4200.00	16412.34	8980.00	9.30	140.75	187.81	-2425.57	-332.68	5444.97	5378.24	81.59	
4300.00	4300.00	16412.34	8980.00	9.52	140.75	187.81	-2425.57	-332.68	5355.84	5288.85	79.95	
4400.00	4400.00	16412.34	8980.00	9.75	140.75	187.81	-2425.57	-332.68	5267.10	5199.84	78.32	
4500.00	4500.00	16412.34	8980.00	9.97	140.75	187.81	-2425.57	-332.68	5178.76	5111.25	76.70	
4600.00	4600.00	16412.34	8980.00	10.20	140.75	187.81	-2425.57	-332.68	5090.86	5023.08	75.11	
4700.00	4700.00	16412.34	8980.00	10.42	140.75	187.81	-2425.57	-332.68	5003.42	4935.37	73.53	
4800.00	4800.00	16412.34	8980.00	10.65	140.75	187.81	-2425.57	-332.68	4916.45	4848.13	71.96	
4900.00	4900.00	16412.34	8980.00	10.87	140.75	187.81	-2425.57	-332.68	4829.99	4761.40	70.41	
5000.00	5000.00	16412.34	8980.00	11.10	140.75	187.81	-2425.57	-332.68	4744.06	4675.19	68.88	
5100.00	5100.00	16412.34	8980.00	11.32	140.75	187.81	-2425.57	-332.68	4658.69	4589.54	67.37	
5200.00	5200.00	16412.34	8980.00	11.55	140.75	187.81	-2425.57	-332.68	4573.91	4504.48	65.87	
5300.00	5300.00	16412.34	8980.00	11.77	140.75	187.81	-2425.57	-332.68	4489.77	4420.04	64.39	
5400.00	5400.00	16412.34	8980.00	12.00	140.75	187.81	-2425.57	-332.68	4406.28	4336.25	62.92	
5500.00	5500.00	16412.34	8980.00	12.22	140.75	187.81	-2425.57	-332.68	4323.49	4253.17	61.48	
5600.00	5600.00	16412.34	8980.00	12.45	140.75	187.81	-2425.57	-332.68	4241.45	4170.81	60.05	
5700.00	5700.00	16412.34	8980.00	12.67	140.75	187.81	-2425.57	-332.68	4160.19	4089.24	58.63	
5800.00	5800.00	16412.34	8980.00	12.90	140.75	187.81	-2425.57	-332.68	4079.77	4008.49	57.24	
5900.00	5900.00	16412.34	8980.00	13.12	140.75	187.81	-2425.57	-332.68	4000.22	3928.62	55.86	
6000.00	6000.00	16412.34	8980.00	13.35	140.75	187.81	-2425.57	-332.68	3921.62	3849.67	54.50	
6100.00	6100.00	16412.34	8980.00	13.57	140.75	187.81	-2425.57	-332.68	3844.01	3771.70	53.16	
6200.00	6200.00	16412.34	8980.00	13.80	140.75	187.81	-2425.57	-332.68	3767.45	3694.78	51.84	
6300.00	6300.00	16412.34	8980.00	14.02	140.75	187.81	-2425.57	-332.68	3692.02	3618.96	50.53	
6400.00	6400.00	16412.34	8980.00	14.24	140.75	187.81	-2425.57	-332.68	3617.78	3544.32	49.25	
6500.00	6500.00	16412.34	8980.00	14.47	140.75	187.81	-2425.57	-332.68	3544.80	3470.92	47.98	
6600.00	6600.00	16412.34	8980.00	14.69	140.75	187.81	-2425.57	-332.68	3473.17	3398.84	46.73	
6700.00	6700.00	16412.34	8980.00	14.92	140.75	187.81	-2425.57	-332.68	3402.97	3328.17	45.50	
6800.00	6800.00	16412.34	8980.00	15.14	140.75	187.81	-2425.57	-332.68	3334.29	3259.00	44.28	
6900.00	6900.00	16412.34	8980.00	15.37	140.75	187.81	-2425.57	-332.68	3267.23	3191.40	43.09	
7000.00	7000.00	16412.34	8980.00	15.59	140.75	187.81	-2425.57	-332.68	3201.89	3125.48	41.90	
7100.00	7100.00	16412.34	8980.00	15.82	140.75	187.81	-2425.57	-332.68	3138.38	3061.33	40.74	
7200.00	7200.00	16412.34	8980.00	16.04	140.75	187.81	-2425.57	-332.68	3076.80	2999.07	39.58	
7300.00	7300.00	16412.34	8980.00	16.27	140.75	187.81	-2425.57	-332.68	3017.28	2938.79	38.44	
7400.00	7400.00	16412.34	8980.00	16.49	140.75	187.81	-2425.57	-332.68	2959.95	2880.60	37.30	
7500.00	7500.00	16412.34	8980.00	16.72	140.75	187.81	-2425.57	-332.68	2904.93	2824.62	36.17	
7600.00	7600.00	16412.34	8980.00	16.94	140.75	187.81	-2425.57	-332.68	2852.35	2770.95	35.04	
7700.00	7700.00	16412.34	8980.00	17.17	140.75	7.95	-2425.57	-332.68	2802.33	2719.67	33.90	
7800.00	7799.40	16412.34	8980.00	17.40	140.75	8.94	-2425.57	-332.68	2746.77	2662.86	32.74	
7900.00	7895.59	16412.34	8980.00	17.64	140.75	10.46	-2425.57	-332.68	2679.89	2594.91	31.53	
8000.00	7985.67	16412.34	8980.00	17.91	140.75	12.90	-2425.57	-332.68	2602.94	2517.01	30.29	
8100.00	8066.88	16412.34	8980.00	18.23	140.75	17.20	-2425.57	-332.68	2517.44	2430.60	28.99	
8200.00	8136.76	16412.34	8980.00	18.64	140.75	26.00	-2425.57	-332.68	2425.25	2337.15	27.53	
8300.00	8193.19	16412.34	8980.00	19.17	140.75	49.35	-2425.57	-332.68	2328.53	2237.02	25.45	
8400.00	8234.45	16412.34	8980.00	19.82	140.75	107.07	-2425.57	-332.68	2229.83	2134.47	23.38	
8500.00	8259.30	16412.34	8980.00	20.60	140.75	144.69	-2425.57	-332.68	2132.08	2040.42	23.26	
8600.00	8267.00	16412.34	8980.00	21.49	140.75	157.08	-2425.57	-332.68	2038.60	1948.73	22.68	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/8/2010	Time:	14:13:46	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H, Grid North				
Reference Site:	Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5				
Reference Well:	Cotton Draw Unit #152H	Db: Sybase					
Reference Wellpath:	1						

Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
8700.00	8267.00	16412.34	8980.00	22.48	140.75	157.08	-2425.57	-332.68	1948.50	1858.28	21.60
8800.00	8267.00	16412.34	8980.00	23.57	140.75	157.08	-2425.57	-332.68	1859.42	1768.78	20.51
8900.00	8267.00	16412.34	8980.00	24.75	140.75	157.08	-2425.57	-332.68	1771.50	1680.40	19.44
9000.00	8267.00	16412.34	8980.00	26.00	140.75	157.08	-2425.57	-332.68	1684.94	1593.32	18.39
9100.00	8267.00	16412.34	8980.00	27.32	140.75	157.08	-2425.57	-332.68	1599.94	1507.77	17.36
9200.00	8267.00	16412.34	8980.00	28.69	140.75	157.08	-2425.57	-332.68	1516.77	1424.01	16.35
9300.00	8267.00	16412.34	8980.00	30.12	140.75	157.08	-2425.57	-332.68	1435.74	1342.37	15.38
9400.00	8267.00	16412.34	8980.00	31.58	140.75	157.08	-2425.57	-332.68	1357.26	1263.24	14.44
9500.00	8267.00	16412.34	8980.00	33.08	140.75	157.08	-2425.57	-332.68	1281.77	1187.08	13.54
9600.00	8267.00	16412.34	8980.00	34.61	140.75	157.08	-2425.57	-332.68	1209.84	1114.46	12.69
9700.00	8267.00	16412.34	8980.00	36.17	140.75	157.08	-2425.57	-332.68	1142.14	1046.06	11.89
9800.00	8267.00	16412.34	8980.00	37.75	140.75	157.08	-2425.57	-332.68	1079.48	982.67	11.15
9900.00	8267.00	16412.34	8980.00	39.36	140.75	157.08	-2425.57	-332.68	1022.77	925.22	10.48
10000.00	8267.00	16412.34	8980.00	40.98	140.75	157.08	-2425.57	-332.68	973.06	874.75	9.90
10100.00	8267.00	16412.34	8980.00	42.62	140.75	157.08	-2425.57	-332.68	931.46	832.39	9.40
10200.00	8267.00	16412.34	8980.00	44.27	140.75	157.08	-2425.57	-332.68	899.12	799.26	9.00
10300.00	8267.00	16412.34	8980.00	45.94	140.75	157.08	-2425.57	-332.68	877.04	776.40	8.71
10400.00	8267.00	16412.34	8980.00	47.62	140.75	157.08	-2425.57	-332.68	866.01	764.58	8.54
10500.00	8267.00	16355.38	8980.00	49.31	139.72	157.11	-2482.53	-332.06	864.59	762.92	8.50
10600.00	8267.00	16255.45	8980.00	51.00	137.91	157.16	-2582.45	-331.00	864.24	762.75	8.52
10700.00	8267.00	16155.52	8980.00	52.71	136.10	157.22	-2682.38	-329.95	863.90	762.58	8.53
10800.00	8267.00	16055.58	8980.00	54.43	134.30	157.27	-2782.31	-328.93	863.57	762.42	8.54
10900.00	8267.00	15955.65	8980.00	56.15	132.49	157.32	-2882.23	-327.92	863.24	762.25	8.55
11000.00	8267.00	15855.72	8980.00	57.88	130.69	157.37	-2982.16	-326.93	862.93	762.08	8.56
11100.00	8267.00	15755.79	8980.00	59.61	128.88	157.42	-3082.09	-325.97	862.62	761.91	8.57
11200.00	8267.00	15655.85	8980.00	61.35	127.08	157.47	-3182.02	-325.02	862.32	761.75	8.57
11300.00	8267.00	15555.92	8980.00	63.09	125.27	157.52	-3281.95	-324.09	862.03	761.59	8.58
11400.00	8267.00	15455.99	8980.00	64.84	123.47	157.56	-3381.88	-323.18	861.75	761.43	8.59
11500.00	8267.00	15356.05	8980.00	66.60	121.67	157.61	-3481.81	-322.28	861.47	761.27	8.60
11600.00	8267.00	15256.12	8980.00	68.35	119.87	157.65	-3581.74	-321.41	861.21	761.11	8.60
11700.00	8267.00	15156.18	8980.00	70.11	118.07	157.69	-3681.67	-320.56	860.95	760.95	8.61
11800.00	8267.00	15056.25	8980.00	71.88	116.27	157.73	-3781.60	-319.73	860.70	760.80	8.62
11900.00	8267.00	14956.31	8980.00	73.64	114.47	157.77	-3881.53	-318.91	860.45	760.65	8.62
12000.00	8267.00	14856.38	8980.00	75.41	112.67	157.81	-3981.46	-318.12	860.22	760.51	8.63
12100.00	8267.00	14756.44	8980.00	77.18	110.88	157.85	-4081.39	-317.34	859.99	760.36	8.63
12200.00	8267.00	14656.51	8980.00	78.96	109.08	157.88	-4181.33	-316.59	859.77	760.22	8.64
12300.00	8267.00	14556.57	8980.00	80.74	107.29	157.92	-4281.26	-315.85	859.55	760.08	8.64
12400.00	8267.00	14456.64	8980.00	82.52	105.49	157.95	-4381.19	-315.13	859.35	759.95	8.65
12500.00	8267.00	14356.70	8980.00	84.30	103.70	157.98	-4481.13	-314.43	859.15	759.81	8.65
12600.00	8267.00	14256.76	8980.00	86.08	101.91	158.02	-4581.06	-313.75	858.96	759.68	8.65
12700.00	8267.00	14156.83	8980.00	87.87	100.12	158.05	-4681.00	-313.09	858.77	759.56	8.66
12800.00	8267.00	14056.89	8980.00	89.65	98.33	158.08	-4780.93	-312.45	858.60	759.43	8.66
12846.88	8267.00	14010.04	8980.00	90.49	97.50	158.09	-4827.78	-312.16	858.52	759.38	8.66

Site: Cotton Draw Unit #137H
Well: Cotton Draw Unit #137H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	16641.91	8979.99	0.00	140.53	172.41	-2426.00	323.31	9389.09	9329.96	158.78	
100.00	100.00	16641.91	8979.99	0.08	140.53	172.41	-2426.00	323.31	9292.58	9233.36	156.91	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/8/2010	Time:	14:13:46	Page:	4
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H, Grid North				
Reference Site:	Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5				
Reference Well:	Cotton Draw Unit #152H					Db:	Sybase
Reference Wellpath:	1						

