

Secretary's
R-111-POTASH

OCD Artesia

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a Type of work: ☒ DRILL ☐ REENTER		5 Lease Serial No. NMNM-036379; K-4562
1b Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6 If Indian, Allottee or Tribe Name
2 Name of Operator Devon Energy Production Company, LP		7 If Unit or CA Agreement, Name and No
3a Address 20 North Broadway Oklahoma City, Oklahoma City 73102-8260		8 Lease Name and Well No Cotton Draw Unit 139H
3b. Phone No. (include area code) 405-228-8699		9 API Well No. 30-015-39306
4 Location of Well (Report location clearly and in accordance with any State requirements *) At surface SW/4 SE/4 200 FSL & 1650 FEL UNIT O PP: 194 FSL 1733 FEL At proposed prod zone NW/4 SE/4 2600 FSL & 1642 FEL UNIT J SEC 35 T24S R31E		10 Field and Pool, or Exploratory Pierce Crossing E. PADUCA; BONE SPRING
11 Sec, T R M or Bk and Survey or Area SEC 2 T25S R31E		12 County or Parish Eddy County
13 State NM		14 Distance in miles and direction from nearest town or post office* Approximately 22 miles southeast of Loving, NM.
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig unit line, if any) 40'	16 No of acres in lease 639.92 Acres	17 Spacing Unit dedicated to this well 477.75 Acres
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. See attached map.	19 Proposed Depth 16,440' MD 9015' TVD	20 BLM/BIA Bond No on file CO-1104
21 Elevations (Show whether DF, KDB, RT, GL, etc) 3443.3 ' GL	22 Approximate date work will start*	23 Estimated duration 45 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|--|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) |
| 2. A Drilling Plan | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office) | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25 Signature <i>Judy A. Barnett</i>	Name (Printed/Typed) Judy A. Barnett	Date 03/01/2011
Title Regulatory Specialist		

Approved by (Signature) <i>Michael Tupper</i>	Name (Printed/Typed) Michael Tupper	Date MAY 20 2011
Title STATE DIRECTOR		Office NM STATE OFFICE

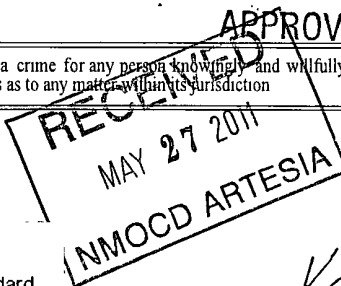
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*(Instructions on page 2)

Carlsbad Controlled Water Basin

OCD CONDITION OF APPROVAL for Drilling:
Intent to drill ONLY --- CANNOT produce until the Non-Standard Location has been approved by OCD Santa Fe office



Approval Subject to General Requirements & Special Stipulations Attached

K2 05/11/11

SEE ATTACHED FOR CONDITIONS OF APPROVAL

[Handwritten initials]

DRILLING PROGRAM

Devon Energy Production Company, LP

Cotton Draw Unit 139H

Surface Location: 200' FSL & 1650' FEL, Unit O, Sec 2 T25S R31E, Eddy, NM

Bottom Hole Location: 2600' FNL & 1642' FEL, Unit J, Sec 35 T24S R31E, Eddy, NM

1. **Geologic Name of Surface Formation**

a. Quaternary

2. **Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:**

a. Fresh Water	180'	
b. Rustler	665'	
c. Salado Salt	1034'	
d. Castile	2790'	
e. Base of Salt	4132'	
f. Lamar	4345'	Oil
g. Bell Canyon	4382'	Oil
h. Cherry Canyon	5350'	Oil
i. Brushy Canyon	6672'	Oil
j. 1 st Bone Spring LM	8274'	Oil/Gas
k. Avalon Shale	8802'	Oil/Gas
l. Total Depth	16,440'	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 17 1/2" casing at ~~725'~~ and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4350' and circulating cement to surface. The Bone Spring intervals will be isolated by setting 5 1/2" casing to total depth and circulating cement above the base of the 9 5/8" casing.

Casing Program:

	<u>Hole Size</u>	<u>Hole Interval</u>	<u>OD Csg</u>	<u>Casing Interval</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>
See COA	17 1/2"	0 - 725' 750	13 3/8"	0' - 725'	48#	STC	H-40
	12 1/4"	725 -4350'	9 5/8"	0'-4350'	40#	LTC	J-55
	8 3/4"	4350-7800'	5 1/2"	0-7800'	20#	LTC	HCP110
	8 3/4"	7800-16440'	5 1/2"	7800-16,440'	17#	BTC	HCP110

Design Parameter Factors:

<u>Casing Size</u>	<u>Collapse Design</u>	<u>Burst Design</u>	<u>Tension Design</u>
	<u>Factor</u>	<u>Factor</u>	<u>Factor</u>
13 3/8"	2.27	5.10	8.25
9 5/8" 40#	1.26	1.74	2.98
5 1/2" 20#	2.04	2.91	1.60
5 1/2" 17#	1.77	2.53	3.62

NOTE REGARDING COLLAPSE DESIGN FACTOR FOR INTERMEDIATE CASING: The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. The pore pressure is estimated to be 9.0 ppg for this calculation. This results in a collapse design factor of 1.26 for the 9-5/8" 40# J-55 LTC casing at a depth of 4,350'. While running the intermediate casing, the casing string will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string.

Cementing Program (cement volumes based on at least 25% excess)

Cement Program:

13 3/8"

Lead 600 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg **Yield:** 1.75 cf/sk

TOC @ surface

Tail 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg **Yield:** 1.35 cf/sk

See
COA

9 5/8" Intermediate

Lead: 1,200 sacks (35:65) Poz (Fly Ash): Class C Cement + 5% bwoc Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg **Yield:** 2.04 cf/sk

TOC @ surface

Tail 300 sacks (60:40) Poz (Fly Ash): Class C Cement + 5% bwoc Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg **Yield:** 1.37 cf/sk

5 1/2" Production

1st Stage

Lead: 500 sacks (35:65) Poz (Fly Ash): Class H Cement + 5% bwoc Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg **Yield:** 2.01 cf/sk

Tail 2,500 sacks (50:50) Poz (Fly Ash): Class H Cement + 1% bwoc Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg **Yield:** 1.28 cf/sk

DV TOOL at 6,000'

2nd Stage

Lead: 700 sacks Class C Cement + 1% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg **Yield:** 2.89 cf/sk

Tail 100 sacks (60:40) Poz (Fly Ash): Class C Cement + 1% bwoc Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg **Yield:** 1.37 cf/sk **TOC @ 3,850'**

TOC for All Strings

Surface	0
Intermediate	0
Production	3,850'

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

All casing is new and API approved

Pressure Control Equipment BOP DESIGN:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **3M system** prior to drilling out the surface casing shoe.

The BOP system used to drill the production hole will consist of a 13-5/8" 3M Triple Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order No. 2 as a **3M system** prior to drilling out the intermediate casing shoe.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at **3,000 psi WP**.

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

Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt.</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 725' 750'	8.4-9.0	30-34	NC	FW
725' - 4350'	9.8-10.0	28-32	NC	Brine
4350' - 16,440'	8.6-9.0	28-32	NC	FW

The necessary mud products for weight addition and fluid loss control will be on location at all times.

3. Auxiliary Well Control and Monitoring Equipment:

- A Kelly cock will be in the drill string at all times.
- A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
- Hydrogen Sulfide detection equipment will be in operation after drilling out the 20" casing shoe until the 5 1/2" casing is cemented. Breathing equipment will be on location upon drilling the 20" shoe until total depth is reached.

4. Logging, Coring, and Testing Program: *See COA*

- Drill stem tests will be based on geological sample shows.
- If a drill stem test is anticipated; a procedure, equipment to be used and safety measures will be provided via sundry notice to the BLM.

- c. The open hole electrical logging program will be:
 - i. Total Depth to Intermediate Casing Dual Laterolog-Micro Laterolog with SP and Gamma Ray. Compensated Neutron – Z Density log with Gamma Ray and Caliper.
 - ii. Total Depth to Surface Compensated Neutron with Gamma Ray
 - iii. No coring program is planned
 - iv. Additional testing will be initiated subsequent to setting the 5 ½” production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

5. Potential Hazards:

- a. No abnormal pressures or temperatures are expected. There is no known presence of H₂S in this area. If H₂S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4200 psi and Estimated BHT 140°. No H₂S is anticipated to be encountered.

6. Anticipated Starting Date and Duration of Operations:

- a. Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 32 days. If production casing is run then an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.

7. Depending on rig availability, Devon may set the surface casing using an Ashton Oilfield Services rig. The rig plat is attached. This rig will be used only to set the surface casing and will leave the location once the surface casing has been run and cemented. Another rig will drill the remainder of the wellbore. The reasons for using the smaller rig to set surface are: rig availability and economics.
- See
com*

The BLM will be contacted 24 hours prior to commencing drilling operations. The surface casing will be run and cemented back to surface as per the approved APD. The well will be secured with a cap welded onto the surface casing. Another rig will be on location to drill the remainder of the wellbore within 60 days after the Ashton rig has left the location.



Weatherford[®]

Drilling Services

Proposal



devon

COTTON DRAW UNIT #139H

EDDY COUNTY, NM

WELL FILE: PLAN 1

FEBRUARY 7, 2011

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

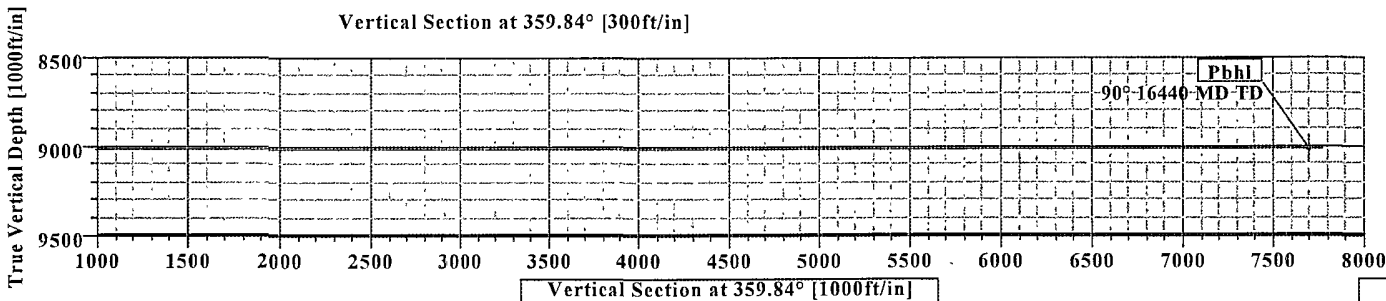
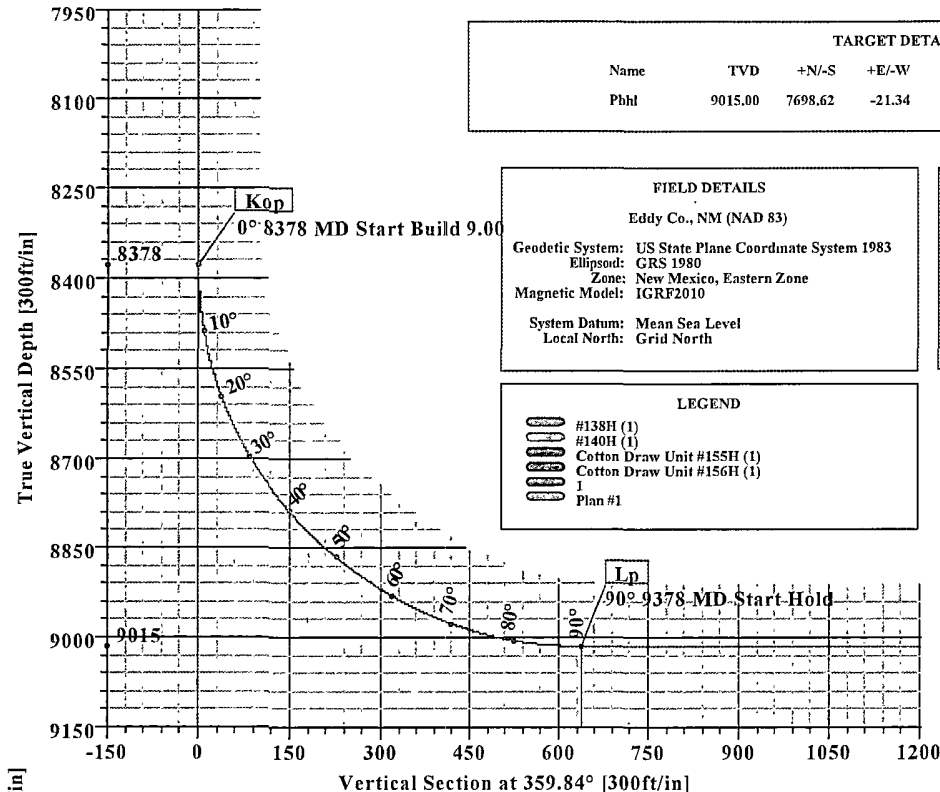
+1.432.561.8895 Fax

www.weatherford.com



Cotton Draw #139H
Eddy Co., New Mexico

KB ELEV: 3468
GL ELEV: 3443



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.84	0.00	0.00	0.00	0.00	0.00	0.00	
2	8378.38	0.00	359.84	8378.38	0.00	0.00	0.00	0.00	0.00	
3	9378.38	90.00	359.84	9015.00	636.62	-1.76	9.00	359.84	636.62	
4	16440.41	90.00	359.84	9015.00	7698.62	-21.34	0.00	0.00	7698.65	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#139H	0.00	0.00	419723.71	723283.81	32°09'09.111N	103°44'43.515W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	9015.00	7698.62	-21.34	427422.33	723262.47	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: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

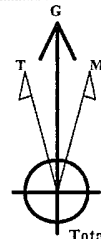
Cotton Draw Unit #139H

Site Centre Northing: 419723.71
Easting: 723283.81

Ground Level: 3443.00
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

- #138H (1)
- #140H (1)
- Cotton Draw Unit #155H (1)
- Cotton Draw Unit #156H (1)
- 1
- Plan #1



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.33°

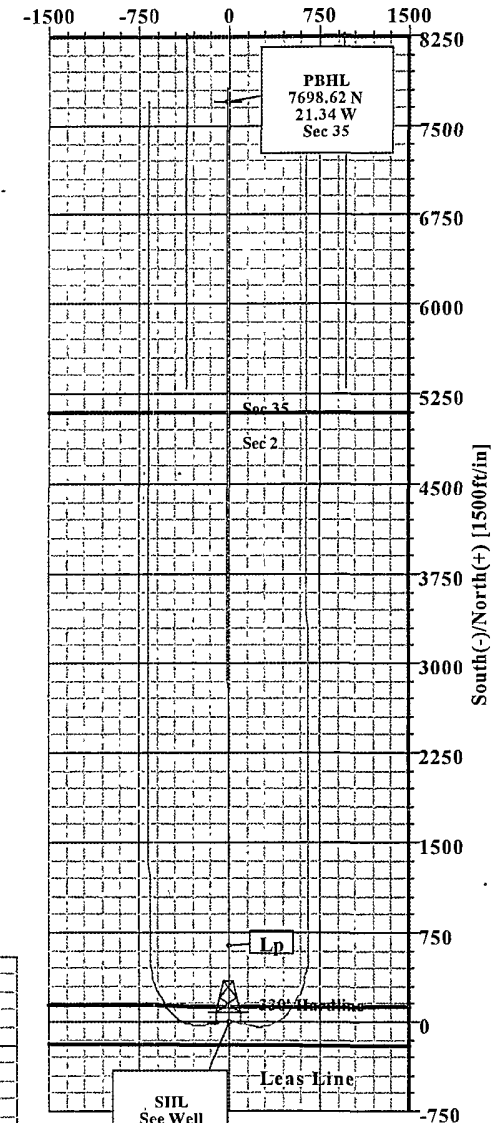
Magnetic Field
Strength: 48563nT
Dip Angle: 60.09°
Date: 8/15/2011
Model: IGRF2010

