

Secretary's Potesh

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

EA 11-195

5. Lease Serial No.
NMNM-036379; K-4562

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Devon Energy Production Company, LP

3a. Address 20 North Broadway
Oklahoma City, Oklahoma City 73102-82603b. Phone No. (include area code)
405-228-8699

4. Location of Well (Report location clearly and in accordance with any State requirements.)*

At surface 200 FSL & 1650 FWL UNIT N PP:SEC 2 200 FSL & 1600 FWL

At proposed prod. zone 2600 FSL & 1642 FWL UNIT K SEC 35 T24S R31E

14. Distance in miles and direction from nearest town or post office*
Approximately 21 miles east of Loving, NM.12. County or Parish
Eddy County13. State
NM15. Distance from proposed*
location to nearest
property or lease line, ft.
(Also to nearest drig. unit line, if any)
200'16. No. of acres in lease
640 Acres17. Spacing Unit dedicated to this well
240 Acres18. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft.
See attached map.19. Proposed Depth
16,412' MD 8980' TVD20. BLM/BIA Bond No. on file
CO-110421. Elevations (Show whether DF, KDB, RT, GL, etc.)
3421' 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.

2. A Drilling Plan.

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).4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the
authorized officer.

25. Signature

Title

Regulatory Analyst

Name (Printed/Typed)

Judy A. Barnett

Date

11/16/2010

Approved by (Signature) /s/ Linda S. C. Rundell

Name (Printed/Typed)

/s/ Linda S. C. Rundell

Date

FEB 16 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.

APPROVAL FOR TWO YEARS

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)

CARLSEAD CONTROLLED WATER BASIN

SEE ATTACHED FOR
CONDITIONS OF APPROVALAPPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

43

DRILLING PROGRAM

Devon Energy Production Company, LP

Cotton Draw Unit 136H

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

Bottom Hole Location: 2600' FSL & 1642' FWL, Unit K, 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. Rustler	596'	
b. Salado Salt	966'	
c. Base of Salt	4076'	
d. Lamar	4301'	
e. Bell Canyon	4327'	
f. Cherry Canyon	5321'	
g. Brushy Canyon	6591'	
h. Bone Spring	8260'	Oil
i. Total Depth	16,412'	

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 ~~650'~~^{700'} and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4275' 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>
17 1/2"	0 - 650'	13 3/8"	0' - 650' ^{700'}	48#	ST&C	H-40
12 1/4"	650 -4275'	9 5/8"	0'-4275'	40#	LT&C	J-55
8 3/4"	4275-7900'	5 1/2"	0-7900'	20#	LT&C	HCP110
8 3/4"	7900-16412'	5 1/2"	7900-16,412'	17#	BTC	HCP110

Pressure Control Equipment BOP DESIGN:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M Double Ram and Annular preventer. The BOP system will be tested as per BLM Onshore Oil and Gas Order 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 Double 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. 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. See attached

Proposed Mud Circulation System

Depth	Mud Wt.	Visc	Fluid Loss	Type System
0' - 650' 700	8.4-9.0	30-34	NC	FW
650' - 4275'	9.8-10.0	28-32	NC	Brine
4275' - 16,412'	8.6-9.0	28-32	NC-12	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. A Kelly cock will be in the drill string at all times.
 - b. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
 - c. 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:
 - a. Drill stem tests will be based on geological sample shows.
 - b. 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 and Gamma Ray. Compensated Neutron - Z Density log with Gamma Ray and Caliper. Dual Laterolog-Micro Laterolog with SP
 - 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 1/2" production casing. Specific intervals will be targeted based on log evaluation, geological sample shows and drill stem tests.

Bureau of Land Management
RECEIVED

DEC 08 2010

Carlsbad Field Office
Carlsbad, N.M.

CDU 136 H
Cotton Draw
Unit
PBF OK

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 4100 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.



Weatherford®

Drilling Services

Proposal



devon

COTTON DRAW UNIT #136H

EDDY COUNTY, NM

WELL FILE: PLAN 1

NOVEMBER 1, 2010

Weatherford International, Ltd.

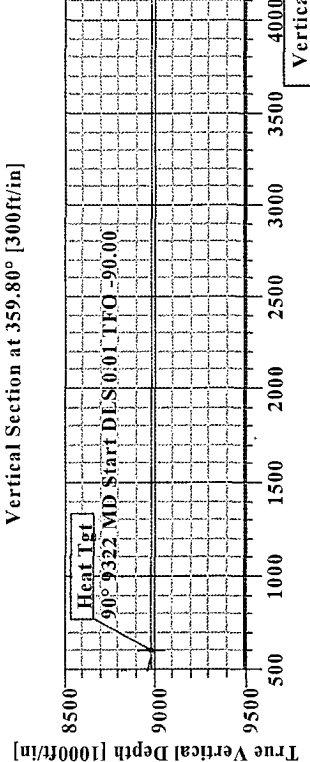
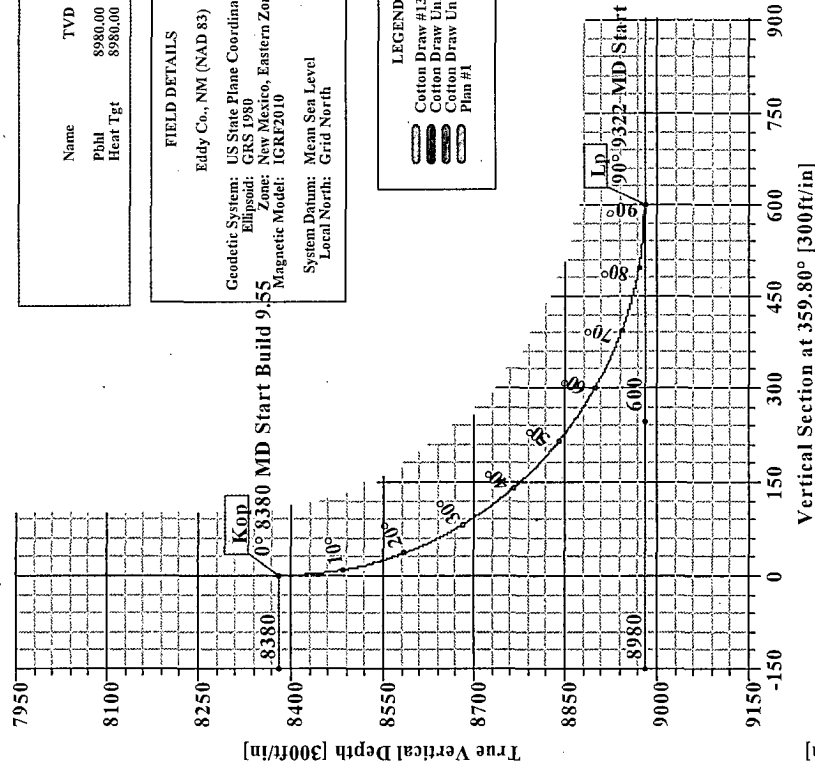
P.O. Box 61028

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www.weatherford.com





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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 11/1/2010 Time: 12:20:59 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Site: Cotton Draw Unit #136H Vertical (TVD) Reference: SITE 3446.0
Well: Cotton Draw Unit #136H Section (VS) Reference: Well (0.00N,0.00E,359.80Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 10/29/2010
Principal: Yes Version: 1
Tied-to: From Surface

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983 Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980 Coordinate System: Well Centre
Sys Datum: Mean Sea Level Geomagnetic Model: IGRF2010

Site: Cotton Draw Unit #136H

Site Position: Northing: 419733.72 ft Latitude: 32 9 9.318 N
From: Map Easting: 721286.80 ft Longitude: 103 45 6.744 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3421.00 ft Grid Convergence: 0.31 deg

Well: Cotton Draw Unit #136H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 419733.72 ft Latitude: 32 9 9.318 N
+E/-W 0.00 ft Easting: 721286.80 ft Longitude: 103 45 6.744 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3446.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 2/15/2011 Above System Datum: Mean Sea Level
Field Strength: 48612 nT Declination: 7.71 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.10 deg
ft ft ft Direction
deg
0.00 0.00 0.00 359.80

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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8380.02	0.00	0.16	8380.02	0.00	0.00	0.00	0.00	0.00	0.00	
9322.47	90.00	0.16	8980.00	599.98	1.70	9.55	9.55	0.00	0.16	Heat Tgt
16412.34	90.00	359.38	8980.00	7689.74	-26.76	0.01	0.00	-0.01	-90.00	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	0.16	8300.00	0.00	0.00	0.00	0.00	419733.72	721286.80	
8380.02	0.00	0.16	8380.02	0.00	0.00	0.00	0.00	419733.72	721286.80	Kop
8400.00	1.91	0.16	8400.00	0.33	0.00	0.33	9.55	419734.05	721286.80	
8500.00	11.46	0.16	8499.20	11.96	0.03	11.96	9.55	419745.68	721286.83	
8600.00	21.01	0.16	8595.10	39.88	0.11	39.88	9.55	419773.60	721286.91	
8700.00	30.56	0.16	8685.05	83.32	0.24	83.32	9.55	419817.04	721287.04	
8800.00	40.11	0.16	8766.53	141.09	0.40	141.08	9.55	419874.81	721287.20	
8900.00	49.66	0.16	8837.31	211.57	0.60	211.57	9.55	419945.29	721287.40	
9000.00	59.21	0.16	8895.41	292.82	0.83	292.81	9.55	420026.54	721287.63	
9100.00	68.76	0.16	8939.23	382.58	1.08	382.57	9.55	420116.30	721287.88	
9200.00	78.30	0.16	8967.54	478.36	1.36	478.35	9.55	420212.08	721288.16	
9300.00	87.85	0.16	8979.58	577.52	1.64	577.51	9.55	420311.24	721288.44	
9322.47	90.00	0.16	8980.00	599.98	1.70	599.97	9.55	420333.70	721288.50	Heat Tgt
9400.00	90.00	0.15	8980.00	677.51	1.91	677.50	0.01	420411.23	721288.71	
9500.00	90.00	0.14	8980.00	777.51	2.17	777.50	0.01	420511.23	721288.97	
9600.00	90.00	0.13	8980.00	877.51	2.41	877.50	0.01	420611.23	721289.21	
9700.00	90.00	0.12	8980.00	977.51	2.63	977.50	0.01	420711.23	721289.43	



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
Wellpath: 1

Date: 11/1/2010 Time: 12:20:59 Page: 2
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Section (VS) Reference: Well (0.00N,0.00E,359.80Azi)
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	0.11	8980.00	1077.51	2.83	1077.49	0.01	420811.23	721289.63	
9900.00	90.00	0.10	8980.00	1177.51	3.01	1177.49	0.01	420911.23	721289.81	
10000.00	90.00	0.09	8980.00	1277.51	3.18	1277.49	0.01	421011.23	721289.98	
10100.00	90.00	0.08	8980.00	1377.51	3.32	1377.49	0.01	421111.23	721290.12	
10200.00	90.00	0.07	8980.00	1477.51	3.44	1477.49	0.01	421211.23	721290.24	
10300.00	90.00	0.05	8980.00	1577.51	3.55	1577.49	0.01	421311.23	721290.35	
10400.00	90.00	0.04	8980.00	1677.51	3.63	1677.49	0.01	421411.23	721290.43	
10500.00	90.00	0.03	8980.00	1777.51	3.70	1777.49	0.01	421511.23	721290.50	
10600.00	90.00	0.02	8980.00	1877.51	3.74	1877.49	0.01	421611.23	721290.54	
10700.00	90.00	0.01	8980.00	1977.51	3.77	1977.49	0.01	421711.23	721290.57	
10800.00	90.00	360.00	8980.00	2077.51	3.78	2077.48	0.01	421811.23	721290.58	
10900.00	90.00	359.99	8980.00	2177.51	3.77	2177.48	0.01	421911.23	721290.57	
11000.00	90.00	359.98	8980.00	2277.51	3.74	2277.48	0.01	422011.23	721290.54	
11100.00	90.00	359.97	8980.00	2377.51	3.68	2377.48	0.01	422111.23	721290.48	
11200.00	90.00	359.95	8980.00	2477.51	3.62	2477.48	0.01	422211.23	721290.42	
11300.00	90.00	359.94	8980.00	2577.51	3.53	2577.48	0.01	422311.23	721290.33	
11400.00	90.00	359.93	8980.00	2677.51	3.42	2677.48	0.01	422411.23	721290.22	
11500.00	90.00	359.92	8980.00	2777.51	3.29	2777.48	0.01	422511.23	721290.09	
11600.00	90.00	359.91	8980.00	2877.51	3.14	2877.48	0.01	422611.23	721289.94	
11700.00	90.00	359.90	8980.00	2977.51	2.98	2977.48	0.01	422711.23	721289.78	
11800.00	90.00	359.89	8980.00	3077.51	2.79	3077.48	0.01	422811.23	721289.59	
11900.00	90.00	359.88	8980.00	3177.51	2.59	3177.48	0.01	422911.23	721289.39	
12000.00	90.00	359.87	8980.00	3277.51	2.36	3277.48	0.01	423011.23	721289.16	
12100.00	90.00	359.85	8980.00	3377.51	2.12	3377.48	0.01	423111.23	721288.92	
12200.00	90.00	359.84	8980.00	3477.51	1.86	3477.48	0.01	423211.23	721288.66	
12300.00	90.00	359.83	8980.00	3577.51	1.57	3577.48	0.01	423311.23	721288.37	
12400.00	90.00	359.82	8980.00	3677.51	1.27	3677.48	0.01	423411.23	721288.07	
12500.00	90.00	359.81	8980.00	3777.51	0.95	3777.48	0.01	423511.23	721287.75	
12600.00	90.00	359.80	8980.00	3877.51	0.61	3877.48	0.01	423611.23	721287.41	
12700.00	90.00	359.79	8980.00	3977.51	0.25	3977.48	0.01	423711.23	721287.05	
12800.00	90.00	359.78	8980.00	4077.51	-0.13	4077.48	0.01	423811.23	721286.67	
12900.00	90.00	359.77	8980.00	4177.50	-0.52	4177.48	0.01	423911.22	721286.28	
13000.00	90.00	359.76	8980.00	4277.50	-0.94	4277.48	0.01	424011.22	721285.86	
13100.00	90.00	359.74	8980.00	4377.50	-1.38	4377.48	0.01	424111.22	721285.42	
13200.00	90.00	359.73	8980.00	4477.50	-1.83	4477.48	0.01	424211.22	721284.97	
13300.00	90.00	359.72	8980.00	4577.50	-2.31	4577.48	0.01	424311.22	721284.49	
13400.00	90.00	359.71	8980.00	4677.50	-2.80	4677.48	0.01	424411.22	721284.00	
13500.00	90.00	359.70	8980.00	4777.50	-3.32	4777.48	0.01	424511.22	721283.48	
13600.00	90.00	359.69	8980.00	4877.50	-3.85	4877.48	0.01	424611.22	721282.95	
13700.00	90.00	359.68	8980.00	4977.49	-4.40	4977.48	0.01	424711.21	721282.40	
13800.00	90.00	359.67	8980.00	5077.49	-4.98	5077.48	0.01	424811.21	721281.82	
13900.00	90.00	359.66	8980.00	5177.49	-5.57	5177.48	0.01	424911.21	721281.23	
14000.00	90.00	359.64	8980.00	5277.49	-6.18	5277.48	0.01	425011.21	721280.62	
14100.00	90.00	359.63	8980.00	5377.49	-6.81	5377.48	0.01	425111.21	721279.99	
14200.00	90.00	359.62	8980.00	5477.49	-7.46	5477.48	0.01	425211.21	721279.34	
14300.00	90.00	359.61	8980.00	5577.48	-8.13	5577.48	0.01	425311.20	721278.67	
14400.00	90.00	359.60	8980.00	5677.48	-8.81	5677.48	0.01	425411.20	721277.99	
14500.00	90.00	359.59	8980.00	5777.48	-9.52	5777.48	0.01	425511.20	721277.28	
14600.00	90.00	359.58	8980.00	5877.48	-10.25	5877.48	0.01	425611.20	721276.55	
14700.00	90.00	359.57	8980.00	5977.47	-10.99	5977.48	0.01	425711.19	721275.81	
14800.00	90.00	359.56	8980.00	6077.47	-11.76	6077.47	0.01	425811.19	721275.04	
14900.00	90.00	359.55	8980.00	6177.47	-12.54	6177.47	0.01	425911.19	721274.26	
15000.00	90.00	359.53	8980.00	6277.46	-13.35	6277.47	0.01	426011.18	721273.45	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #136H
Well: Cotton Draw Unit #136H
Wellpath: 1

Date: 11/1/2010 Time: 12:20:59 Page: 3
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Section (VS) Reference: Well (0.00N,0.00E,359.80Azi)
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	359.52	8980.00	6377.46	-14.17	6377.47	0.01	426111.18	721272.63	
15200.00	90.00	359.51	8980.00	6477.46	-15.01	6477.47	0.01	426211.18	721271.79	
15300.00	90.00	359.50	8980.00	6577.45	-15.87	6577.47	0.01	426311.17	721270.93	
15400.00	90.00	359.49	8980.00	6677.45	-16.75	6677.47	0.01	426411.17	721270.05	
15500.00	90.00	359.48	8980.00	6777.45	-17.65	6777.47	0.01	426511.17	721269.15	
15600.00	90.00	359.47	8980.00	6877.44	-18.57	6877.46	0.01	426611.16	721268.23	
15700.00	90.00	359.46	8980.00	6977.44	-19.51	6977.46	0.01	426711.16	721267.29	
15800.00	90.00	359.45	8980.00	7077.43	-20.47	7077.46	0.01	426811.15	721266.33	
15900.00	90.00	359.43	8980.00	7177.43	-21.45	7177.46	0.01	426911.15	721265.35	
16000.00	90.00	359.42	8980.00	7277.42	-22.45	7277.46	0.01	427011.14	721264.35	
16100.00	90.00	359.41	8980.00	7377.42	-23.46	7377.45	0.01	427111.14	721263.34	
16200.00	90.00	359.40	8980.00	7477.41	-24.50	7477.45	0.01	427211.13	721262.30	
16300.00	90.00	359.39	8980.00	7577.41	-25.55	7577.45	0.01	427311.13	721261.25	
16400.00	90.00	359.38	8980.00	7677.40	-26.63	7677.45	0.01	427411.12	721260.17	
16412.34	90.00	359.38	8980.00	7689.74	-26.76	7689.79	0.01	427423.46	721260.04	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			8980.00	7689.74	-26.76	427423.46	721260.04	32	10	25.414 N	103	45	6.572 W
Heat Tgt			8980.00	599.98	1.70	420333.70	721288.50	32	9	15.255 N	103	45	6.687 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
8380.02	8380.02	Kop
9322.47	8980.00	Lp
16412.34	8980.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 11/1/2010 Time: 12:19:33 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Reference Well: Cotton Draw Unit #136H Vertical (TVD) Reference: SITE 3446.0
Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD Interval: 30.00 ft
Depth Range: 0.00 to 16412.34 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: 10/29/2010
Version: 1
Principal: Yes Tied-to: From Surface

Summary

Site	Offset Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw Unit #13	Cotton Draw Unit #131 V0 Plan: Plan #1 V1	8040.00	8038.93	50.16	14.31	1.40	Level 3
Cotton Draw Unit #13	Cotton Draw Unit #131 V0 Plan: Plan #1 V1	8010.00	8008.40	50.03	14.32	1.40	Level 3