Site: Cotton Draw Unit #137H
Well: Cotton Draw Unit #137H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
200.00	200.00	16641.91	8979.99	0.31	140.53	172.41	-2426.00	323.31	9196.15	9136.70	154.69	
300.00	300.00	16641.91	8979.99	0.53	140.53	172.41	-2426.00	323.31	9099.80	9040.12	152.49	
400.00	400.00	16641.91	8979.99	0.76	140.53	172.41	-2426.00	323.31	9003.52	8943.62	150.30	
500.00	500.00	16641.91	8979.99	0.98	140.53	172.41	-2426.00	323.31	8907.33	8847.20	148.13	
600.00	600.00	16641.91	8979.99	1.21	140.53	172.41	-2426.00	323.31	8811.22	8750.86	145.98	
700.00	700.00	16641.91	8979.99	1.43	140.53	172.41	-2426.00	323.31	8715.20	8654.62	143.85	
800.00	800.00	16641.91	8979.99	1.66	140.53	172.41	-2426.00	323.31	8619.27	8558.46	141.73	
900.00	900.00	16641.91	8979.99	1.88	140.53	172.41	-2426.00	323.31	8523.43	8462.39	139.63	
1000.00	1000.00	16641.91	8979.99	2.11	140.53	172.41	-2426.00	323.31	8427.70	8366.42	137.55	
1100.00	1100.00	16641.91	8979.99	2.33	140.53	172.41	-2426.00	323.31	8332.06	8270.56	135.48	
1200.00	1200.00	16641.91	8979.99	2.56	140.53	172.41	-2426.00	323.31	8236.52	8174.79	133.43	
1300.00	1300.00	16641.91	8979.99	2.78	140.53	172.41	-2426.00	323.31	8141.09	8079.13	131.40	
1400.00	1400.00	16641.91	8979.99	3.01	140.53	172.41	-2426.00	323.31	8045.77	7983.59	129.38	
1500.00	1500.00	16641.91	8979.99	3.23	140.53	172.41	-2426.00	323.31	7950.57	7888.15	127.38	
1600.00	1600.00	16641.91	8979.99	3.46	140.53	172.41	-2426.00	323.31	7855.49	7792.84	125.40	
1700.00	1700.00	16641.91	8979.99	3.68	140.53	172.41	-2426.00	323.31	7760.53	7697.65	123.43	
1800.00	1800.00	16641.91	8979.99	3.91	140.53	172.41	-2426.00	323.31	7665.69	7602.59	121.48	
1900.00	1900.00	16641.91	8979.99	4.13	140.53	172.41	-2426.00	323.31	7570.99	7507.66	119.54	
2000.00	2000.00	16641.91	8979.99	4.35	140.53	172.41	-2426.00	323.31	7476.43	7412.87	117.62	
2100.00	2100.00	16641.91	8979.99	4.58	140.53	172.41	-2426.00	323.31	7382.02	7318.22	115.72	
2200.00	2200.00	16641.91	8979.99	4.80	140.53	172.41	-2426.00	323.31	7287.75	7223.72	113.83	
2300.00	2300.00	16641.91	8979.99	5.03	140.53	172.41	-2426.00	323.31	7193.63	7129.38	111.95	
2400.00	2400.00	16641.91	8979.99	5.25	140.53	172.41	-2426.00	323.31	7099.68	7035.19	110.10	
2500.00	2500.00	16641.91	8979.99	5.48	140.53	172.41	-2426.00	323.31	7005.90	6941.18	108.25	
2600.00	2600.00	16641.91	8979.99	5.70	140.53	172.41	-2426.00	323.31	6912.28	6847.33	106.42	
2700.00	2700.00	16641.91	8979.99	5.93	140.53	172.41	-2426.00	323.31	6818.85	6753.67	104.61	
2800.00	2800.00	16641.91	8979.99	6.15	140.53	172.41	-2426.00	323.31	6725.61	6660.20	102.81	
2900.00	2900.00	16641.91	8979.99	6.38	140.53	172.41	-2426.00	323.31	6632.57	6566.92	101.03	
3000.00	3000.00	16641.91	8979.99	6.60	140.53	172.41	-2426.00	323.31	6539.73	6473.85	99.26	
3100.00	3100.00	16641.91	8979.99	6.83	140.53	172.41	-2426.00	323.31	6447.11	6380.99	97.51	
3200.00	3200.00	16641.91	8979.99	7.05	140.53	172.41	-2426.00	323.31	6354.71	6288.35	95.77	
3300.00	3300.00	16641.91	8979.99	7.28	140.53	172.41	-2426.00	323.31	6262.54	6195.95	94.05	
3400.00	3400.00	16641.91	8979.99	7.50	140.53	172.41	-2426.00	323.31	6170.61	6103.79	92.34	
3500.00	3500.00	16641.91	8979.99	7.73	140.53	172.41	-2426.00	323.31	6078.95	6011.89	90.65	
3600.00	3600.00	16641.91	8979.99	7.95	140.53	172.41	-2426.00	323.31	5987.54	5920.25	88.97	
3700.00	3700.00	16641.91	8979.99	8.18	140.53	172.41	-2426.00	323.31	5896.42	5828.89	87.31	
3800.00	3800.00	16641.91	8979.99	8.40	140.53	172.41	-2426.00	323.31	5805.59	5737.82	85.66	
3900.00	3900.00	16641.91	8979.99	8.63	140.53	172.41	-2426.00	323.31	5715.07	5647.05	84.03	
4000.00	4000.00	16641.91	8979.99	8.85	140.53	172.41	-2426.00	323.31	5624.86	5556.61	82.41	
4100.00	4100.00	16641.91	8979.99	9.07	140.53	172.41	-2426.00	323.31	5535.00	5466.50	80.81	
4200.00	4200.00	16641.91	8979.99	9.30	140.53	172.41	-2426.00	323.31	5445.48	5376.74	79.22	
4300.00	4300.00	16641.91	8979.99	9.52	140.53	172.41	-2426.00	323.31	5356.34	5287.36	77.65	
4400.00	4400.00	16641.91	8979.99	9.75	140.53	172.41	-2426.00	323.31	5267.59	5198.36	76.09	
4500.00	4500.00	16641.91	8979.99	9.97	140.53	172.41	-2426.00	323.31	5179.25	5109.77	74.55	
4600.00	4600.00	16641.91	8979.99	10.20	140.53	172.41	-2426.00	323.31	5091.34	5021.61	73.02	
4700.00	4700.00	16641.91	8979.99	10.42	140.53	172.41	-2426.00	323.31	5003.88	4933.90	71.51	
4800.00	4800.00	16641.91	8979.99	10.65	140.53	172.41	-2426.00	323.31	4916.90	4846.67	70.01	
4900.00	4900.00	16641.91	8979.99	10.87	140.53	172.41	-2426.00	323.31	4830.42	4759.94	68.53	
5000.00	5000.00	16641.91	8979.99	11.10	140.53	172.41	-2426.00	323.31	4744.48	4673.74	67.07	
5100.00	5100.00	16641.91	8979.99	11.32	140.53	172.41	-2426.00	323.31	4659.10	4588.10	65.62	
5200.00	5200.00	16641.91	8979.99	11.55	140.53	172.41	-2426.00	323.31	4574.31	4503.05	64.19	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/8/2010	Time:	14:13:46	Page:	5
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H, Grid North				
Reference Site:	Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5				
Reference Well:	Cotton Draw Unit #152H					Db:	Sybase
Reference Wellpath:	1						