Total Correction to Grid North: 7.33°



Weatherford®

West(-)/East(+) [1500ft/in]



Plan: Plan #1 (#139H/1)

Created By: Russell W. Joyner

Date: 2/7/2011



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy		Date: 2/7/2011	Time: 12:37:11	Page: 1						
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: #139H, Grid North								
Site: Cotton Draw Unit #139H		Vertical (TVD) Reference: SITE 3468.0								
Well: #139H		Section (VS) Reference: Well (0.00N,0.00E,359.84Azi)								
Wellpath: 1		Survey Calculation Method: Minimum Curvature	Db: Sybase							
Plan: Plan #1		Date Composed: 2/7/2011								
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 #139H										
Site Position:		Northing: 419723.71 ft	Latitude: 32 9 9.111 N							
From: Map		Easting: 723283.81 ft	Longitude: 103 44 43.515 W							
Position Uncertainty: 0.00 ft		North Reference: Grid								
Ground Level: 3443.00 ft		Grid Convergence: 0.31 deg								
Well: #139H Slot Name:										
Well Position: +N/-S 0.00 ft		Northing: 419723.71 ft	Latitude: 32 9 9.111 N							
+E/-W 0.00 ft		Easting: 723283.81 ft	Longitude: 103 44 43.515 W							
Position Uncertainty: 0.00 ft										
Wellpath: 1										
Current Datum: SITE		Height 3468.00 ft	Drilled From: Surface							
Magnetic Data: 8/15/2011			Tie-on Depth: 0.00 ft							
Field Strength: 48563 nT			Above System Datum: Mean Sea Level							
Vertical Section: Depth From (TVD)		+N/-S	Declination: 7.64 deg							
ft		ft	Mag Dip Angle: 60.09 deg							
9015.00		0.00	+E/-W ft	Direction deg						
			0.00	359.84						
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	359.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8378.38	0.00	359.84	8378.38	0.00	0.00	0.00	0.00	0.00	0.00	
9378.38	90.00	359.84	9015.00	636.62	-1.76	9.00	9.00	0.00	359.84	
16440.41	90.00	359.84	9015.00	7698.62	-21.34	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
8300.00	0.00	359.84	8300.00	0.00	0.00	0.00	0.00	419723.71	723283.81	
8378.38	0.00	359.84	8378.38	0.00	0.00	0.00	0.00	419723.71	723283.81	Kop
8400.00	1.95	359.84	8400.00	0.37	0.00	0.37	9.00	419724.08	723283.81	
8500.00	10.95	359.84	8499.26	11.58	-0.03	11.58	9.00	419735.29	723283.78	
8600.00	19.95	359.84	8595.55	38.19	-0.11	38.19	9.00	419761.90	723283.70	
8700.00	28.95	359.84	8686.49	79.53	-0.22	79.53	9.00	419803.24	723283.59	
8800.00	37.95	359.84	8769.85	134.59	-0.37	134.59	9.00	419858.30	723283.44	
8900.00	46.95	359.84	8843.56	202.01	-0.56	202.01	9.00	419925.72	723283.25	
9000.00	55.95	359.84	8905.82	280.13	-0.78	280.13	9.00	420003.84	723283.03	
9100.00	64.95	359.84	8955.10	367.03	-1.02	367.03	9.00	420090.74	723282.79	
9200.00	73.95	359.84	8990.17	460.56	-1.28	460.56	9.00	420184.27	723282.53	
9300.00	82.95	359.84	9010.18	558.44	-1.55	558.44	9.00	420282.15	723282.26	
9378.38	90.00	359.84	9015.00	636.62	-1.76	636.62	9.00	420360.33	723282.05	Lp
9400.00	90.00	359.84	9015.00	658.24	-1.82	658.24	0.00	420381.95	723281.99	
9500.00	90.00	359.84	9015.00	758.24	-2.10	758.24	0.00	420481.95	723281.71	
9600.00	90.00	359.84	9015.00	858.24	-2.38	858.24	0.00	420581.95	723281.43	
9700.00	90.00	359.84	9015.00	958.24	-2.66	958.24	0.00	420681.95	723281.15	



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 2/7/2011	Time: 12.37:11	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #139H, Grid North		
Site: Cotton Draw Unit #139H	Vertical (TVD) Reference: SITE 3468.0		
Well: #139H	Section (VS) Reference: Well (0.00N,0.00E,359.84Azi)		
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
9800.00	90.00	359.84	9015.00	1058.24	-2.93	1058.24	0.00	420781.95	723280.88	
9900.00	90.00	359.84	9015.00	1158.24	-3.21	1158.24	0.00	420881.95	723280.60	
10000.00	90.00	359.84	9015.00	1258.23	-3.49	1258.24	0.00	420981.94	723280.32	
10100.00	90.00	359.84	9015.00	1358.23	-3.76	1358.24	0.00	421081.94	723280.05	
10200.00	90.00	359.84	9015.00	1458.23	-4.04	1458.24	0.00	421181.94	723279.77	
10300.00	90.00	359.84	9015.00	1558.23	-4.32	1558.24	0.00	421281.94	723279.49	
10400.00	90.00	359.84	9015.00	1658.23	-4.60	1658.24	0.00	421381.94	723279.21	
10500.00	90.00	359.84	9015.00	1758.23	-4.87	1758.24	0.00	421481.94	723278.94	
10600.00	90.00	359.84	9015.00	1858.23	-5.15	1858.24	0.00	421581.94	723278.66	
10700.00	90.00	359.84	9015.00	1958.23	-5.43	1958.24	0.00	421681.94	723278.38	
10800.00	90.00	359.84	9015.00	2058.23	-5.71	2058.24	0.00	421781.94	723278.10	
10900.00	90.00	359.84	9015.00	2158.23	-5.98	2158.24	0.00	421881.94	723277.83	
11000.00	90.00	359.84	9015.00	2258.23	-6.26	2258.24	0.00	421981.94	723277.55	
11100.00	90.00	359.84	9015.00	2358.23	-6.54	2358.24	0.00	422081.94	723277.27	
11200.00	90.00	359.84	9015.00	2458.23	-6.81	2458.24	0.00	422181.94	723277.00	
11300.00	90.00	359.84	9015.00	2558.23	-7.09	2558.24	0.00	422281.94	723276.72	
11400.00	90.00	359.84	9015.00	2658.23	-7.37	2658.24	0.00	422381.94	723276.44	
11500.00	90.00	359.84	9015.00	2758.23	-7.65	2758.24	0.00	422481.94	723276.16	
11600.00	90.00	359.84	9015.00	2858.23	-7.92	2858.24	0.00	422581.94	723275.89	
11700.00	90.00	359.84	9015.00	2958.23	-8.20	2958.24	0.00	422681.94	723275.61	
11800.00	90.00	359.84	9015.00	3058.23	-8.48	3058.24	0.00	422781.94	723275.33	
11900.00	90.00	359.84	9015.00	3158.23	-8.75	3158.24	0.00	422881.94	723275.06	
12000.00	90.00	359.84	9015.00	3258.23	-9.03	3258.24	0.00	422981.94	723274.78	
12100.00	90.00	359.84	9015.00	3358.23	-9.31	3358.24	0.00	423081.94	723274.50	
12200.00	90.00	359.84	9015.00	3458.23	-9.59	3458.24	0.00	423181.94	723274.22	
12300.00	90.00	359.84	9015.00	3558.23	-9.86	3558.24	0.00	423281.94	723273.95	
12400.00	90.00	359.84	9015.00	3658.23	-10.14	3658.24	0.00	423381.94	723273.67	
12500.00	90.00	359.84	9015.00	3758.23	-10.42	3758.24	0.00	423481.94	723273.39	
12600.00	90.00	359.84	9015.00	3858.22	-10.69	3858.24	0.00	423581.93	723273.12	
12700.00	90.00	359.84	9015.00	3958.22	-10.97	3958.24	0.00	423681.93	723272.84	
12800.00	90.00	359.84	9015.00	4058.22	-11.25	4058.24	0.00	423781.93	723272.56	
12900.00	90.00	359.84	9015.00	4158.22	-11.53	4158.24	0.00	423881.93	723272.28	
13000.00	90.00	359.84	9015.00	4258.22	-11.80	4258.24	0.00	423981.93	723272.01	
13100.00	90.00	359.84	9015.00	4358.22	-12.08	4358.24	0.00	424081.93	723271.73	
13200.00	90.00	359.84	9015.00	4458.22	-12.36	4458.24	0.00	424181.93	723271.45	
13300.00	90.00	359.84	9015.00	4558.22	-12.64	4558.24	0.00	424281.93	723271.17	
13400.00	90.00	359.84	9015.00	4658.22	-12.91	4658.24	0.00	424381.93	723270.90	
13500.00	90.00	359.84	9015.00	4758.22	-13.19	4758.24	0.00	424481.93	723270.62	
13600.00	90.00	359.84	9015.00	4858.22	-13.47	4858.24	0.00	424581.93	723270.34	
13700.00	90.00	359.84	9015.00	4958.22	-13.74	4958.24	0.00	424681.93	723270.07	
13800.00	90.00	359.84	9015.00	5058.22	-14.02	5058.24	0.00	424781.93	723269.79	
13900.00	90.00	359.84	9015.00	5158.22	-14.30	5158.24	0.00	424881.93	723269.51	
14000.00	90.00	359.84	9015.00	5258.22	-14.58	5258.24	0.00	424981.93	723269.23	
14100.00	90.00	359.84	9015.00	5358.22	-14.85	5358.24	0.00	425081.93	723268.96	
14200.00	90.00	359.84	9015.00	5458.22	-15.13	5458.24	0.00	425181.93	723268.68	
14300.00	90.00	359.84	9015.00	5558.22	-15.41	5558.24	0.00	425281.93	723268.40	
14400.00	90.00	359.84	9015.00	5658.22	-15.68	5658.24	0.00	425381.93	723268.13	
14500.00	90.00	359.84	9015.00	5758.22	-15.96	5758.24	0.00	425481.93	723267.85	
14600.00	90.00	359.84	9015.00	5858.22	-16.24	5858.24	0.00	425581.93	723267.57	
14700.00	90.00	359.84	9015.00	5958.22	-16.52	5958.24	0.00	425681.93	723267.29	
14800.00	90.00	359.84	9015.00	6058.22	-16.79	6058.24	0.00	425781.93	723267.02	
14900.00	90.00	359.84	9015.00	6158.22	-17.07	6158.24	0.00	425881.93	723266.74	
15000.00	90.00	359.84	9015.00	6258.22	-17.35	6258.24	0.00	425981.93	723266.46	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #139H
Well: #139H
Wellpath: 1

Date: 2/7/2011 Time: 12:37:11 Page: 3
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0
Section (VS) Reference: Well (0.00N,0.00E,359.84Azi)
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
15100.00	90.00	359.84	9015.00	6358.22	-17.62	6358.24	0.00	426081.93	723266.19	
15200.00	90.00	359.84	9015.00	6458.21	-17.90	6458.24	0.00	426181.92	723265.91	
15300.00	90.00	359.84	9015.00	6558.21	-18.18	6558.24	0.00	426281.92	723265.63	
15400.00	90.00	359.84	9015.00	6658.21	-18.46	6658.24	0.00	426381.92	723265.35	
15500.00	90.00	359.84	9015.00	6758.21	-18.73	6758.24	0.00	426481.92	723265.08	
15600.00	90.00	359.84	9015.00	6858.21	-19.01	6858.24	0.00	426581.92	723264.80	
15700.00	90.00	359.84	9015.00	6958.21	-19.29	6958.24	0.00	426681.92	723264.52	
15800.00	90.00	359.84	9015.00	7058.21	-19.56	7058.24	0.00	426781.92	723264.25	
15900.00	90.00	359.84	9015.00	7158.21	-19.84	7158.24	0.00	426881.92	723263.97	
16000.00	90.00	359.84	9015.00	7258.21	-20.12	7258.24	0.00	426981.92	723263.69	
16100.00	90.00	359.84	9015.00	7358.21	-20.40	7358.24	0.00	427081.92	723263.41	
16200.00	90.00	359.84	9015.00	7458.21	-20.67	7458.24	0.00	427181.92	723263.14	
16300.00	90.00	359.84	9015.00	7558.21	-20.95	7558.24	0.00	427281.92	723262.86	
16400.00	90.00	359.84	9015.00	7658.21	-21.23	7658.24	0.00	427381.92	723262.58	
16440.41	90.00	359.84	9015.00	7698.62	-21.34	7698.65	0.00	427422.33	723262.47	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			9015.00	7698.62	-21.34	427422.33	723262.47	32	10	25.295 N	103	44	43.274 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8378.38	8378.38	Kop
9378.38	9015.00	Lp
16440.40	9015.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/7/2011 Time: 15:18:50 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H Co-ordinate(NE) Reference: Well: #139H, Grid North
Reference Well: #139H Vertical (TVD) Reference: SITE 3468.0
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 16440.41 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: 2/7/2011
Principal: Yes Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw Unit #13#138H		1 V0 Plan: Plan #1 V1	8000.00	8000.00	50.04	14.36	1.40	Level 3
Cotton Draw Unit #14#140H		1 V0 Plan: Plan #1 V1	8000.00	8000.00	49.96	14.28	1.40	Level 3
Cotton Draw Unit #15Cotton Draw Unit #151		V0 Plan: Plan #1 V1	16440.41	10460.17	869.61	767.64	8.53	
Cotton Draw Unit #15Cotton Draw Unit #151		V0 Plan: Plan #1 V1	16440.41	10474.91	1256.84	1100.86	8.06	

Site: Cotton Draw Unit #138H

Well: #138H

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	0.00	0.00	0.00	0.00	270.26	0.23	-50.04	50.04			No Data
100.00	100.00	100.00	100.00	0.08	0.08	270.26	0.23	-50.04	50.04	49.87	296.85	
200.00	200.00	200.00	200.00	0.31	0.31	270.26	0.23	-50.04	50.04	49.42	80.96	
300.00	300.00	300.00	300.00	0.53	0.53	270.26	0.23	-50.04	50.04	48.97	46.87	
400.00	400.00	400.00	400.00	0.76	0.76	270.26	0.23	-50.04	50.04	48.52	32.98	
500.00	500.00	500.00	500.00	0.98	0.98	270.26	0.23	-50.04	50.04	48.07	25.44	
600.00	600.00	600.00	600.00	1.21	1.21	270.26	0.23	-50.04	50.04	47.62	20.71	
700.00	700.00	700.00	700.00	1.43	1.43	270.26	0.23	-50.04	50.04	47.17	17.46	
800.00	800.00	800.00	800.00	1.66	1.66	270.26	0.23	-50.04	50.04	46.73	15.09	
900.00	900.00	900.00	900.00	1.88	1.88	270.26	0.23	-50.04	50.04	46.28	13.29	
1000.00	1000.00	1000.00	1000.00	2.11	2.11	270.26	0.23	-50.04	50.04	45.83	11.87	
1100.00	1100.00	1100.00	1100.00	2.33	2.33	270.26	0.23	-50.04	50.04	45.38	10.73	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	270.26	0.23	-50.04	50.04	44.93	9.79	
1300.00	1300.00	1300.00	1300.00	2.78	2.78	270.26	0.23	-50.04	50.04	44.48	9.00	
1400.00	1400.00	1400.00	1400.00	3.01	3.01	270.26	0.23	-50.04	50.04	44.03	8.32	
1500.00	1500.00	1500.00	1500.00	3.23	3.23	270.26	0.23	-50.04	50.04	43.58	7.74	
1600.00	1600.00	1600.00	1600.00	3.46	3.46	270.26	0.23	-50.04	50.04	43.13	7.24	
1700.00	1700.00	1700.00	1700.00	3.68	3.68	270.26	0.23	-50.04	50.04	42.68	6.80	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	270.26	0.23	-50.04	50.04	42.23	6.41	
1900.00	1900.00	1900.00	1900.00	4.13	4.13	270.26	0.23	-50.04	50.04	41.78	6.06	
2000.00	2000.00	2000.00	2000.00	4.35	4.35	270.26	0.23	-50.04	50.04	41.33	5.75	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	270.26	0.23	-50.04	50.04	40.88	5.46	
2200.00	2200.00	2200.00	2200.00	4.80	4.80	270.26	0.23	-50.04	50.04	40.43	5.21	
2300.00	2300.00	2300.00	2300.00	5.03	5.03	270.26	0.23	-50.04	50.04	39.98	4.98	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	270.26	0.23	-50.04	50.04	39.53	4.76	
2500.00	2500.00	2500.00	2500.00	5.48	5.48	270.26	0.23	-50.04	50.04	39.08	4.57	
2600.00	2600.00	2600.00	2600.00	5.70	5.70	270.26	0.23	-50.04	50.04	38.63	4.39	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	270.26	0.23	-50.04	50.04	38.18	4.22	
2800.00	2800.00	2800.00	2800.00	6.15	6.15	270.26	0.23	-50.04	50.04	37.73	4.07	
2900.00	2900.00	2900.00	2900.00	6.38	6.38	270.26	0.23	-50.04	50.04	37.29	3.92	
3000.00	3000.00	3000.00	3000.00	6.60	6.60	270.26	0.23	-50.04	50.04	36.84	3.79	
3100.00	3100.00	3100.00	3100.00	6.83	6.83	270.26	0.23	-50.04	50.04	36.39	3.66	
3200.00	3200.00	3200.00	3200.00	7.05	7.05	270.26	0.23	-50.04	50.04	35.94	3.55	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	270.26	0.23	-50.04	50.04	35.49	3.44	
3400.00	3400.00	3400.00	3400.00	7.50	7.50	270.26	0.23	-50.04	50.04	35.04	3.34	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011
Time: 15:18:50
Page: 2

Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0
Db: Sybase

Site: Cotton Draw Unit #138H
Well: #138H
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	Factor		
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft				
3500.00	3500.00	3500.00	3500.00	7.73	7.73	270.26	0.23	-50.04	50.04	34.59	3.24			
3600.00	3600.00	3600.00	3600.00	7.95	7.95	270.26	0.23	-50.04	50.04	34.14	3.15			
3700.00	3700.00	3700.00	3700.00	8.18	8.18	270.26	0.23	-50.04	50.04	33.69	3.06			
3800.00	3800.00	3800.00	3800.00	8.40	8.40	270.26	0.23	-50.04	50.04	33.24	2.98			
3900.00	3900.00	3900.00	3900.00	8.63	8.63	270.26	0.23	-50.04	50.04	32.79	2.90			
4000.00	4000.00	4000.00	4000.00	8.85	8.85	270.26	0.23	-50.04	50.04	32.34	2.83			
4100.00	4100.00	4100.00	4100.00	9.07	9.07	270.26	0.23	-50.04	50.04	31.89	2.76			
4200.00	4200.00	4200.00	4200.00	9.30	9.30	270.26	0.23	-50.04	50.04	31.44	2.69			
4300.00	4300.00	4300.00	4300.00	9.52	9.52	270.26	0.23	-50.04	50.04	30.99	2.63			
4400.00	4400.00	4400.00	4400.00	9.75	9.75	270.26	0.23	-50.04	50.04	30.54	2.57			
4500.00	4500.00	4500.00	4500.00	9.97	9.97	270.26	0.23	-50.04	50.04	30.09	2.51			
4600.00	4600.00	4600.00	4600.00	10.20	10.20	270.26	0.23	-50.04	50.04	29.64	2.45			
4700.00	4700.00	4700.00	4700.00	10.42	10.42	270.26	0.23	-50.04	50.04	29.19	2.40			
4800.00	4800.00	4800.00	4800.00	10.65	10.65	270.26	0.23	-50.04	50.04	28.74	2.35			
4900.00	4900.00	4900.00	4900.00	10.87	10.87	270.26	0.23	-50.04	50.04	28.29	2.30			
5000.00	5000.00	5000.00	5000.00	11.10	11.10	270.26	0.23	-50.04	50.04	27.84	2.25			
5100.00	5100.00	5100.00	5100.00	11.32	11.32	270.26	0.23	-50.04	50.04	27.40	2.21			
5200.00	5200.00	5200.00	5200.00	11.55	11.55	270.26	0.23	-50.04	50.04	26.95	2.17			
5300.00	5300.00	5300.00	5300.00	11.77	11.77	270.26	0.23	-50.04	50.04	26.50	2.13			
5400.00	5400.00	5400.00	5400.00	12.00	12.00	270.26	0.23	-50.04	50.04	26.05	2.09			
5500.00	5500.00	5500.00	5500.00	12.22	12.22	270.26	0.23	-50.04	50.04	25.60	2.05			
5600.00	5600.00	5600.00	5600.00	12.45	12.45	270.26	0.23	-50.04	50.04	25.15	2.01			
5700.00	5700.00	5700.00	5700.00	12.67	12.67	270.26	0.23	-50.04	50.04	24.70	1.97			
5800.00	5800.00	5800.00	5800.00	12.90	12.90	270.26	0.23	-50.04	50.04	24.25	1.94			
5900.00	5900.00	5900.00	5900.00	13.12	13.12	270.26	0.23	-50.04	50.04	23.80	1.91			
6000.00	6000.00	6000.00	6000.00	13.35	13.35	270.26	0.23	-50.04	50.04	23.35	1.87			
6100.00	6100.00	6100.00	6100.00	13.57	13.57	270.26	0.23	-50.04	50.04	22.90	1.84			
6200.00	6200.00	6200.00	6200.00	13.80	13.80	270.26	0.23	-50.04	50.04	22.45	1.81			
6300.00	6300.00	6300.00	6300.00	14.02	14.02	270.26	0.23	-50.04	50.04	22.00	1.78			
6400.00	6400.00	6400.00	6400.00	14.24	14.24	270.26	0.23	-50.04	50.04	21.55	1.76			
6500.00	6500.00	6500.00	6500.00	14.47	14.47	270.26	0.23	-50.04	50.04	21.10	1.73			
6600.00	6600.00	6600.00	6600.00	14.69	14.69	270.26	0.23	-50.04	50.04	20.65	1.70			
6700.00	6700.00	6700.00	6700.00	14.92	14.92	270.26	0.23	-50.04	50.04	20.20	1.68			
6800.00	6800.00	6800.00	6800.00	15.14	15.14	270.26	0.23	-50.04	50.04	19.75	1.65			
6900.00	6900.00	6900.00	6900.00	15.37	15.37	270.26	0.23	-50.04	50.04	19.30	1.63			
7000.00	7000.00	7000.00	7000.00	15.59	15.59	270.26	0.23	-50.04	50.04	18.85	1.60			
7100.00	7100.00	7100.00	7100.00	15.82	15.82	270.26	0.23	-50.04	50.04	18.40	1.58			
7200.00	7200.00	7200.00	7200.00	16.04	16.04	270.26	0.23	-50.04	50.04	17.96	1.56			
7300.00	7300.00	7300.00	7300.00	16.27	16.27	270.26	0.23	-50.04	50.04	17.51	1.54			
7400.00	7400.00	7400.00	7400.00	16.49	16.49	270.26	0.23	-50.04	50.04	17.06	1.52			
7500.00	7500.00	7500.00	7500.00	16.72	16.72	270.26	0.23	-50.04	50.04	16.61	1.50			Level 3
7600.00	7600.00	7600.00	7600.00	16.94	16.94	270.26	0.23	-50.04	50.04	16.16	1.48			Level 3
7700.00	7700.00	7700.00	7700.00	17.17	17.17	270.26	0.23	-50.04	50.04	15.71	1.46			Level 3
7800.00	7800.00	7800.00	7800.00	17.39	17.39	270.26	0.23	-50.04	50.04	15.26	1.44			Level 3
7900.00	7900.00	7900.00	7900.00	17.62	17.62	270.26	0.23	-50.04	50.04	14.81	1.42			Level 3
8000.00	8000.00	8000.00	8000.00	17.84	17.84	270.26	0.23	-50.04	50.04	14.36	1.40			Level 3
8100.00	8100.00	8096.83	8096.81	18.07	18.05	270.00	0.00	-51.29	51.39	15.30	1.42			Level 3
8200.00	8200.00	8187.83	8186.90	18.29	18.23	267.98	-2.23	-63.30	64.68	28.44	1.78			
8300.00	8300.00	8273.72	8269.53	18.52	18.41	265.70	-6.47	-86.10	91.56	55.40	2.53			
8400.00	8400.00	8352.11	8341.61	18.74	18.59	265.02	-12.08	-116.29	130.71	94.79	3.64			
8500.00	8499.26	8420.62	8401.10	18.96	18.78	266.08	-18.27	-149.62	181.40	145.80	5.10			



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011

Time: 15:18:50

Page: 3

Co-ordinate(NE) Reference: Well. #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Db: Sybase

Site: Cotton Draw Unit #138H
Well: #138H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
8600.00	8595.55	8477.55	8447.53	19.17	18.97	267.56	-24.28	-181.98	242.67	207.35	6.87	
8700.00	8686.49	8534.09	8490.92	19.40	19.20	269.73	-30.42	-217.69	312.46	276.94	8.80	
8800.00	8769.85	8614.28	8552.08	19.65	19.54	270.70	-31.78	-269.45	384.06	347.57	10.52	
8900.00	8843.56	8706.81	8622.13	19.97	19.94	271.79	-20.84	-328.78	454.33	416.62	12.05	
9000.00	8905.82	8820.10	8705.09	20.38	20.41	272.29	10.46	-399.06	521.19	482.03	13.31	
9100.00	8955.10	8968.26	8804.80	20.89	21.01	271.77	79.47	-483.61	581.52	540.58	14.20	
9200.00	8990.17	9171.95	8916.66	21.52	21.82	270.44	219.49	-578.58	629.92	586.90	14.64	
9300.00	9010.18	9443.49	9003.19	22.27	22.87	269.61	463.81	-652.33	657.66	612.53	14.57	
9400.00	9015.00	9637.70	9015.00	23.12	23.84	270.00	656.87	-662.73	660.91	613.98	14.08	
9500.00	9015.00	9737.70	9015.00	24.07	24.80	270.00	756.87	-662.94	660.84	611.99	13.53	
9600.00	9015.00	9837.70	9015.00	25.12	25.86	270.00	856.87	-663.15	660.77	609.81	12.97	
9700.00	9015.00	9937.70	9015.00	26.26	27.00	270.00	956.86	-663.35	660.70	607.47	12.41	
9800.00	9015.00	10037.70	9015.00	27.47	28.21	270.00	1056.86	-663.56	660.63	604.98	11.87	
9900.00	9015.00	10137.70	9015.00	28.74	29.49	270.00	1156.86	-663.77	660.56	602.36	11.35	
10000.00	9015.00	10237.70	9015.00	30.07	30.82	270.00	1256.86	-663.98	660.49	599.63	10.85	
10100.00	9015.00	10337.70	9015.00	31.46	32.20	270.00	1356.86	-664.18	660.42	596.80	10.38	
10200.00	9015.00	10437.70	9015.00	32.88	33.62	270.00	1456.86	-664.39	660.35	593.88	9.93	
10300.00	9015.00	10537.70	9015.00	34.34	35.08	270.00	1556.86	-664.60	660.28	590.89	9.51	
10400.00	9015.00	10637.70	9015.00	35.84	36.57	270.00	1656.86	-664.81	660.21	587.83	9.12	
10500.00	9015.00	10737.70	9015.00	37.37	38.09	270.00	1756.86	-665.01	660.14	584.71	8.75	
10600.00	9015.00	10837.70	9015.00	38.92	39.64	270.00	1856.86	-665.22	660.07	581.54	8.41	
10700.00	9015.00	10937.70	9015.00	40.49	41.21	270.00	1956.86	-665.43	660.00	578.33	8.08	
10800.00	9015.00	11037.70	9015.00	42.09	42.80	270.00	2056.86	-665.64	659.93	575.07	7.78	
10900.00	9015.00	11137.70	9015.00	43.70	44.41	270.00	2156.86	-665.84	659.86	571.78	7.49	
11000.00	9015.00	11237.70	9015.00	45.33	46.03	270.00	2256.86	-666.05	659.79	568.46	7.22	
11100.00	9015.00	11337.70	9015.00	46.97	47.67	270.00	2356.86	-666.26	659.72	565.10	6.97	
11200.00	9015.00	11437.70	9015.00	48.63	49.32	270.00	2456.86	-666.47	659.65	561.72	6.74	
11300.00	9015.00	11537.70	9015.00	50.30	50.99	270.00	2556.86	-666.67	659.58	558.32	6.51	
11400.00	9015.00	11637.70	9015.00	51.98	52.66	270.00	2656.86	-666.88	659.51	554.90	6.30	
11500.00	9015.00	11737.70	9015.00	53.67	54.35	270.00	2756.86	-667.09	659.45	551.45	6.11	
11600.00	9015.00	11837.70	9015.00	55.36	56.04	270.00	2856.86	-667.30	659.38	547.99	5.92	
11700.00	9015.00	11937.70	9015.00	57.07	57.74	270.00	2956.86	-667.50	659.31	544.51	5.74	
11800.00	9015.00	12037.70	9015.00	58.78	59.45	270.00	3056.86	-667.71	659.24	541.02	5.58	
11900.00	9015.00	12137.70	9015.00	60.50	61.17	270.00	3156.86	-667.92	659.17	537.52	5.42	
12000.00	9015.00	12237.70	9015.00	62.23	62.89	270.00	3256.86	-668.13	659.10	534.00	5.27	
12100.00	9015.00	12337.70	9015.00	63.96	64.62	270.00	3356.86	-668.33	659.03	530.47	5.13	
12200.00	9015.00	12437.70	9015.00	65.69	66.35	270.00	3456.86	-668.54	658.96	526.93	4.99	
12300.00	9015.00	12537.70	9015.00	67.44	68.09	270.00	3556.86	-668.75	658.89	523.38	4.86	
12400.00	9015.00	12637.70	9015.00	69.18	69.83	270.00	3656.86	-668.96	658.82	519.82	4.74	
12500.00	9015.00	12737.70	9015.00	70.93	71.57	270.00	3756.86	-669.16	658.75	516.26	4.62	
12600.00	9015.00	12837.70	9015.00	72.68	73.33	270.00	3856.86	-669.37	658.68	512.68	4.51	
12700.00	9015.00	12937.70	9015.00	74.44	75.08	270.00	3956.86	-669.58	658.61	509.10	4.41	
12800.00	9015.00	13037.70	9015.00	76.20	76.84	270.00	4056.86	-669.79	658.54	505.51	4.30	
12900.00	9015.00	13137.70	9015.00	77.96	78.60	270.00	4156.86	-669.99	658.47	501.92	4.21	
13000.00	9015.00	13237.70	9015.00	79.73	80.36	270.00	4256.86	-670.20	658.40	498.32	4.11	
13100.00	9015.00	13337.70	9015.00	81.50	82.13	270.00	4356.86	-670.41	658.33	494.72	4.02	
13200.00	9015.00	13437.70	9015.00	83.27	83.90	270.00	4456.86	-670.62	658.26	491.11	3.94	
13300.00	9015.00	13537.70	9015.00	85.04	85.67	270.00	4556.86	-670.83	658.19	487.49	3.86	
13400.00	9015.00	13637.70	9015.00	86.82	87.44	270.00	4656.86	-671.03	658.12	483.87	3.78	
13500.00	9015.00	13737.70	9015.00	88.60	89.22	270.00	4756.86	-671.24	658.05	480.25	3.70	
13600.00	9015.00	13837.70	9015.00	90.38	90.99	270.00	4856.86	-671.45	657.98	476.62	3.63	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011 Time: 15:18:50
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Page: 4