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
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	270.50	0.44	-50.00	50.00			No Data
30.00	30.00	30.00	30.00	0.01	0.03	270.50	0.44	-50.00	50.00	49.97	1617.91	
60.00	60.00	60.00	60.00	0.04	0.05	270.50	0.44	-50.00	50.00	49.91	556.16	
90.00	90.00	90.00	90.00	0.07	0.08	270.50	0.44	-50.00	50.00	49.85	335.79	
120.00	120.00	120.00	120.00	0.13	0.13	270.50	0.44	-50.00	50.00	49.74	193.45	
150.00	150.00	150.00	150.00	0.20	0.20	270.50	0.44	-50.00	50.00	49.61	127.12	
180.00	180.00	180.00	180.00	0.26	0.26	270.50	0.44	-50.00	50.00	49.47	94.66	
210.00	210.00	210.00	210.00	0.33	0.33	270.50	0.44	-50.00	50.00	49.34	75.41	
240.00	240.00	240.00	240.00	0.40	0.40	270.50	0.44	-50.00	50.00	49.20	62.67	
270.00	270.00	270.00	270.00	0.47	0.47	270.50	0.44	-50.00	50.00	49.07	53.61	
300.00	300.00	300.00	300.00	0.53	0.53	270.50	0.44	-50.00	50.00	48.93	46.83	
330.00	330.00	330.00	330.00	0.60	0.60	270.50	0.44	-50.00	50.00	48.80	41.58	
360.00	360.00	360.00	360.00	0.67	0.67	270.50	0.44	-50.00	50.00	48.66	37.39	
390.00	390.00	390.00	390.00	0.74	0.74	270.50	0.44	-50.00	50.00	48.53	33.96	
420.00	420.00	420.00	420.00	0.80	0.80	270.50	0.44	-50.00	50.00	48.39	31.11	
450.00	450.00	450.00	450.00	0.87	0.87	270.50	0.44	-50.00	50.00	48.26	28.70	
480.00	480.00	480.00	480.00	0.94	0.94	270.50	0.44	-50.00	50.00	48.13	26.64	
510.00	510.00	510.00	510.00	1.01	1.01	270.50	0.44	-50.00	50.00	47.99	24.86	
540.00	540.00	540.00	540.00	1.07	1.07	270.50	0.44	-50.00	50.00	47.86	23.29	
570.00	570.00	570.00	570.00	1.14	1.14	270.50	0.44	-50.00	50.00	47.72	21.92	
600.00	600.00	600.00	600.00	1.21	1.21	270.50	0.44	-50.00	50.00	47.59	20.69	
630.00	630.00	630.00	630.00	1.28	1.28	270.50	0.44	-50.00	50.00	47.45	19.60	
660.00	660.00	660.00	660.00	1.34	1.34	270.50	0.44	-50.00	50.00	47.32	18.62	
690.00	690.00	690.00	690.00	1.41	1.41	270.50	0.44	-50.00	50.00	47.18	17.73	
720.00	720.00	720.00	720.00	1.48	1.48	270.50	0.44	-50.00	50.00	47.05	16.92	
750.00	750.00	750.00	750.00	1.55	1.55	270.50	0.44	-50.00	50.00	46.91	16.18	
780.00	780.00	780.00	780.00	1.61	1.61	270.50	0.44	-50.00	50.00	46.78	15.50	
810.00	810.00	810.00	810.00	1.68	1.68	270.50	0.44	-50.00	50.00	46.64	14.88	
840.00	840.00	840.00	840.00	1.75	1.75	270.50	0.44	-50.00	50.00	46.51	14.31	
870.00	870.00	870.00	870.00	1.81	1.81	270.50	0.44	-50.00	50.00	46.37	13.77	
900.00	900.00	900.00	900.00	1.88	1.88	270.50	0.44	-50.00	50.00	46.24	13.28	
930.00	930.00	930.00	930.00	1.95	1.95	270.50	0.44	-50.00	50.00	46.10	12.82	
960.00	960.00	960.00	960.00	2.02	2.02	270.50	0.44	-50.00	50.00	45.97	12.39	
990.00	990.00	990.00	990.00	2.08	2.08	270.50	0.44	-50.00	50.00	45.83	11.99	
1020.00	1020.00	1020.00	1020.00	2.15	2.15	270.50	0.44	-50.00	50.00	45.70	11.62	
1050.00	1050.00	1050.00	1050.00	2.22	2.22	270.50	0.44	-50.00	50.00	45.56	11.26	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 2

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
1080.00	1080.00	1080.00	1080.00	2.29	2.29	270.50	0.44	-50.00	50.00	45.43	10.93	
1110.00	1110.00	1110.00	1110.00	2.35	2.35	270.50	0.44	-50.00	50.00	45.29	10.62	
1140.00	1140.00	1140.00	1140.00	2.42	2.42	270.50	0.44	-50.00	50.00	45.16	10.32	
1170.00	1170.00	1170.00	1170.00	2.49	2.49	270.50	0.44	-50.00	50.00	45.02	10.04	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	270.50	0.44	-50.00	50.00	44.89	9.78	
1230.00	1230.00	1230.00	1230.00	2.62	2.62	270.50	0.44	-50.00	50.00	44.75	9.53	
1260.00	1260.00	1260.00	1260.00	2.69	2.69	270.50	0.44	-50.00	50.00	44.62	9.29	
1290.00	1290.00	1290.00	1290.00	2.76	2.76	270.50	0.44	-50.00	50.00	44.48	9.06	
1320.00	1320.00	1320.00	1320.00	2.83	2.83	270.50	0.44	-50.00	50.00	44.35	8.85	
1350.00	1350.00	1350.00	1350.00	2.89	2.89	270.50	0.44	-50.00	50.00	44.21	8.64	
1380.00	1380.00	1380.00	1380.00	2.96	2.96	270.50	0.44	-50.00	50.00	44.08	8.44	
1410.00	1410.00	1410.00	1410.00	3.03	3.03	270.50	0.44	-50.00	50.00	43.94	8.25	
1440.00	1440.00	1440.00	1440.00	3.10	3.10	270.50	0.44	-50.00	50.00	43.81	8.07	
1470.00	1470.00	1470.00	1470.00	3.16	3.16	270.50	0.44	-50.00	50.00	43.67	7.90	
1500.00	1500.00	1500.00	1500.00	3.23	3.23	270.50	0.44	-50.00	50.00	43.54	7.74	
1530.00	1530.00	1530.00	1530.00	3.30	3.30	270.50	0.44	-50.00	50.00	43.41	7.58	
1560.00	1560.00	1560.00	1560.00	3.37	3.37	270.50	0.44	-50.00	50.00	43.27	7.43	
1590.00	1590.00	1590.00	1590.00	3.43	3.43	270.50	0.44	-50.00	50.00	43.14	7.28	
1620.00	1620.00	1620.00	1620.00	3.50	3.50	270.50	0.44	-50.00	50.00	43.00	7.14	
1650.00	1650.00	1650.00	1650.00	3.57	3.57	270.50	0.44	-50.00	50.00	42.87	7.01	
1680.00	1680.00	1680.00	1680.00	3.64	3.64	270.50	0.44	-50.00	50.00	42.73	6.88	
1710.00	1710.00	1710.00	1710.00	3.70	3.70	270.50	0.44	-50.00	50.00	42.60	6.75	
1740.00	1740.00	1740.00	1740.00	3.77	3.77	270.50	0.44	-50.00	50.00	42.46	6.63	
1770.00	1770.00	1770.00	1770.00	3.84	3.84	270.50	0.44	-50.00	50.00	42.33	6.51	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	270.50	0.44	-50.00	50.00	42.19	6.40	
1830.00	1830.00	1830.00	1830.00	3.97	3.97	270.50	0.44	-50.00	50.00	42.06	6.29	
1860.00	1860.00	1860.00	1860.00	4.04	4.04	270.50	0.44	-50.00	50.00	41.92	6.19	
1890.00	1890.00	1890.00	1890.00	4.11	4.11	270.50	0.44	-50.00	50.00	41.79	6.09	
1920.00	1920.00	1920.00	1920.00	4.18	4.18	270.50	0.44	-50.00	50.00	41.65	5.99	
1950.00	1950.00	1950.00	1950.00	4.24	4.24	270.50	0.44	-50.00	50.00	41.52	5.89	
1980.00	1980.00	1980.00	1980.00	4.31	4.31	270.50	0.44	-50.00	50.00	41.38	5.80	
2010.00	2010.00	2010.00	2010.00	4.38	4.38	270.50	0.44	-50.00	50.00	41.25	5.71	
2040.00	2040.00	2040.00	2040.00	4.44	4.44	270.50	0.44	-50.00	50.00	41.11	5.62	
2070.00	2070.00	2070.00	2070.00	4.51	4.51	270.50	0.44	-50.00	50.00	40.98	5.54	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	270.50	0.44	-50.00	50.00	40.84	5.46	
2130.00	2130.00	2130.00	2130.00	4.65	4.65	270.50	0.44	-50.00	50.00	40.71	5.38	
2160.00	2160.00	2160.00	2160.00	4.71	4.71	270.50	0.44	-50.00	50.00	40.57	5.30	
2190.00	2190.00	2190.00	2190.00	4.78	4.78	270.50	0.44	-50.00	50.00	40.44	5.23	
2220.00	2220.00	2220.00	2220.00	4.85	4.85	270.50	0.44	-50.00	50.00	40.30	5.16	
2250.00	2250.00	2250.00	2250.00	4.92	4.92	270.50	0.44	-50.00	50.00	40.17	5.08	
2280.00	2280.00	2280.00	2280.00	4.98	4.98	270.50	0.44	-50.00	50.00	40.03	5.02	
2310.00	2310.00	2310.00	2310.00	5.05	5.05	270.50	0.44	-50.00	50.00	39.90	4.95	
2340.00	2340.00	2340.00	2340.00	5.12	5.12	270.50	0.44	-50.00	50.00	39.76	4.88	
2370.00	2370.00	2370.00	2370.00	5.19	5.19	270.50	0.44	-50.00	50.00	39.63	4.82	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	270.50	0.44	-50.00	50.00	39.49	4.76	
2430.00	2430.00	2430.00	2430.00	5.32	5.32	270.50	0.44	-50.00	50.00	39.36	4.70	
2460.00	2460.00	2460.00	2460.00	5.39	5.39	270.50	0.44	-50.00	50.00	39.22	4.64	
2490.00	2490.00	2490.00	2490.00	5.46	5.46	270.50	0.44	-50.00	50.00	39.09	4.58	
2520.00	2520.00	2520.00	2520.00	5.52	5.52	270.50	0.44	-50.00	50.00	38.95	4.53	
2550.00	2550.00	2550.00	2550.00	5.59	5.59	270.50	0.44	-50.00	50.00	38.82	4.47	
2580.00	2580.00	2580.00	2580.00	5.66	5.66	270.50	0.44	-50.00	50.00	38.68	4.42	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 3

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
2610.00	2610.00	2610.00	2610.00	5.73	5.73	270.50	0.44	-50.00	50.00	38.55	4.37	
2640.00	2640.00	2640.00	2640.00	5.79	5.79	270.50	0.44	-50.00	50.00	38.42	4.32	
2670.00	2670.00	2670.00	2670.00	5.86	5.86	270.50	0.44	-50.00	50.00	38.28	4.27	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	270.50	0.44	-50.00	50.00	38.15	4.22	
2730.00	2730.00	2730.00	2730.00	6.00	6.00	270.50	0.44	-50.00	50.00	38.01	4.17	
2760.00	2760.00	2760.00	2760.00	6.06	6.06	270.50	0.44	-50.00	50.00	37.88	4.12	
2790.00	2790.00	2790.00	2790.00	6.13	6.13	270.50	0.44	-50.00	50.00	37.74	4.08	
2820.00	2820.00	2820.00	2820.00	6.20	6.20	270.50	0.44	-50.00	50.00	37.61	4.03	
2850.00	2850.00	2850.00	2850.00	6.27	6.27	270.50	0.44	-50.00	50.00	37.47	3.99	
2880.00	2880.00	2880.00	2880.00	6.33	6.33	270.50	0.44	-50.00	50.00	37.34	3.95	
2910.00	2910.00	2910.00	2910.00	6.40	6.40	270.50	0.44	-50.00	50.00	37.20	3.91	
2940.00	2940.00	2940.00	2940.00	6.47	6.47	270.50	0.44	-50.00	50.00	37.07	3.87	
2970.00	2970.00	2970.00	2970.00	6.54	6.54	270.50	0.44	-50.00	50.00	36.93	3.83	
3000.00	3000.00	3000.00	3000.00	6.60	6.60	270.50	0.44	-50.00	50.00	36.80	3.79	
3030.00	3030.00	3030.00	3030.00	6.67	6.67	270.50	0.44	-50.00	50.00	36.66	3.75	
3060.00	3060.00	3060.00	3060.00	6.74	6.74	270.50	0.44	-50.00	50.00	36.53	3.71	
3090.00	3090.00	3090.00	3090.00	6.80	6.80	270.50	0.44	-50.00	50.00	36.39	3.67	
3120.00	3120.00	3120.00	3120.00	6.87	6.87	270.50	0.44	-50.00	50.00	36.26	3.64	
3150.00	3150.00	3150.00	3150.00	6.94	6.94	270.50	0.44	-50.00	50.00	36.12	3.60	
3180.00	3180.00	3180.00	3180.00	7.01	7.01	270.50	0.44	-50.00	50.00	35.99	3.57	
3210.00	3210.00	3210.00	3210.00	7.07	7.07	270.50	0.44	-50.00	50.00	35.85	3.53	
3240.00	3240.00	3240.00	3240.00	7.14	7.14	270.50	0.44	-50.00	50.00	35.72	3.50	
3270.00	3270.00	3270.00	3270.00	7.21	7.21	270.50	0.44	-50.00	50.00	35.58	3.47	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	270.50	0.44	-50.00	50.00	35.45	3.44	
3330.00	3330.00	3330.00	3330.00	7.34	7.34	270.50	0.44	-50.00	50.00	35.31	3.40	
3360.00	3360.00	3360.00	3360.00	7.41	7.41	270.50	0.44	-50.00	50.00	35.18	3.37	
3390.00	3390.00	3390.00	3390.00	7.48	7.48	270.50	0.44	-50.00	50.00	35.04	3.34	
3420.00	3420.00	3420.00	3420.00	7.55	7.55	270.50	0.44	-50.00	50.00	34.91	3.31	
3450.00	3450.00	3450.00	3450.00	7.61	7.61	270.50	0.44	-50.00	50.00	34.77	3.28	
3480.00	3480.00	3480.00	3480.00	7.68	7.68	270.50	0.44	-50.00	50.00	34.64	3.25	
3510.00	3510.00	3510.00	3510.00	7.75	7.75	270.50	0.44	-50.00	50.00	34.50	3.23	
3540.00	3540.00	3540.00	3540.00	7.82	7.82	270.50	0.44	-50.00	50.00	34.37	3.20	
3570.00	3570.00	3570.00	3570.00	7.88	7.88	270.50	0.44	-50.00	50.00	34.23	3.17	
3600.00	3600.00	3600.00	3600.00	7.95	7.95	270.50	0.44	-50.00	50.00	34.10	3.14	
3630.00	3630.00	3630.00	3630.00	8.02	8.02	270.50	0.44	-50.00	50.00	33.96	3.12	
3660.00	3660.00	3660.00	3660.00	8.09	8.09	270.50	0.44	-50.00	50.00	33.83	3.09	
3690.00	3690.00	3690.00	3690.00	8.15	8.15	270.50	0.44	-50.00	50.00	33.70	3.07	
3720.00	3720.00	3720.00	3720.00	8.22	8.22	270.50	0.44	-50.00	50.00	33.56	3.04	
3750.00	3750.00	3750.00	3750.00	8.29	8.29	270.50	0.44	-50.00	50.00	33.43	3.02	
3780.00	3780.00	3780.00	3780.00	8.36	8.36	270.50	0.44	-50.00	50.00	33.29	2.99	
3810.00	3810.00	3810.00	3810.00	8.42	8.42	270.50	0.44	-50.00	50.00	33.16	2.97	
3840.00	3840.00	3840.00	3840.00	8.49	8.49	270.50	0.44	-50.00	50.00	33.02	2.94	
3870.00	3870.00	3870.00	3870.00	8.56	8.56	270.50	0.44	-50.00	50.00	32.89	2.92	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	270.50	0.44	-50.00	50.00	32.75	2.90	
3930.00	3930.00	3930.00	3930.00	8.69	8.69	270.50	0.44	-50.00	50.00	32.62	2.88	
3960.00	3960.00	3960.00	3960.00	8.76	8.76	270.50	0.44	-50.00	50.00	32.48	2.85	
3990.00	3990.00	3990.00	3990.00	8.83	8.83	270.50	0.44	-50.00	50.00	32.35	2.83	
4020.00	4020.00	4020.00	4020.00	8.90	8.90	270.50	0.44	-50.00	50.00	32.21	2.81	
4050.00	4050.00	4050.00	4050.00	8.96	8.96	270.50	0.44	-50.00	50.00	32.08	2.79	
4080.00	4080.00	4080.00	4080.00	9.03	9.03	270.50	0.44	-50.00	50.00	31.94	2.77	
4110.00	4110.00	4110.00	4110.00	9.10	9.10	270.50	0.44	-50.00	50.00	31.81	2.75	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 4

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
4140.00	4140.00	4140.00	4140.00	9.16	9.16	270.50	0.44	-50.00	50.00	31.67	2.73	
4170.00	4170.00	4170.00	4170.00	9.23	9.23	270.50	0.44	-50.00	50.00	31.54	2.71	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	270.50	0.44	-50.00	50.00	31.40	2.69	
4230.00	4230.00	4230.00	4230.00	9.37	9.37	270.50	0.44	-50.00	50.00	31.27	2.67	
4260.00	4260.00	4260.00	4260.00	9.43	9.43	270.50	0.44	-50.00	50.00	31.13	2.65	
4290.00	4290.00	4290.00	4290.00	9.50	9.50	270.50	0.44	-50.00	50.00	31.00	2.63	
4320.00	4320.00	4320.00	4320.00	9.57	9.57	270.50	0.44	-50.00	50.00	30.86	2.61	
4350.00	4350.00	4350.00	4350.00	9.64	9.64	270.50	0.44	-50.00	50.00	30.73	2.59	
4380.00	4380.00	4380.00	4380.00	9.70	9.70	270.50	0.44	-50.00	50.00	30.59	2.58	
4410.00	4410.00	4410.00	4410.00	9.77	9.77	270.50	0.44	-50.00	50.00	30.46	2.56	
4440.00	4440.00	4440.00	4440.00	9.84	9.84	270.50	0.44	-50.00	50.00	30.32	2.54	
4470.00	4470.00	4470.00	4470.00	9.91	9.91	270.50	0.44	-50.00	50.00	30.19	2.52	
4500.00	4500.00	4500.00	4500.00	9.97	9.97	270.50	0.44	-50.00	50.00	30.05	2.51	
4530.00	4530.00	4530.00	4530.00	10.04	10.04	270.50	0.44	-50.00	50.00	29.92	2.49	
4560.00	4560.00	4560.00	4560.00	10.11	10.11	270.50	0.44	-50.00	50.00	29.78	2.47	
4590.00	4590.00	4590.00	4590.00	10.18	10.18	270.50	0.44	-50.00	50.00	29.65	2.46	
4620.00	4620.00	4620.00	4620.00	10.24	10.24	270.50	0.44	-50.00	50.00	29.51	2.44	
4650.00	4650.00	4650.00	4650.00	10.31	10.31	270.50	0.44	-50.00	50.00	29.38	2.42	
4680.00	4680.00	4680.00	4680.00	10.38	10.38	270.50	0.44	-50.00	50.00	29.24	2.41	
4710.00	4710.00	4710.00	4710.00	10.45	10.45	270.50	0.44	-50.00	50.00	29.11	2.39	
4740.00	4740.00	4740.00	4740.00	10.51	10.51	270.50	0.44	-50.00	50.00	28.98	2.38	
4770.00	4770.00	4770.00	4770.00	10.58	10.58	270.50	0.44	-50.00	50.00	28.84	2.36	
4800.00	4800.00	4800.00	4800.00	10.65	10.65	270.50	0.44	-50.00	50.00	28.71	2.35	
4830.00	4830.00	4830.00	4830.00	10.72	10.72	270.50	0.44	-50.00	50.00	28.57	2.33	
4860.00	4860.00	4860.00	4860.00	10.78	10.78	270.50	0.44	-50.00	50.00	28.44	2.32	
4890.00	4890.00	4890.00	4890.00	10.85	10.85	270.50	0.44	-50.00	50.00	28.30	2.30	
4920.00	4920.00	4920.00	4920.00	10.92	10.92	270.50	0.44	-50.00	50.00	28.17	2.29	
4950.00	4950.00	4950.00	4950.00	10.99	10.99	270.50	0.44	-50.00	50.00	28.03	2.28	
4980.00	4980.00	4980.00	4980.00	11.05	11.05	270.50	0.44	-50.00	50.00	27.90	2.26	
5010.00	5010.00	5010.00	5010.00	11.12	11.12	270.50	0.44	-50.00	50.00	27.76	2.25	
5040.00	5040.00	5040.00	5040.00	11.19	11.19	270.50	0.44	-50.00	50.00	27.63	2.23	
5070.00	5070.00	5070.00	5070.00	11.26	11.26	270.50	0.44	-50.00	50.00	27.49	2.22	
5100.00	5100.00	5100.00	5100.00	11.32	11.32	270.50	0.44	-50.00	50.00	27.36	2.21	
5130.00	5130.00	5130.00	5130.00	11.39	11.39	270.50	0.44	-50.00	50.00	27.22	2.19	
5160.00	5160.00	5160.00	5160.00	11.46	11.46	270.50	0.44	-50.00	50.00	27.09	2.18	
5190.00	5190.00	5190.00	5190.00	11.52	11.52	270.50	0.44	-50.00	50.00	26.95	2.17	
5220.00	5220.00	5220.00	5220.00	11.59	11.59	270.50	0.44	-50.00	50.00	26.82	2.16	
5250.00	5250.00	5250.00	5250.00	11.66	11.66	270.50	0.44	-50.00	50.00	26.68	2.14	
5280.00	5280.00	5280.00	5280.00	11.73	11.73	270.50	0.44	-50.00	50.00	26.55	2.13	
5310.00	5310.00	5310.00	5310.00	11.79	11.79	270.50	0.44	-50.00	50.00	26.41	2.12	
5340.00	5340.00	5340.00	5340.00	11.86	11.86	270.50	0.44	-50.00	50.00	26.28	2.11	
5370.00	5370.00	5370.00	5370.00	11.93	11.93	270.50	0.44	-50.00	50.00	26.14	2.10	
5400.00	5400.00	5400.00	5400.00	12.00	12.00	270.50	0.44	-50.00	50.00	26.01	2.08	
5430.00	5430.00	5430.00	5430.00	12.06	12.06	270.50	0.44	-50.00	50.00	25.87	2.07	
5460.00	5460.00	5460.00	5460.00	12.13	12.13	270.50	0.44	-50.00	50.00	25.74	2.06	
5490.00	5490.00	5490.00	5490.00	12.20	12.20	270.50	0.44	-50.00	50.00	25.60	2.05	
5520.00	5520.00	5520.00	5520.00	12.27	12.27	270.50	0.44	-50.00	50.00	25.47	2.04	
5550.00	5550.00	5550.00	5550.00	12.33	12.33	270.50	0.44	-50.00	50.00	25.33	2.03	
5580.00	5580.00	5580.00	5580.00	12.40	12.40	270.50	0.44	-50.00	50.00	25.20	2.02	
5610.00	5610.00	5610.00	5610.00	12.47	12.47	270.50	0.44	-50.00	50.00	25.06	2.01	
5640.00	5640.00	5640.00	5640.00	12.54	12.54	270.50	0.44	-50.00	50.00	24.93	1.99	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 5