Site: Cotton Draw Unit #137H
Well: Cotton Draw Unit #137H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5300.00	5300.00	16641.91	8979.99	11.77	140.53	172.41	-2426.00	323.31	4490.15	4418.62	62.78	
5400.00	5400.00	16641.91	8979.99	12.00	140.53	172.41	-2426.00	323.31	4406.64	4334.85	61.38	
5500.00	5500.00	16641.91	8979.99	12.22	140.53	172.41	-2426.00	323.31	4323.84	4251.77	60.00	
5600.00	5600.00	16641.91	8979.99	12.45	140.53	172.41	-2426.00	323.31	4241.78	4169.44	58.63	
5700.00	5700.00	16641.91	8979.99	12.67	140.53	172.41	-2426.00	323.31	4160.51	4087.88	57.29	
5800.00	5800.00	16641.91	8979.99	12.90	140.53	172.41	-2426.00	323.31	4080.06	4007.15	55.96	
5900.00	5900.00	16641.91	8979.99	13.12	140.53	172.41	-2426.00	323.31	4000.50	3927.30	54.65	
6000.00	6000.00	16641.91	8979.99	13.35	140.53	172.41	-2426.00	323.31	3921.88	3848.37	53.35	
6100.00	6100.00	16641.91	8979.99	13.57	140.53	172.41	-2426.00	323.31	3844.25	3770.43	52.08	
6200.00	6200.00	16641.91	8979.99	13.80	140.53	172.41	-2426.00	323.31	3767.67	3693.53	50.82	
6300.00	6300.00	16641.91	8979.99	14.02	140.53	172.41	-2426.00	323.31	3692.21	3617.75	49.59	
6400.00	6400.00	16641.91	8979.99	14.24	140.53	172.41	-2426.00	323.31	3617.95	3543.14	48.37	
6500.00	6500.00	16641.91	8979.99	14.47	140.53	172.41	-2426.00	323.31	3544.94	3469.79	47.17	
6600.00	6600.00	16641.91	8979.99	14.69	140.53	172.41	-2426.00	323.31	3473.29	3397.76	45.99	
6700.00	6700.00	16641.91	8979.99	14.92	140.53	172.41	-2426.00	323.31	3403.06	3327.15	44.83	
6800.00	6800.00	16641.91	8979.99	15.14	140.53	172.41	-2426.00	323.31	3334.36	3258.04	43.69	
6900.00	6900.00	16641.91	8979.99	15.37	140.53	172.41	-2426.00	323.31	3267.27	3190.51	42.57	
7000.00	7000.00	16641.91	8979.99	15.59	140.53	172.41	-2426.00	323.31	3201.90	3124.67	41.46	
7100.00	7100.00	16641.91	8979.99	15.82	140.53	172.41	-2426.00	323.31	3138.35	3060.62	40.38	
7200.00	7200.00	16641.91	8979.99	16.04	140.53	172.41	-2426.00	323.31	3076.74	2998.47	39.31	
7300.00	7300.00	16641.91	8979.99	16.27	140.53	172.41	-2426.00	323.31	3017.19	2938.32	38.25	
7400.00	7400.00	16641.91	8979.99	16.49	140.53	172.41	-2426.00	323.31	2959.82	2880.28	37.21	
7500.00	7500.00	16641.91	8979.99	16.72	140.53	172.41	-2426.00	323.31	2904.76	2824.48	36.18	
7600.00	7600.00	16641.91	8979.99	16.94	140.53	172.41	-2426.00	323.31	2852.15	2771.02	35.16	
7700.00	7700.00	16641.91	8979.99	17.17	140.53	352.46	-2426.00	323.31	2802.09	2719.98	34.13	
7800.00	7799.40	16641.91	8979.99	17.40	140.53	351.53	-2426.00	323.31	2746.48	2663.45	33.08	
7900.00	7895.59	16641.91	8979.99	17.64	140.53	350.08	-2426.00	323.31	2679.54	2595.79	31.99	
8000.00	7985.67	16641.91	8979.99	17.91	140.53	347.76	-2426.00	323.31	2602.52	2518.18	30.86	
8100.00	8066.88	16641.91	8979.99	18.23	140.53	343.66	-2426.00	323.31	2516.95	2432.07	29.65	
8200.00	8136.76	16641.91	8979.99	18.54	140.53	335.20	-2426.00	323.31	2424.66	2338.89	28.27	
8300.00	8193.19	16641.91	8979.99	19.17	140.53	312.17	-2426.00	323.31	2327.83	2239.00	26.20	
8400.00	8234.45	16641.91	8979.99	19.82	140.53	251.98	-2426.00	323.31	2229.02	2136.42	24.07	
8500.00	8259.30	16641.91	8979.99	20.60	140.53	213.83	-2426.00	323.31	2131.16	2042.51	24.04	
8600.00	8267.00	16641.91	8979.99	21.49	140.53	201.81	-2426.00	323.31	2037.55	1950.58	23.43	
8700.00	8267.00	16641.91	8979.99	22.48	140.53	201.81	-2426.00	323.31	1947.33	1859.91	22.28	
8800.00	8267.00	16641.91	8979.99	23.57	140.53	201.81	-2426.00	323.31	1858.11	1770.19	21.14	
8900.00	8267.00	16641.91	8979.99	24.75	140.53	201.81	-2426.00	323.31	1770.04	1681.57	20.01	
9000.00	8267.00	16641.91	8979.99	26.00	140.53	201.81	-2426.00	323.31	1683.30	1594.25	18.90	
9100.00	8267.00	16641.91	8979.99	27.32	140.53	201.81	-2426.00	323.31	1598.12	1508.43	17.82	
9200.00	8267.00	16641.91	8979.99	28.69	140.53	201.81	-2426.00	323.31	1514.75	1424.39	16.76	
9300.00	8267.00	16641.91	8979.99	30.12	140.53	201.81	-2426.00	323.31	1433.50	1342.45	15.74	
9400.00	8267.00	16641.91	8979.99	31.58	140.53	201.81	-2426.00	323.31	1354.77	1262.99	14.76	
9500.00	8267.00	16641.91	8979.99	33.08	140.53	201.81	-2426.00	323.31	1279.01	1186.48	13.82	
9600.00	8267.00	16641.91	8979.99	34.61	140.53	201.81	-2426.00	323.31	1206.79	1113.49	12.93	
9700.00	8267.00	16641.91	8979.99	36.17	140.53	201.81	-2426.00	323.31	1138.78	1044.69	12.10	
9800.00	8267.00	16641.91	8979.99	37.75	140.53	201.81	-2426.00	323.31	1075.78	980.88	11.34	
9900.00	8267.00	16641.91	8979.99	39.36	140.53	201.81	-2426.00	323.31	1018.71	922.99	10.64	
10000.00	8267.00	16641.91	8979.99	40.98	140.53	201.81	-2426.00	323.31	968.63	872.08	10.03	
10100.00	8267.00	16641.91	8979.99	42.62	140.53	201.81	-2426.00	323.31	926.67	829.27	9.51	
10200.00	8267.00	16641.91	8979.99	44.27	140.53	201.81	-2426.00	323.31	893.98	795.72	9.10	
10300.00	8267.00	16641.91	8979.99	45.94	140.53	201.81	-2426.00	323.31	871.59	772.47	8.79	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company:	Devon Energy	Date:	11/8/2010	Time:	14:13:46	Page:	6
Field:	Eddy Co., NM (NAD 83)						
Reference Site:	Cotton Draw Unit #152H	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #152H, Grid North				
Reference Well:	Cotton Draw Unit #152H	Vertical (TVD) Reference:	SITE 3529.5				
Reference Wellpath:	1						Db: Sybase