Db: Sybase

Site: Cotton Draw Unit #138H
Well: #138H
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		
13700.00	9015.00	13937.70	9015.00	92.16	92.77	270.00	4956.86	-671.66	657.91	472.99	3.56	
13800.00	9015.00	14037.70	9015.00	93.94	94.56	270.00	5056.85	-671.86	657.84	469.36	3.49	
13900.00	9015.00	14137.70	9015.00	95.73	96.34	270.00	5156.85	-672.07	657.77	465.72	3.42	
14000.00	9015.00	14237.70	9015.00	97.51	98.12	270.00	5256.85	-672.28	657.70	462.08	3.36	
14100.00	9015.00	14337.70	9015.00	99.30	99.91	270.00	5356.85	-672.49	657.63	458.43	3.30	
14200.00	9015.00	14437.70	9015.00	101.09	101.70	270.00	5456.85	-672.69	657.56	454.79	3.24	
14300.00	9015.00	14537.70	9015.00	102.88	103.49	270.00	5556.85	-672.90	657.49	451.14	3.19	
14400.00	9015.00	14637.70	9015.00	104.67	105.28	270.00	5656.85	-673.11	657.43	447.49	3.13	
14500.00	9015.00	14737.70	9015.00	106.47	107.07	270.00	5756.85	-673.32	657.36	443.83	3.08	
14600.00	9015.00	14837.70	9015.00	108.26	108.86	270.00	5856.85	-673.52	657.29	440.17	3.03	
14700.00	9015.00	14937.70	9015.00	110.06	110.65	270.00	5956.85	-673.73	657.22	436.52	2.98	
14800.00	9015.00	15037.70	9015.00	111.85	112.45	270.00	6056.85	-673.94	657.15	432.86	2.93	
14900.00	9015.00	15137.70	9015.00	113.65	114.24	270.00	6156.85	-674.15	657.08	429.19	2.88	
15000.00	9015.00	15237.70	9015.00	115.45	116.04	270.00	6256.85	-674.35	657.01	425.53	2.84	
15100.00	9015.00	15337.70	9015.00	117.25	117.84	270.00	6356.85	-674.56	656.94	421.86	2.79	
15200.00	9015.00	15437.70	9015.00	119.05	119.64	270.00	6456.85	-674.77	656.87	418.19	2.75	
15300.00	9015.00	15537.70	9015.00	120.85	121.44	270.00	6556.85	-674.98	656.80	414.52	2.71	
15400.00	9015.00	15637.70	9015.00	122.65	123.24	270.00	6656.85	-675.18	656.73	410.85	2.67	
15500.00	9015.00	15737.70	9015.00	124.45	125.04	270.00	6756.85	-675.39	656.66	407.18	2.63	
15600.00	9015.00	15837.70	9015.00	126.25	126.84	270.00	6856.85	-675.60	656.59	403.51	2.59	
15700.00	9015.00	15937.70	9015.00	128.06	128.64	270.00	6956.85	-675.81	656.52	399.83	2.56	
15800.00	9015.00	16037.70	9015.00	129.86	130.44	270.00	7056.85	-676.01	656.45	396.15	2.52	
15900.00	9015.00	16137.70	9015.00	131.66	132.25	270.00	7156.85	-676.22	656.38	392.48	2.49	
16000.00	9015.00	16237.70	9015.00	133.47	134.05	270.00	7256.85	-676.43	656.31	388.80	2.45	
16100.00	9015.00	16337.70	9015.00	135.28	135.86	270.00	7356.85	-676.64	656.24	385.12	2.42	
16200.00	9015.00	16437.70	9015.00	137.08	137.66	270.00	7456.85	-676.84	656.17	381.43	2.39	
16300.00	9015.00	16537.70	9015.00	138.89	139.47	270.00	7556.85	-677.05	656.10	377.75	2.36	
16400.00	9015.00	16637.70	9015.00	140.70	141.27	270.00	7656.85	-677.26	656.03	374.07	2.33	
16440.41	9015.00	16678.11	9015.00	141.43	142.00	270.00	7697.26	-677.34	656.00	372.58	2.31	

Site: Cotton Draw Unit #140H
Well: #140H
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 ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	90.11	-0.10	49.96	49.96			No Data
100.00	100.00	100.00	100.00	0.08	0.08	90.11	-0.10	49.96	49.96	49.79	296.37	
200.00	200.00	200.00	200.00	0.31	0.31	90.11	-0.10	49.96	49.96	49.34	80.83	
300.00	300.00	300.00	300.00	0.53	0.53	90.11	-0.10	49.96	49.96	48.89	46.79	
400.00	400.00	400.00	400.00	0.76	0.76	90.11	-0.10	49.96	49.96	48.44	32.93	
500.00	500.00	500.00	500.00	0.98	0.98	90.11	-0.10	49.96	49.96	47.99	25.40	
600.00	600.00	600.00	600.00	1.21	1.21	90.11	-0.10	49.96	49.96	47.54	20.68	
700.00	700.00	700.00	700.00	1.43	1.43	90.11	-0.10	49.96	49.96	47.09	17.43	
800.00	800.00	800.00	800.00	1.66	1.66	90.11	-0.10	49.96	49.96	46.64	15.07	
900.00	900.00	900.00	900.00	1.88	1.88	90.11	-0.10	49.96	49.96	46.20	13.27	
1000.00	1000.00	1000.00	1000.00	2.11	2.11	90.11	-0.10	49.96	49.96	45.75	11.85	
1100.00	1100.00	1100.00	1100.00	2.33	2.33	90.11	-0.10	49.96	49.96	45.30	10.71	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	90.11	-0.10	49.96	49.96	44.85	9.77	
1300.00	1300.00	1300.00	1300.00	2.78	2.78	90.11	-0.10	49.96	49.96	44.40	8.98	
1400.00	1400.00	1400.00	1400.00	3.01	3.01	90.11	-0.10	49.96	49.96	43.95	8.31	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011 Time: 15:18:50
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Page: 5

Db: Sybase

Site: Cotton Draw Unit #140H
Well: #140H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
1500.00	1500.00	1500.00	1500.00	3.23	3.23	90.11	-0.10	49.96	49.96	43.50	7.73	
1600.00	1600.00	1600.00	1600.00	3.46	3.46	90.11	-0.10	49.96	49.96	43.05	7.23	
1700.00	1700.00	1700.00	1700.00	3.68	3.68	90.11	-0.10	49.96	49.96	42.60	6.79	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	90.11	-0.10	49.96	49.96	42.15	6.40	
1900.00	1900.00	1900.00	1900.00	4.13	4.13	90.11	-0.10	49.96	49.96	41.70	6.05	
2000.00	2000.00	2000.00	2000.00	4.35	4.35	90.11	-0.10	49.96	49.96	41.25	5.74	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	90.11	-0.10	49.96	49.96	40.80	5.45	
2200.00	2200.00	2200.00	2200.00	4.80	4.80	90.11	-0.10	49.96	49.96	40.35	5.20	
2300.00	2300.00	2300.00	2300.00	5.03	5.03	90.11	-0.10	49.96	49.96	39.90	4.97	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	90.11	-0.10	49.96	49.96	39.45	4.75	
2500.00	2500.00	2500.00	2500.00	5.48	5.48	90.11	-0.10	49.96	49.96	39.00	4.56	
2600.00	2600.00	2600.00	2600.00	5.70	5.70	90.11	-0.10	49.96	49.96	38.55	4.38	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	90.11	-0.10	49.96	49.96	38.10	4.21	
2800.00	2800.00	2800.00	2800.00	6.15	6.15	90.11	-0.10	49.96	49.96	37.65	4.06	
2900.00	2900.00	2900.00	2900.00	6.38	6.38	90.11	-0.10	49.96	49.96	37.20	3.92	
3000.00	3000.00	3000.00	3000.00	6.60	6.60	90.11	-0.10	49.96	49.96	36.76	3.78	
3100.00	3100.00	3100.00	3100.00	6.83	6.83	90.11	-0.10	49.96	49.96	36.31	3.66	
3200.00	3200.00	3200.00	3200.00	7.05	7.05	90.11	-0.10	49.96	49.96	35.86	3.54	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	90.11	-0.10	49.96	49.96	35.41	3.43	
3400.00	3400.00	3400.00	3400.00	7.50	7.50	90.11	-0.10	49.96	49.96	34.96	3.33	
3500.00	3500.00	3500.00	3500.00	7.73	7.73	90.11	-0.10	49.96	49.96	34.51	3.23	
3600.00	3600.00	3600.00	3600.00	7.95	7.95	90.11	-0.10	49.96	49.96	34.06	3.14	
3700.00	3700.00	3700.00	3700.00	8.18	8.18	90.11	-0.10	49.96	49.96	33.61	3.06	
3800.00	3800.00	3800.00	3800.00	8.40	8.40	90.11	-0.10	49.96	49.96	33.16	2.97	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	90.11	-0.10	49.96	49.96	32.71	2.90	
4000.00	4000.00	4000.00	4000.00	8.85	8.85	90.11	-0.10	49.96	49.96	32.26	2.82	
4100.00	4100.00	4100.00	4100.00	9.07	9.07	90.11	-0.10	49.96	49.96	31.81	2.75	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	90.11	-0.10	49.96	49.96	31.36	2.69	
4300.00	4300.00	4300.00	4300.00	9.52	9.52	90.11	-0.10	49.96	49.96	30.91	2.62	
4400.00	4400.00	4400.00	4400.00	9.75	9.75	90.11	-0.10	49.96	49.96	30.46	2.56	
4500.00	4500.00	4500.00	4500.00	9.97	9.97	90.11	-0.10	49.96	49.96	30.01	2.50	
4600.00	4600.00	4600.00	4600.00	10.20	10.20	90.11	-0.10	49.96	49.96	29.56	2.45	
4700.00	4700.00	4700.00	4700.00	10.42	10.42	90.11	-0.10	49.96	49.96	29.11	2.40	
4800.00	4800.00	4800.00	4800.00	10.65	10.65	90.11	-0.10	49.96	49.96	28.66	2.35	
4900.00	4900.00	4900.00	4900.00	10.87	10.87	90.11	-0.10	49.96	49.96	28.21	2.30	
5000.00	5000.00	5000.00	5000.00	11.10	11.10	90.11	-0.10	49.96	49.96	27.76	2.25	
5100.00	5100.00	5100.00	5100.00	11.32	11.32	90.11	-0.10	49.96	49.96	27.31	2.21	
5200.00	5200.00	5200.00	5200.00	11.55	11.55	90.11	-0.10	49.96	49.96	26.87	2.16	
5300.00	5300.00	5300.00	5300.00	11.77	11.77	90.11	-0.10	49.96	49.96	26.42	2.12	
5400.00	5400.00	5400.00	5400.00	12.00	12.00	90.11	-0.10	49.96	49.96	25.97	2.08	
5500.00	5500.00	5500.00	5500.00	12.22	12.22	90.11	-0.10	49.96	49.96	25.52	2.04	
5600.00	5600.00	5600.00	5600.00	12.45	12.45	90.11	-0.10	49.96	49.96	25.07	2.01	
5700.00	5700.00	5700.00	5700.00	12.67	12.67	90.11	-0.10	49.96	49.96	24.62	1.97	
5800.00	5800.00	5800.00	5800.00	12.90	12.90	90.11	-0.10	49.96	49.96	24.17	1.94	
5900.00	5900.00	5900.00	5900.00	13.12	13.12	90.11	-0.10	49.96	49.96	23.72	1.90	
6000.00	6000.00	6000.00	6000.00	13.35	13.35	90.11	-0.10	49.96	49.96	23.27	1.87	
6100.00	6100.00	6100.00	6100.00	13.57	13.57	90.11	-0.10	49.96	49.96	22.82	1.84	
6200.00	6200.00	6200.00	6200.00	13.80	13.80	90.11	-0.10	49.96	49.96	22.37	1.81	
6300.00	6300.00	6300.00	6300.00	14.02	14.02	90.11	-0.10	49.96	49.96	21.92	1.78	
6400.00	6400.00	6400.00	6400.00	14.24	14.24	90.11	-0.10	49.96	49.96	21.47	1.75	
6500.00	6500.00	6500.00	6500.00	14.47	14.47	90.11	-0.10	49.96	49.96	21.02	1.73	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011 Time: 15:18:50
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Page: 6

Db: Sybase

Site: Cotton Draw Unit #140H
Well: #140H
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		
6600.00	6600.00	6600.00	6600.00	14.69	14.69	90.11	-0.10	49.96	49.96	20.57	1.70	
6700.00	6700.00	6700.00	6700.00	14.92	14.92	90.11	-0.10	49.96	49.96	20.12	1.67	
6800.00	6800.00	6800.00	6800.00	15.14	15.14	90.11	-0.10	49.96	49.96	19.67	1.65	
6900.00	6900.00	6900.00	6900.00	15.37	15.37	90.11	-0.10	49.96	49.96	19.22	1.63	
7000.00	7000.00	7000.00	7000.00	15.59	15.59	90.11	-0.10	49.96	49.96	18.77	1.60	
7100.00	7100.00	7100.00	7100.00	15.82	15.82	90.11	-0.10	49.96	49.96	18.32	1.58	
7200.00	7200.00	7200.00	7200.00	16.04	16.04	90.11	-0.10	49.96	49.96	17.87	1.56	
7300.00	7300.00	7300.00	7300.00	16.27	16.27	90.11	-0.10	49.96	49.96	17.43	1.54	
7400.00	7400.00	7400.00	7400.00	16.49	16.49	90.11	-0.10	49.96	49.96	16.98	1.51	
7500.00	7500.00	7500.00	7500.00	16.72	16.72	90.11	-0.10	49.96	49.96	16.53	1.49	Level 3
7600.00	7600.00	7600.00	7600.00	16.94	16.94	90.11	-0.10	49.96	49.96	16.08	1.47	Level 3
7700.00	7700.00	7700.00	7700.00	17.17	17.17	90.11	-0.10	49.96	49.96	15.63	1.46	Level 3
7800.00	7800.00	7800.00	7800.00	17.39	17.39	90.11	-0.10	49.96	49.96	15.18	1.44	Level 3
7900.00	7900.00	7900.00	7900.00	17.62	17.62	90.11	-0.10	49.96	49.96	14.73	1.42	Level 3
8000.00	8000.00	8000.00	8000.00	17.84	17.84	90.11	-0.10	49.96	49.96	14.28	1.40	Level 3
8100.00	8100.00	8095.55	8095.47	18.07	18.04	90.73	-0.66	52.37	52.57	16.52	1.46	Level 3
8200.00	8200.00	8185.94	8184.65	18.29	18.22	93.39	-3.92	66.32	68.19	32.03	1.89	
8300.00	8300.00	8270.73	8265.67	18.52	18.40	96.03	-9.56	90.46	97.23	61.18	2.70	
8400.00	8400.00	8347.72	8335.80	18.74	18.58	97.18	-16.76	121.28	138.29	102.50	3.86	
8500.00	8499.26	8414.50	8393.16	18.96	18.77	95.81	-24.53	154.52	190.92	155.47	5.39	
8600.00	8595.55	8469.42	8437.45	19.17	18.96	93.83	-31.91	186.13	254.15	218.97	7.22	
8700.00	8686.49	8536.40	8488.99	19.40	19.23	92.32	-39.64	228.16	324.60	288.93	9.10	
8800.00	8769.85	8620.26	8553.80	19.65	19.58	91.06	-39.68	281.28	395.44	358.78	10.79	
8900.00	8843.56	8717.50	8628.20	19.97	19.97	89.82	-25.96	342.22	464.60	426.72	12.27	
9000.00	8905.82	8836.92	8716.03	20.38	20.40	89.21	10.63	414.10	529.88	490.56	13.48	
9100.00	8955.10	8992.66	8819.94	20.89	20.90	89.53	88.89	499.02	587.93	546.92	14.33	
9200.00	8990.17	9203.21	8931.27	21.52	21.55	90.43	241.51	589.79	633.10	590.23	14.77	
9300.00	9010.18	9473.46	9008.13	22.27	22.41	90.57	490.85	651.99	657.03	612.36	14.71	
9400.00	9015.00	9643.42	9015.00	23.12	23.29	90.00	660.33	657.09	658.92	612.54	14.21	
9500.00	9015.00	9743.42	9015.00	24.07	24.18	90.00	760.33	656.77	658.88	610.66	13.67	
9600.00	9015.00	9843.42	9015.00	25.12	25.16	90.00	860.33	656.45	658.83	608.58	13.11	
9700.00	9015.00	9943.42	9015.00	26.26	26.24	90.00	960.33	656.13	658.79	606.33	12.56	
9800.00	9015.00	10043.42	9015.00	27.47	27.40	90.00	1060.33	655.82	658.75	603.92	12.01	
9900.00	9015.00	10143.42	9015.00	28.74	28.63	90.00	1160.33	655.50	658.71	601.38	11.49	
10000.00	9015.00	10243.42	9015.00	30.07	29.92	90.00	1260.33	655.18	658.67	598.72	10.99	
10100.00	9015.00	10343.42	9015.00	31.46	31.26	90.00	1360.33	654.86	658.63	595.95	10.51	
10200.00	9015.00	10443.42	9015.00	32.88	32.65	90.00	1460.33	654.54	658.59	593.10	10.06	
10300.00	9015.00	10543.42	9015.01	34.34	34.08	90.00	1560.33	654.22	658.55	590.16	9.63	
10400.00	9015.00	10643.42	9015.01	35.84	35.54	90.00	1660.33	653.91	658.51	587.16	9.23	
10500.00	9015.00	10743.42	9015.01	37.37	37.04	90.00	1760.33	653.59	658.47	584.09	8.85	
10600.00	9015.00	10843.42	9015.01	38.92	38.57	90.00	1860.33	653.27	658.42	580.97	8.50	
10700.00	9015.00	10943.42	9015.01	40.49	40.12	90.00	1960.33	652.95	658.38	577.80	8.17	
10800.00	9015.00	11043.42	9015.01	42.09	41.69	90.00	2060.33	652.63	658.34	574.59	7.86	
10900.00	9015.00	11143.42	9015.01	43.70	43.29	90.00	2160.33	652.32	658.30	571.34	7.57	
11000.00	9015.00	11243.42	9015.01	45.33	44.90	90.00	2260.33	652.00	658.26	568.06	7.30	
11100.00	9015.00	11343.42	9015.01	46.97	46.52	90.00	2360.32	651.68	658.22	564.75	7.04	
11200.00	9015.00	11443.42	9015.01	48.63	48.17	90.00	2460.32	651.36	658.18	561.41	6.80	
11300.00	9015.00	11543.42	9015.01	50.30	49.82	90.00	2560.32	651.04	658.14	558.04	6.58	
11400.00	9015.00	11643.42	9015.01	51.98	51.49	90.00	2660.32	650.73	658.10	554.66	6.36	
11500.00	9015.00	11743.42	9015.01	53.67	53.16	90.00	2760.32	650.41	658.06	551.25	6.16	
11600.00	9015.00	11843.42	9015.01	55.36	54.85	90.00	2860.32	650.09	658.02	547.82	5.97	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/7/2011 Time: 15:18:50 Page: 7
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H Co-ordinate(NE) Reference: Well. #139H, Grid North
Reference Wellpath: 1 Vertical (TVD) Reference: SITE 3468.0
Db: Sybase