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
5670.00	5670.00	5670.00	5670.00	12.60	12.60	270.50	0.44	-50.00	50.00	24.79	1.98	
5700.00	5700.00	5700.00	5700.00	12.67	12.67	270.50	0.44	-50.00	50.00	24.66	1.97	
5730.00	5730.00	5730.00	5730.00	12.74	12.74	270.50	0.44	-50.00	50.00	24.52	1.96	
5760.00	5760.00	5760.00	5760.00	12.81	12.81	270.50	0.44	-50.00	50.00	24.39	1.95	
5790.00	5790.00	5790.00	5790.00	12.87	12.87	270.50	0.44	-50.00	50.00	24.25	1.94	
5820.00	5820.00	5820.00	5820.00	12.94	12.94	270.50	0.44	-50.00	50.00	24.12	1.93	
5850.00	5850.00	5850.00	5850.00	13.01	13.01	270.50	0.44	-50.00	50.00	23.99	1.92	
5880.00	5880.00	5880.00	5880.00	13.08	13.08	270.50	0.44	-50.00	50.00	23.85	1.91	
5910.00	5910.00	5910.00	5910.00	13.14	13.14	270.50	0.44	-50.00	50.00	23.72	1.90	
5940.00	5940.00	5940.00	5940.00	13.21	13.21	270.50	0.44	-50.00	50.00	23.58	1.89	
5970.00	5970.00	5970.00	5970.00	13.28	13.28	270.50	0.44	-50.00	50.00	23.45	1.88	
6000.00	6000.00	6000.00	6000.00	13.35	13.35	270.50	0.44	-50.00	50.00	23.31	1.87	
6030.00	6030.00	6030.00	6030.00	13.41	13.41	270.50	0.44	-50.00	50.00	23.18	1.86	
6060.00	6060.00	6060.00	6060.00	13.48	13.48	270.50	0.44	-50.00	50.00	23.04	1.85	
6090.00	6090.00	6090.00	6090.00	13.55	13.55	270.50	0.44	-50.00	50.00	22.91	1.85	
6120.00	6120.00	6120.00	6120.00	13.62	13.62	270.50	0.44	-50.00	50.00	22.77	1.84	
6150.00	6150.00	6150.00	6150.00	13.68	13.68	270.50	0.44	-50.00	50.00	22.64	1.83	
6180.00	6180.00	6180.00	6180.00	13.75	13.75	270.50	0.44	-50.00	50.00	22.50	1.82	
6210.00	6210.00	6210.00	6210.00	13.82	13.82	270.50	0.44	-50.00	50.00	22.37	1.81	
6240.00	6240.00	6240.00	6240.00	13.88	13.88	270.50	0.44	-50.00	50.00	22.23	1.80	
6270.00	6270.00	6270.00	6270.00	13.95	13.95	270.50	0.44	-50.00	50.00	22.10	1.79	
6300.00	6300.00	6300.00	6300.00	14.02	14.02	270.50	0.44	-50.00	50.00	21.96	1.78	
6330.00	6330.00	6330.00	6330.00	14.09	14.09	270.50	0.44	-50.00	50.00	21.83	1.77	
6360.00	6360.00	6360.00	6360.00	14.15	14.15	270.50	0.44	-50.00	50.00	21.69	1.77	
6390.00	6390.00	6390.00	6390.00	14.22	14.22	270.50	0.44	-50.00	50.00	21.56	1.76	
6420.00	6420.00	6420.00	6420.00	14.29	14.29	270.50	0.44	-50.00	50.00	21.42	1.75	
6450.00	6450.00	6450.00	6450.00	14.36	14.36	270.50	0.44	-50.00	50.00	21.29	1.74	
6480.00	6480.00	6480.00	6480.00	14.42	14.42	270.50	0.44	-50.00	50.00	21.15	1.73	
6510.00	6510.00	6510.00	6510.00	14.49	14.49	270.50	0.44	-50.00	50.00	21.02	1.73	
6540.00	6540.00	6540.00	6540.00	14.56	14.56	270.50	0.44	-50.00	50.00	20.88	1.72	
6570.00	6570.00	6570.00	6570.00	14.63	14.63	270.50	0.44	-50.00	50.00	20.75	1.71	
6600.00	6600.00	6600.00	6600.00	14.69	14.69	270.50	0.44	-50.00	50.00	20.61	1.70	
6630.00	6630.00	6630.00	6630.00	14.76	14.76	270.50	0.44	-50.00	50.00	20.48	1.69	
6660.00	6660.00	6660.00	6660.00	14.83	14.83	270.50	0.44	-50.00	50.00	20.34	1.69	
6690.00	6690.00	6690.00	6690.00	14.90	14.90	270.50	0.44	-50.00	50.00	20.21	1.68	
6720.00	6720.00	6720.00	6720.00	14.96	14.96	270.50	0.44	-50.00	50.00	20.07	1.67	
6750.00	6750.00	6750.00	6750.00	15.03	15.03	270.50	0.44	-50.00	50.00	19.94	1.66	
6780.00	6780.00	6780.00	6780.00	15.10	15.10	270.50	0.44	-50.00	50.00	19.80	1.66	
6810.00	6810.00	6810.00	6810.00	15.17	15.17	270.50	0.44	-50.00	50.00	19.67	1.65	
6840.00	6840.00	6840.00	6840.00	15.23	15.23	270.50	0.44	-50.00	50.00	19.53	1.64	
6870.00	6870.00	6870.00	6870.00	15.30	15.30	270.50	0.44	-50.00	50.00	19.40	1.63	
6900.00	6900.00	6900.00	6900.00	15.37	15.37	270.50	0.44	-50.00	50.00	19.27	1.63	
6930.00	6930.00	6930.00	6930.00	15.44	15.44	270.50	0.44	-50.00	50.00	19.13	1.62	
6960.00	6960.00	6960.00	6960.00	15.50	15.50	270.50	0.44	-50.00	50.00	19.00	1.61	
6990.00	6990.00	6990.00	6990.00	15.57	15.57	270.50	0.44	-50.00	50.00	18.86	1.61	
7020.00	7020.00	7020.00	7020.00	15.64	15.64	270.50	0.44	-50.00	50.00	18.73	1.60	
7050.00	7050.00	7050.00	7050.00	15.71	15.71	270.50	0.44	-50.00	50.00	18.59	1.59	
7080.00	7080.00	7080.00	7080.00	15.77	15.77	270.50	0.44	-50.00	50.00	18.46	1.59	
7110.00	7110.00	7110.00	7110.00	15.84	15.84	270.50	0.44	-50.00	50.00	18.32	1.58	
7140.00	7140.00	7140.00	7140.00	15.91	15.91	270.50	0.44	-50.00	50.00	18.19	1.57	
7170.00	7170.00	7170.00	7170.00	15.98	15.98	270.50	0.44	-50.00	50.00	18.05	1.56	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 6

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
7200.00	7200.00	7200.00	7200.00	16.04	16.04	270.50	0.44	-50.00	50.00	17.92	1.56	
7230.00	7230.00	7230.00	7230.00	16.11	16.11	270.50	0.44	-50.00	50.00	17.78	1.55	
7260.00	7260.00	7260.00	7260.00	16.18	16.18	270.50	0.44	-50.00	50.00	17.65	1.55	
7290.00	7290.00	7290.00	7290.00	16.24	16.24	270.50	0.44	-50.00	50.00	17.51	1.54	
7320.00	7320.00	7320.00	7320.00	16.31	16.31	270.50	0.44	-50.00	50.00	17.38	1.53	
7350.00	7350.00	7350.00	7350.00	16.38	16.38	270.50	0.44	-50.00	50.00	17.24	1.53	
7380.00	7380.00	7380.00	7380.00	16.45	16.45	270.50	0.44	-50.00	50.00	17.11	1.52	
7410.00	7410.00	7410.00	7410.00	16.51	16.51	270.50	0.44	-50.00	50.00	16.97	1.51	
7440.00	7440.00	7440.00	7440.00	16.58	16.58	270.50	0.44	-50.00	50.00	16.84	1.51	
7470.00	7470.00	7470.00	7470.00	16.65	16.65	270.50	0.44	-50.00	50.00	16.70	1.50	
7500.00	7500.00	7500.00	7500.00	16.72	16.72	270.50	0.44	-50.00	50.00	16.57	1.50	Level 3
7530.00	7530.00	7530.00	7530.00	16.78	16.78	270.50	0.44	-50.00	50.00	16.43	1.49	Level 3
7560.00	7560.00	7560.00	7560.00	16.85	16.85	270.50	0.44	-50.00	50.00	16.30	1.48	Level 3
7590.00	7590.00	7590.00	7590.00	16.92	16.92	270.50	0.44	-50.00	50.00	16.16	1.48	Level 3
7620.00	7620.00	7620.00	7620.00	16.99	16.99	270.50	0.44	-50.00	50.00	16.03	1.47	Level 3
7650.00	7650.00	7650.00	7650.00	17.05	17.05	270.50	0.44	-50.00	50.00	15.89	1.47	Level 3
7680.00	7680.00	7680.00	7680.00	17.12	17.12	270.50	0.44	-50.00	50.00	15.76	1.46	Level 3
7710.00	7710.00	7710.00	7710.00	17.19	17.19	270.50	0.44	-50.00	50.00	15.62	1.45	Level 3
7740.00	7740.00	7740.00	7740.00	17.26	17.26	270.50	0.44	-50.00	50.00	15.49	1.45	Level 3
7770.00	7770.00	7770.00	7770.00	17.32	17.32	270.50	0.44	-50.00	50.00	15.35	1.44	Level 3
7800.00	7800.00	7800.00	7800.00	17.39	17.39	270.50	0.44	-50.00	50.00	15.22	1.44	Level 3
7830.00	7830.00	7830.00	7830.00	17.46	17.46	270.50	0.44	-50.00	50.00	15.08	1.43	Level 3
7860.00	7860.00	7860.00	7860.00	17.53	17.53	270.50	0.44	-50.00	50.00	14.95	1.43	Level 3
7890.00	7890.00	7890.00	7890.00	17.59	17.59	270.50	0.44	-50.00	50.00	14.81	1.42	Level 3
7920.00	7920.00	7920.00	7920.00	17.66	17.66	270.50	0.44	-50.00	50.00	14.68	1.42	Level 3
7950.00	7950.00	7950.00	7950.00	17.73	17.73	270.50	0.44	-50.00	50.00	14.55	1.41	Level 3
7980.00	7980.00	7980.00	7980.00	17.80	17.80	270.50	0.44	-50.00	50.00	14.41	1.40	Level 3
8010.00	8010.00	8010.00	8010.00	17.86	17.86	270.50	0.44	-50.00	50.00	14.28	1.40	Level 3
8040.00	8040.00	8038.93	8038.93	17.93	17.93	270.47	0.41	-50.15	50.16	14.31	1.40	Level 3
8070.00	8070.00	8066.72	8066.70	18.00	17.98	270.23	0.20	-51.34	51.44	15.50	1.43	Level 3
8100.00	8100.00	8094.36	8094.22	18.07	18.03	269.77	-0.22	-53.70	54.01	17.99	1.50	Level 3
8130.00	8130.00	8121.74	8121.36	18.13	18.09	269.16	-0.84	-57.20	57.86	21.79	1.60	
8160.00	8160.00	8148.76	8147.98	18.20	18.14	268.47	-1.65	-61.78	62.96	26.86	1.74	
8190.00	8190.00	8175.33	8173.94	18.27	18.20	267.75	-2.64	-67.37	69.30	33.21	1.92	
8220.00	8220.00	8201.39	8199.14	18.34	18.25	267.06	-3.80	-73.87	76.85	40.77	2.13	
8250.00	8250.00	8226.85	8223.49	18.40	18.30	266.40	-5.10	-81.20	85.57	49.53	2.37	
8280.00	8280.00	8251.66	8246.91	18.47	18.36	265.81	-6.53	-89.27	95.43	59.42	2.65	
8310.00	8310.00	8275.77	8269.35	18.54	18.41	265.29	-8.08	-97.96	106.36	70.43	2.96	
8340.00	8340.00	8299.15	8290.77	18.61	18.47	264.82	-9.72	-107.17	118.34	82.48	3.30	
8370.00	8370.00	8321.77	8311.15	18.67	18.52	264.41	-11.43	-116.82	131.31	95.54	3.67	
8400.00	8400.00	8343.58	8330.46	18.74	18.58	264.78	-13.20	-126.80	145.24	109.56	4.07	
8430.00	8429.94	8364.46	8348.62	18.81	18.64	265.55	-15.01	-136.95	160.20	124.62	4.50	
8460.00	8459.76	8384.36	8365.59	18.87	18.70	266.17	-16.82	-147.17	176.13	140.65	4.96	
8490.00	8489.39	8403.22	8381.38	18.94	18.75	266.74	-18.63	-157.33	193.00	157.62	5.45	
8520.00	8518.73	8421.03	8396.00	19.00	18.81	267.35	-20.41	-167.35	210.78	175.50	5.97	
8550.00	8547.74	8437.79	8409.49	19.06	18.87	268.04	-22.14	-177.14	229.42	194.22	6.52	
8580.00	8576.32	8453.49	8421.89	19.13	18.93	268.87	-23.83	-186.62	248.88	213.75	7.08	
8610.00	8604.41	8468.15	8433.25	19.19	18.98	269.86	-25.45	-195.74	269.11	234.03	7.67	
8640.00	8631.94	8486.04	8446.88	19.26	19.05	270.55	-27.39	-207.17	289.99	254.83	8.25	
8670.00	8658.84	8508.68	8464.15	19.33	19.15	270.83	-29.18	-221.70	311.01	275.63	8.79	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

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Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr 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				
8700.00	8685.05	8531.87	8481.87	19.40	19.25	271.20	-30.19	-236.62	332.06	296.43	9.32	
8730.00	8710.49	8555.73	8500.12	19.47	19.35	271.62	-30.34	-251.99	353.10	317.18	9.83	
8760.00	8735.10	8580.36	8518.94	19.55	19.45	272.07	-29.56	-267.84	374.08	337.87	10.33	
8790.00	8758.83	8605.89	8538.42	19.63	19.57	272.53	-27.75	-284.25	394.96	358.43	10.81	
8820.00	8781.61	8632.49	8558.63	19.72	19.68	272.97	-24.78	-301.28	415.69	378.83	11.28	
8850.00	8803.39	8660.33	8579.66	19.81	19.80	273.38	-20.49	-319.01	436.23	399.01	11.72	
8880.00	8824.11	8689.62	8601.61	19.91	19.93	273.73	-14.68	-337.51	456.52	418.92	12.14	
8910.00	8843.72	8720.60	8624.57	20.02	20.06	274.02	-7.11	-356.87	476.51	438.51	12.54	
8940.00	8862.17	8753.55	8648.65	20.14	20.19	274.23	2.54	-377.18	496.13	457.71	12.91	
8970.00	8879.41	8788.80	8673.95	20.27	20.34	274.34	14.65	-398.53	515.32	476.44	13.26	
9000.00	8895.41	8826.74	8700.56	20.40	20.49	274.35	29.71	-420.99	533.97	494.62	13.57	
9030.00	8910.12	8867.81	8728.53	20.56	20.66	274.25	48.32	-444.61	552.00	512.13	13.85	
9060.00	8923.50	8912.52	8757.86	20.71	20.84	274.04	71.21	-469.39	569.29	528.88	14.09	
9090.00	8935.52	8961.43	8788.44	20.88	21.03	273.71	99.26	-495.24	585.69	544.71	14.29	
9120.00	8946.16	9015.13	8820.00	21.06	21.25	273.27	133.50	-521.94	601.04	559.46	14.45	
9150.00	8955.38	9074.21	8852.04	21.25	21.49	272.75	175.05	-549.06	615.16	572.95	14.57	
9180.00	8963.16	9139.19	8883.69	21.46	21.76	272.17	225.02	-575.89	627.80	584.94	14.65	
9210.00	8969.49	9210.37	8913.69	21.67	22.05	271.57	284.29	-601.35	638.73	595.21	14.68	
9240.00	8974.34	9287.72	8940.32	21.89	22.36	271.00	353.23	-624.02	647.66	603.50	14.67	
9270.00	8977.71	9370.65	8961.54	22.12	22.68	270.52	431.26	-642.16	654.33	609.55	14.61	
9300.00	8979.58	9457.94	8975.30	22.36	23.00	270.17	516.57	-654.04	658.51	613.15	14.52	
9330.00	8980.00	9546.90	8980.00	22.61	23.30	270.00	605.23	-658.30	660.03	614.14	14.38	
9360.00	8980.00	9576.90	8980.00	22.87	23.58	270.00	635.23	-658.41	660.21	613.80	14.22	
9390.00	8980.00	9606.90	8980.00	23.12	23.86	270.00	665.23	-658.51	660.40	613.45	14.06	
9420.00	8980.00	9636.90	8980.00	23.39	24.15	270.00	695.23	-658.61	660.58	613.07	13.90	
9450.00	8980.00	9666.90	8980.00	23.67	24.44	270.00	725.23	-658.72	660.77	612.68	13.74	
9480.00	8980.00	9696.90	8980.00	23.95	24.73	270.00	755.23	-658.82	660.95	612.29	13.58	
9510.00	8980.00	9726.90	8980.00	24.24	25.05	270.00	785.23	-658.92	661.13	611.86	13.42	
9540.00	8980.00	9756.90	8980.00	24.55	25.37	270.00	815.23	-659.03	661.30	611.41	13.26	
9570.00	8980.00	9786.90	8980.00	24.86	25.69	270.00	845.22	-659.13	661.48	610.96	13.09	
9600.00	8980.00	9816.90	8980.00	25.17	26.02	270.00	875.22	-659.23	661.65	610.49	12.93	
9630.00	8980.00	9846.90	8980.00	25.50	26.37	270.00	905.22	-659.34	661.82	609.99	12.77	
9660.00	8980.00	9876.89	8980.00	25.84	26.71	270.00	935.22	-659.44	661.99	609.48	12.61	
9690.00	8980.00	9906.89	8980.00	26.17	27.06	270.00	965.22	-659.55	662.16	608.96	12.45	
9720.00	8980.00	9936.89	8980.00	26.52	27.42	270.00	995.22	-659.65	662.33	608.42	12.29	
9750.00	8980.00	9966.89	8980.00	26.88	27.79	270.00	1025.22	-659.75	662.49	607.86	12.13	
9780.00	8980.00	9996.89	8980.00	27.23	28.15	270.00	1055.22	-659.86	662.66	607.30	11.97	
9810.00	8980.00	10026.89	8980.00	27.60	28.53	270.00	1085.22	-659.96	662.82	606.71	11.81	
9840.00	8980.00	10056.89	8980.00	27.98	28.92	270.00	1115.22	-660.06	662.98	606.11	11.66	
9870.00	8980.00	10086.89	8980.00	28.35	29.30	270.00	1145.22	-660.17	663.13	605.51	11.51	
9900.00	8980.00	10116.89	8980.00	28.73	29.70	270.00	1175.22	-660.27	663.29	604.89	11.36	
9930.00	8980.00	10146.89	8980.01	29.13	30.10	270.00	1205.22	-660.38	663.44	604.25	11.21	
9960.00	8980.00	10176.89	8980.01	29.52	30.50	270.00	1235.22	-660.48	663.60	603.61	11.06	
9990.00	8980.00	10206.89	8980.01	29.92	30.90	270.00	1265.22	-660.58	663.75	602.96	10.92	
10020.00	8980.00	10236.89	8980.01	30.32	31.32	270.00	1295.22	-660.69	663.90	602.29	10.78	
10050.00	8980.00	10266.89	8980.01	30.73	31.73	270.00	1325.21	-660.79	664.04	601.61	10.64	
10080.00	8980.00	10296.89	8980.01	31.14	32.15	270.00	1355.21	-660.89	664.19	600.93	10.50	
10110.00	8980.00	10326.89	8980.01	31.56	32.57	270.00	1385.21	-661.00	664.33	600.24	10.36	
10140.00	8980.00	10356.89	8980.01	31.98	33.00	270.00	1415.21	-661.10	664.48	599.53	10.23	
10170.00	8980.00	10386.89	8980.01	32.40	33.43	270.00	1445.21	-661.21	664.62	598.82	10.10	
10200.00	8980.00	10416.89	8980.01	32.83	33.86	270.00	1475.21	-661.31	664.76	598.10	9.97	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