Site: Cotton Draw Unit #137H
Well: Cotton Draw Unit #137H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
10400.00	8267.00	16641.91	8979.99	47.62	140.53	201.81	-2426.00	323.31	860.31	760.32	8.60	
10500.00	8267.00	16590.46	8979.99	49.31	139.60	201.82	-2477.45	323.55	859.05	758.66	8.56	
10600.00	8267.00	16490.46	8979.99	51.00	137.79	201.84	-2577.45	324.01	859.16	758.81	8.56	
10700.00	8267.00	16390.46	8979.99	52.71	135.98	201.86	-2677.45	324.46	859.26	758.96	8.57	
10800.00	8267.00	16290.46	8979.99	54.43	134.18	201.88	-2777.45	324.92	859.37	759.11	8.57	
10900.00	8267.00	16190.46	8979.99	56.15	132.37	201.89	-2877.44	325.38	859.48	759.24	8.57	
11000.00	8267.00	16090.46	8979.99	57.88	130.57	201.91	-2977.44	325.84	859.59	759.38	8.58	
11100.00	8267.00	15990.46	8979.99	59.61	128.77	201.93	-3077.44	326.29	859.69	759.51	8.58	
11200.00	8267.00	15890.46	8979.99	61.35	126.96	201.95	-3177.44	326.75	859.80	759.63	8.58	
11300.00	8267.00	15790.46	8979.99	63.09	125.16	201.96	-3277.44	327.21	859.91	759.75	8.59	
11400.00	8267.00	15690.46	8979.99	64.84	123.36	201.98	-3377.44	327.67	860.02	759.87	8.59	
11500.00	8267.00	15590.46	8979.99	66.60	121.56	202.00	-3477.44	328.12	860.12	759.98	8.59	
11600.00	8267.00	15490.46	8979.99	68.35	119.76	202.02	-3577.43	328.58	860.23	760.09	8.59	
11700.00	8267.00	15390.46	8979.99	70.11	117.96	202.04	-3677.43	329.04	860.34	760.20	8.59	
11800.00	8267.00	15290.46	8979.99	71.88	116.16	202.05	-3777.43	329.50	860.45	760.30	8.59	
11900.00	8267.00	15190.46	8979.99	73.64	114.36	202.07	-3877.43	329.96	860.56	760.40	8.59	
12000.00	8267.00	15090.46	8979.99	75.41	112.57	202.09	-3977.43	330.41	860.66	760.50	8.59	
12100.00	8267.00	14990.46	8979.99	77.18	110.77	202.11	-4077.43	330.87	860.77	760.59	8.59	
12200.00	8267.00	14890.46	8979.99	78.96	108.98	202.12	-4177.42	331.33	860.88	760.69	8.59	
12300.00	8267.00	14790.46	8979.99	80.74	107.18	202.14	-4277.42	331.79	860.99	760.78	8.59	
12400.00	8267.00	14690.46	8979.99	82.52	105.39	202.16	-4377.42	332.24	861.10	760.86	8.59	
12500.00	8267.00	14590.46	8979.99	84.30	103.60	202.18	-4477.42	332.70	861.21	760.95	8.59	
12600.00	8267.00	14490.47	8979.99	86.08	101.81	202.20	-4577.42	333.16	861.32	761.03	8.59	
12700.00	8267.00	14390.47	8979.99	87.87	100.02	202.21	-4677.42	333.62	861.42	761.11	8.59	
12800.00	8267.00	14290.47	8979.99	89.65	98.23	202.23	-4777.42	334.07	861.53	761.19	8.59	
12846.88	8267.00	14243.58	8979.99	90.49	97.40	202.24	-4824.30	334.29	861.58	761.23	8.59	

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: November 08, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #152H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 429849.030 USFT	Latitude 32.1803909 DEG
East/West 721592.720 USFT	Longitude -103.7507033 DEG
Grid Convergence: .31°	
Total Correction: +7.39°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.18039° N	32° 10 min 49.407 sec
Longitude =	103.75070° W	103° 45 min 2.532 sec

Magnetic Declination =	7.70°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6574
Local Field Strength =	48617 nT	Magnetic Vector X = 24001 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3244 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42155 nT
Spud Date =	Mar 15, 2011	Magnetic Vector H = 24219 nT

Signed: _____

Date: _____



Weatherford®

Drilling Services

Proposal



devon

COTTON DRAW UNIT #155H

EDDY COUNTY, NM

WELL FILE: PLAN 1

NOVEMBER 12, 2010

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com

Date: 11/12/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/12/2010	Time: 08:03:24	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cotton Draw Unit #155H; Grid North		
Site: Cotton Draw Unit #155H	Vertical (TVD) Reference: SITE 3524.0		
Well: Cotton Draw Unit #155H	Section (VS) Reference: Well (0.00N:0.00E:179.84Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 11/12/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)			
Map System: US State Plane Coordinate System 1983		Map Zone: New Mexico, Eastern Zone	
Geo Datum: GRS 1980		Coordinate System: Well Centre	
Sys Datum: Mean Sea Level		Geomagnetic Model: IGRF2010	

Site: Cotton Draw Unit #155H									
Site Position:		Northing:		429857.47 ft		Latitude:		32 10 49.411 N	
From: Map		Easting:		722917.19 ft		Longitude:		103 44 47.137 W	
Position Uncertainty:		0.00 ft				North Reference:		Grid	
Ground Level:		3499.00 ft				Grid Convergence:		0.31 deg	

Well: Cotton Draw Unit #155H				Slot Name:			
Well Position:	+N/-S	0.00 ft	Northing:	429857.47 ft	Latitude:	32 10	49.411 N
	+E/-W	0.00 ft	Easting :	722917.19 ft	Longitude:	103 44	47.137 W
Position Uncertainty:		0.00 ft					

Wellpath: 1		Drilled From: Surface	
Current Datum: SITE	Height 3524.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 4/15/2011		Above System Datum: Mean Sea Level	
Field Strength: 48613 nT		Declination: 7.68 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.12 deg	
ft	ft	+E/-W	Direction
		ft	deg
8172.00	0.00	0.00	179.84

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	179.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7697.04	0.00	179.84	7697.04	0.00	0.00	0.00	0.00	0.00	0.00	
8597.04	90.00	179.84	8270.00	-572.96	1.58	10.00	10.00	0.00	179.84	
12859.08	90.00	179.84	8270.00	-4834.98	13.35	0.00	0.00	0.00	0.00	Pbhl