Site: Cotton Draw Unit #140H
Well: #140H
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			
11700.00	9015.00	11943.42	9015.01	57.07	56.54	90.00	2960.32	649.77	657.97	544.38		5.79	
11800.00	9015.00	12043.42	9015.01	58.78	58.25	90.00	3060.32	649.45	657.93	540.92		5.62	
11900.00	9015.00	12143.42	9015.01	60.50	59.96	90.00	3160.32	649.13	657.89	537.45		5.46	
12000.00	9015.00	12243.42	9015.01	62.23	61.68	90.00	3260.32	648.82	657.85	533.97		5.31	
12100.00	9015.00	12343.42	9015.01	63.96	63.40	90.00	3360.32	648.50	657.81	530.47		5.17	
12200.00	9015.00	12443.42	9015.01	65.69	65.13	90.00	3460.32	648.18	657.77	526.97		5.03	
12300.00	9015.00	12543.42	9015.02	67.44	66.86	90.00	3560.32	647.86	657.73	523.45		4.90	
12400.00	9015.00	12643.42	9015.02	69.18	68.60	90.00	3660.32	647.54	657.69	519.92		4.77	
12500.00	9015.00	12743.42	9015.02	70.93	70.34	90.00	3760.32	647.23	657.65	516.39		4.66	
12600.00	9015.00	12843.42	9015.02	72.68	72.09	90.00	3860.32	646.91	657.61	512.85		4.54	
12700.00	9015.00	12943.42	9015.02	74.44	73.84	90.00	3960.32	646.59	657.56	509.30		4.44	
12800.00	9015.00	13043.42	9015.02	76.20	75.60	90.00	4060.32	646.27	657.52	505.74		4.33	
12900.00	9015.00	13143.42	9015.02	77.96	77.35	90.00	4160.32	645.95	657.48	502.18		4.23	
13000.00	9015.00	13243.42	9015.02	79.73	79.12	90.00	4260.31	645.64	657.44	498.61		4.14	
13100.00	9015.00	13343.42	9015.02	81.50	80.88	90.00	4360.31	645.32	657.40	495.04		4.05	
13200.00	9015.00	13443.42	9015.02	83.27	82.65	90.00	4460.31	645.00	657.36	491.46		3.96	
13300.00	9015.00	13543.42	9015.02	85.04	84.42	90.00	4560.31	644.68	657.32	487.87		3.88	
13400.00	9015.00	13643.42	9015.02	86.82	86.19	90.00	4660.31	644.36	657.28	484.28		3.80	
13500.00	9015.00	13743.42	9015.02	88.60	87.96	90.00	4760.31	644.04	657.24	480.69		3.72	
13600.00	9015.00	13843.42	9015.02	90.38	89.74	90.00	4860.31	643.73	657.20	477.09		3.65	
13700.00	9015.00	13943.42	9015.02	92.16	91.52	90.00	4960.31	643.41	657.16	473.49		3.58	
13800.00	9015.00	14043.42	9015.02	93.94	93.30	90.00	5060.31	643.09	657.11	469.89		3.51	
13900.00	9015.00	14143.42	9015.02	95.73	95.08	90.00	5160.31	642.77	657.07	466.28		3.44	
14000.00	9015.00	14243.42	9015.02	97.51	96.86	90.00	5260.31	642.45	657.03	462.67		3.38	
14100.00	9015.00	14343.42	9015.02	99.30	98.65	90.00	5360.31	642.14	656.99	459.06		3.32	
14200.00	9015.00	14443.42	9015.03	101.09	100.43	90.00	5460.31	641.82	656.95	455.44		3.26	
14300.00	9015.00	14543.42	9015.03	102.88	102.22	90.00	5560.31	641.50	656.91	451.82		3.20	
14400.00	9015.00	14643.42	9015.03	104.67	104.01	90.00	5660.31	641.18	656.87	448.20		3.15	
14500.00	9015.00	14743.42	9015.03	106.47	105.80	90.00	5760.31	640.86	656.83	444.57		3.09	
14600.00	9015.00	14843.42	9015.03	108.26	107.59	90.00	5860.31	640.54	656.79	440.95		3.04	
14700.00	9015.00	14943.42	9015.03	110.06	109.38	90.00	5960.31	640.23	656.75	437.32		2.99	
14800.00	9015.00	15043.42	9015.03	111.85	111.18	90.00	6060.31	639.91	656.70	433.68		2.94	
14900.00	9015.00	15143.42	9015.03	113.65	112.97	90.00	6160.31	639.59	656.66	430.05		2.90	
15000.00	9015.00	15243.42	9015.03	115.45	114.77	90.00	6260.30	639.27	656.62	426.42		2.85	
15100.00	9015.00	15343.42	9015.03	117.25	116.57	90.00	6360.30	638.95	656.58	422.78		2.81	
15200.00	9015.00	15443.42	9015.03	119.05	118.36	90.00	6460.30	638.64	656.54	419.14		2.77	
15300.00	9015.00	15543.42	9015.03	120.85	120.16	90.00	6560.30	638.32	656.50	415.50		2.72	
15400.00	9015.00	15643.42	9015.03	122.65	121.96	90.00	6660.30	638.00	656.46	411.86		2.68	
15500.00	9015.00	15743.42	9015.03	124.45	123.76	90.00	6760.30	637.68	656.42	408.21		2.64	
15600.00	9015.00	15843.42	9015.03	126.25	125.56	90.00	6860.30	637.36	656.38	404.57		2.61	
15700.00	9015.00	15943.42	9015.03	128.06	127.37	90.00	6960.30	637.05	656.34	400.92		2.57	
15800.00	9015.00	16043.42	9015.03	129.86	129.17	90.00	7060.30	636.73	656.30	397.27		2.53	
15900.00	9015.00	16143.42	9015.03	131.66	130.97	90.00	7160.30	636.41	656.25	393.63		2.50	
16000.00	9015.00	16243.42	9015.03	133.47	132.78	90.00	7260.30	636.09	656.21	389.98		2.46	
16100.00	9015.00	16343.42	9015.04	135.28	134.58	90.00	7360.30	635.77	656.17	386.32		2.43	
16200.00	9015.00	16443.42	9015.04	137.08	136.39	90.00	7460.30	635.45	656.13	382.67		2.40	
16300.00	9015.00	16543.42	9015.04	138.89	138.19	90.00	7560.30	635.14	656.09	379.02		2.37	
16400.00	9015.00	16643.42	9015.04	140.70	140.00	90.00	7660.30	634.82	656.05	375.36		2.34	
16440.41	9015.00	16683.83	9015.04	141.43	140.73	90.00	7700.71	634.69	656.03	373.89		2.33	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011

Time: 15:18:50

Page: 8

Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE-3468.0

Db: Sybase

Site: Cotton Draw Unit #155H
Well: Cotton Draw Unit #155H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	12859.08	8270.00	0.00	90.67	356.19	5298.78	-353.27	9781.19	9745.08	270.91	
100.00	100.00	12859.08	8270.00	0.08	90.67	356.19	5298.78	-353.27	9697.36	9661.17	267.93	
200.00	200.00	12859.08	8270.00	0.31	90.67	356.19	5298.78	-353.27	9613.85	9577.43	263.95	
300.00	300.00	12859.08	8270.00	0.53	90.67	356.19	5298.78	-353.27	9530.65	9494.00	260.03	
400.00	400.00	12859.08	8270.00	0.76	90.67	356.19	5298.78	-353.27	9447.78	9410.89	256.17	
500.00	500.00	12859.08	8270.00	0.98	90.67	356.19	5298.78	-353.27	9365.24	9328.13	252.36	
600.00	600.00	12859.08	8270.00	1.21	90.67	356.19	5298.78	-353.27	9283.04	9245.70	248.61	
700.00	700.00	12859.08	8270.00	1.43	90.67	356.19	5298.78	-353.27	9201.20	9163.63	244.91	
800.00	800.00	12859.08	8270.00	1.66	90.67	356.19	5298.78	-353.27	9119.72	9081.92	241.26	
900.00	900.00	12859.08	8270.00	1.88	90.67	356.19	5298.78	-353.27	9038.61	9000.58	237.67	
1000.00	1000.00	12859.08	8270.00	2.11	90.67	356.19	5298.78	-353.27	8957.88	8919.62	234.13	
1100.00	1100.00	12859.08	8270.00	2.33	90.67	356.19	5298.78	-353.27	8877.55	8839.06	230.64	
1200.00	1200.00	12859.08	8270.00	2.56	90.67	356.19	5298.78	-353.27	8797.62	8758.89	227.20	
1300.00	1300.00	12859.08	8270.00	2.78	90.67	356.19	5298.78	-353.27	8718.10	8679.15	223.80	
1400.00	1400.00	12859.08	8270.00	3.01	90.67	356.19	5298.78	-353.27	8639.01	8599.82	220.46	
1500.00	1500.00	12859.08	8270.00	3.23	90.67	356.19	5298.78	-353.27	8560.35	8520.94	217.17	
1600.00	1600.00	12859.08	8270.00	3.46	90.67	356.19	5298.78	-353.27	8482.15	8442.50	213.93	
1700.00	1700.00	12859.08	8270.00	3.68	90.67	356.19	5298.78	-353.27	8404.41	8364.53	210.73	
1800.00	1800.00	12859.08	8270.00	3.91	90.67	356.19	5298.78	-353.27	8327.14	8287.03	207.58	
1900.00	1900.00	12859.08	8270.00	4.13	90.67	356.19	5298.78	-353.27	8250.36	8210.01	204.48	
2000.00	2000.00	12859.08	8270.00	4.35	90.67	356.19	5298.78	-353.27	8174.08	8133.50	201.42	
2100.00	2100.00	12859.08	8270.00	4.58	90.67	356.19	5298.78	-353.27	8098.32	8057.51	198.41	
2200.00	2200.00	12859.08	8270.00	4.80	90.67	356.19	5298.78	-353.27	8023.10	7982.04	195.44	
2300.00	2300.00	12859.08	8270.00	5.03	90.67	356.19	5298.78	-353.27	7948.41	7907.13	192.52	
2400.00	2400.00	12859.08	8270.00	5.25	90.67	356.19	5298.78	-353.27	7874.29	7832.77	189.64	
2500.00	2500.00	12859.08	8270.00	5.48	90.67	356.19	5298.78	-353.27	7800.75	7758.99	186.81	
2600.00	2600.00	12859.08	8270.00	5.70	90.67	356.19	5298.78	-353.27	7727.80	7685.80	184.02	
2700.00	2700.00	12859.08	8270.00	5.93	90.67	356.19	5298.78	-353.27	7655.46	7613.23	181.27	
2800.00	2800.00	12859.08	8270.00	6.15	90.67	356.19	5298.78	-353.27	7583.75	7541.28	178.57	
2900.00	2900.00	12859.08	8270.00	6.38	90.67	356.19	5298.78	-353.27	7512.69	7469.98	175.90	
3000.00	3000.00	12859.08	8270.00	6.60	90.67	356.19	5298.78	-353.27	7442.29	7399.34	173.28	
3100.00	3100.00	12859.08	8270.00	6.83	90.67	356.19	5298.78	-353.27	7372.58	7329.39	170.70	
3200.00	3200.00	12859.08	8270.00	7.05	90.67	356.19	5298.78	-353.27	7303.57	7260.13	168.16	
3300.00	3300.00	12859.08	8270.00	7.28	90.67	356.19	5298.78	-353.27	7235.28	7191.61	165.67	
3400.00	3400.00	12859.08	8270.00	7.50	90.67	356.19	5298.78	-353.27	7167.74	7123.82	163.21	
3500.00	3500.00	12859.08	8270.00	7.73	90.67	356.19	5298.78	-353.27	7100.96	7056.80	160.79	
3600.00	3600.00	12859.08	8270.00	7.95	90.67	356.19	5298.78	-353.27	7034.97	6990.57	158.41	
3700.00	3700.00	12859.08	8270.00	8.18	90.67	356.19	5298.78	-353.27	6969.80	6925.14	156.08	
3800.00	3800.00	12859.08	8270.00	8.40	90.67	356.19	5298.78	-353.27	6905.45	6860.55	153.78	
3900.00	3900.00	12859.08	8270.00	8.63	90.67	356.19	5298.78	-353.27	6841.96	6796.81	151.52	
4000.00	4000.00	12859.08	8270.00	8.85	90.67	356.19	5298.78	-353.27	6779.36	6733.95	149.30	
4100.00	4100.00	12859.08	8270.00	9.07	90.67	356.19	5298.78	-353.27	6717.65	6671.99	147.11	
4200.00	4200.00	12859.08	8270.00	9.30	90.67	356.19	5298.78	-353.27	6656.88	6610.96	144.97	
4300.00	4300.00	12859.08	8270.00	9.52	90.67	356.19	5298.78	-353.27	6597.06	6550.89	142.86	
4400.00	4400.00	12859.08	8270.00	9.75	90.67	356.19	5298.78	-353.27	6538.23	6491.79	140.78	
4500.00	4500.00	12859.08	8270.00	9.97	90.67	356.19	5298.78	-353.27	6480.41	6433.70	138.75	
4600.00	4600.00	12859.08	8270.00	10.20	90.67	356.19	5298.78	-353.27	6423.62	6376.64	136.75	
4700.00	4700.00	12859.08	8270.00	10.42	90.67	356.19	5298.78	-353.27	6367.89	6320.65	134.78	
4800.00	4800.00	12859.08	8270.00	10.65	90.67	356.19	5298.78	-353.27	6313.26	6265.74	132.85	
4900.00	4900.00	12859.08	8270.00	10.87	90.67	356.19	5298.78	-353.27	6259.75	6211.95	130.95	
5000.00	5000.00	12859.08	8270.00	11.10	90.67	356.19	5298.78	-353.27	6207.39	6159.30	129.08	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011