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Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		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				
10230.00	8980.00	10446.89	8980.01	33.26	34.30	270.00	1505.21	-661.41	664.89	597.36	9.85	
10260.00	8980.00	10476.89	8980.01	33.70	34.74	270.00	1535.21	-661.52	665.03	596.62	9.72	
10290.00	8980.00	10506.89	8980.01	34.13	35.18	270.00	1565.21	-661.62	665.16	595.88	9.60	
10320.00	8980.00	10536.89	8980.01	34.57	35.63	270.00	1595.21	-661.72	665.29	595.12	9.48	
10350.00	8980.00	10566.89	8980.01	35.02	36.08	270.00	1625.21	-661.83	665.42	594.35	9.36	
10380.00	8980.00	10596.89	8980.01	35.47	36.52	270.00	1655.21	-661.93	665.55	593.59	9.25	
10410.00	8980.00	10626.89	8980.01	35.91	36.98	270.00	1685.21	-662.04	665.68	592.81	9.14	
10440.00	8980.00	10656.89	8980.01	36.37	37.44	270.00	1715.21	-662.14	665.80	592.02	9.02	
10470.00	8980.00	10686.88	8980.01	36.82	37.90	270.00	1745.21	-662.24	665.93	591.23	8.92	
10500.00	8980.00	10716.88	8980.01	37.28	38.36	270.00	1775.21	-662.35	666.05	590.44	8.81	
10530.00	8980.00	10746.88	8980.01	37.74	38.82	270.00	1805.21	-662.45	666.17	589.63	8.70	
10560.00	8980.00	10776.88	8980.01	38.20	39.29	270.00	1835.21	-662.55	666.29	588.82	8.60	
10590.00	8980.00	10806.88	8980.01	38.67	39.75	270.00	1865.21	-662.66	666.40	588.01	8.50	
10620.00	8980.00	10836.88	8980.01	39.13	40.22	270.00	1895.21	-662.76	666.52	587.18	8.40	
10650.00	8980.00	10866.88	8980.01	39.60	40.70	270.00	1925.21	-662.87	666.63	586.35	8.30	
10680.00	8980.00	10896.88	8980.01	40.07	41.17	270.00	1955.21	-662.97	666.74	585.52	8.21	
10710.00	8980.00	10926.88	8980.01	40.55	41.65	270.00	1985.20	-663.07	666.85	584.68	8.12	
10740.00	8980.00	10956.88	8980.01	41.02	42.12	270.00	2015.20	-663.18	666.96	583.83	8.02	
10770.00	8980.00	10986.88	8980.01	41.50	42.60	270.00	2045.20	-663.28	667.06	582.99	7.93	
10800.00	8980.00	11016.88	8980.01	41.97	43.08	270.00	2075.20	-663.38	667.17	582.13	7.85	
10830.00	8980.00	11046.88	8980.01	42.46	43.56	270.00	2105.20	-663.49	667.27	581.27	7.76	
10860.00	8980.00	11076.88	8980.01	42.94	44.05	270.00	2135.20	-663.59	667.37	580.41	7.67	
10890.00	8980.00	11106.88	8980.01	43.42	44.53	270.00	2165.20	-663.69	667.47	579.54	7.59	
10920.00	8980.00	11136.88	8980.01	43.90	45.02	270.00	2195.20	-663.80	667.56	578.66	7.51	
10950.00	8980.00	11166.88	8980.01	44.39	45.51	270.00	2225.20	-663.90	667.66	577.78	7.43	
10980.00	8980.00	11196.88	8980.01	44.88	46.00	270.00	2255.20	-664.01	667.75	576.90	7.35	
11010.00	8980.00	11226.88	8980.01	45.37	46.49	270.00	2285.20	-664.11	667.84	576.01	7.27	
11040.00	8980.00	11256.88	8980.01	45.86	46.98	270.00	2315.20	-664.21	667.93	575.12	7.20	
11070.00	8980.00	11286.88	8980.02	46.35	47.47	270.00	2345.20	-664.32	668.02	574.22	7.12	
11100.00	8980.00	11316.88	8980.02	46.84	47.97	270.00	2375.20	-664.42	668.11	573.32	7.05	
11130.00	8980.00	11346.88	8980.02	47.33	48.46	270.00	2405.20	-664.52	668.19	572.42	6.98	
11160.00	8980.00	11376.88	8980.02	47.83	48.96	270.00	2435.20	-664.63	668.28	571.51	6.91	
11190.00	8980.00	11406.88	8980.02	48.33	49.46	270.00	2465.20	-664.73	668.36	570.60	6.84	
11220.00	8980.00	11436.88	8980.02	48.82	49.96	270.00	2495.20	-664.84	668.44	569.68	6.77	
11250.00	8980.00	11466.88	8980.02	49.32	50.46	270.00	2525.20	-664.94	668.52	568.76	6.70	
11280.00	8980.00	11496.88	8980.02	49.82	50.96	270.00	2555.20	-665.04	668.59	567.83	6.64	
11310.00	8980.00	11526.88	8980.02	50.32	51.46	270.00	2585.20	-665.15	668.67	566.91	6.57	
11340.00	8980.00	11556.88	8980.02	50.82	51.96	270.00	2615.20	-665.25	668.74	565.97	6.51	
11370.00	8980.00	11586.88	8980.02	51.33	52.46	270.00	2645.20	-665.35	668.81	565.04	6.45	
11400.00	8980.00	11616.88	8980.02	51.83	52.97	270.00	2675.20	-665.46	668.88	564.10	6.38	
11430.00	8980.00	11646.88	8980.02	52.33	53.47	270.00	2705.20	-665.56	668.95	563.16	6.32	
11460.00	8980.00	11676.88	8980.02	52.84	53.98	270.00	2735.20	-665.67	669.01	562.21	6.26	
11490.00	8980.00	11706.88	8980.02	53.34	54.49	270.00	2765.20	-665.77	669.08	561.26	6.21	
11520.00	8980.00	11736.88	8980.02	53.85	55.00	270.00	2795.20	-665.87	669.14	560.31	6.15	
11550.00	8980.00	11766.88	8980.02	54.36	55.50	270.00	2825.20	-665.98	669.20	559.35	6.09	
11580.00	8980.00	11796.88	8980.02	54.87	56.01	270.00	2855.20	-666.08	669.26	558.40	6.04	
11610.00	8980.00	11826.88	8980.02	55.38	56.52	270.00	2885.20	-666.18	669.32	557.43	5.98	
11640.00	8980.00	11856.88	8980.02	55.89	57.03	270.00	2915.20	-666.29	669.37	556.47	5.93	
11670.00	8980.00	11886.88	8980.02	56.40	57.55	270.00	2945.20	-666.39	669.42	555.50	5.88	
11700.00	8980.00	11916.88	8980.02	56.91	58.06	270.00	2975.20	-666.50	669.48	554.53	5.82	
11730.00	8980.00	11946.88	8980.02	57.42	58.57	270.00	3005.19	-666.60	669.53	553.55	5.77	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010 Time: 12:19:33 Page: 9
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
11760.00	8980.00	11976.88	8980.02	57.93	59.08	270.00	3035.19	-666.70	669.57	552.57	5.72	
11790.00	8980.00	12006.88	8980.02	58.45	59.60	270.00	3065.19	-666.81	669.62	551.59	5.67	
11820.00	8980.00	12036.88	8980.02	58.96	60.11	270.00	3095.19	-666.91	669.67	550.61	5.62	
11850.00	8980.00	12066.88	8980.02	59.47	60.63	270.00	3125.19	-667.01	669.71	549.62	5.58	
11880.00	8980.00	12096.88	8980.02	59.99	61.14	270.00	3155.19	-667.12	669.75	548.63	5.53	
11910.00	8980.00	12126.88	8980.02	60.51	61.66	270.00	3185.19	-667.22	669.79	547.64	5.48	
11940.00	8980.00	12156.88	8980.02	61.02	62.18	270.00	3215.19	-667.33	669.83	546.65	5.44	
11970.00	8980.00	12186.88	8980.02	61.54	62.69	270.00	3245.19	-667.43	669.86	545.65	5.39	
12000.00	8980.00	12216.88	8980.02	62.06	63.21	270.00	3275.19	-667.53	669.90	544.65	5.35	
12030.00	8980.00	12246.88	8980.02	62.57	63.73	270.00	3305.19	-667.64	669.93	543.64	5.30	
12060.00	8980.00	12276.88	8980.02	63.09	64.25	270.00	3335.19	-667.74	669.96	542.64	5.26	
12090.00	8980.00	12306.88	8980.02	63.61	64.77	270.00	3365.19	-667.84	669.99	541.63	5.22	
12120.00	8980.00	12336.88	8980.02	64.13	65.29	270.00	3395.19	-667.95	670.02	540.62	5.18	
12150.00	8980.00	12366.88	8980.02	64.65	65.81	270.00	3425.19	-668.05	670.05	539.60	5.14	
12180.00	8980.00	12396.88	8980.02	65.17	66.33	270.00	3455.19	-668.15	670.07	538.58	5.10	
12210.00	8980.00	12426.88	8980.03	65.69	66.85	270.00	3485.19	-668.26	670.09	537.56	5.06	
12240.00	8980.00	12456.88	8980.03	66.21	67.37	270.00	3515.19	-668.36	670.11	536.54	5.02	
12270.00	8980.00	12486.88	8980.03	66.73	67.89	270.00	3545.19	-668.47	670.13	535.52	4.98	
12300.00	8980.00	12516.88	8980.03	67.26	68.42	270.00	3575.19	-668.57	670.15	534.49	4.94	
12330.00	8980.00	12546.88	8980.03	67.78	68.94	270.00	3605.19	-668.67	670.16	533.46	4.90	
12360.00	8980.00	12576.88	8980.03	68.30	69.46	270.00	3635.19	-668.78	670.18	532.43	4.87	
12390.00	8980.00	12606.88	8980.03	68.82	69.99	270.00	3665.19	-668.88	670.19	531.39	4.83	
12420.00	8980.00	12636.88	8980.03	69.35	70.51	270.00	3695.19	-668.98	670.20	530.35	4.79	
12450.00	8980.00	12666.88	8980.03	69.87	71.03	270.00	3725.19	-669.09	670.21	529.31	4.76	
12480.00	8980.00	12696.88	8980.03	70.40	71.56	270.00	3755.19	-669.19	670.21	528.27	4.72	
12510.00	8980.00	12726.88	8980.03	70.92	72.08	270.00	3785.19	-669.30	670.22	527.23	4.69	
12540.00	8980.00	12756.88	8980.03	71.45	72.61	270.00	3815.19	-669.40	670.22	526.18	4.65	
12570.00	8980.00	12786.88	8980.03	71.97	73.13	270.00	3845.19	-669.50	670.22	525.13	4.62	
12600.00	8980.00	12816.88	8980.03	72.50	73.66	270.00	3875.19	-669.61	670.22	524.08	4.59	
12630.00	8980.00	12846.88	8980.03	73.02	74.19	270.00	3905.19	-669.71	670.22	523.02	4.55	
12660.00	8980.00	12876.88	8980.03	73.55	74.71	270.00	3935.19	-669.81	670.22	521.96	4.52	
12690.00	8980.00	12906.88	8980.03	74.08	75.24	270.00	3965.19	-669.92	670.21	520.90	4.49	
12720.00	8980.00	12936.88	8980.03	74.61	75.77	270.00	3995.19	-670.02	670.20	519.84	4.46	
12750.00	8980.00	12966.88	8980.03	75.13	76.30	270.00	4025.19	-670.13	670.19	518.78	4.43	
12780.00	8980.00	12996.88	8980.03	75.66	76.82	270.00	4055.19	-670.23	670.18	517.71	4.40	
12810.00	8980.00	13026.88	8980.03	76.19	77.35	270.00	4085.19	-670.33	670.17	516.64	4.37	
12840.00	8980.00	13056.88	8980.03	76.72	77.88	270.00	4115.19	-670.44	670.16	515.57	4.34	
12870.00	8980.00	13086.88	8980.03	77.25	78.41	270.00	4145.19	-670.54	670.14	514.50	4.31	
12900.00	8980.00	13116.88	8980.03	77.77	78.94	270.00	4175.19	-670.64	670.12	513.42	4.28	
12930.00	8980.00	13146.88	8980.03	78.30	79.47	270.00	4205.19	-670.75	670.10	512.35	4.25	
12960.00	8980.00	13176.88	8980.03	78.83	80.00	270.00	4235.19	-670.85	670.08	511.26	4.22	
12990.00	8980.00	13206.88	8980.03	79.36	80.53	270.00	4265.19	-670.96	670.06	510.18	4.19	
13020.00	8980.00	13236.88	8980.03	79.89	81.06	270.00	4295.19	-671.06	670.04	509.10	4.16	
13050.00	8980.00	13266.88	8980.03	80.42	81.59	270.00	4325.19	-671.16	670.01	508.01	4.14	
13080.00	8980.00	13296.88	8980.03	80.95	82.12	270.00	4355.19	-671.27	669.98	506.92	4.11	
13110.00	8980.00	13326.88	8980.03	81.48	82.65	270.00	4385.19	-671.37	669.95	505.83	4.08	
13140.00	8980.00	13356.88	8980.03	82.01	83.18	270.00	4415.19	-671.47	669.92	504.74	4.06	
13170.00	8980.00	13386.88	8980.03	82.55	83.71	270.00	4445.19	-671.58	669.89	503.64	4.03	
13200.00	8980.00	13416.88	8980.03	83.08	84.24	270.00	4475.19	-671.68	669.85	502.54	4.00	
13230.00	8980.00	13446.88	8980.03	83.61	84.77	270.00	4505.19	-671.79	669.81	501.44	3.98	
13260.00	8980.00	13476.88	8980.03	84.14	85.30	270.00	4535.19	-671.89	669.78	500.34	3.95	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 11/1/2010 Time: 12:19:33 Page: 10
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Reference Well: Cotton Draw Unit #136H Vertical (TVD) Reference: SITE 3446.0
Reference Wellpath: 1 Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr 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				
13290.00	8980.00	13506.88	8980.03	84.67	85.84	270.00	4565.19	-671.99	669.73	499.24	3.93	
13320.00	8980.00	13536.88	8980.03	85.20	86.37	270.00	4595.18	-672.10	669.69	498.13	3.90	
13350.00	8980.00	13566.88	8980.04	85.74	86.90	270.00	4625.18	-672.20	669.65	497.02	3.88	
13380.00	8980.00	13596.88	8980.04	86.27	87.43	270.00	4655.18	-672.30	669.60	495.91	3.86	
13410.00	8980.00	13626.88	8980.04	86.80	87.97	270.00	4685.18	-672.41	669.56	494.80	3.83	
13440.00	8980.00	13656.88	8980.04	87.34	88.50	270.00	4715.18	-672.51	669.51	493.68	3.81	
13470.00	8980.00	13686.88	8980.04	87.87	89.03	270.00	4745.18	-672.62	669.46	492.57	3.78	
13500.00	8980.00	13716.88	8980.04	88.40	89.56	270.00	4775.18	-672.72	669.40	491.45	3.76	
13530.00	8980.00	13746.88	8980.04	88.94	90.10	270.00	4805.18	-672.82	669.35	490.33	3.74	
13560.00	8980.00	13776.88	8980.04	89.47	90.63	270.00	4835.18	-672.93	669.29	489.20	3.72	
13590.00	8980.00	13806.88	8980.04	90.00	91.17	270.00	4865.18	-673.03	669.24	488.08	3.69	
13620.00	8980.00	13836.88	8980.04	90.54	91.70	270.00	4895.18	-673.13	669.18	486.95	3.67	
13650.00	8980.00	13866.88	8980.04	91.07	92.23	270.00	4925.18	-673.24	669.12	485.82	3.65	
13680.00	8980.00	13896.88	8980.04	91.61	92.77	270.00	4955.18	-673.34	669.05	484.69	3.63	
13710.00	8980.00	13926.88	8980.04	92.14	93.30	270.00	4985.18	-673.44	668.99	483.55	3.61	
13740.00	8980.00	13956.88	8980.04	92.68	93.84	270.00	5015.18	-673.55	668.92	482.42	3.59	
13770.00	8980.00	13986.88	8980.04	93.21	94.37	270.00	5045.18	-673.65	668.85	481.28	3.57	
13800.00	8980.00	14016.88	8980.04	93.75	94.91	270.00	5075.18	-673.76	668.78	480.14	3.55	
13830.00	8980.00	14046.88	8980.04	94.28	95.44	270.00	5105.18	-673.86	668.71	479.00	3.52	
13860.00	8980.00	14076.88	8980.04	94.82	95.98	270.00	5135.18	-673.96	668.64	477.85	3.50	
13890.00	8980.00	14106.88	8980.04	95.35	96.51	270.00	5165.18	-674.07	668.56	476.71	3.48	
13920.00	8980.00	14136.88	8980.04	95.89	97.05	270.00	5195.18	-674.17	668.49	475.56	3.46	
13950.00	8980.00	14166.88	8980.04	96.42	97.58	270.00	5225.18	-674.27	668.41	474.41	3.45	
13980.00	8980.00	14196.88	8980.04	96.96	98.12	270.00	5255.18	-674.38	668.33	473.26	3.43	
14010.00	8980.00	14226.88	8980.04	97.50	98.66	270.00	5285.18	-674.48	668.25	472.10	3.41	
14040.00	8980.00	14256.88	8980.04	98.03	99.19	270.00	5315.18	-674.59	668.16	470.95	3.39	
14070.00	8980.00	14286.88	8980.04	98.57	99.73	270.00	5345.18	-674.69	668.08	469.79	3.37	
14100.00	8980.00	14316.88	8980.04	99.10	100.26	270.00	5375.18	-674.79	667.99	468.63	3.35	
14130.00	8980.00	14346.88	8980.04	99.64	100.80	270.00	5405.18	-674.90	667.90	467.47	3.33	
14160.00	8980.00	14376.88	8980.04	100.18	101.34	270.00	5435.18	-675.00	667.81	466.30	3.31	
14190.00	8980.00	14406.88	8980.04	100.72	101.87	270.00	5465.18	-675.10	667.72	465.14	3.30	
14220.00	8980.00	14436.88	8980.04	101.25	102.41	270.00	5495.18	-675.21	667.62	463.97	3.28	
14250.00	8980.00	14466.88	8980.04	101.79	102.95	270.00	5525.18	-675.31	667.53	462.80	3.26	
14280.00	8980.00	14496.88	8980.04	102.33	103.48	270.00	5555.18	-675.42	667.43	461.63	3.24	
14310.00	8980.00	14526.88	8980.04	102.86	104.02	270.00	5585.18	-675.52	667.33	460.45	3.23	
14340.00	8980.00	14556.88	8980.04	103.40	104.56	270.00	5615.18	-675.62	667.23	459.28	3.21	
14370.00	8980.00	14586.88	8980.04	103.94	105.10	270.00	5645.18	-675.73	667.13	458.10	3.19	
14400.00	8980.00	14616.88	8980.04	104.48	105.63	270.00	5675.17	-675.83	667.02	456.92	3.17	
14430.00	8980.00	14646.88	8980.04	105.02	106.17	270.00	5705.17	-675.93	666.91	455.74	3.16	
14460.00	8980.00	14676.87	8980.04	105.55	106.71	270.00	5735.17	-676.04	666.81	454.55	3.14	
14490.00	8980.00	14706.87	8980.05	106.09	107.25	270.00	5765.17	-676.14	666.70	453.37	3.13	
14520.00	8980.00	14736.87	8980.05	106.63	107.78	270.00	5795.17	-676.25	666.58	452.18	3.11	
14550.00	8980.00	14766.87	8980.05	107.17	108.32	270.00	5825.17	-676.35	666.47	450.99	3.09	
14580.00	8980.00	14796.87	8980.05	107.71	108.86	270.00	5855.17	-676.45	666.36	449.80	3.08	
14610.00	8980.00	14826.87	8980.05	108.25	109.40	270.00	5885.17	-676.56	666.24	448.60	3.06	
14640.00	8980.00	14856.87	8980.05	108.78	109.94	270.00	5915.17	-676.66	666.12	447.41	3.05	
14670.00	8980.00	14886.87	8980.05	109.32	110.48	270.00	5945.17	-676.76	666.00	446.21	3.03	
14700.00	8980.00	14916.87	8980.05	109.86	111.01	270.00	5975.17	-676.87	665.88	445.01	3.01	
14730.00	8980.00	14946.87	8980.05	110.40	111.55	270.00	6005.17	-676.97	665.75	443.81	3.00	
14760.00	8980.00	14976.87	8980.05	110.94	112.09	270.00	6035.17	-677.08	665.63	442.61	2.98	
14790.00	8980.00	15006.87	8980.05	111.48	112.63	270.00	6065.17	-677.18	665.50	441.40	2.97	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 11