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
7600.00	0.00	179.84	7600.00	0.00	0.00	0.00	0.00	429857.47	722917.19	
7697.01	0.00	179.84	7697.01	0.00	0.00	0.00	0.00	429857.47	722917.19	Kop
7697.04	0.00	179.84	7697.04	0.00	0.00	0.00	0.00	429857.47	722917.19	
7700.00	0.30	179.84	7700.00	-0.01	0.00	0.01	10.00	429857.46	722917.19	
7800.00	10.30	179.84	7799.45	-9.23	0.03	9.23	10.00	429848.24	722917.22	
7900.00	20.30	179.84	7895.78	-35.57	0.10	35.57	10.00	429821.90	722917.29	
8000.00	30.30	179.84	7986.08	-78.25	0.22	78.25	10.00	429779.22	722917.41	
8100.00	40.30	179.84	8067.59	-135.95	0.38	135.95	10.00	429721.52	722917.57	
8200.00	50.30	179.84	8137.85	-206.94	0.57	206.94	10.00	429650.53	722917.76	
8300.00	60.30	179.84	8194.71	-289.04	0.80	289.04	10.00	429568.43	722917.99	
8400.00	70.30	179.84	8236.45	-379.78	1.05	379.78	10.00	429477.69	722918.24	
8500.00	80.30	179.84	8261.80	-476.38	1.32	476.38	10.00	429381.09	722918.51	
8597.04	90.00	179.84	8270.00	-572.96	1.58	572.96	10.00	429284.51	722918.77	
8600.00	90.00	179.84	8270.00	-575.91	1.59	575.92	0.00	429281.56	722918.78	Lp
8700.00	90.00	179.84	8270.00	-675.91	1.87	675.92	0.00	429181.56	722919.06	
8800.00	90.00	179.84	8270.00	-775.91	2.14	775.92	0.00	429081.56	722919.33	
8900.00	90.00	179.84	8270.00	-875.91	2.42	875.92	0.00	428981.56	722919.61	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/12/2010	Time: 08:03:24	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cotton Draw Unit #155H, Grid North		
Site: Cotton Draw Unit #155H	Vertical (TVD) Reference: SITE 3524.0		
Well: Cotton Draw Unit #155H	Section (VS) Reference: Well (0.00N,0.00E,179.84Az)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9000.00	90.00	179.84	8270.00	-975.91	2.69	975.92	0.00	428881.56	722919.88	
9100.00	90.00	179.84	8270.00	-1075.91	2.97	1075.92	0.00	428781.56	722920.16	
9200.00	90.00	179.84	8270.00	-1175.91	3.25	1175.92	0.00	428681.56	722920.44	
9300.00	90.00	179.84	8270.00	-1275.91	3.52	1275.92	0.00	428581.56	722920.71	
9400.00	90.00	179.84	8270.00	-1375.91	3.80	1375.92	0.00	428481.56	722920.99	
9500.00	90.00	179.84	8270.00	-1475.91	4.08	1475.92	0.00	428381.56	722921.27	
9600.00	90.00	179.84	8270.00	-1575.91	4.35	1575.92	0.00	428281.56	722921.54	
9700.00	90.00	179.84	8270.00	-1675.91	4.63	1675.92	0.00	428181.56	722921.82	
9800.00	90.00	179.84	8270.00	-1775.91	4.90	1775.92	0.00	428081.56	722922.09	
9900.00	90.00	179.84	8270.00	-1875.91	5.18	1875.92	0.00	427981.56	722922.37	
10000.00	90.00	179.84	8270.00	-1975.91	5.46	1975.92	0.00	427881.56	722922.65	
10100.00	90.00	179.84	8270.00	-2075.91	5.73	2075.92	0.00	427781.56	722922.92	
10200.00	90.00	179.84	8270.00	-2175.91	6.01	2175.92	0.00	427681.56	722923.20	
10300.00	90.00	179.84	8270.00	-2275.91	6.28	2275.92	0.00	427581.56	722923.47	
10400.00	90.00	179.84	8270.00	-2375.91	6.56	2375.92	0.00	427481.56	722923.75	
10500.00	90.00	179.84	8270.00	-2475.91	6.84	2475.92	0.00	427381.56	722924.03	
10600.00	90.00	179.84	8270.00	-2575.91	7.11	2575.92	0.00	427281.56	722924.30	
10700.00	90.00	179.84	8270.00	-2675.91	7.39	2675.92	0.00	427181.56	722924.58	
10800.00	90.00	179.84	8270.00	-2775.91	7.66	2775.92	0.00	427081.56	722924.85	
10900.00	90.00	179.84	8270.00	-2875.90	7.94	2875.92	0.00	426981.57	722925.13	
11000.00	90.00	179.84	8270.00	-2975.90	8.22	2975.92	0.00	426881.57	722925.41	
11100.00	90.00	179.84	8270.00	-3075.90	8.49	3075.92	0.00	426781.57	722925.68	
11200.00	90.00	179.84	8270.00	-3175.90	8.77	3175.92	0.00	426681.57	722925.96	
11300.00	90.00	179.84	8270.00	-3275.90	9.05	3275.92	0.00	426581.57	722926.24	
11400.00	90.00	179.84	8270.00	-3375.90	9.32	3375.92	0.00	426481.57	722926.51	
11500.00	90.00	179.84	8270.00	-3475.90	9.60	3475.92	0.00	426381.57	722926.79	
11600.00	90.00	179.84	8270.00	-3575.90	9.87	3575.92	0.00	426281.57	722927.06	
11700.00	90.00	179.84	8270.00	-3675.90	10.15	3675.92	0.00	426181.57	722927.34	
11800.00	90.00	179.84	8270.00	-3775.90	10.43	3775.92	0.00	426081.57	722927.62	
11900.00	90.00	179.84	8270.00	-3875.90	10.70	3875.92	0.00	425981.57	722927.89	
12000.00	90.00	179.84	8270.00	-3975.90	10.98	3975.92	0.00	425881.57	722928.17	
12100.00	90.00	179.84	8270.00	-4075.90	11.25	4075.92	0.00	425781.57	722928.44	
12200.00	90.00	179.84	8270.00	-4175.90	11.53	4175.92	0.00	425681.57	722928.72	
12300.00	90.00	179.84	8270.00	-4275.90	11.81	4275.92	0.00	425581.57	722929.00	
12400.00	90.00	179.84	8270.00	-4375.90	12.08	4375.92	0.00	425481.57	722929.27	
12500.00	90.00	179.84	8270.00	-4475.90	12.36	4475.92	0.00	425381.57	722929.55	
12600.00	90.00	179.84	8270.00	-4575.90	12.63	4575.92	0.00	425281.57	722929.82	
12700.00	90.00	179.84	8270.00	-4675.90	12.91	4675.92	0.00	425181.57	722930.10	
12800.00	90.00	179.84	8270.00	-4775.90	13.19	4775.92	0.00	425081.57	722930.38	
12859.08	90.00	179.84	8270.00	-4834.98	13.35	4835.00	0.00	425022.49	722930.54	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl			8270.00	-4834.98	13.35	425022.49	722930.54	32 10 1.565 N	103 44 47.289 W



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #155H
Well: Cotton Draw Unit #155H
Wellpath: 1

Date: 11/12/2010 Time: 08:03:24 Page: 3
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #155H, Grid North
Vertical (TVD) Reference: SITE 3524.0
Section (VS) Reference: Well (0.00N,0.00E,179.84Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7697.01	7697.01	Kop
8597.04	8270.00	Lp
12859.08	8270.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: November 12, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #155H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 429857.470 USFT	Latitude 32.1803943 DEG
East/West 722917.190 USFT	Longitude -103.7464223 DEG
Grid Convergence: .31°	
Total Correction: +7.38°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.18039° N	32° 10 min 49.419 sec
Longitude =	103.74642° W	103° 44 min 47.120 sec

Magnetic Declination =	7.69°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6570
Local Field Strength =	48609 nT	Magnetic Vector X =	23999 nT
Magnetic Dip =	60.12°	Magnetic Vector Y =	3238 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42147 nT
Spud Date =	Apr 15, 2011	Magnetic Vector H =	24216 nT

Signed: _____

Date: _____



Weatherford®

Drilling Services

Proposal



devon

COTTON DRAW UNIT #156H

EDDY COUNTY, NM

WELL FILE: PLAN 1

NOVEMBER 12, 2010

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

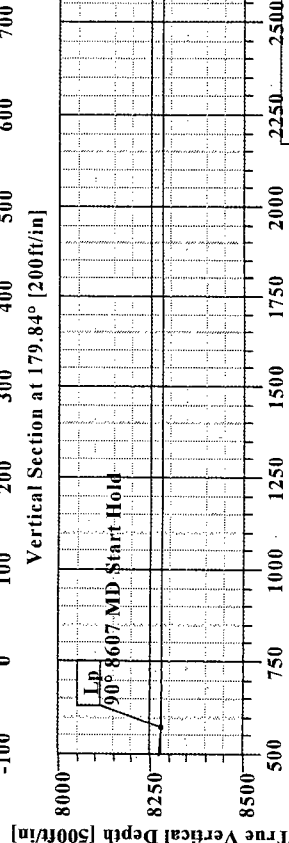
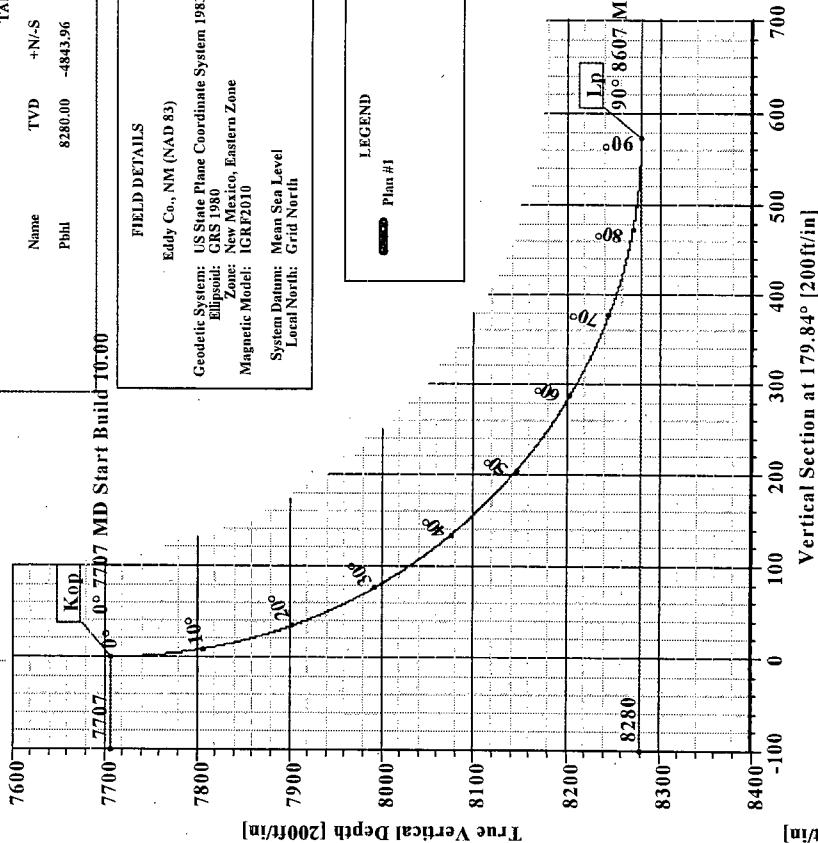
+1.432.561.8895 Fax