Time: 15:18:50

Page: 9

Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Db: Sybase

Site: Cotton Draw Unit #155H
Well: Cotton Draw Unit #155H
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		
5100.00	5100.00	12859.08	8270.00	11.32	90.67	356.19	5298.78	-353.27	6156.21	6107.83	127.25	
5200.00	5200.00	12859.08	8270.00	11.55	90.67	356.19	5298.78	-353.27	6106.23	6057.55	125.44	
5300.00	5300.00	12859.08	8270.00	11.77	90.67	356.19	5298.78	-353.27	6057.50	6008.51	123.67	
5400.00	5400.00	12859.08	8270.00	12.00	90.67	356.19	5298.78	-353.27	6010.03	5960.73	121.92	
5500.00	5500.00	12859.08	8270.00	12.22	90.67	356.19	5298.78	-353.27	5963.86	5914.24	120.19	
5600.00	5600.00	12859.08	8270.00	12.45	90.67	356.19	5298.78	-353.27	5919.03	5869.07	118.49	
5700.00	5700.00	12859.08	8270.00	12.67	90.67	356.19	5298.78	-353.27	5875.55	5825.25	116.81	
5800.00	5800.00	12859.08	8270.00	12.90	90.67	356.19	5298.78	-353.27	5833.46	5782.80	115.15	
5900.00	5900.00	12859.08	8270.00	13.12	90.67	356.19	5298.78	-353.27	5792.79	5741.76	113.50	
6000.00	6000.00	12859.08	8270.00	13.35	90.67	356.19	5298.78	-353.27	5753.58	5702.14	111.86	
6100.00	6100.00	12859.08	8270.00	13.57	90.67	356.19	5298.78	-353.27	5715.84	5663.99	110.22	
6200.00	6200.00	12859.08	8270.00	13.80	90.67	356.19	5298.78	-353.27	5679.62	5627.31	108.58	
6300.00	6300.00	12859.08	8270.00	14.02	90.67	356.19	5298.78	-353.27	5644.93	5592.14	106.93	
6400.00	6400.00	12859.08	8270.00	14.24	90.67	356.19	5298.78	-353.27	5611.81	5558.50	105.27	
6500.00	6500.00	12859.08	8270.00	14.47	90.67	356.19	5298.78	-353.27	5580.29	5526.41	103.57	
6600.00	6600.00	12859.08	8270.00	14.69	90.67	356.19	5298.78	-353.27	5550.39	5495.89	101.83	
6700.00	6700.00	12859.08	8270.00	14.92	90.67	356.19	5298.78	-353.27	5522.14	5466.94	100.03	
6800.00	6800.00	12859.08	8270.00	15.14	90.67	356.19	5298.78	-353.27	5495.57	5439.57	98.14	
6900.00	6900.00	12859.08	8270.00	15.37	90.67	356.19	5298.78	-353.27	5470.69	5413.79	96.15	
7000.00	7000.00	12859.08	8270.00	15.59	90.67	356.19	5298.78	-353.27	5447.54	5389.59	94.01	
7100.00	7100.00	12859.08	8270.00	15.82	90.67	356.19	5298.78	-353.27	5426.13	5366.96	91.70	
7200.00	7200.00	12859.08	8270.00	16.04	90.67	356.19	5298.78	-353.27	5406.48	5345.84	89.16	
7300.00	7300.00	12859.08	8270.00	16.27	90.67	356.19	5298.78	-353.27	5388.62	5326.20	86.33	
7400.00	7400.00	12859.08	8270.00	16.49	90.67	356.19	5298.78	-353.27	5372.57	5307.95	83.14	
7500.00	7500.00	12859.08	8270.00	16.72	90.67	356.19	5298.78	-353.27	5358.33	5290.95	79.52	
7600.00	7600.00	12859.08	8270.00	16.94	90.67	356.19	5298.78	-353.27	5345.92	5275.03	75.41	
7700.00	7700.00	12859.08	8270.00	17.17	90.67	356.19	5298.78	-353.27	5335.36	5259.95	70.75	
7800.00	7800.00	12859.08	8270.00	17.39	90.67	356.19	5298.78	-353.27	5326.66	5245.45	65.59	
7900.00	7900.00	12859.08	8270.00	17.62	90.67	356.19	5298.78	-353.27	5319.82	5231.34	60.13	
8000.00	8000.00	12859.08	8270.00	17.84	90.67	356.19	5298.78	-353.27	5314.85	5217.98	54.86	
8100.00	8100.00	12859.08	8270.00	18.07	90.67	356.19	5298.78	-353.27	5311.77	5207.00	50.70	
8200.00	8200.00	12859.08	8270.00	18.29	90.67	356.19	5298.78	-353.27	5310.56	5201.66	48.77	
8300.00	8300.00	12859.08	8270.00	18.52	90.67	356.19	5298.78	-353.27	5311.24	5204.41	49.72	
8400.00	8400.00	12859.08	8270.00	18.74	90.67	356.35	5298.78	-353.27	5313.43	5213.39	53.11	
8500.00	8499.26	12859.08	8270.00	18.96	90.67	356.31	5298.78	-353.27	5306.66	5214.85	57.80	
8600.00	8595.55	12859.08	8270.00	19.17	90.67	356.18	5298.78	-353.27	5286.22	5201.93	62.71	
8700.00	8686.49	12859.08	8270.00	19.40	90.67	355.96	5298.78	-353.27	5252.47	5174.35	67.23	
8800.00	8769.85	12859.08	8270.00	19.65	90.67	355.61	5298.78	-353.27	5206.00	5132.81	71.14	
8900.00	8843.56	12859.08	8270.00	19.97	90.67	355.09	5298.78	-353.27	5147.61	5078.38	74.36	
9000.00	8905.82	12859.08	8270.00	20.38	90.67	354.29	5298.78	-353.27	5078.36	5012.30	76.87	
9100.00	8955.10	12859.08	8270.00	20.89	90.67	353.01	5298.78	-353.27	4999.55	4935.92	78.57	
9200.00	8990.17	12859.08	8270.00	21.52	90.67	350.77	5298.78	-353.27	4912.71	4850.71	79.24	
9300.00	9010.18	12859.08	8270.00	22.27	90.67	346.14	5298.78	-353.27	4819.59	4758.12	78.40	
9400.00	9015.00	12859.08	8270.00	23.12	90.67	337.09	5298.78	-353.27	4722.26	4659.51	75.26	
9500.00	9015.00	12859.08	8270.00	24.07	90.67	337.09	5298.78	-353.27	4624.01	4560.85	73.21	
9600.00	9015.00	12859.08	8270.00	25.12	90.67	337.09	5298.78	-353.27	4525.83	4462.21	71.13	
9700.00	9015.00	12859.08	8270.00	26.26	90.67	337.09	5298.78	-353.27	4427.74	4363.60	69.04	
9800.00	9015.00	12859.08	8270.00	27.47	90.67	337.09	5298.78	-353.27	4329.73	4265.04	66.93	
9900.00	9015.00	12859.08	8270.00	28.74	90.67	337.09	5298.78	-353.27	4231.81	4166.53	64.82	
10000.00	9015.00	12859.08	8270.00	30.07	90.67	337.09	5298.78	-353.27	4134.00	4068.09	62.72	
10100.00	9015.00	12859.08	8270.00	31.46	90.67	337.09	5298.78	-353.27	4036.29	3969.72	60.63	



Weatherford International Ltd.

Anticollision Report



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1
Date: 2/7/2011
Time: 15:18:50
Page: 10
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0
Db: Sybase

Site: Cotton Draw Unit #155H
Well: Cotton Draw Unit #155H
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	Distance	Distance	Factor		
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	ft	ft			
10200.00	9015.00	12859.08	8270.00	32.88	90.67	337.09	5298.78	-353.27	3938.70	3871.44	58.56				
10300.00	9015.00	12859.08	8270.00	34.34	90.67	337.09	5298.78	-353.27	3841.23	3773.26	56.51				
10400.00	9015.00	12859.08	8270.00	35.84	90.67	337.09	5298.78	-353.27	3743.90	3675.19	54.49				
10500.00	9015.00	12859.08	8270.00	37.37	90.67	337.09	5298.78	-353.27	3646.70	3577.25	52.50				
10600.00	9015.00	12859.08	8270.00	38.92	90.67	337.09	5298.78	-353.27	3549.67	3479.44	50.54				
10700.00	9015.00	12859.08	8270.00	40.49	90.67	337.09	5298.78	-353.27	3452.80	3381.79	48.62				
10800.00	9015.00	12859.08	8270.00	42.09	90.67	337.09	5298.78	-353.27	3356.12	3284.30	46.73				
10900.00	9015.00	12859.08	8270.00	43.70	90.67	337.09	5298.78	-353.27	3259.64	3187.00	44.88				
11000.00	9015.00	12859.08	8270.00	45.33	90.67	337.09	5298.78	-353.27	3163.38	3089.91	43.06				
11100.00	9015.00	12859.08	8270.00	46.97	90.67	337.09	5298.78	-353.27	3067.35	2993.05	41.28				
11200.00	9015.00	12859.08	8270.00	48.63	90.67	337.09	5298.78	-353.27	2971.59	2896.44	39.54				
11300.00	9015.00	12859.08	8270.00	50.30	90.67	337.09	5298.78	-353.27	2876.12	2800.11	37.84				
11400.00	9015.00	12859.08	8270.00	51.98	90.67	337.09	5298.78	-353.27	2780.96	2704.09	36.18				
11500.00	9015.00	12859.08	8270.00	53.67	90.67	337.09	5298.78	-353.27	2686.16	2608.42	34.55				
11600.00	9015.00	12859.08	8270.00	55.36	90.67	337.09	5298.78	-353.27	2591.75	2513.13	32.96				
11700.00	9015.00	12859.08	8270.00	57.07	90.67	337.09	5298.78	-353.27	2497.77	2418.26	31.42				
11800.00	9015.00	12859.08	8270.00	58.78	90.67	337.09	5298.78	-353.27	2404.28	2323.88	29.91				
11900.00	9015.00	12859.08	8270.00	60.50	90.67	337.09	5298.78	-353.27	2311.33	2230.04	28.43				
12000.00	9015.00	12859.08	8270.00	62.23	90.67	337.09	5298.78	-353.27	2219.00	2136.81	27.00				
12100.00	9015.00	12859.08	8270.00	63.96	90.67	337.09	5298.78	-353.27	2127.36	2044.26	25.60				
12200.00	9015.00	12859.08	8270.00	65.69	90.67	337.09	5298.78	-353.27	2036.51	1952.50	24.24				
12300.00	9015.00	12859.08	8270.00	67.44	90.67	337.09	5298.78	-353.27	1946.55	1861.63	22.92				
12400.00	9015.00	12859.08	8270.00	69.18	90.67	337.09	5298.78	-353.27	1857.62	1771.79	21.64				
12500.00	9015.00	12859.08	8270.00	70.93	90.67	337.09	5298.78	-353.27	1769.88	1683.12	20.40				
12600.00	9015.00	12859.08	8270.00	72.68	90.67	337.09	5298.78	-353.27	1683.50	1595.82	19.20				
12700.00	9015.00	12859.08	8270.00	74.44	90.67	337.09	5298.78	-353.27	1598.71	1510.11	18.04				
12800.00	9015.00	12859.08	8270.00	76.20	90.67	337.09	5298.78	-353.27	1515.77	1426.25	16.93				
12900.00	9015.00	12859.08	8270.00	77.96	90.67	337.09	5298.78	-353.27	1435.01	1344.56	15.86				
13000.00	9015.00	12859.08	8270.00	79.73	90.67	337.09	5298.78	-353.27	1356.82	1265.43	14.85				
13100.00	9015.00	12859.08	8270.00	81.50	90.67	337.09	5298.78	-353.27	1281.66	1189.34	13.88				
13200.00	9015.00	12859.08	8270.00	83.27	90.67	337.09	5298.78	-353.27	1210.11	1116.85	12.98				
13300.00	9015.00	12859.08	8270.00	85.04	90.67	337.09	5298.78	-353.27	1142.83	1048.64	12.13				
13400.00	9015.00	12859.08	8270.00	86.82	90.67	337.09	5298.78	-353.27	1080.63	985.50	11.36				
13500.00	9015.00	12859.08	8270.00	88.60	90.67	337.09	5298.78	-353.27	1024.43	928.36	10.66				
13600.00	9015.00	12859.08	8270.00	90.38	90.67	337.09	5298.78	-353.27	975.27	878.26	10.05				
13700.00	9015.00	12859.08	8270.00	92.16	90.67	337.09	5298.78	-353.27	934.27	836.31	9.54				
13800.00	9015.00	12859.08	8270.00	93.94	90.67	337.09	5298.78	-353.27	902.53	803.63	9.13				
13900.00	9015.00	12859.08	8270.00	95.73	90.67	337.09	5298.78	-353.27	881.06	781.20	8.82				
14000.00	9015.00	12859.08	8270.00	97.51	90.67	337.09	5298.78	-353.27	870.61	769.81	8.64				
14100.00	9015.00	12800.58	8270.00	99.30	89.62	337.09	5357.28	-353.43	869.62	768.43	8.59				
14200.00	9015.00	12700.58	8270.00	101.09	87.84	337.09	5457.28	-353.71	869.62	768.43	8.59				
14300.00	9015.00	12600.58	8270.00	102.88	86.05	337.09	5557.28	-353.98	869.62	768.42	8.59				
14400.00	9015.00	12500.58	8270.00	104.67	84.27	337.09	5657.28	-354.26	869.62	768.42	8.59				
14500.00	9015.00	12400.58	8270.00	106.47	82.49	337.09	5757.28	-354.54	869.62	768.41	8.59				
14600.00	9015.00	12300.58	8270.00	108.26	80.71	337.09	5857.28	-354.81	869.62	768.40	8.59				
14700.00	9015.00	12200.58	8270.00	110.06	78.93	337.09	5957.28	-355.09	869.62	768.39	8.59				
14800.00	9015.00	12100.58	8270.00	111.85	77.16	337.09	6057.28	-355.36	869.62	768.38	8.59				
14900.00	9015.00	12000.58	8270.00	113.65	75.38	337.09	6157.28	-355.64	869.62	768.36	8.59				
15000.00	9015.00	11900.58	8270.00	115.45	73.61	337.09	6257.28	-355.92	869.62	768.34	8.59				
15100.00	9015.00	11800.58	8270.00	117.25	71.85	337.09	6357.28	-356.19	869.62	768.32	8.58				
15200.00	9015.00	11700.58	8270.00	119.05	70.08	337.09	6457.28	-356.47	869.61	768.29	8.58				



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011 Time: 15:18:50
Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Page: 11