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		North	East	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							
14820.00	8980.00	15036.87	8980.05	112.02	113.17	270.00	6095.17	-677.28		665.37	440.19	2.95	
14850.00	8980.00	15066.87	8980.05	112.56	113.71	270.00	6125.17	-677.39		665.24	438.98	2.94	
14880.00	8980.00	15096.87	8980.05	113.10	114.25	270.00	6155.17	-677.49		665.11	437.77	2.93	
14910.00	8980.00	15126.87	8980.05	113.64	114.79	270.00	6185.17	-677.59		664.98	436.56	2.91	
14940.00	8980.00	15156.87	8980.05	114.18	115.33	270.00	6215.17	-677.70		664.84	435.35	2.90	
14970.00	8980.00	15186.87	8980.05	114.72	115.86	270.00	6245.17	-677.80		664.70	434.13	2.88	
15000.00	8980.00	15216.87	8980.05	115.26	116.40	270.00	6275.17	-677.90		664.56	432.91	2.87	
15030.00	8980.00	15246.87	8980.05	115.80	116.94	270.00	6305.17	-678.01		664.42	431.69	2.85	
15060.00	8980.00	15276.87	8980.05	116.34	117.48	270.00	6335.17	-678.11		664.28	430.47	2.84	
15090.00	8980.00	15306.87	8980.05	116.88	118.02	270.00	6365.16	-678.22		664.13	429.24	2.83	
15120.00	8980.00	15336.87	8980.05	117.42	118.56	270.00	6395.16	-678.32		663.99	428.02	2.81	
15150.00	8980.00	15366.87	8980.05	117.96	119.10	270.00	6425.16	-678.42		663.84	426.79	2.80	
15180.00	8980.00	15396.87	8980.05	118.50	119.64	270.00	6455.16	-678.53		663.69	425.56	2.79	
15210.00	8980.00	15426.87	8980.05	119.04	120.18	270.00	6485.16	-678.63		663.54	424.33	2.77	
15240.00	8980.00	15456.87	8980.05	119.58	120.72	270.00	6515.16	-678.73		663.38	423.09	2.76	
15270.00	8980.00	15486.87	8980.05	120.12	121.26	270.00	6545.16	-678.84		663.23	421.86	2.75	
15300.00	8980.00	15516.87	8980.05	120.66	121.80	270.00	6575.16	-678.94		663.07	420.62	2.73	
15330.00	8980.00	15546.87	8980.05	121.20	122.34	270.00	6605.16	-679.05		662.91	419.38	2.72	
15360.00	8980.00	15576.87	8980.05	121.74	122.88	270.00	6635.16	-679.15		662.75	418.14	2.71	
15390.00	8980.00	15606.87	8980.05	122.28	123.42	270.00	6665.16	-679.25		662.59	416.90	2.70	
15420.00	8980.00	15636.86	8980.05	122.82	123.96	270.00	6695.16	-679.36		662.43	415.65	2.68	
15450.00	8980.00	15666.86	8980.05	123.36	124.50	270.00	6725.16	-679.46		662.26	414.40	2.67	
15480.00	8980.00	15696.86	8980.05	123.90	125.04	270.00	6755.16	-679.56		662.10	413.15	2.66	
15510.00	8980.00	15726.86	8980.05	124.45	125.58	270.00	6785.16	-679.67		661.93	411.90	2.65	
15540.00	8980.00	15756.86	8980.05	124.99	126.12	270.00	6815.16	-679.77		661.76	410.65	2.64	
15570.00	8980.00	15786.86	8980.05	125.53	126.67	270.00	6845.15	-679.88		661.58	409.40	2.62	
15600.00	8980.00	15816.86	8980.05	126.07	127.21	270.00	6875.15	-679.98		661.41	408.14	2.61	
15630.00	8980.00	15846.86	8980.06	126.61	127.75	270.00	6905.15	-680.08		661.23	406.88	2.60	
15660.00	8980.00	15876.86	8980.06	127.15	128.29	270.00	6935.15	-680.19		661.06	405.62	2.59	
15690.00	8980.00	15906.86	8980.06	127.69	128.83	270.00	6965.15	-680.29		660.88	404.36	2.58	
15720.00	8980.00	15936.86	8980.06	128.24	129.37	270.00	6995.15	-680.39		660.70	403.10	2.56	
15750.00	8980.00	15966.86	8980.06	128.78	129.91	270.00	7025.15	-680.50		660.51	401.83	2.55	
15780.00	8980.00	15996.86	8980.06	129.32	130.45	270.00	7055.15	-680.60		660.33	400.56	2.54	
15810.00	8980.00	16026.86	8980.06	129.86	130.99	270.00	7085.15	-680.71		660.14	399.29	2.53	
15840.00	8980.00	16056.86	8980.06	130.40	131.53	270.00	7115.15	-680.81		659.95	398.02	2.52	
15870.00	8980.00	16086.86	8980.06	130.94	132.08	270.00	7145.15	-680.91		659.76	396.75	2.51	
15900.00	8980.00	16116.86	8980.06	131.49	132.62	270.00	7175.15	-681.02		659.57	395.47	2.50	
15930.00	8980.00	16146.86	8980.06	132.03	133.16	269.99	7205.15	-681.12		659.38	394.20	2.49	
15960.00	8980.00	16176.86	8980.06	132.57	133.70	269.99	7235.15	-681.22		659.18	392.92	2.48	
15990.00	8980.00	16206.85	8980.06	133.11	134.24	269.99	7265.14	-681.33		658.99	391.64	2.46	
16020.00	8980.00	16236.85	8980.06	133.65	134.78	269.99	7295.14	-681.43		658.79	390.36	2.45	
16050.00	8980.00	16266.85	8980.06	134.20	135.33	269.99	7325.14	-681.54		658.59	389.07	2.44	
16080.00	8980.00	16296.85	8980.06	134.74	135.87	269.99	7355.14	-681.64		658.39	387.79	2.43	
16110.00	8980.00	16326.85	8980.06	135.28	136.41	269.99	7385.14	-681.74		658.18	386.50	2.42	
16140.00	8980.00	16356.85	8980.06	135.82	136.95	269.99	7415.14	-681.85		657.98	385.21	2.41	
16170.00	8980.00	16386.85	8980.06	136.37	137.49	269.99	7445.14	-681.95		657.77	383.92	2.40	
16200.00	8980.00	16416.85	8980.06	136.91	138.03	269.99	7475.14	-682.05		657.56	382.62	2.39	
16230.00	8980.00	16446.85	8980.06	137.45	138.58	269.99	7505.14	-682.16		657.35	381.33	2.38	
16260.00	8980.00	16476.85	8980.06	137.99	139.12	269.99	7535.14	-682.26		657.14	380.03	2.37	
16290.00	8980.00	16506.85	8980.06	138.54	139.66	269.99	7565.14	-682.36		656.92	378.73	2.36	
16320.00	8980.00	16536.85	8980.06	139.08	140.20	269.99	7595.13	-682.47		656.71	377.43	2.35	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 12

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS	Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset		North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
16350.00	8980.00	16566.85	8980.06	139.62	140.74	269.99	7625.13	-682.57	656.49	376.13	2.34	
16380.00	8980.00	16596.84	8980.06	140.17	141.29	269.99	7655.13	-682.68	656.27	374.82	2.33	
16410.00	8980.00	16626.84	8980.06	140.71	141.83	269.99	7685.13	-682.78	656.05	373.52	2.32	
16412.34	8980.00	16629.18	8980.06	140.75	141.87	269.99	7687.47	-682.79	656.03	373.42	2.32	

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS	Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset		North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	1.00	-1.00	0.00	0.00	90.37	-0.32	49.98	49.98	49.98	59298.43	
30.00	30.00	29.00	29.00	0.01	0.02	90.37	-0.32	49.98	49.98	49.95	1662.57	
60.00	60.00	59.00	59.00	0.04	0.05	90.37	-0.32	49.98	49.98	49.89	561.18	
90.00	90.00	89.00	89.00	0.07	0.08	90.37	-0.32	49.98	49.98	49.83	337.56	
120.00	120.00	119.00	119.00	0.13	0.13	90.37	-0.32	49.98	49.98	49.72	195.06	
150.00	150.00	149.00	149.00	0.20	0.19	90.37	-0.32	49.98	49.98	49.59	127.80	
180.00	180.00	179.00	179.00	0.26	0.26	90.37	-0.32	49.98	49.98	49.46	95.03	
210.00	210.00	209.00	209.00	0.33	0.33	90.37	-0.32	49.98	49.98	49.32	75.64	
240.00	240.00	239.00	239.00	0.40	0.40	90.37	-0.32	49.98	49.98	49.19	62.82	
270.00	270.00	269.00	269.00	0.47	0.46	90.37	-0.32	49.98	49.98	49.05	53.71	
300.00	300.00	299.00	299.00	0.53	0.53	90.37	-0.32	49.98	49.98	48.92	46.91	
330.00	330.00	329.00	329.00	0.60	0.60	90.37	-0.32	49.98	49.98	48.78	41.64	
360.00	360.00	359.00	359.00	0.67	0.67	90.37	-0.32	49.98	49.98	48.65	37.44	
390.00	390.00	389.00	389.00	0.74	0.73	90.37	-0.32	49.98	49.98	48.51	34.00	
420.00	420.00	419.00	419.00	0.80	0.80	90.37	-0.32	49.98	49.98	48.38	31.14	
450.00	450.00	449.00	449.00	0.87	0.87	90.37	-0.32	49.98	49.98	48.24	28.73	
480.00	480.00	479.00	479.00	0.94	0.94	90.37	-0.32	49.98	49.98	48.11	26.66	
510.00	510.00	509.00	509.00	1.01	1.00	90.37	-0.32	49.98	49.98	47.97	24.87	
540.00	540.00	539.00	539.00	1.07	1.07	90.37	-0.32	49.98	49.98	47.84	23.31	
570.00	570.00	569.00	569.00	1.14	1.14	90.37	-0.32	49.98	49.98	47.70	21.93	
600.00	600.00	599.00	599.00	1.21	1.21	90.37	-0.32	49.98	49.98	47.57	20.70	
630.00	630.00	629.00	629.00	1.28	1.27	90.37	-0.32	49.98	49.98	47.43	19.61	
660.00	660.00	659.00	659.00	1.34	1.34	90.37	-0.32	49.98	49.98	47.30	18.62	
690.00	690.00	689.00	689.00	1.41	1.41	90.37	-0.32	49.98	49.98	47.16	17.73	
720.00	720.00	719.00	719.00	1.48	1.48	90.37	-0.32	49.98	49.98	47.03	16.92	
750.00	750.00	749.00	749.00	1.55	1.54	90.37	-0.32	49.98	49.98	46.89	16.18	
780.00	780.00	779.00	779.00	1.61	1.61	90.37	-0.32	49.98	49.98	46.76	15.51	
810.00	810.00	809.00	809.00	1.68	1.68	90.37	-0.32	49.98	49.98	46.62	14.88	
840.00	840.00	839.00	839.00	1.75	1.75	90.37	-0.32	49.98	49.98	46.49	14.31	
870.00	870.00	869.00	869.00	1.81	1.81	90.37	-0.32	49.98	49.98	46.35	13.78	
900.00	900.00	899.00	899.00	1.88	1.88	90.37	-0.32	49.98	49.98	46.22	13.28	
930.00	930.00	929.00	929.00	1.95	1.95	90.37	-0.32	49.98	49.98	46.08	12.82	
960.00	960.00	959.00	959.00	2.02	2.02	90.37	-0.32	49.98	49.98	45.95	12.40	
990.00	990.00	989.00	989.00	2.08	2.08	90.37	-0.32	49.98	49.98	45.81	11.99	
1020.00	1020.00	1019.00	1019.00	2.15	2.15	90.37	-0.32	49.98	49.98	45.68	11.62	
1050.00	1050.00	1049.00	1049.00	2.22	2.22	90.37	-0.32	49.98	49.98	45.54	11.26	
1080.00	1080.00	1079.00	1079.00	2.29	2.28	90.37	-0.32	49.98	49.98	45.41	10.93	
1110.00	1110.00	1109.00	1109.00	2.35	2.35	90.37	-0.32	49.98	49.98	45.27	10.62	
1140.00	1140.00	1139.00	1139.00	2.42	2.42	90.37	-0.32	49.98	49.98	45.14	10.32	
1170.00	1170.00	1169.00	1169.00	2.49	2.49	90.37	-0.32	49.98	49.98	45.00	10.04	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 13