www.weatherford.com



Cotton Draw Unit #156H Eddy Co., NM

KB ELEV: 3518
GL ELEV: 3493

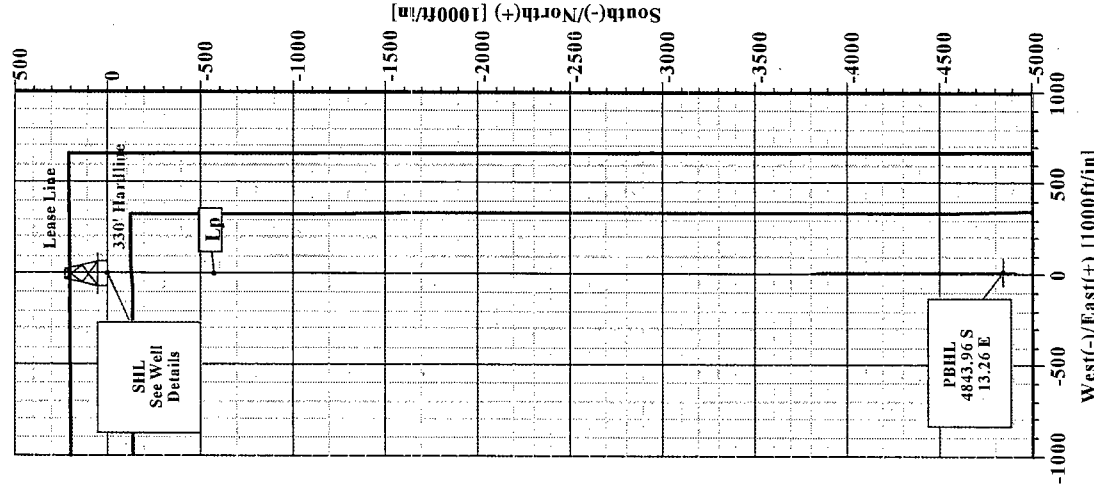
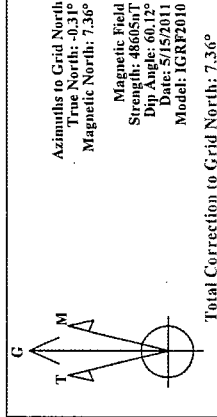


SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.84	0.00	0.00	0.00	0.00	0.00	0.00	
2	7707.04	0.00	179.84	7707.04	0.00	0.00	0.00	0.00	0.00	
3	8607.04	90.00	179.84	8280.00	-572.96	1.57	10.00	179.84	572.96	Pbhl
4	12878.06	90.00	179.84	8280.00	-4843.96	13.26	0.00	0.00	4843.98	Pbhl

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cotton Draw Unit #156H	0.00	0.00	429865.83	724237.32	32°10'49.422N	103°44'31.776W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8280.00	-4843.96	13.26	425021.87	724250.58	Point

FIELD DETAILS		SITE DETAILS	
Eddy Co., NM (NAD 83)		Cotton Draw Unit #156H	
Geodetic System: US State Plane Coordinate System 1983		Site Centre Northing: 429865.83	
Ellipsoid: GRS 1980		Easting: 724237.32	
Zone: New Mexico, Eastern Zone		Ground Level: 3493.00	
Magnetic Model: IGRF2010		Positional Uncertainty: 0.00	
System Datum: Mean Sea Level		Convergence: 0.31	
Local North: Grid North			



Vertical Section at 179.84° [5000ft/in]

Plan: Plan #1 (Cotton Draw Unit #156H/I)

Created By: Russell W. Joyner

Date: 11/12/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/12/2010	Time: 08:16:52	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #156H, Grid North	
Site: Cotton Draw Unit #156H	Vertical (TVD) Reference:	SITE 3518.0	
Well: Cotton Draw Unit #156H	Section (VS) Reference:	Well (0.00N,0.00E,179.84Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Plan: Plan #1	Date Composed: 11/12/2010
Principal: Yes	Version: 1
	Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit #156H

Site Position:	Northing:	429865.83 ft	Latitude:	32 10 49.422 N
From: Map	Easting:	724237.32 ft	Longitude:	103 44 31.776 W
Position Uncertainty:	0.00 ft		North Reference:	Grid
Ground Level:	3493.00 ft		Grid Convergence:	0.31 deg

Well: Cotton Draw Unit #156H	Slot Name:					
Well Position:	+N/-S	0.00 ft	Northing:	429865.83 ft	Latitude:	32 10 49.422 N
	+E/-W	0.00 ft	Easting:	724237.32 ft	Longitude:	103 44 31.776 W
Position Uncertainty:	0.00 ft					

Wellpath: 1	Drilled From:	Surface	
Current Datum: SITE	Tie-on Depth:	0.00 ft	
Magnetic Data: 5/15/2011	Above System Datum:	Mean Sea Level	
Field Strength: 48605 nT	Declination:	7.67 deg	
Vertical Section: Depth From (TVD)	Mag Dip Angle:	60.12 deg	
	+E/-W	Direction	
	ft	deg	
8280.00	0.00	0.00	179.84

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	179.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7707.04	0.00	179.84	7707.04	0.00	0.00	0.00	0.00	0.00	0.00	
8607.04	90.00	179.84	8230.00	-572.96	1.57	10.00	10.00	0.00	179.84	
12878.06	90.00	179.84	8230.00	-4843.96	13.26	0.00	0.00	0.00	0.00	Pbhl