Db: Sybase

Site: Cotton Draw Unit #155H
Well: Cotton Draw Unit #155H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
15300.00	9015.00	11600.58	8270.00	120.85	68.32	337.09	6557.28	-356.74	869.61	768.26	8.58	
15400.00	9015.00	11500.58	8270.00	122.65	66.56	337.09	6657.28	-357.02	869.61	768.23	8.58	
15500.00	9015.00	11400.58	8270.00	124.45	64.81	337.09	6757.28	-357.30	869.61	768.20	8.57	
15600.00	9015.00	11300.58	8270.00	126.25	63.06	337.09	6857.28	-357.57	869.61	768.16	8.57	
15700.00	9015.00	11200.58	8270.00	128.06	61.32	337.09	6957.28	-357.85	869.61	768.11	8.57	
15800.00	9015.00	11100.58	8270.00	129.86	59.58	337.09	7057.28	-358.13	869.61	768.07	8.56	
15900.00	9015.00	11000.58	8270.00	131.66	57.84	337.09	7157.28	-358.40	869.61	768.01	8.56	
16000.00	9015.00	10900.58	8270.00	133.47	56.12	337.09	7257.28	-358.68	869.61	767.96	8.55	
16100.00	9015.00	10800.58	8270.00	135.28	54.39	337.09	7357.28	-358.95	869.61	767.90	8.55	
16200.00	9015.00	10700.58	8270.00	137.08	52.68	337.09	7457.28	-359.23	869.61	767.83	8.54	
16300.00	9015.00	10600.58	8270.00	138.89	50.97	337.09	7557.28	-359.51	869.61	767.75	8.54	
16400.00	9015.00	10500.58	8270.00	140.70	49.27	337.09	7657.28	-359.78	869.61	767.67	8.53	
16440.41	9015.00	10460.17	8270.00	141.43	48.59	337.09	7697.69	-359.89	869.61	767.64	8.53	

Site: Cotton Draw Unit #156H
Well: Cotton Draw Unit #156H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location			Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	12878.06	8280.00	0.00	90.83	10.34	5298.16	966.77	9835.55	9798.22	263.51	
100.00	100.00	12878.06	8280.00	0.08	90.83	10.34	5298.16	966.77	9752.03	9714.59	260.46	
200.00	200.00	12878.06	8280.00	0.31	90.83	10.34	5298.16	966.77	9668.82	9631.12	256.47	
300.00	300.00	12878.06	8280.00	0.53	90.83	10.34	5298.16	966.77	9585.93	9547.97	252.54	
400.00	400.00	12878.06	8280.00	0.76	90.83	10.34	5298.16	966.77	9503.37	9465.15	248.66	
500.00	500.00	12878.06	8280.00	0.98	90.83	10.34	5298.16	966.77	9421.15	9382.67	244.84	
600.00	600.00	12878.06	8280.00	1.21	90.83	10.34	5298.16	966.77	9339.27	9300.53	241.06	
700.00	700.00	12878.06	8280.00	1.43	90.83	10.34	5298.16	966.77	9257.76	9218.75	237.34	
800.00	800.00	12878.06	8280.00	1.66	90.83	10.34	5298.16	966.77	9176.60	9137.33	233.67	
900.00	900.00	12878.06	8280.00	1.88	90.83	10.34	5298.16	966.77	9095.83	9056.29	230.04	
1000.00	1000.00	12878.06	8280.00	2.11	90.83	10.34	5298.16	966.77	9015.43	8975.63	226.47	
1100.00	1100.00	12878.06	8280.00	2.33	90.83	10.34	5298.16	966.77	8935.44	8895.36	222.94	
1200.00	1200.00	12878.06	8280.00	2.56	90.83	10.34	5298.16	966.77	8855.85	8815.50	219.46	
1300.00	1300.00	12878.06	8280.00	2.78	90.83	10.34	5298.16	966.77	8776.68	8736.05	216.03	
1400.00	1400.00	12878.06	8280.00	3.01	90.83	10.34	5298.16	966.77	8697.93	8657.03	212.64	
1500.00	1500.00	12878.06	8280.00	3.23	90.83	10.34	5298.16	966.77	8619.63	8578.45	209.30	
1600.00	1600.00	12878.06	8280.00	3.46	90.83	10.34	5298.16	966.77	8541.78	8500.32	206.01	
1700.00	1700.00	12878.06	8280.00	3.68	90.83	10.34	5298.16	966.77	8464.40	8422.65	202.75	
1800.00	1800.00	12878.06	8280.00	3.91	90.83	10.34	5298.16	966.77	8387.49	8345.46	199.54	
1900.00	1900.00	12878.06	8280.00	4.13	90.83	10.34	5298.16	966.77	8311.08	8268.76	196.37	
2000.00	2000.00	12878.06	8280.00	4.35	90.83	10.34	5298.16	966.77	8235.17	8192.56	193.25	
2100.00	2100.00	12878.06	8280.00	4.58	90.83	10.34	5298.16	966.77	8159.78	8116.87	190.16	
2200.00	2200.00	12878.06	8280.00	4.80	90.83	10.34	5298.16	966.77	8084.93	8041.72	187.12	
2300.00	2300.00	12878.06	8280.00	5.03	90.83	10.34	5298.16	966.77	8010.62	7967.11	184.11	
2400.00	2400.00	12878.06	8280.00	5.25	90.83	10.34	5298.16	966.77	7936.88	7893.06	181.14	
2500.00	2500.00	12878.06	8280.00	5.48	90.83	10.34	5298.16	966.77	7863.72	7819.59	178.22	
2600.00	2600.00	12878.06	8280.00	5.70	90.83	10.34	5298.16	966.77	7791.15	7746.71	175.32	
2700.00	2700.00	12878.06	8280.00	5.93	90.83	10.34	5298.16	966.77	7719.20	7674.44	172.47	
2800.00	2800.00	12878.06	8280.00	6.15	90.83	10.34	5298.16	966.77	7647.88	7602.80	169.65	
2900.00	2900.00	12878.06	8280.00	6.38	90.83	10.34	5298.16	966.77	7577.21	7531.80	166.87	
3000.00	3000.00	12878.06	8280.00	6.60	90.83	10.34	5298.16	966.77	7507.20	7461.46	164.13	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011

Time: 15:18:50

Page: 12

Co-ordinate(NE) Reference: Well: #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Db: Sybase

Site: Cotton Draw Unit #156H
Well: Cotton Draw Unit #156H
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	
3100.00	3100.00	12878.06	8280.00	6.83	90.83	10.34	5298.16	966.77	7437.88	7391.80	161.41
3200.00	3200.00	12878.06	8280.00	7.05	90.83	10.34	5298.16	966.77	7369.26	7322.84	158.74
3300.00	3300.00	12878.06	8280.00	7.28	90.83	10.34	5298.16	966.77	7301.37	7254.60	156.09
3400.00	3400.00	12878.06	8280.00	7.50	90.83	10.34	5298.16	966.77	7234.23	7187.09	153.48
3500.00	3500.00	12878.06	8280.00	7.73	90.83	10.34	5298.16	966.77	7167.85	7120.35	150.90
3600.00	3600.00	12878.06	8280.00	7.95	90.83	10.34	5298.16	966.77	7102.26	7054.38	148.34
3700.00	3700.00	12878.06	8280.00	8.18	90.83	10.34	5298.16	966.77	7037.47	6989.21	145.82
3800.00	3800.00	12878.06	8280.00	8.40	90.83	10.34	5298.16	966.77	6973.52	6924.87	143.33
3900.00	3900.00	12878.06	8280.00	8.63	90.83	10.34	5298.16	966.77	6910.43	6861.37	140.86
4000.00	4000.00	12878.06	8280.00	8.85	90.83	10.34	5298.16	966.77	6848.21	6798.74	138.43
4100.00	4100.00	12878.06	8280.00	9.07	90.83	10.34	5298.16	966.77	6786.90	6737.00	136.01
4200.00	4200.00	12878.06	8280.00	9.30	90.83	10.34	5298.16	966.77	6726.52	6676.18	133.63
4300.00	4300.00	12878.06	8280.00	9.52	90.83	10.34	5298.16	966.77	6667.09	6616.29	131.26
4400.00	4400.00	12878.06	8280.00	9.75	90.83	10.34	5298.16	966.77	6608.63	6557.37	128.92
4500.00	4500.00	12878.06	8280.00	9.97	90.83	10.34	5298.16	966.77	6551.19	6499.44	126.60
4600.00	4600.00	12878.06	8280.00	10.20	90.83	10.34	5298.16	966.77	6494.77	6442.52	124.30
4700.00	4700.00	12878.06	8280.00	10.42	90.83	10.34	5298.16	966.77	6439.41	6386.64	122.02
4800.00	4800.00	12878.06	8280.00	10.65	90.83	10.34	5298.16	966.77	6385.14	6331.82	119.75
4900.00	4900.00	12878.06	8280.00	10.87	90.83	10.34	5298.16	966.77	6331.99	6278.10	117.50
5000.00	5000.00	12878.06	8280.00	11.10	90.83	10.34	5298.16	966.77	6279.97	6225.49	115.27
5100.00	5100.00	12878.06	8280.00	11.32	90.83	10.34	5298.16	966.77	6229.13	6174.02	113.04
5200.00	5200.00	12878.06	8280.00	11.55	90.83	10.34	5298.16	966.77	6179.49	6123.73	110.83
5300.00	5300.00	12878.06	8280.00	11.77	90.83	10.34	5298.16	966.77	6131.07	6074.63	108.62
5400.00	5400.00	12878.06	8280.00	12.00	90.83	10.34	5298.16	966.77	6083.92	6026.74	106.41
5500.00	5500.00	12878.06	8280.00	12.22	90.83	10.34	5298.16	966.77	6038.05	5980.11	104.21
5600.00	5600.00	12878.06	8280.00	12.45	90.83	10.34	5298.16	966.77	5993.50	5934.75	102.02
5700.00	5700.00	12878.06	8280.00	12.67	90.83	10.34	5298.16	966.77	5950.30	5890.68	99.81
5800.00	5800.00	12878.06	8280.00	12.90	90.83	10.34	5298.16	966.77	5908.47	5847.94	97.61
5900.00	5900.00	12878.06	8280.00	13.12	90.83	10.34	5298.16	966.77	5868.05	5806.54	95.40
6000.00	6000.00	12878.06	8280.00	13.35	90.83	10.34	5298.16	966.77	5829.07	5766.51	93.17
6100.00	6100.00	12878.06	8280.00	13.57	90.83	10.34	5298.16	966.77	5791.55	5727.86	90.94
6200.00	6200.00	12878.06	8280.00	13.80	90.83	10.34	5298.16	966.77	5755.52	5690.63	88.69
6300.00	6300.00	12878.06	8280.00	14.02	90.83	10.34	5298.16	966.77	5721.02	5654.82	86.43
6400.00	6400.00	12878.06	8280.00	14.24	90.83	10.34	5298.16	966.77	5688.06	5620.46	84.14
6500.00	6500.00	12878.06	8280.00	14.47	90.83	10.34	5298.16	966.77	5656.68	5587.56	81.84
6600.00	6600.00	12878.06	8280.00	14.69	90.83	10.34	5298.16	966.77	5626.90	5556.14	79.52
6700.00	6700.00	12878.06	8280.00	14.92	90.83	10.34	5298.16	966.77	5598.75	5526.21	77.18
6800.00	6800.00	12878.06	8280.00	15.14	90.83	10.34	5298.16	966.77	5572.26	5497.79	74.83
6900.00	6900.00	12878.06	8280.00	15.37	90.83	10.34	5298.16	966.77	5547.44	5470.87	72.46
7000.00	7000.00	12878.06	8280.00	15.59	90.83	10.34	5298.16	966.77	5524.31	5445.49	70.09
7100.00	7100.00	12878.06	8280.00	15.82	90.83	10.34	5298.16	966.77	5502.91	5421.65	67.72
7200.00	7200.00	12878.06	8280.00	16.04	90.83	10.34	5298.16	966.77	5483.25	5399.37	65.37
7300.00	7300.00	12878.06	8280.00	16.27	90.83	10.34	5298.16	966.77	5465.35	5378.68	63.06
7400.00	7400.00	12878.06	8280.00	16.49	90.83	10.34	5298.16	966.77	5449.22	5359.61	60.81
7500.00	7500.00	12878.06	8280.00	16.72	90.83	10.34	5298.16	966.77	5434.89	5342.21	58.64
7600.00	7600.00	12878.06	8280.00	16.94	90.83	10.34	5298.16	966.77	5422.37	5326.57	56.60
7700.00	7700.00	12878.06	8280.00	17.17	90.83	10.34	5298.16	966.77	5411.66	5312.78	54.73
7800.00	7800.00	12878.06	8280.00	17.39	90.83	10.34	5298.16	966.77	5402.78	5300.96	53.06
7900.00	7900.00	12878.06	8280.00	17.62	90.83	10.34	5298.16	966.77	5395.74	5291.28	51.65
8000.00	8000.00	12878.06	8280.00	17.84	90.83	10.34	5298.16	966.77	5390.55	5283.90	50.54
8100.00	8100.00	12878.06	8280.00	18.07	90.83	10.34	5298.16	966.77	5387.21	5278.98	49.77



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H
Reference Well: #139H
Reference Wellpath: 1

Date: 2/7/2011

Time: 15:18:50

Page: 13

Co-ordinate(NE) Reference: Well. #139H, Grid North
Vertical (TVD) Reference: SITE 3468.0