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr 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				
1200.00	1200.00	1199.00	1199.00	2.56	2.55	90.37	-0.32	49.98	49.98	44.87	9.78	
1230.00	1230.00	1229.00	1229.00	2.62	2.62	90.37	-0.32	49.98	49.98	44.73	9.53	
1260.00	1260.00	1259.00	1259.00	2.69	2.69	90.37	-0.32	49.98	49.98	44.60	9.29	
1290.00	1290.00	1289.00	1289.00	2.76	2.76	90.37	-0.32	49.98	49.98	44.47	9.06	
1320.00	1320.00	1319.00	1319.00	2.83	2.82	90.37	-0.32	49.98	49.98	44.33	8.85	
1350.00	1350.00	1349.00	1349.00	2.89	2.89	90.37	-0.32	49.98	49.98	44.20	8.64	
1380.00	1380.00	1379.00	1379.00	2.96	2.96	90.37	-0.32	49.98	49.98	44.06	8.44	
1410.00	1410.00	1409.00	1409.00	3.03	3.03	90.37	-0.32	49.98	49.98	43.93	8.25	
1440.00	1440.00	1439.00	1439.00	3.10	3.09	90.37	-0.32	49.98	49.98	43.79	8.07	
1470.00	1470.00	1469.00	1469.00	3.16	3.16	90.37	-0.32	49.98	49.98	43.66	7.90	
1500.00	1500.00	1499.00	1499.00	3.23	3.23	90.37	-0.32	49.98	49.98	43.52	7.74	
1530.00	1530.00	1529.00	1529.00	3.30	3.30	90.37	-0.32	49.98	49.98	43.39	7.58	
1560.00	1560.00	1559.00	1559.00	3.37	3.36	90.37	-0.32	49.98	49.98	43.25	7.43	
1590.00	1590.00	1589.00	1589.00	3.43	3.43	90.37	-0.32	49.98	49.98	43.12	7.28	
1620.00	1620.00	1619.00	1619.00	3.50	3.50	90.37	-0.32	49.98	49.98	42.98	7.14	
1650.00	1650.00	1649.00	1649.00	3.57	3.57	90.37	-0.32	49.98	49.98	42.85	7.01	
1680.00	1680.00	1679.00	1679.00	3.64	3.63	90.37	-0.32	49.98	49.98	42.71	6.88	
1710.00	1710.00	1709.00	1709.00	3.70	3.70	90.37	-0.32	49.98	49.98	42.58	6.75	
1740.00	1740.00	1739.00	1739.00	3.77	3.77	90.37	-0.32	49.98	49.98	42.44	6.63	
1770.00	1770.00	1769.00	1769.00	3.84	3.84	90.37	-0.32	49.98	49.98	42.31	6.51	
1800.00	1800.00	1799.00	1799.00	3.91	3.90	90.37	-0.32	49.98	49.98	42.17	6.40	
1830.00	1830.00	1829.00	1829.00	3.97	3.97	90.37	-0.32	49.98	49.98	42.04	6.29	
1860.00	1860.00	1859.00	1859.00	4.04	4.04	90.37	-0.32	49.98	49.98	41.90	6.19	
1890.00	1890.00	1889.00	1889.00	4.11	4.11	90.37	-0.32	49.98	49.98	41.77	6.09	
1920.00	1920.00	1919.00	1919.00	4.18	4.17	90.37	-0.32	49.98	49.98	41.63	5.99	
1950.00	1950.00	1949.00	1949.00	4.24	4.24	90.37	-0.32	49.98	49.98	41.50	5.89	
1980.00	1980.00	1979.00	1979.00	4.31	4.31	90.37	-0.32	49.98	49.98	41.36	5.80	
2010.00	2010.00	2009.00	2009.00	4.38	4.38	90.37	-0.32	49.98	49.98	41.23	5.71	
2040.00	2040.00	2039.00	2039.00	4.44	4.44	90.37	-0.32	49.98	49.98	41.09	5.62	
2070.00	2070.00	2069.00	2069.00	4.51	4.51	90.37	-0.32	49.98	49.98	40.96	5.54	
2100.00	2100.00	2099.00	2099.00	4.58	4.58	90.37	-0.32	49.98	49.98	40.82	5.46	
2130.00	2130.00	2129.00	2129.00	4.65	4.64	90.37	-0.32	49.98	49.98	40.69	5.38	
2160.00	2160.00	2159.00	2159.00	4.71	4.71	90.37	-0.32	49.98	49.98	40.55	5.30	
2190.00	2190.00	2189.00	2189.00	4.78	4.78	90.37	-0.32	49.98	49.98	40.42	5.23	
2220.00	2220.00	2219.00	2219.00	4.85	4.85	90.37	-0.32	49.98	49.98	40.28	5.15	
2250.00	2250.00	2249.00	2249.00	4.92	4.91	90.37	-0.32	49.98	49.98	40.15	5.08	
2280.00	2280.00	2279.00	2279.00	4.98	4.98	90.37	-0.32	49.98	49.98	40.01	5.02	
2310.00	2310.00	2309.00	2309.00	5.05	5.05	90.37	-0.32	49.98	49.98	39.88	4.95	
2340.00	2340.00	2339.00	2339.00	5.12	5.12	90.37	-0.32	49.98	49.98	39.75	4.88	
2370.00	2370.00	2369.00	2369.00	5.19	5.18	90.37	-0.32	49.98	49.98	39.61	4.82	
2400.00	2400.00	2399.00	2399.00	5.25	5.25	90.37	-0.32	49.98	49.98	39.48	4.76	
2430.00	2430.00	2429.00	2429.00	5.32	5.32	90.37	-0.32	49.98	49.98	39.34	4.70	
2460.00	2460.00	2459.00	2459.00	5.39	5.39	90.37	-0.32	49.98	49.98	39.21	4.64	
2490.00	2490.00	2489.00	2489.00	5.46	5.45	90.37	-0.32	49.98	49.98	39.07	4.58	
2520.00	2520.00	2519.00	2519.00	5.52	5.52	90.37	-0.32	49.98	49.98	38.94	4.53	
2550.00	2550.00	2549.00	2549.00	5.59	5.59	90.37	-0.32	49.98	49.98	38.80	4.47	
2580.00	2580.00	2579.00	2579.00	5.66	5.66	90.37	-0.32	49.98	49.98	38.67	4.42	
2610.00	2610.00	2609.00	2609.00	5.73	5.72	90.37	-0.32	49.98	49.98	38.53	4.37	
2640.00	2640.00	2639.00	2639.00	5.79	5.79	90.37	-0.32	49.98	49.98	38.40	4.31	
2670.00	2670.00	2669.00	2669.00	5.86	5.86	90.37	-0.32	49.98	49.98	38.26	4.26	
2700.00	2700.00	2699.00	2699.00	5.93	5.93	90.37	-0.32	49.98	49.98	38.13	4.22	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 11/1/2010 Time: 12:19:33 Page: 14
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Reference Well: Cotton Draw Unit #136H Vertical (TVD) Reference: SITE 3446.0
Reference Wellpath: 1 Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Semi-Major Axis Offset	TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
2730.00	2730.00	2729.00	2729.00	6.00	5.99	90.37	-0.32	49.98	49.98	37.99	4.17	
2760.00	2760.00	2759.00	2759.00	6.06	6.06	90.37	-0.32	49.98	49.98	37.86	4.12	
2790.00	2790.00	2789.00	2789.00	6.13	6.13	90.37	-0.32	49.98	49.98	37.72	4.08	
2820.00	2820.00	2819.00	2819.00	6.20	6.20	90.37	-0.32	49.98	49.98	37.59	4.03	
2850.00	2850.00	2849.00	2849.00	6.27	6.26	90.37	-0.32	49.98	49.98	37.45	3.99	
2880.00	2880.00	2879.00	2879.00	6.33	6.33	90.37	-0.32	49.98	49.98	37.32	3.95	
2910.00	2910.00	2909.00	2909.00	6.40	6.40	90.37	-0.32	49.98	49.98	37.18	3.91	
2940.00	2940.00	2939.00	2939.00	6.47	6.47	90.37	-0.32	49.98	49.98	37.05	3.86	
2970.00	2970.00	2969.00	2969.00	6.54	6.53	90.37	-0.32	49.98	49.98	36.91	3.82	
3000.00	3000.00	2999.00	2999.00	6.60	6.60	90.37	-0.32	49.98	49.98	36.78	3.79	
3030.00	3030.00	3029.00	3029.00	6.67	6.67	90.37	-0.32	49.98	49.98	36.64	3.75	
3060.00	3060.00	3059.00	3059.00	6.74	6.74	90.37	-0.32	49.98	49.98	36.51	3.71	
3090.00	3090.00	3089.00	3089.00	6.80	6.80	90.37	-0.32	49.98	49.98	36.37	3.67	
3120.00	3120.00	3119.00	3119.00	6.87	6.87	90.37	-0.32	49.98	49.98	36.24	3.64	
3150.00	3150.00	3149.00	3149.00	6.94	6.94	90.37	-0.32	49.98	49.98	36.10	3.60	
3180.00	3180.00	3179.00	3179.00	7.01	7.00	90.37	-0.32	49.98	49.98	35.97	3.57	
3210.00	3210.00	3209.00	3209.00	7.07	7.07	90.37	-0.32	49.98	49.98	35.83	3.53	
3240.00	3240.00	3239.00	3239.00	7.14	7.14	90.37	-0.32	49.98	49.98	35.70	3.50	
3270.00	3270.00	3269.00	3269.00	7.21	7.21	90.37	-0.32	49.98	49.98	35.56	3.47	
3300.00	3300.00	3299.00	3299.00	7.28	7.27	90.37	-0.32	49.98	49.98	35.43	3.43	
3330.00	3330.00	3329.00	3329.00	7.34	7.34	90.37	-0.32	49.98	49.98	35.29	3.40	
3360.00	3360.00	3359.00	3359.00	7.41	7.41	90.37	-0.32	49.98	49.98	35.16	3.37	
3390.00	3390.00	3389.00	3389.00	7.48	7.48	90.37	-0.32	49.98	49.98	35.03	3.34	
3420.00	3420.00	3419.00	3419.00	7.55	7.54	90.37	-0.32	49.98	49.98	34.89	3.31	
3450.00	3450.00	3449.00	3449.00	7.61	7.61	90.37	-0.32	49.98	49.98	34.76	3.28	
3480.00	3480.00	3479.00	3479.00	7.68	7.68	90.37	-0.32	49.98	49.98	34.62	3.25	
3510.00	3510.00	3509.00	3509.00	7.75	7.75	90.37	-0.32	49.98	49.98	34.49	3.23	
3540.00	3540.00	3539.00	3539.00	7.82	7.81	90.37	-0.32	49.98	49.98	34.35	3.20	
3570.00	3570.00	3569.00	3569.00	7.88	7.88	90.37	-0.32	49.98	49.98	34.22	3.17	
3600.00	3600.00	3599.00	3599.00	7.95	7.95	90.37	-0.32	49.98	49.98	34.08	3.14	
3630.00	3630.00	3629.00	3629.00	8.02	8.02	90.37	-0.32	49.98	49.98	33.95	3.12	
3660.00	3660.00	3659.00	3659.00	8.09	8.08	90.37	-0.32	49.98	49.98	33.81	3.09	
3690.00	3690.00	3689.00	3689.00	8.15	8.15	90.37	-0.32	49.98	49.98	33.68	3.07	
3720.00	3720.00	3719.00	3719.00	8.22	8.22	90.37	-0.32	49.98	49.98	33.54	3.04	
3750.00	3750.00	3749.00	3749.00	8.29	8.29	90.37	-0.32	49.98	49.98	33.41	3.02	
3780.00	3780.00	3779.00	3779.00	8.36	8.35	90.37	-0.32	49.98	49.98	33.27	2.99	
3810.00	3810.00	3809.00	3809.00	8.42	8.42	90.37	-0.32	49.98	49.98	33.14	2.97	
3840.00	3840.00	3839.00	3839.00	8.49	8.49	90.37	-0.32	49.98	49.98	33.00	2.94	
3870.00	3870.00	3869.00	3869.00	8.56	8.56	90.37	-0.32	49.98	49.98	32.87	2.92	
3900.00	3900.00	3899.00	3899.00	8.63	8.62	90.37	-0.32	49.98	49.98	32.73	2.90	
3930.00	3930.00	3929.00	3929.00	8.69	8.69	90.37	-0.32	49.98	49.98	32.60	2.88	
3960.00	3960.00	3959.00	3959.00	8.76	8.76	90.37	-0.32	49.98	49.98	32.46	2.85	
3990.00	3990.00	3989.00	3989.00	8.83	8.83	90.37	-0.32	49.98	49.98	32.33	2.83	
4020.00	4020.00	4019.00	4019.00	8.90	8.89	90.37	-0.32	49.98	49.98	32.19	2.81	
4050.00	4050.00	4049.00	4049.00	8.96	8.96	90.37	-0.32	49.98	49.98	32.06	2.79	
4080.00	4080.00	4079.00	4079.00	9.03	9.03	90.37	-0.32	49.98	49.98	31.92	2.77	
4110.00	4110.00	4109.00	4109.00	9.10	9.10	90.37	-0.32	49.98	49.98	31.79	2.75	
4140.00	4140.00	4139.00	4139.00	9.16	9.16	90.37	-0.32	49.98	49.98	31.65	2.73	
4170.00	4170.00	4169.00	4169.00	9.23	9.23	90.37	-0.32	49.98	49.98	31.52	2.71	
4200.00	4200.00	4199.00	4199.00	9.30	9.30	90.37	-0.32	49.98	49.98	31.38	2.69	
4230.00	4230.00	4229.00	4229.00	9.37	9.36	90.37	-0.32	49.98	49.98	31.25	2.67	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010 Time: 12:19:33 Page: 15

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr 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				
4260.00	4260.00	4259.00	4259.00	9.43	9.43	90.37	-0.32	49.98	49.98	31.11	2.65	
4290.00	4290.00	4289.00	4289.00	9.50	9.50	90.37	-0.32	49.98	49.98	30.98	2.63	
4320.00	4320.00	4319.00	4319.00	9.57	9.57	90.37	-0.32	49.98	49.98	30.84	2.61	
4350.00	4350.00	4349.00	4349.00	9.64	9.63	90.37	-0.32	49.98	49.98	30.71	2.59	
4380.00	4380.00	4379.00	4379.00	9.70	9.70	90.37	-0.32	49.98	49.98	30.57	2.58	
4410.00	4410.00	4409.00	4409.00	9.77	9.77	90.37	-0.32	49.98	49.98	30.44	2.56	
4440.00	4440.00	4439.00	4439.00	9.84	9.84	90.37	-0.32	49.98	49.98	30.31	2.54	
4470.00	4470.00	4469.00	4469.00	9.91	9.90	90.37	-0.32	49.98	49.98	30.17	2.52	
4500.00	4500.00	4499.00	4499.00	9.97	9.97	90.37	-0.32	49.98	49.98	30.04	2.51	
4530.00	4530.00	4529.00	4529.00	10.04	10.04	90.37	-0.32	49.98	49.98	29.90	2.49	
4560.00	4560.00	4559.00	4559.00	10.11	10.11	90.37	-0.32	49.98	49.98	29.77	2.47	
4590.00	4590.00	4589.00	4589.00	10.18	10.17	90.37	-0.32	49.98	49.98	29.63	2.46	
4620.00	4620.00	4619.00	4619.00	10.24	10.24	90.37	-0.32	49.98	49.98	29.50	2.44	
4650.00	4650.00	4649.00	4649.00	10.31	10.31	90.37	-0.32	49.98	49.98	29.36	2.42	
4680.00	4680.00	4679.00	4679.00	10.38	10.38	90.37	-0.32	49.98	49.98	29.23	2.41	
4710.00	4710.00	4709.00	4709.00	10.45	10.44	90.37	-0.32	49.98	49.98	29.09	2.39	
4740.00	4740.00	4739.00	4739.00	10.51	10.51	90.37	-0.32	49.98	49.98	28.96	2.38	
4770.00	4770.00	4769.00	4769.00	10.58	10.58	90.37	-0.32	49.98	49.98	28.82	2.36	
4800.00	4800.00	4799.00	4799.00	10.65	10.65	90.37	-0.32	49.98	49.98	28.69	2.35	
4830.00	4830.00	4829.00	4829.00	10.72	10.71	90.37	-0.32	49.98	49.98	28.55	2.33	
4860.00	4860.00	4859.00	4859.00	10.78	10.78	90.37	-0.32	49.98	49.98	28.42	2.32	
4890.00	4890.00	4889.00	4889.00	10.85	10.85	90.37	-0.32	49.98	49.98	28.28	2.30	
4920.00	4920.00	4919.00	4919.00	10.92	10.92	90.37	-0.32	49.98	49.98	28.15	2.29	
4950.00	4950.00	4949.00	4949.00	10.99	10.98	90.37	-0.32	49.98	49.98	28.01	2.28	
4980.00	4980.00	4979.00	4979.00	11.05	11.05	90.37	-0.32	49.98	49.98	27.88	2.26	
5010.00	5010.00	5009.00	5009.00	11.12	11.12	90.37	-0.32	49.98	49.98	27.74	2.25	
5040.00	5040.00	5039.00	5039.00	11.19	11.19	90.37	-0.32	49.98	49.98	27.61	2.23	
5070.00	5070.00	5069.00	5069.00	11.26	11.25	90.37	-0.32	49.98	49.98	27.47	2.22	
5100.00	5100.00	5099.00	5099.00	11.32	11.32	90.37	-0.32	49.98	49.98	27.34	2.21	
5130.00	5130.00	5129.00	5129.00	11.39	11.39	90.37	-0.32	49.98	49.98	27.20	2.19	
5160.00	5160.00	5159.00	5159.00	11.46	11.46	90.37	-0.32	49.98	49.98	27.07	2.18	
5190.00	5190.00	5189.00	5189.00	11.52	11.52	90.37	-0.32	49.98	49.98	26.93	2.17	
5220.00	5220.00	5219.00	5219.00	11.59	11.59	90.37	-0.32	49.98	49.98	26.80	2.16	
5250.00	5250.00	5249.00	5249.00	11.66	11.66	90.37	-0.32	49.98	49.98	26.66	2.14	
5280.00	5280.00	5279.00	5279.00	11.73	11.72	90.37	-0.32	49.98	49.98	26.53	2.13	
5310.00	5310.00	5309.00	5309.00	11.79	11.79	90.37	-0.32	49.98	49.98	26.39	2.12	
5340.00	5340.00	5339.00	5339.00	11.86	11.86	90.37	-0.32	49.98	49.98	26.26	2.11	
5370.00	5370.00	5369.00	5369.00	11.93	11.93	90.37	-0.32	49.98	49.98	26.12	2.10	
5400.00	5400.00	5399.00	5399.00	12.00	11.99	90.37	-0.32	49.98	49.98	25.99	2.08	
5430.00	5430.00	5429.00	5429.00	12.06	12.06	90.37	-0.32	49.98	49.98	25.85	2.07	
5460.00	5460.00	5459.00	5459.00	12.13	12.13	90.37	-0.32	49.98	49.98	25.72	2.06	
5490.00	5490.00	5489.00	5489.00	12.20	12.20	90.37	-0.32	49.98	49.98	25.58	2.05	
5520.00	5520.00	5519.00	5519.00	12.27	12.26	90.37	-0.32	49.98	49.98	25.45	2.04	
5550.00	5550.00	5549.00	5549.00	12.33	12.33	90.37	-0.32	49.98	49.98	25.32	2.03	
5580.00	5580.00	5579.00	5579.00	12.40	12.40	90.37	-0.32	49.98	49.98	25.18	2.02	
5610.00	5610.00	5609.00	5609.00	12.47	12.47	90.37	-0.32	49.98	49.98	25.05	2.00	
5640.00	5640.00	5639.00	5639.00	12.54	12.53	90.37	-0.32	49.98	49.98	24.91	1.99	
5670.00	5670.00	5669.00	5669.00	12.60	12.60	90.37	-0.32	49.98	49.98	24.78	1.98	
5700.00	5700.00	5699.00	5699.00	12.67	12.67	90.37	-0.32	49.98	49.98	24.64	1.97	
5730.00	5730.00	5729.00	5729.00	12.74	12.74	90.37	-0.32	49.98	49.98	24.51	1.96	
5760.00	5760.00	5759.00	5759.00	12.81	12.80	90.37	-0.32	49.98	49.98	24.37	1.95	



Weatherford International Ltd.

Anticollision Report

**Weatherford®**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

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Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS deg	Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft		North ft	East ft				
5790.00	5790.00	5789.00	5789.00	12.87	12.87	90.37	-0.32	49.98	49.98	24.24	1.94	
5820.00	5820.00	5819.00	5819.00	12.94	12.94	90.37	-0.32	49.98	49.98	24.10	1.93	
5850.00	5850.00	5849.00	5849.00	13.01	13.01	90.37	-0.32	49.98	49.98	23.97	1.92	
5880.00	5880.00	5879.00	5879.00	13.08	13.07	90.37	-0.32	49.98	49.98	23.83	1.91	
5910.00	5910.00	5909.00	5909.00	13.14	13.14	90.37	-0.32	49.98	49.98	23.70	1.90	
5940.00	5940.00	5939.00	5939.00	13.21	13.21	90.37	-0.32	49.98	49.98	23.56	1.89	
5970.00	5970.00	5969.00	5969.00	13.28	13.28	90.37	-0.32	49.98	49.98	23.43	1.88	
6000.00	6000.00	5999.00	5999.00	13.35	13.34	90.37	-0.32	49.98	49.98	23.29	1.87	
6030.00	6030.00	6029.00	6029.00	13.41	13.41	90.37	-0.32	49.98	49.98	23.16	1.86	
6060.00	6060.00	6059.00	6059.00	13.48	13.48	90.37	-0.32	49.98	49.98	23.02	1.85	
6090.00	6090.00	6089.00	6089.00	13.55	13.55	90.37	-0.32	49.98	49.98	22.89	1.84	
6120.00	6120.00	6119.00	6119.00	13.62	13.61	90.37	-0.32	49.98	49.98	22.75	1.84	
6150.00	6150.00	6149.00	6149.00	13.68	13.68	90.37	-0.32	49.98	49.98	22.62	1.83	
6180.00	6180.00	6179.00	6179.00	13.75	13.75	90.37	-0.32	49.98	49.98	22.48	1.82	
6210.00	6210.00	6209.00	6209.00	13.82	13.82	90.37	-0.32	49.98	49.98	22.35	1.81	
6240.00	6240.00	6239.00	6239.00	13.88	13.88	90.37	-0.32	49.98	49.98	22.21	1.80	
6270.00	6270.00	6269.00	6269.00	13.95	13.95	90.37	-0.32	49.98	49.98	22.08	1.79	
6300.00	6300.00	6299.00	6299.00	14.02	14.02	90.37	-0.32	49.98	49.98	21.94	1.78	
6330.00	6330.00	6329.00	6329.00	14.09	14.08	90.37	-0.32	49.98	49.98	21.81	1.77	
6360.00	6360.00	6359.00	6359.00	14.15	14.15	90.37	-0.32	49.98	49.98	21.67	1.77	
6390.00	6390.00	6389.00	6389.00	14.22	14.22	90.37	-0.32	49.98	49.98	21.54	1.76	
6420.00	6420.00	6419.00	6419.00	14.29	14.29	90.37	-0.32	49.98	49.98	21.40	1.75	
6450.00	6450.00	6449.00	6449.00	14.36	14.35	90.37	-0.32	49.98	49.98	21.27	1.74	
6480.00	6480.00	6479.00	6479.00	14.42	14.42	90.37	-0.32	49.98	49.98	21.13	1.73	
6510.00	6510.00	6509.00	6509.00	14.49	14.49	90.37	-0.32	49.98	49.98	21.00	1.72	
6540.00	6540.00	6539.00	6539.00	14.56	14.56	90.37	-0.32	49.98	49.98	20.86	1.72	
6570.00	6570.00	6569.00	6569.00	14.63	14.62	90.37	-0.32	49.98	49.98	20.73	1.71	
6600.00	6600.00	6599.00	6599.00	14.69	14.69	90.37	-0.32	49.98	49.98	20.60	1.70	
6630.00	6630.00	6629.00	6629.00	14.76	14.76	90.37	-0.32	49.98	49.98	20.46	1.69	
6660.00	6660.00	6659.00	6659.00	14.83	14.83	90.37	-0.32	49.98	49.98	20.33	1.69	
6690.00	6690.00	6689.00	6689.00	14.90	14.89	90.37	-0.32	49.98	49.98	20.19	1.68	
6720.00	6720.00	6719.00	6719.00	14.96	14.96	90.37	-0.32	49.98	49.98	20.06	1.67	
6750.00	6750.00	6749.00	6749.00	15.03	15.03	90.37	-0.32	49.98	49.98	19.92	1.66	
6780.00	6780.00	6779.00	6779.00	15.10	15.10	90.37	-0.32	49.98	49.98	19.79	1.66	
6810.00	6810.00	6809.00	6809.00	15.17	15.16	90.37	-0.32	49.98	49.98	19.65	1.65	
6840.00	6840.00	6839.00	6839.00	15.23	15.23	90.37	-0.32	49.98	49.98	19.52	1.64	
6870.00	6870.00	6869.00	6869.00	15.30	15.30	90.37	-0.32	49.98	49.98	19.38	1.63	
6900.00	6900.00	6899.00	6899.00	15.37	15.37	90.37	-0.32	49.98	49.98	19.25	1.63	
6930.00	6930.00	6929.00	6929.00	15.44	15.43	90.37	-0.32	49.98	49.98	19.11	1.62	
6960.00	6960.00	6959.00	6959.00	15.50	15.50	90.37	-0.32	49.98	49.98	18.98	1.61	
6990.00	6990.00	6989.00	6989.00	15.57	15.57	90.37	-0.32	49.98	49.98	18.84	1.61	
7020.00	7020.00	7019.00	7019.00	15.64	15.64	90.37	-0.32	49.98	49.98	18.71	1.60	
7050.00	7050.00	7049.00	7049.00	15.71	15.70	90.37	-0.32	49.98	49.98	18.57	1.59	
7080.00	7080.00	7079.00	7079.00	15.77	15.77	90.37	-0.32	49.98	49.98	18.44	1.58	
7110.00	7110.00	7109.00	7109.00	15.84	15.84	90.37	-0.32	49.98	49.98	18.30	1.58	
7140.00	7140.00	7139.00	7139.00	15.91	15.91	90.37	-0.32	49.98	49.98	18.17	1.57	
7170.00	7170.00	7169.00	7169.00	15.98	15.97	90.37	-0.32	49.98	49.98	18.03	1.56	
7200.00	7200.00	7199.00	7199.00	16.04	16.04	90.37	-0.32	49.98	49.98	17.90	1.56	
7230.00	7230.00	7229.00	7229.00	16.11	16.11	90.37	-0.32	49.98	49.98	17.76	1.55	
7260.00	7260.00	7259.00	7259.00	16.18	16.18	90.37	-0.32	49.98	49.98	17.63	1.54	
7290.00	7290.00	7289.00	7289.00	16.24	16.24	90.37	-0.32	49.98	49.98	17.49	1.54	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010 Time: 12:19:33 Page: 17