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
7700.00	0.00	179.84	7700.00	0.00	0.00	0.00	0.00	429865.83	724237.32	Kop
7707.04	0.00	179.84	7707.04	0.00	0.00	0.00	0.00	429865.83	724237.32	
7800.00	9.30	179.84	7799.59	-7.52	0.02	7.52	10.00	429858.31	724237.34	
7900.00	19.30	179.84	7896.37	-32.19	0.09	32.19	10.00	429833.64	724237.41	
8000.00	29.30	179.84	7987.40	-73.28	0.20	73.28	10.00	429792.55	724237.52	
8100.00	39.30	179.84	8069.91	-129.55	0.35	129.55	10.00	429736.28	724237.67	
8200.00	49.30	179.84	8141.39	-199.30	0.55	199.30	10.00	429666.53	724237.87	Lp
8300.00	59.30	179.84	8199.68	-280.40	0.77	280.40	10.00	429585.43	724238.09	
8400.00	69.30	179.84	8243.00	-370.39	1.01	370.39	10.00	429495.44	724238.33	
8500.00	79.30	179.84	8270.03	-466.54	1.28	466.54	10.00	429399.29	724238.60	
8600.00	89.30	179.84	8279.96	-565.91	1.55	565.92	10.00	429299.92	724238.87	
8607.04	90.00	179.84	8280.00	-572.96	1.57	572.96	10.00	429292.87	724238.89	
8700.00	90.00	179.84	8280.00	-665.91	1.82	665.92	0.00	429199.92	724239.14	
8800.00	90.00	179.84	8280.00	-765.91	2.10	765.92	0.00	429099.92	724239.42	
8900.00	90.00	179.84	8280.00	-865.91	2.37	865.92	0.00	428999.92	724239.69	
9000.00	90.00	179.84	8280.00	-965.91	2.64	965.92	0.00	428899.92	724239.96	
9100.00	90.00	179.84	8280.00	-1065.91	2.92	1065.92	0.00	428799.92	724240.24	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 11/12/2010	Time: 08:16:52	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cotton Draw Unit #156H Grid North		
Site: Cotton Draw Unit #156H	Vertical (TVD) Reference: SITE 3518.0		
Well: Cotton Draw Unit #156H	Section (VS) Reference: Well (0.00N;0.00E;179.84Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9200.00	90.00	179.84	8280.00	-1165.91	3.19	1165.92	0.00	428699.92	724240.51	
9300.00	90.00	179.84	8280.00	-1265.91	3.47	1265.92	0.00	428599.92	724240.79	
9400.00	90.00	179.84	8280.00	-1365.91	3.74	1365.92	0.00	428499.92	724241.06	
9500.00	90.00	179.84	8280.00	-1465.91	4.01	1465.92	0.00	428399.92	724241.33	
9600.00	90.00	179.84	8280.00	-1565.91	4.29	1565.92	0.00	428299.92	724241.61	
9700.00	90.00	179.84	8280.00	-1665.91	4.56	1665.92	0.00	428199.92	724241.88	
9800.00	90.00	179.84	8280.00	-1765.91	4.83	1765.92	0.00	428099.92	724242.15	
9900.00	90.00	179.84	8280.00	-1865.91	5.11	1865.92	0.00	427999.92	724242.43	
10000.00	90.00	179.84	8280.00	-1965.91	5.38	1965.92	0.00	427899.92	724242.70	
10100.00	90.00	179.84	8280.00	-2065.91	5.66	2065.92	0.00	427799.92	724242.98	
10200.00	90.00	179.84	8280.00	-2165.91	5.93	2165.92	0.00	427699.92	724243.25	
10300.00	90.00	179.84	8280.00	-2265.91	6.20	2265.92	0.00	427599.92	724243.52	
10400.00	90.00	179.84	8280.00	-2365.91	6.48	2365.92	0.00	427499.92	724243.80	
10500.00	90.00	179.84	8280.00	-2465.91	6.75	2465.92	0.00	427399.92	724244.07	
10600.00	90.00	179.84	8280.00	-2565.91	7.02	2565.92	0.00	427299.92	724244.34	
10700.00	90.00	179.84	8280.00	-2665.91	7.30	2665.92	0.00	427199.92	724244.62	
10800.00	90.00	179.84	8280.00	-2765.91	7.57	2765.92	0.00	427099.92	724244.89	
10900.00	90.00	179.84	8280.00	-2865.90	7.85	2865.92	0.00	426999.93	724245.17	
11000.00	90.00	179.84	8280.00	-2965.90	8.12	2965.92	0.00	426899.93	724245.44	
11100.00	90.00	179.84	8280.00	-3065.90	8.39	3065.92	0.00	426799.93	724245.71	
11200.00	90.00	179.84	8280.00	-3165.90	8.67	3165.92	0.00	426699.93	724245.99	
11300.00	90.00	179.84	8280.00	-3265.90	8.94	3265.92	0.00	426599.93	724246.26	
11400.00	90.00	179.84	8280.00	-3365.90	9.21	3365.92	0.00	426499.93	724246.53	
11500.00	90.00	179.84	8280.00	-3465.90	9.49	3465.92	0.00	426399.93	724246.81	
11600.00	90.00	179.84	8280.00	-3565.90	9.76	3565.92	0.00	426299.93	724247.08	
11700.00	90.00	179.84	8280.00	-3665.90	10.04	3665.92	0.00	426199.93	724247.36	
11800.00	90.00	179.84	8280.00	-3765.90	10.31	3765.92	0.00	426099.93	724247.63	
11900.00	90.00	179.84	8280.00	-3865.90	10.58	3865.92	0.00	425999.93	724247.90	
12000.00	90.00	179.84	8280.00	-3965.90	10.86	3965.92	0.00	425899.93	724248.18	
12100.00	90.00	179.84	8280.00	-4065.90	11.13	4065.92	0.00	425799.93	724248.45	
12200.00	90.00	179.84	8280.00	-4165.90	11.40	4165.92	0.00	425699.93	724248.72	
12300.00	90.00	179.84	8280.00	-4265.90	11.68	4265.92	0.00	425599.93	724249.00	
12400.00	90.00	179.84	8280.00	-4365.90	11.95	4365.92	0.00	425499.93	724249.27	
12500.00	90.00	179.84	8280.00	-4465.90	12.23	4465.92	0.00	425399.93	724249.55	
12600.00	90.00	179.84	8280.00	-4565.90	12.50	4565.92	0.00	425299.93	724249.82	
12700.00	90.00	179.84	8280.00	-4665.90	12.77	4665.92	0.00	425199.93	724250.09	
12800.00	90.00	179.84	8280.00	-4765.90	13.05	4765.92	0.00	425099.93	724250.37	
12878.06	90.00	179.84	8280.00	-4843.96	13.26	4843.98	0.00	425021.87	724250.58	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	Latitude Deg Min Sec	Longitude Deg Min Sec
Pbhl			8280.00	-4843.96	13.26	425021.87	724250.58	32 10 1.488 N	103 44 31.932 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy	Date: 11/12/2010	Time: 08:16:52	Page: 3
Field: Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cotton Draw Unit #156H, Grid North	
Site: Cotton Draw Unit #156H	Vertical (TVD) Reference:	SITE 3518.0	
Well: Cotton Draw Unit #156H	Section (VS) Reference:	Well (0.00N,0.00E,179.84Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
7707.04	7707.04	Kop
8607.04	8280.00	Lp
12878.06	8280.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

**Weatherford****Weatherford Drilling Services**

GeoDec v5.03

Report Date: November 12, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #156H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 429865.830 USFT	Latitude 32.1803974 DEG
East/West 724237.320 USFT	Longitude -103.7421554 DEG
Grid Convergence: .31°	
Total Correction: +7.36°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.18040° N	32° 10 min 49.431 sec
Longitude =	103.74216° W	103° 44 min 31.759 sec

Magnetic Declination =	7.67°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6510
Local Field Strength =	48601 nT	Magnetic Vector X = 23996 nT
Magnetic Dip =	60.12°	Magnetic Vector Y = 3233 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42140 nT
Spud Date =	May 15, 2011	Magnetic Vector H = 24213 nT

Signed: _____

Date: _____