Db: Sybase

Site: Cotton Draw Unit #156H
Well: Cotton Draw Unit #156H
Wellpath: 1 VO Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8200.00	8200.00	12878.06	8280.00	18.29	90.83	10.34	5298.16	966.77	5385.73	5276.64	49.37	
8300.00	8300.00	12878.06	8280.00	18.52	90.83	10.34	5298.16	966.77	5386.10	5276.94	49.34	
8400.00	8400.00	12878.06	8280.00	18.74	90.83	10.50	5298.16	966.77	5387.96	5279.51	49.68	
8500.00	8499.26	12878.06	8280.00	18.96	90.83	10.61	5298.16	966.77	5381.00	5274.14	50.36	
8600.00	8595.55	12878.06	8280.00	19.17	90.83	10.96	5298.16	966.77	5360.58	5256.09	51.30	
8700.00	8686.49	12878.06	8280.00	19.40	90.83	11.59	5298.16	966.77	5327.06	5225.45	52.42	
8800.00	8769.85	12878.06	8280.00	19.65	90.83	12.57	5298.16	966.77	5281.03	5182.50	53.60	
8900.00	8843.56	12878.06	8280.00	19.97	90.83	14.04	5298.16	966.77	5223.31	5127.80	54.69	
9000.00	8905.82	12878.06	8280.00	20.38	90.83	16.24	5298.16	966.77	5154.95	5062.13	55.54	
9100.00	8955.10	12878.06	8280.00	20.89	90.83	19.68	5298.16	966.77	5077.25	4986.46	55.92	
9200.00	8990.17	12878.06	8280.00	21.52	90.83	25.39	5298.16	966.77	4991.73	4901.83	55.53	
9300.00	9010.18	12878.06	8280.00	22.27	90.83	35.90	5298.16	966.77	4900.13	4809.18	53.88	
9400.00	9015.00	12878.06	8280.00	23.12	90.83	51.35	5298.16	966.77	4804.51	4710.48	51.10	
9500.00	9015.00	12878.06	8280.00	24.07	90.83	51.35	5298.16	966.77	4708.06	4613.29	49.68	
9600.00	9015.00	12878.06	8280.00	25.12	90.83	51.35	5298.16	966.77	4611.77	4516.16	48.24	
9700.00	9015.00	12878.06	8280.00	26.26	90.83	51.35	5298.16	966.77	4515.63	4419.13	46.79	
9800.00	9015.00	12878.06	8280.00	27.47	90.83	51.35	5298.16	966.77	4419.67	4322.21	45.35	
9900.00	9015.00	12878.06	8280.00	28.74	90.83	51.35	5298.16	966.77	4323.89	4225.42	43.91	
10000.00	9015.00	12878.06	8280.00	30.07	90.83	51.35	5298.16	966.77	4228.31	4128.77	42.48	
10100.00	9015.00	12878.06	8280.00	31.46	90.83	51.35	5298.16	966.77	4132.94	4032.29	41.06	
10200.00	9015.00	12878.06	8280.00	32.88	90.83	51.35	5298.16	966.77	4037.79	3936.00	39.67	
10300.00	9015.00	12878.06	8280.00	34.34	90.83	51.35	5298.16	966.77	3942.88	3839.91	38.29	
10400.00	9015.00	12878.06	8280.00	35.84	90.83	51.35	5298.16	966.77	3848.23	3744.05	36.94	
10500.00	9015.00	12878.06	8280.00	37.37	90.83	51.35	5298.16	966.77	3753.85	3648.45	35.61	
10600.00	9015.00	12878.06	8280.00	38.92	90.83	51.35	5298.16	966.77	3659.78	3553.12	34.31	
10700.00	9015.00	12878.06	8280.00	40.49	90.83	51.35	5298.16	966.77	3566.02	3458.09	33.04	
10800.00	9015.00	12878.06	8280.00	42.09	90.83	51.35	5298.16	966.77	3472.62	3363.39	31.79	
10900.00	9015.00	12878.06	8280.00	43.70	90.83	51.35	5298.16	966.77	3379.59	3269.05	30.58	
11000.00	9015.00	12878.06	8280.00	45.33	90.83	51.35	5298.16	966.77	3286.97	3175.11	29.39	
11100.00	9015.00	12878.06	8280.00	46.97	90.83	51.35	5298.16	966.77	3194.80	3081.61	28.22	
11200.00	9015.00	12878.06	8280.00	48.63	90.83	51.35	5298.16	966.77	3103.11	2988.57	27.09	
11300.00	9015.00	12878.06	8280.00	50.30	90.83	51.35	5298.16	966.77	3011.95	2896.05	25.99	
11400.00	9015.00	12878.06	8280.00	51.98	90.83	51.35	5298.16	966.77	2921.37	2804.11	24.91	
11500.00	9015.00	12878.06	8280.00	53.67	90.83	51.35	5298.16	966.77	2831.42	2712.79	23.87	
11600.00	9015.00	12878.06	8280.00	55.36	90.83	51.35	5298.16	966.77	2742.17	2622.15	22.85	
11700.00	9015.00	12878.06	8280.00	57.07	90.83	51.35	5298.16	966.77	2653.69	2532.28	21.86	
11800.00	9015.00	12878.06	8280.00	58.78	90.83	51.35	5298.16	966.77	2566.05	2443.25	20.89	
11900.00	9015.00	12878.06	8280.00	60.50	90.83	51.35	5298.16	966.77	2479.35	2355.14	19.96	
12000.00	9015.00	12878.06	8280.00	62.23	90.83	51.35	5298.16	966.77	2393.69	2268.07	19.06	
12100.00	9015.00	12878.06	8280.00	63.96	90.83	51.35	5298.16	966.77	2309.18	2182.15	18.18	
12200.00	9015.00	12878.06	8280.00	65.69	90.83	51.35	5298.16	966.77	2225.95	2097.50	17.33	
12300.00	9015.00	12878.06	8280.00	67.44	90.83	51.35	5298.16	966.77	2144.16	2014.29	16.51	
12400.00	9015.00	12878.06	8280.00	69.18	90.83	51.35	5298.16	966.77	2063.97	1932.67	15.72	
12500.00	9015.00	12878.06	8280.00	70.93	90.83	51.35	5298.16	966.77	1985.58	1852.85	14.96	
12600.00	9015.00	12878.06	8280.00	72.68	90.83	51.35	5298.16	966.77	1909.21	1775.05	14.23	
12700.00	9015.00	12878.06	8280.00	74.44	90.83	51.35	5298.16	966.77	1835.11	1699.52	13.53	
12800.00	9015.00	12878.06	8280.00	76.20	90.83	51.35	5298.16	966.77	1763.57	1626.54	12.87	
12900.00	9015.00	12878.06	8280.00	77.96	90.83	51.35	5298.16	966.77	1694.92	1556.44	12.24	
13000.00	9015.00	12878.06	8280.00	79.73	90.83	51.35	5298.16	966.77	1629.51	1489.59	11.65	
13100.00	9015.00	12878.06	8280.00	81.50	90.83	51.35	5298.16	966.77	1567.75	1426.39	11.09	
13200.00	9015.00	12878.06	8280.00	83.27	90.83	51.35	5298.16	966.77	1510.10	1367.29	10.57	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 2/7/2011 Time: 15:18:50 Page: 14
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #139H Co-ordinate(NE) Reference: Well: #139H, Grid North
Reference Well: #139H Vertical (TVD) Reference: SITE 3468.0
Reference Wellpath: 1 Db: Sybase

Site: Cotton Draw Unit #156H
Well: Cotton Draw Unit #156H
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
13300.00	9015.00	12878.06	8280.00	85.04	90.83	51.35	5298.16	966.77	1457.04	1312.77	10.10	
13400.00	9015.00	12878.06	8280.00	86.82	90.83	51.35	5298.16	966.77	1409.09	1263.37	9.67	
13500.00	9015.00	12878.06	8280.00	88.60	90.83	51.35	5298.16	966.77	1366.78	1219.60	9.29	
13600.00	9015.00	12878.06	8280.00	90.38	90.83	51.35	5298.16	966.77	1330.65	1182.02	8.95	
13700.00	9015.00	12878.06	8280.00	92.16	90.83	51.35	5298.16	966.77	1301.23	1151.14	8.67	
13800.00	9015.00	12878.06	8280.00	93.94	90.83	51.35	5298.16	966.77	1278.96	1127.42	8.44	
13900.00	9015.00	12878.06	8280.00	95.73	90.83	51.35	5298.16	966.77	1264.24	1111.23	8.26	
14000.00	9015.00	12878.06	8280.00	97.51	90.83	51.35	5298.16	966.77	1257.32	1102.85	8.14	
14100.00	9015.00	12815.32	8280.00	99.30	89.71	51.35	5360.91	966.60	1256.77	1101.76	8.11	
14200.00	9015.00	12715.32	8280.00	101.09	87.93	51.35	5460.91	966.32	1256.78	1101.76	8.11	
14300.00	9015.00	12615.32	8280.00	102.88	86.14	51.35	5560.90	966.05	1256.78	1101.75	8.11	
14400.00	9015.00	12515.32	8280.00	104.67	84.36	51.35	5660.90	965.78	1256.78	1101.75	8.11	
14500.00	9015.00	12415.32	8280.00	106.47	82.58	51.35	5760.90	965.50	1256.78	1101.74	8.11	
14600.00	9015.00	12315.32	8280.00	108.26	80.80	51.35	5860.90	965.23	1256.79	1101.73	8.11	
14700.00	9015.00	12215.32	8280.00	110.06	79.02	51.35	5960.90	964.96	1256.79	1101.72	8.10	
14800.00	9015.00	12115.32	8280.00	111.85	77.24	51.35	6060.90	964.68	1256.79	1101.70	8.10	
14900.00	9015.00	12015.32	8280.00	113.65	75.47	51.35	6160.90	964.41	1256.79	1101.69	8.10	
15000.00	9015.00	11915.32	8280.00	115.45	73.70	51.35	6260.90	964.13	1256.80	1101.66	8.10	
15100.00	9015.00	11815.32	8280.00	117.25	71.94	51.35	6360.90	963.86	1256.80	1101.64	8.10	
15200.00	9015.00	11715.32	8280.00	119.05	70.17	51.35	6460.90	963.59	1256.80	1101.61	8.10	
15300.00	9015.00	11615.32	8280.00	120.85	68.41	51.35	6560.90	963.31	1256.81	1101.58	8.10	
15400.00	9015.00	11515.32	8280.00	122.65	66.65	51.35	6660.90	963.04	1256.81	1101.54	8.09	
15500.00	9015.00	11415.32	8280.00	124.45	64.90	51.35	6760.90	962.77	1256.81	1101.50	8.09	
15600.00	9015.00	11315.32	8280.00	126.25	63.15	51.35	6860.90	962.49	1256.81	1101.46	8.09	
15700.00	9015.00	11215.32	8280.00	128.06	61.41	51.35	6960.90	962.22	1256.82	1101.41	8.09	
15800.00	9015.00	11115.32	8280.00	129.86	59.67	51.35	7060.90	961.94	1256.82	1101.35	8.08	
15900.00	9015.00	11015.32	8280.00	131.66	57.93	51.35	7160.90	961.67	1256.82	1101.29	8.08	
16000.00	9015.00	10915.32	8280.00	133.47	56.21	51.35	7260.90	961.40	1256.82	1101.23	8.08	
16100.00	9015.00	10815.32	8280.00	135.28	54.48	51.35	7360.90	961.12	1256.83	1101.16	8.07	
16200.00	9015.00	10715.32	8280.00	137.08	52.77	51.35	7460.90	960.85	1256.83	1101.08	8.07	
16300.00	9015.00	10615.32	8280.00	138.89	51.06	51.35	7560.90	960.58	1256.83	1100.99	8.06	
16400.00	9015.00	10515.32	8280.00	140.70	49.36	51.35	7660.90	960.30	1256.83	1100.90	8.06	
16440.41	9015.00	10474.91	8280.00	141.43	48.68	51.35	7701.31	960.19	1256.84	1100.86	8.06	

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

GeoDec v5.03

Report Date: February 07, 2011
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #139H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: RWJ

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 419723.710 USFT	Latitude 32.1525332 DEG
East/West 723283.810 USFT	Longitude -103.7454163 DEG
Grid Convergence: .31°	
Total Correction: +7.33°	

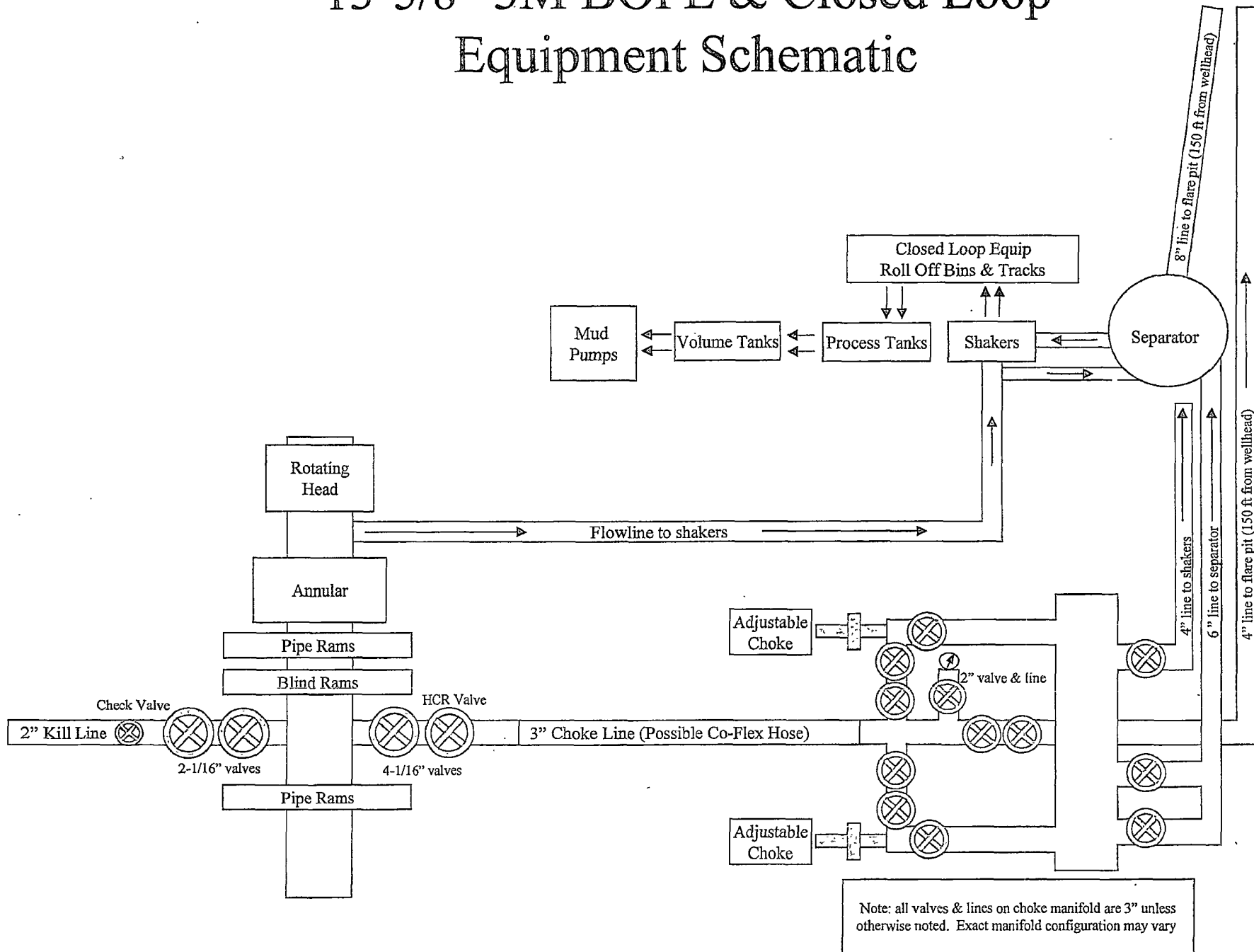
Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude = 32.15253° N	32° 9 min 9.120 sec	
Longitude = 103.74542° W	103° 44 min 43.499 sec	

Magnetic Declination =	7.64°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6634
Local Field Strength =	48559 nT	Magnetic Vector X =	24001 nT
Magnetic Dip =	60.09°	Magnetic Vector Y =	3220 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42090 nT
Spud Date =	Aug 15, 2011	Magnetic Vector H =	24216 nT

Signed: _____

Date: _____

13-5/8" 3M BOPE & Closed Loop Equipment Schematic



NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

Cotton Draw Unit 139H

Surface Location: 200' FSL & 1650' FEL, Unit O, Sec 2 T25S R31E, Eddy, NM

Bottom Hole Location: 2600' FNL & 1642' FEL, Unit J, Sec 35 T24S R31E, Eddy, NM

1. Drilling nipple will be constructed so it can be removed mechanically without the aid of a welder. The minimum internal diameter will equal BOP bore.
2. Wear ring will be properly installed in head.
3. Blowout preventer and all associated fittings will be in operable condition to withstand a minimum 3,000 psi working pressure.
4. All fittings will be flanged.
5. A full bore safety valve tested to a minimum 3,000 psi WP with proper thread connections will be available on the rotary rig floor at all times.
6. All choke lines will be anchored to prevent movement.
7. All BOP equipment will be equal to or larger in bore than the internal diameter of the last casing string.
8. Will maintain a kelly cock attached to the kelly.
9. Hand wheels and wrenches will be properly installed and tested for safe operation.
10. Hydraulic floor control for blowout preventer will be located as near in proximity to driller's controls as possible.
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. *It is good practice to use lifting & safety equipment but not mandatory.*

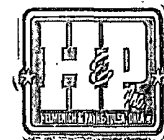
Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com





QUALITY DOCUMENT

PHOENIX RUBBER
INDUSTRIAL LTD.

H-6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152
Phone: (3662) 566-737 • Fax: (3662) 566-738

SALES & MARKETING: H-1092 Budapest, Ráday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26
Phone: (361) 458-4200 • Fax: (361) 217-2972, 456-4273 • www.leuruszinta.hu

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE		CERT. N°: 555	
PURCHASER: Phoenix Beattie Co.		P.O. N°: 1519FA-871	
PHOENIX RUBBER order N°: 170486	HOSE TYPE: 3" ID Choke and Kill Hose		
HOSE SERIAL N°: 34137	NOMINAL / ACTUAL LENGTH: 11,43 m		
W.P. 68,96 MPa 10000 psi	T.P. 103,4 MPa 15000 psi	Duration: 60 min.	
Pressure test with water at ambient temperature			
See attachment (1 page)			
↑ 10 mm = 10 Min. → 10 mm = 16 MPa			
COUPLINGS			
Type	Serial N°	Quality	Heat N°
3" coupling with	714 715	AISI 4130	C7626
4 1/16" Flange end		AISI 4130	47357
API Spec 16 C Temperature rate: "B"			
All metal parts are flawless			
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.			
Date: 30. April. 2002.	Inspector	Quality Control PHOENIX RUBBER Industrial Ltd. Hose Inspection and Test Department	

[illegible]

JOINTLY RUBBER
Industrial Ltd.
Hose Inspection and
Certification Dept.

VERIFIED TRUE COPY
PHOENIX RUBBER CO.