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr 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				
7320.00	7320.00	7319.00	7319.00	16.31	16.31	90.37	-0.32	49.98	49.98	17.36	1.53	
7350.00	7350.00	7349.00	7349.00	16.38	16.38	90.37	-0.32	49.98	49.98	17.22	1.53	
7380.00	7380.00	7379.00	7379.00	16.45	16.45	90.37	-0.32	49.98	49.98	17.09	1.52	
7410.00	7410.00	7409.00	7409.00	16.51	16.51	90.37	-0.32	49.98	49.98	16.95	1.51	
7440.00	7440.00	7439.00	7439.00	16.58	16.58	90.37	-0.32	49.98	49.98	16.82	1.51	
7470.00	7470.00	7469.00	7469.00	16.65	16.65	90.37	-0.32	49.98	49.98	16.68	1.50	
7500.00	7500.00	7499.00	7499.00	16.72	16.71	90.37	-0.32	49.98	49.98	16.55	1.50	Level 3
7530.00	7530.00	7529.00	7529.00	16.78	16.78	90.37	-0.32	49.98	49.98	16.41	1.49	Level 3
7560.00	7560.00	7559.00	7559.00	16.85	16.85	90.37	-0.32	49.98	49.98	16.28	1.48	Level 3
7590.00	7590.00	7589.00	7589.00	16.92	16.92	90.37	-0.32	49.98	49.98	16.14	1.48	Level 3
7620.00	7620.00	7619.00	7619.00	16.99	16.98	90.37	-0.32	49.98	49.98	16.01	1.47	Level 3
7650.00	7650.00	7649.00	7649.00	17.05	17.05	90.37	-0.32	49.98	49.98	15.88	1.47	Level 3
7680.00	7680.00	7679.00	7679.00	17.12	17.12	90.37	-0.32	49.98	49.98	15.74	1.46	Level 3
7710.00	7710.00	7709.00	7709.00	17.19	17.19	90.37	-0.32	49.98	49.98	15.61	1.45	Level 3
7740.00	7740.00	7739.00	7739.00	17.26	17.25	90.37	-0.32	49.98	49.98	15.47	1.45	Level 3
7770.00	7770.00	7769.00	7769.00	17.32	17.32	90.37	-0.32	49.98	49.98	15.34	1.44	Level 3
7800.00	7800.00	7799.00	7799.00	17.39	17.39	90.37	-0.32	49.98	49.98	15.20	1.44	Level 3
7830.00	7830.00	7829.00	7829.00	17.46	17.46	90.37	-0.32	49.98	49.98	15.07	1.43	Level 3
7860.00	7860.00	7859.00	7859.00	17.53	17.52	90.37	-0.32	49.98	49.98	14.93	1.43	Level 3
7890.00	7890.00	7889.00	7889.00	17.59	17.59	90.37	-0.32	49.98	49.98	14.80	1.42	Level 3
7920.00	7920.00	7919.00	7919.00	17.66	17.66	90.37	-0.32	49.98	49.98	14.66	1.42	Level 3
7950.00	7950.00	7949.00	7949.00	17.73	17.73	90.37	-0.32	49.98	49.98	14.53	1.41	Level 3
7980.00	7980.00	7979.00	7979.00	17.80	17.79	90.37	-0.32	49.98	49.98	14.39	1.40	Level 3
8010.00	8010.00	8008.40	8008.40	17.86	17.86	90.38	-0.33	50.03	50.03	14.32	1.40	Level 3
8040.00	8040.00	8036.23	8036.21	17.93	17.92	90.62	-0.56	50.95	51.03	15.21	1.42	Level 3
8070.00	8070.00	8063.93	8063.83	18.00	17.97	91.15	-1.06	53.04	53.31	17.41	1.48	Level 3
8100.00	8100.00	8091.39	8091.08	18.07	18.03	91.87	-1.84	56.27	56.85	20.90	1.58	
8130.00	8130.00	8118.51	8117.84	18.13	18.08	92.72	-2.88	60.57	61.66	25.67	1.71	
8160.00	8160.00	8145.21	8143.97	18.20	18.13	93.62	-4.17	65.88	67.71	31.71	1.88	
8190.00	8190.00	8171.40	8169.35	18.27	18.19	94.50	-5.68	72.13	74.97	38.99	2.08	
8220.00	8220.00	8197.01	8193.90	18.34	18.24	95.33	-7.39	79.21	83.42	47.46	2.32	
8250.00	8250.00	8221.98	8217.54	18.40	18.29	96.09	-9.29	87.03	93.01	57.10	2.59	
8280.00	8280.00	8246.26	8240.20	18.47	18.35	96.77	-11.33	95.49	103.70	67.85	2.89	
8310.00	8310.00	8269.81	8261.85	18.54	18.40	97.37	-13.51	104.50	115.44	79.67	3.23	
8340.00	8340.00	8292.60	8282.46	18.61	18.46	97.89	-15.80	113.95	128.18	92.50	3.59	
8370.00	8370.00	8314.61	8302.03	18.67	18.52	98.35	-18.17	123.76	141.89	106.29	3.99	
8400.00	8400.00	8335.80	8320.52	18.74	18.57	97.63	-20.61	133.81	156.53	121.03	4.41	
8430.00	8429.94	8356.03	8337.84	18.81	18.63	96.76	-23.06	143.96	172.20	136.80	4.86	
8460.00	8459.76	8375.23	8353.97	18.87	18.69	96.00	-25.51	154.09	188.86	153.57	5.35	
8490.00	8489.39	8393.38	8368.92	18.94	18.75	95.26	-27.93	164.08	206.47	171.28	5.87	
8520.00	8518.73	8410.45	8382.71	19.00	18.81	94.47	-30.30	173.87	224.97	189.87	6.41	
8550.00	8547.74	8426.45	8395.38	19.06	18.87	93.57	-32.59	183.35	244.33	209.32	6.98	
8580.00	8576.32	8441.38	8406.98	19.13	18.92	92.53	-34.80	192.49	264.48	229.54	7.57	
8610.00	8604.41	8459.68	8420.98	19.19	19.00	91.79	-37.49	203.98	285.31	250.30	8.15	
8640.00	8631.94	8482.65	8438.57	19.26	19.09	91.43	-40.17	218.49	306.30	271.06	8.69	
8670.00	8658.84	8506.15	8456.65	19.33	19.19	90.99	-42.07	233.39	327.31	291.83	9.23	
8700.00	8685.05	8530.29	8475.26	19.40	19.29	90.49	-43.12	248.73	348.32	312.58	9.75	
8730.00	8710.49	8555.18	8494.47	19.47	19.39	89.96	-43.24	264.56	369.28	333.25	10.25	
8760.00	8735.10	8580.95	8514.34	19.55	19.50	89.43	-42.34	280.93	390.15	353.82	10.74	
8790.00	8758.83	8607.75	8534.96	19.63	19.61	88.91	-40.30	297.91	410.88	374.23	11.21	
8820.00	8781.61	8635.74	8556.42	19.72	19.73	88.43	-36.97	315.57	431.43	394.43	11.66	



Weatherford International Ltd.

Anticollision Report

**Weatherford®**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010 Time: 12:19:33 Page: 18
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
8850.00	8803.39	8665.12	8578.80	19.81	19.84	87.98	-32.16	334.00	451.74	414.39	12.09	
8880.00	8824.11	8696.13	8602.21	19.91	19.96	87.61	-25.65	353.26	471.76	434.02	12.50	
8910.00	8843.72	8729.04	8626.76	20.02	20.09	87.31	-17.13	373.44	491.43	453.29	12.88	
8940.00	8862.17	8764.15	8652.54	20.14	20.21	87.09	-6.24	394.63	510.67	472.10	13.24	
8970.00	8879.41	8801.82	8679.65	20.27	20.34	86.98	7.47	416.91	529.41	490.38	13.57	
9000.00	8895.41	8842.47	8708.14	20.40	20.48	86.97	24.56	440.31	547.54	508.04	13.86	
9030.00	8910.12	8886.57	8738.04	20.56	20.62	87.07	45.72	464.85	564.95	524.95	14.12	
9060.00	8923.50	8934.63	8769.26	20.71	20.77	87.28	71.77	490.45	581.51	540.99	14.35	
9090.00	8935.52	8987.21	8801.58	20.88	20.93	87.59	103.67	516.94	597.07	556.01	14.54	
9120.00	8946.16	9044.86	8834.55	21.06	21.11	87.98	142.47	543.93	611.45	569.83	14.69	
9150.00	8955.38	9108.05	8867.43	21.25	21.30	88.43	189.23	570.80	624.42	582.24	14.80	
9180.00	8963.16	9177.10	8899.08	21.46	21.51	88.91	244.85	596.63	635.76	593.01	14.87	
9210.00	8969.49	9252.02	8927.96	21.67	21.74	89.36	309.82	620.13	645.21	601.90	14.90	
9240.00	8974.34	9332.35	8952.16	21.89	21.98	89.74	383.81	639.73	652.51	608.67	14.88	
9270.00	8977.71	9417.08	8969.70	22.12	22.25	90.00	465.44	653.80	657.44	613.07	14.82	
9300.00	8979.58	9504.60	8978.88	22.36	22.53	90.10	552.11	660.97	659.82	614.95	14.70	
9330.00	8980.00	9563.05	8980.00	22.61	22.80	90.09	610.53	661.63	659.92	614.54	14.54	
9360.00	8980.00	9593.05	8980.00	22.87	23.05	90.09	640.53	661.49	659.70	613.81	14.38	
9390.00	8980.00	9623.05	8980.00	23.12	23.31	90.09	670.53	661.36	659.48	613.08	14.21	
9420.00	8980.00	9653.05	8980.00	23.39	23.57	90.09	700.53	661.22	659.26	612.33	14.05	
9450.00	8980.00	9683.05	8980.00	23.67	23.84	90.09	730.53	661.08	659.04	611.57	13.88	
9480.00	8980.00	9713.05	8980.00	23.95	24.11	90.09	760.53	660.94	658.83	610.80	13.72	
9510.00	8980.00	9743.05	8980.00	24.24	24.41	90.09	790.53	660.81	658.62	610.01	13.55	
9540.00	8980.00	9773.05	8980.00	24.55	24.70	90.09	820.52	660.67	658.41	609.20	13.38	
9570.00	8980.00	9803.05	8980.00	24.86	25.00	90.09	850.52	660.53	658.20	608.38	13.21	
9600.00	8980.00	9833.05	8980.00	25.17	25.32	90.09	880.52	660.39	657.99	607.55	13.04	
9630.00	8980.00	9863.05	8980.00	25.50	25.64	90.09	910.52	660.26	657.78	606.69	12.87	
9660.00	8980.00	9893.05	8980.00	25.84	25.96	90.09	940.52	660.12	657.58	605.83	12.71	
9690.00	8980.00	9923.05	8980.00	26.17	26.30	90.09	970.52	659.98	657.38	604.95	12.54	
9720.00	8980.00	9953.05	8980.00	26.52	26.64	90.09	1000.52	659.84	657.18	604.06	12.37	
9750.00	8980.00	9983.04	8980.00	26.88	26.99	90.09	1030.52	659.71	656.98	603.15	12.21	
9780.00	8980.00	10013.04	8980.00	27.23	27.34	90.09	1060.52	659.57	656.78	602.25	12.04	
9810.00	8980.00	10043.04	8980.00	27.60	27.71	90.09	1090.52	659.43	656.59	601.32	11.88	
9840.00	8980.00	10073.04	8980.00	27.98	28.07	90.09	1120.51	659.30	656.40	600.38	11.72	
9870.00	8980.00	10103.04	8980.00	28.35	28.44	90.09	1150.51	659.16	656.20	599.45	11.56	
9900.00	8980.00	10133.04	8980.00	28.73	28.83	90.09	1180.51	659.02	656.01	598.50	11.41	
9930.00	8980.00	10163.04	8980.00	29.13	29.21	90.09	1210.51	658.88	655.83	597.53	11.25	
9960.00	8980.00	10193.04	8980.00	29.52	29.60	90.09	1240.51	658.75	655.64	596.56	11.10	
9990.00	8980.00	10223.04	8980.00	29.92	29.99	90.09	1270.51	658.61	655.46	595.58	10.95	
10020.00	8980.00	10253.04	8980.00	30.32	30.40	90.09	1300.51	658.47	655.27	594.60	10.80	
10050.00	8980.00	10283.04	8980.00	30.73	30.80	90.09	1330.51	658.33	655.09	593.60	10.65	
10080.00	8980.00	10313.04	8980.00	31.14	31.20	90.09	1360.51	658.20	654.91	592.61	10.51	
10110.00	8980.00	10343.04	8980.00	31.56	31.62	90.09	1390.51	658.06	654.74	591.60	10.37	
10140.00	8980.00	10373.04	8980.00	31.98	32.04	90.09	1420.51	657.92	654.56	590.58	10.23	
10170.00	8980.00	10403.04	8980.00	32.40	32.45	90.09	1450.51	657.79	654.39	589.57	10.10	
10200.00	8980.00	10433.04	8980.00	32.83	32.88	90.09	1480.50	657.65	654.21	588.54	9.96	
10230.00	8980.00	10463.04	8980.00	33.26	33.31	90.09	1510.50	657.51	654.04	587.51	9.83	
10260.00	8980.00	10493.04	8980.00	33.70	33.74	90.09	1540.50	657.37	653.87	586.48	9.70	
10290.00	8980.00	10523.03	8980.00	34.13	34.17	90.09	1570.50	657.24	653.71	585.44	9.58	
10320.00	8980.00	10553.03	8980.00	34.57	34.61	90.09	1600.50	657.10	653.54	584.39	9.45	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 19

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS deg	Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	North ft	East ft					
10350.00	8980.00	10583.03	8980.00	35.02	35.05	90.09	1630.50	656.96	653.38	583.34	9.33	
10380.00	8980.00	10613.03	8980.00	35.47	35.49	90.09	1660.50	656.82	653.22	582.29	9.21	
10410.00	8980.00	10643.03	8980.00	35.91	35.94	90.09	1690.50	656.69	653.06	581.23	9.09	
10440.00	8980.00	10673.03	8980.00	36.37	36.39	90.09	1720.50	656.55	652.90	580.17	8.98	
10470.00	8980.00	10703.03	8980.00	36.82	36.84	90.09	1750.50	656.41	652.74	579.11	8.86	
10500.00	8980.00	10733.03	8980.00	37.28	37.30	90.09	1780.50	656.28	652.59	578.04	8.75	
10530.00	8980.00	10763.03	8980.00	37.74	37.76	90.09	1810.50	656.14	652.43	576.97	8.65	
10560.00	8980.00	10793.03	8980.00	38.20	38.21	90.09	1840.50	656.00	652.28	575.90	8.54	
10590.00	8980.00	10823.03	8980.00	38.67	38.68	90.09	1870.49	655.86	652.13	574.82	8.44	
10620.00	8980.00	10853.03	8980.00	39.13	39.14	90.09	1900.49	655.73	651.98	573.74	8.33	
10650.00	8980.00	10883.03	8980.00	39.60	39.61	90.09	1930.49	655.59	651.84	572.66	8.23	
10680.00	8980.00	10913.03	8980.00	40.07	40.08	90.09	1960.49	655.45	651.69	571.57	8.13	
10710.00	8980.00	10943.03	8980.00	40.55	40.55	90.09	1990.49	655.31	651.55	570.49	8.04	
10740.00	8980.00	10973.03	8980.00	41.02	41.02	90.09	2020.49	655.18	651.41	569.40	7.94	
10770.00	8980.00	11003.03	8980.00	41.50	41.49	90.09	2050.49	655.04	651.27	568.31	7.85	
10800.00	8980.00	11033.03	8980.00	41.97	41.97	90.09	2080.49	654.90	651.13	567.22	7.76	
10830.00	8980.00	11063.03	8980.00	42.46	42.45	90.09	2110.49	654.76	651.00	566.12	7.67	
10860.00	8980.00	11093.03	8980.00	42.94	42.93	90.09	2140.49	654.63	650.86	565.03	7.58	
10890.00	8980.00	11123.03	8980.00	43.42	43.41	90.09	2170.49	654.49	650.73	563.93	7.50	
10920.00	8980.00	11153.03	8980.00	43.90	43.89	90.09	2200.49	654.35	650.60	562.83	7.41	
10950.00	8980.00	11183.03	8980.00	44.39	44.37	90.09	2230.49	654.22	650.47	561.73	7.33	
10980.00	8980.00	11213.03	8980.00	44.88	44.86	90.09	2260.49	654.08	650.34	560.63	7.25	
11010.00	8980.00	11243.03	8980.00	45.37	45.35	90.09	2290.49	653.94	650.22	559.53	7.17	
11040.00	8980.00	11273.03	8980.00	45.86	45.84	90.09	2320.49	653.80	650.09	558.43	7.09	
11070.00	8980.00	11303.03	8980.00	46.35	46.32	90.09	2350.48	653.67	649.97	557.33	7.02	
11100.00	8980.00	11333.03	8980.00	46.84	46.82	90.09	2380.48	653.53	649.85	556.22	6.94	
11130.00	8980.00	11363.03	8980.00	47.33	47.31	90.09	2410.48	653.39	649.73	555.12	6.87	
11160.00	8980.00	11393.03	8980.00	47.83	47.80	90.09	2440.48	653.25	649.62	554.01	6.79	
11190.00	8980.00	11423.02	8980.00	48.33	48.30	90.09	2470.48	653.12	649.50	552.91	6.72	
11220.00	8980.00	11453.02	8980.00	48.82	48.79	90.09	2500.48	652.98	649.39	551.80	6.65	
11250.00	8980.00	11483.02	8980.00	49.32	49.29	90.09	2530.48	652.84	649.28	550.69	6.59	
11280.00	8980.00	11513.02	8980.00	49.82	49.79	90.09	2560.48	652.71	649.17	549.59	6.52	
11310.00	8980.00	11543.02	8980.00	50.32	50.29	90.09	2590.48	652.57	649.06	548.48	6.45	
11340.00	8980.00	11573.02	8980.00	50.82	50.79	90.09	2620.48	652.43	648.95	547.37	6.39	
11370.00	8980.00	11603.02	8980.00	51.33	51.29	90.09	2650.48	652.29	648.85	546.26	6.32	
11400.00	8980.00	11633.02	8980.00	51.83	51.79	90.09	2680.48	652.16	648.75	545.15	6.26	
11430.00	8980.00	11663.02	8980.00	52.33	52.29	90.09	2710.48	652.02	648.64	544.04	6.20	
11460.00	8980.00	11693.02	8980.00	52.84	52.80	90.09	2740.48	651.88	648.55	542.94	6.14	
11490.00	8980.00	11723.02	8980.00	53.34	53.30	90.09	2770.48	651.74	648.45	541.83	6.08	
11520.00	8980.00	11753.02	8980.00	53.85	53.81	90.09	2800.48	651.61	648.35	540.72	6.02	
11550.00	8980.00	11783.02	8980.00	54.36	54.31	90.09	2830.48	651.47	648.26	539.61	5.97	
11580.00	8980.00	11813.02	8980.00	54.87	54.82	90.09	2860.48	651.33	648.17	538.50	5.91	
11610.00	8980.00	11843.02	8980.00	55.38	55.33	90.09	2890.48	651.20	648.08	537.39	5.86	
11640.00	8980.00	11873.02	8980.00	55.89	55.84	90.09	2920.48	651.06	647.99	536.29	5.80	
11670.00	8980.00	11903.02	8980.00	56.40	56.34	90.09	2950.48	650.92	647.90	535.18	5.75	
11700.00	8980.00	11933.02	8980.00	56.91	56.86	90.09	2980.47	650.78	647.81	534.07	5.70	
11730.00	8980.00	11963.02	8980.00	57.42	57.37	90.09	3010.47	650.65	647.73	532.97	5.64	
11760.00	8980.00	11993.02	8980.00	57.93	57.88	90.09	3040.47	650.51	647.65	531.86	5.59	
11790.00	8980.00	12023.02	8980.00	58.45	58.39	90.09	3070.47	650.37	647.57	530.75	5.54	
11820.00	8980.00	12053.02	8980.00	58.96	58.90	90.09	3100.47	650.23	647.49	529.65	5.49	
11850.00	8980.00	12083.02	8980.00	59.47	59.42	90.09	3130.47	650.10	647.41	528.54	5.45	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

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Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS deg	Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	North ft	East ft					
11880.00	8980.00	12113.02	8980.00	59.99	59.93	90.09	3160.47	649.96	647.34	527.44	5.40	
11910.00	8980.00	12143.02	8980.00	60.51	60.45	90.09	3190.47	649.82	647.26	526.34	5.35	
11940.00	8980.00	12173.02	8980.00	61.02	60.96	90.09	3220.47	649.68	647.19	525.23	5.31	
11970.00	8980.00	12203.02	8980.00	61.54	61.48	90.09	3250.47	649.55	647.12	524.13	5.26	
12000.00	8980.00	12233.02	8980.00	62.06	61.99	90.09	3280.47	649.41	647.06	523.03	5.22	
12030.00	8980.00	12263.02	8980.00	62.57	62.51	90.09	3310.47	649.27	646.99	521.93	5.17	
12060.00	8980.00	12293.02	8980.00	63.09	63.03	90.09	3340.47	649.14	646.92	520.83	5.13	
12090.00	8980.00	12323.02	8980.00	63.61	63.55	90.09	3370.47	649.00	646.86	519.73	5.09	
12120.00	8980.00	12353.02	8980.00	64.13	64.06	90.09	3400.47	648.86	646.80	518.63	5.05	
12150.00	8980.00	12383.02	8980.00	64.65	64.58	90.09	3430.47	648.72	646.74	517.53	5.01	
12180.00	8980.00	12413.02	8980.00	65.17	65.10	90.09	3460.47	648.59	646.68	516.43	4.96	
12210.00	8980.00	12443.02	8980.00	65.69	65.62	90.09	3490.47	648.45	646.63	515.33	4.93	
12240.00	8980.00	12473.02	8980.00	66.21	66.14	90.09	3520.47	648.31	646.57	514.24	4.89	
12270.00	8980.00	12503.02	8980.00	66.73	66.66	90.09	3550.47	648.17	646.52	513.14	4.85	
12300.00	8980.00	12533.02	8980.00	67.26	67.19	90.09	3580.47	648.04	646.47	512.05	4.81	
12330.00	8980.00	12563.02	8980.00	67.78	67.71	90.09	3610.47	647.90	646.42	510.96	4.77	
12360.00	8980.00	12593.02	8980.00	68.30	68.23	90.09	3640.47	647.76	646.37	509.86	4.73	
12390.00	8980.00	12623.02	8980.00	68.82	68.75	90.09	3670.47	647.63	646.33	508.77	4.70	
12420.00	8980.00	12653.02	8980.00	69.35	69.27	90.09	3700.47	647.49	646.29	507.68	4.66	
12450.00	8980.00	12683.02	8980.00	69.87	69.80	90.09	3730.47	647.35	646.24	506.59	4.63	
12480.00	8980.00	12713.02	8980.00	70.40	70.32	90.09	3760.46	647.21	646.20	505.50	4.59	
12510.00	8980.00	12743.02	8980.00	70.92	70.85	90.09	3790.46	647.08	646.17	504.42	4.56	
12540.00	8980.00	12773.02	8980.00	71.45	71.37	90.09	3820.46	646.94	646.13	503.33	4.52	
12570.00	8980.00	12803.02	8980.00	71.97	71.89	90.09	3850.46	646.80	646.09	502.24	4.49	
12600.00	8980.00	12833.02	8980.00	72.50	72.42	90.09	3880.46	646.66	646.06	501.16	4.46	
12630.00	8980.00	12863.02	8980.00	73.02	72.95	90.09	3910.46	646.53	646.03	500.08	4.43	
12660.00	8980.00	12893.02	8980.00	73.55	73.47	90.09	3940.46	646.39	646.00	498.99	4.39	
12690.00	8980.00	12923.02	8980.00	74.08	74.00	90.09	3970.46	646.25	645.97	497.91	4.36	
12720.00	8980.00	12953.02	8980.00	74.61	74.52	90.09	4000.46	646.12	645.94	496.83	4.33	
12750.00	8980.00	12983.02	8980.00	75.13	75.05	90.09	4030.46	645.98	645.92	495.75	4.30	
12780.00	8980.00	13013.02	8980.00	75.66	75.58	90.09	4060.46	645.84	645.90	494.68	4.27	
12810.00	8980.00	13043.02	8980.00	76.19	76.10	90.09	4090.46	645.70	645.88	493.60	4.24	
12840.00	8980.00	13073.02	8980.00	76.72	76.63	90.09	4120.46	645.57	645.86	492.53	4.21	
12870.00	8980.00	13103.02	8980.00	77.25	77.16	90.09	4150.46	645.43	645.84	491.45	4.18	
12900.00	8980.00	13133.02	8980.00	77.77	77.69	90.09	4180.46	645.29	645.82	490.38	4.15	
12930.00	8980.00	13163.02	8980.00	78.30	78.22	90.09	4210.46	645.15	645.81	489.31	4.13	
12960.00	8980.00	13193.02	8980.00	78.83	78.75	90.09	4240.46	645.02	645.80	488.24	4.10	
12990.00	8980.00	13223.02	8980.00	79.36	79.27	90.09	4270.46	644.88	645.79	487.17	4.07	
13020.00	8980.00	13253.02	8980.00	79.89	79.80	90.09	4300.46	644.74	645.78	486.10	4.04	
13050.00	8980.00	13283.02	8980.00	80.42	80.33	90.09	4330.46	644.60	645.77	485.03	4.02	
13080.00	8980.00	13313.02	8980.00	80.95	80.86	90.09	4360.46	644.47	645.77	483.97	3.99	
13110.00	8980.00	13343.02	8980.00	81.48	81.39	90.09	4390.46	644.33	645.76	482.90	3.97	
13140.00	8980.00	13373.02	8980.00	82.01	81.92	90.09	4420.46	644.19	645.76	481.84	3.94	
13170.00	8980.00	13403.02	8980.00	82.55	82.45	90.09	4450.46	644.06	645.76	480.78	3.91	
13200.00	8980.00	13433.02	8980.00	83.08	82.98	90.09	4480.46	643.92	645.76	479.72	3.89	
13230.00	8980.00	13463.02	8980.00	83.61	83.52	90.09	4510.46	643.78	645.76	478.66	3.86	
13260.00	8980.00	13493.02	8980.00	84.14	84.05	90.09	4540.46	643.64	645.77	477.60	3.84	
13290.00	8980.00	13523.02	8980.00	84.67	84.58	90.09	4570.46	643.51	645.78	476.54	3.82	
13320.00	8980.00	13553.02	8980.00	85.20	85.11	90.09	4600.46	643.37	645.78	475.49	3.79	
13350.00	8980.00	13583.02	8980.00	85.74	85.64	90.09	4630.46	643.23	645.79	474.43	3.77	
13380.00	8980.00	13613.02	8980.00	86.27	86.17	90.09	4660.46	643.09	645.81	473.38	3.75	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010

Time: 12:19:33

Page: 21

Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0

Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
13410.00	8980.00	13643.02	8980.00	86.80	86.71	90.09	4690.45	642.96	645.82	472.33	3.72	
13440.00	8980.00	13673.02	8980.00	87.34	87.24	90.09	4720.45	642.82	645.84	471.28	3.70	
13470.00	8980.00	13703.02	8980.00	87.87	87.77	90.09	4750.45	642.68	645.85	470.23	3.68	
13500.00	8980.00	13733.02	8980.00	88.40	88.30	90.09	4780.45	642.55	645.87	469.18	3.66	
13530.00	8980.00	13763.02	8980.00	88.94	88.84	90.09	4810.45	642.41	645.89	468.14	3.63	
13560.00	8980.00	13793.02	8980.00	89.47	89.37	90.09	4840.45	642.27	645.91	467.09	3.61	
13590.00	8980.00	13823.02	8980.00	90.00	89.90	90.09	4870.45	642.13	645.94	466.05	3.59	
13620.00	8980.00	13853.02	8980.00	90.54	90.44	90.09	4900.45	642.00	645.96	465.01	3.57	
13650.00	8980.00	13883.02	8980.00	91.07	90.97	90.09	4930.45	641.86	645.99	463.97	3.55	
13680.00	8980.00	13913.02	8980.00	91.61	91.50	90.09	4960.45	641.72	646.02	462.93	3.53	
13710.00	8980.00	13943.02	8980.00	92.14	92.04	90.09	4990.45	641.58	646.05	461.89	3.51	
13740.00	8980.00	13973.02	8980.00	92.68	92.57	90.09	5020.45	641.45	646.09	460.85	3.49	
13770.00	8980.00	14003.02	8980.00	93.21	93.11	90.09	5050.45	641.31	646.12	459.82	3.47	
13800.00	8980.00	14033.02	8980.00	93.75	93.64	90.09	5080.45	641.17	646.16	458.78	3.45	
13830.00	8980.00	14063.02	8980.00	94.28	94.18	90.09	5110.45	641.04	646.19	457.75	3.43	
13860.00	8980.00	14093.02	8980.00	94.82	94.71	90.09	5140.45	640.90	646.23	456.72	3.41	
13890.00	8980.00	14123.02	8980.00	95.35	95.25	90.09	5170.45	640.76	646.28	455.69	3.39	
13920.00	8980.00	14153.02	8980.00	95.89	95.78	90.09	5200.45	640.62	646.32	454.66	3.37	
13950.00	8980.00	14183.02	8979.99	96.42	96.32	90.09	5230.45	640.49	646.36	453.64	3.35	
13980.00	8980.00	14213.02	8979.99	96.96	96.85	90.09	5260.45	640.35	646.41	452.61	3.34	
14010.00	8980.00	14243.02	8979.99	97.50	97.39	90.09	5290.45	640.21	646.46	451.59	3.32	
14040.00	8980.00	14273.02	8979.99	98.03	97.92	90.09	5320.45	640.07	646.51	450.57	3.30	
14070.00	8980.00	14303.02	8979.99	98.57	98.46	90.09	5350.45	639.94	646.56	449.55	3.28	
14100.00	8980.00	14333.02	8979.99	99.10	98.99	90.09	5380.45	639.80	646.62	448.53	3.26	
14130.00	8980.00	14363.02	8979.99	99.64	99.53	90.09	5410.45	639.66	646.67	447.51	3.25	
14160.00	8980.00	14393.02	8979.99	100.18	100.07	90.09	5440.45	639.52	646.73	446.50	3.23	
14190.00	8980.00	14423.02	8979.99	100.72	100.60	90.09	5470.45	639.39	646.79	445.48	3.21	
14220.00	8980.00	14453.02	8979.99	101.25	101.14	90.09	5500.45	639.25	646.85	444.47	3.20	
14250.00	8980.00	14483.02	8979.99	101.79	101.68	90.09	5530.45	639.11	646.91	443.46	3.18	
14280.00	8980.00	14513.02	8979.99	102.33	102.21	90.09	5560.44	638.98	646.97	442.45	3.16	
14310.00	8980.00	14543.02	8979.99	102.86	102.75	90.09	5590.44	638.84	647.04	441.44	3.15	
14340.00	8980.00	14573.02	8979.99	103.40	103.29	90.09	5620.44	638.70	647.11	440.43	3.13	
14370.00	8980.00	14603.02	8979.99	103.94	103.82	90.09	5650.44	638.56	647.18	439.43	3.12	
14400.00	8980.00	14633.02	8979.99	104.48	104.36	90.09	5680.44	638.43	647.25	438.42	3.10	
14430.00	8980.00	14663.02	8979.99	105.02	104.90	90.09	5710.44	638.29	647.32	437.42	3.08	
14460.00	8980.00	14693.02	8979.99	105.55	105.44	90.09	5740.44	638.15	647.39	436.42	3.07	
14490.00	8980.00	14723.02	8979.99	106.09	105.97	90.09	5770.44	638.01	647.47	435.42	3.05	
14520.00	8980.00	14753.02	8979.99	106.63	106.51	90.09	5800.44	637.88	647.55	434.42	3.04	
14550.00	8980.00	14783.02	8979.99	107.17	107.05	90.09	5830.44	637.74	647.63	433.42	3.02	
14580.00	8980.00	14813.02	8979.99	107.71	107.59	90.09	5860.44	637.60	647.71	432.43	3.01	
14610.00	8980.00	14843.02	8979.99	108.25	108.12	90.09	5890.44	637.47	647.79	431.44	2.99	
14640.00	8980.00	14873.02	8979.99	108.78	108.66	90.09	5920.44	637.33	647.88	430.44	2.98	
14670.00	8980.00	14903.02	8979.99	109.32	109.20	90.09	5950.44	637.19	647.97	429.45	2.97	
14700.00	8980.00	14933.02	8979.99	109.86	109.74	90.09	5980.44	637.05	648.05	428.47	2.95	
14730.00	8980.00	14963.02	8979.99	110.40	110.28	90.09	6010.44	636.92	648.14	427.48	2.94	
14760.00	8980.00	14993.02	8979.99	110.94	110.82	90.09	6040.44	636.78	648.24	426.49	2.92	
14790.00	8980.00	15023.02	8979.99	111.48	111.35	90.09	6070.44	636.64	648.33	425.51	2.91	
14820.00	8980.00	15053.02	8979.99	112.02	111.89	90.09	6100.44	636.50	648.43	424.53	2.90	
14850.00	8980.00	15083.02	8979.99	112.56	112.43	90.09	6130.44	636.37	648.52	423.55	2.88	
14880.00	8980.00	15113.02	8979.99	113.10	112.97	90.09	6160.44	636.23	648.62	422.57	2.87	
14910.00	8980.00	15143.02	8979.99	113.64	113.51	90.09	6190.44	636.09	648.72	421.59	2.86	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit #136H
Reference Well: Cotton Draw Unit #136H
Reference Wellpath: 1

Date: 11/1/2010 Time: 12:19:33 Page: 22
Co-ordinate(NE) Reference: Well: Cotton Draw Unit #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Db: Sybase

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

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		TFO-HS	Offset Location		Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
MD	TVD	MD	TVD	Ref	Offset		North	East				
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
14940.00	8980.00	15173.02	8979.99	114.18	114.05	90.09	6220.44	635.96	648.82	420.61	2.84	
14970.00	8980.00	15203.02	8979.99	114.72	114.59	90.09	6250.43	635.82	648.93	419.64	2.83	
15000.00	8980.00	15233.02	8979.99	115.26	115.13	90.09	6280.43	635.68	649.03	418.66	2.82	
15030.00	8980.00	15263.02	8979.99	115.80	115.67	90.09	6310.43	635.54	649.14	417.69	2.80	
15060.00	8980.00	15293.02	8979.99	116.34	116.21	90.09	6340.43	635.41	649.25	416.72	2.79	
15090.00	8980.00	15323.02	8979.99	116.88	116.74	90.09	6370.43	635.27	649.36	415.75	2.78	
15120.00	8980.00	15353.02	8979.99	117.42	117.28	90.09	6400.43	635.13	649.47	414.79	2.77	
15150.00	8980.00	15383.02	8979.99	117.96	117.82	90.09	6430.43	634.99	649.59	413.82	2.76	
15180.00	8980.00	15413.01	8979.99	118.50	118.36	90.09	6460.43	634.86	649.71	412.86	2.74	
15210.00	8980.00	15443.01	8979.99	119.04	118.90	90.09	6490.43	634.72	649.82	411.90	2.73	
15240.00	8980.00	15473.01	8979.99	119.58	119.44	90.09	6520.43	634.58	649.94	410.93	2.72	
15270.00	8980.00	15503.01	8979.99	120.12	119.98	90.09	6550.43	634.44	650.06	409.98	2.71	
15300.00	8980.00	15533.01	8979.99	120.66	120.52	90.09	6580.43	634.31	650.19	409.02	2.70	
15330.00	8980.00	15563.01	8979.99	121.20	121.06	90.09	6610.43	634.17	650.31	408.06	2.68	
15360.00	8980.00	15593.01	8979.99	121.74	121.60	90.09	6640.43	634.03	650.44	407.11	2.67	
15390.00	8980.00	15623.01	8979.99	122.28	122.14	90.09	6670.43	633.90	650.57	406.16	2.66	
15420.00	8980.00	15653.01	8979.99	122.82	122.68	90.09	6700.43	633.76	650.70	405.20	2.65	
15450.00	8980.00	15683.01	8979.99	123.36	123.22	90.09	6730.43	633.62	650.83	404.25	2.64	
15480.00	8980.00	15713.01	8979.99	123.90	123.76	90.09	6760.43	633.48	650.96	403.31	2.63	
15510.00	8980.00	15743.01	8979.99	124.45	124.30	90.09	6790.42	633.35	651.10	402.36	2.62	
15540.00	8980.00	15773.01	8979.99	124.99	124.85	90.09	6820.42	633.21	651.24	401.42	2.61	
15570.00	8980.00	15803.01	8979.99	125.53	125.39	90.09	6850.42	633.07	651.38	400.47	2.60	
15600.00	8980.00	15833.01	8979.99	126.07	125.93	90.09	6880.42	632.93	651.52	399.53	2.59	
15630.00	8980.00	15863.01	8979.99	126.61	126.47	90.09	6910.42	632.80	651.66	398.59	2.58	
15660.00	8980.00	15893.01	8979.99	127.15	127.01	90.09	6940.42	632.66	651.80	397.65	2.56	
15690.00	8980.00	15923.01	8979.99	127.69	127.55	90.09	6970.42	632.52	651.95	396.72	2.55	
15720.00	8980.00	15953.01	8979.99	128.24	128.09	90.09	7000.42	632.39	652.10	395.78	2.54	
15750.00	8980.00	15983.01	8979.99	128.78	128.63	90.09	7030.42	632.25	652.25	394.85	2.53	
15780.00	8980.00	16013.01	8979.99	129.32	129.17	90.09	7060.42	632.11	652.40	393.92	2.52	
15810.00	8980.00	16043.01	8979.99	129.86	129.71	90.09	7090.42	631.97	652.55	392.99	2.51	
15840.00	8980.00	16073.01	8979.99	130.40	130.25	90.09	7120.42	631.84	652.70	392.06	2.50	
15870.00	8980.00	16103.01	8979.99	130.94	130.80	90.09	7150.42	631.70	652.86	391.13	2.49	
15900.00	8980.00	16133.01	8979.99	131.49	131.34	90.09	7180.42	631.56	653.02	390.21	2.48	
15930.00	8980.00	16163.01	8979.99	132.03	131.88	90.09	7210.42	631.42	653.18	389.28	2.48	
15960.00	8980.00	16193.01	8979.99	132.57	132.42	90.09	7240.41	631.29	653.34	388.36	2.47	
15990.00	8980.00	16223.01	8979.99	133.11	132.96	90.09	7270.41	631.15	653.50	387.44	2.46	
16020.00	8980.00	16253.01	8979.99	133.65	133.50	90.09	7300.41	631.01	653.67	386.52	2.45	
16050.00	8980.00	16283.01	8979.99	134.20	134.04	90.09	7330.41	630.88	653.83	385.60	2.44	
16080.00	8980.00	16313.00	8979.99	134.74	134.59	90.09	7360.41	630.74	654.00	384.69	2.43	
16110.00	8980.00	16343.00	8979.99	135.28	135.13	90.09	7390.41	630.60	654.17	383.77	2.42	
16140.00	8980.00	16373.00	8979.99	135.82	135.67	90.09	7420.41	630.46	654.34	382.86	2.41	
16170.00	8980.00	16403.00	8979.99	136.37	136.21	90.09	7450.41	630.33	654.52	381.95	2.40	
16200.00	8980.00	16433.00	8979.99	136.91	136.75	90.09	7480.41	630.19	654.69	381.04	2.39	
16230.00	8980.00	16463.00	8979.99	137.45	137.29	90.09	7510.41	630.05	654.87	380.13	2.38	
16260.00	8980.00	16493.00	8979.99	137.99	137.84	90.09	7540.41	629.91	655.05	379.23	2.37	
16290.00	8980.00	16523.00	8979.99	138.54	138.38	90.09	7570.41	629.78	655.23	378.32	2.37	
16320.00	8980.00	16553.00	8979.99	139.08	138.92	90.09	7600.40	629.64	655.41	377.42	2.36	
16350.00	8980.00	16583.00	8979.99	139.62	139.46	90.09	7630.40	629.50	655.60	376.52	2.35	
16380.00	8980.00	16613.00	8979.99	140.17	140.00	90.09	7660.40	629.36	655.78	375.62	2.34	
16410.00	8980.00	16643.00	8979.99	140.71	140.55	90.09	7690.40	629.23	655.97	374.72	2.33	
16412.34	8980.00	16645.34	8979.99	140.75	140.59	90.09	7692.74	629.22	655.98	374.65	2.33	

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

GeoDec v5.03

Report Date: November 01, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #136H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 419733.720 USFT	Latitude 32.1525906 DEG
East/West 721286.800 USFT	Longitude -103.7518687 DEG
Grid Convergence: .31°	
Total Correction: +7.39°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.15259° N	32° 9 min 9.326 sec
Longitude =	103.75187° W	103° 45 min 6.727 sec

Magnetic Declination =	7.70°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6503
Local Field Strength =	48600 nT	Magnetic Vector X = 24012 nT
Magnetic Dip =	60.10°	Magnetic Vector Y = 3245 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42129 nT
Spud Date =	Mar 15, 2011	Magnetic Vector H = 24230 nT

Signed: _____

Date: _____

NOTES REGARDING BLOWOUT PREVENTERS

Devon Energy Production Company, LP

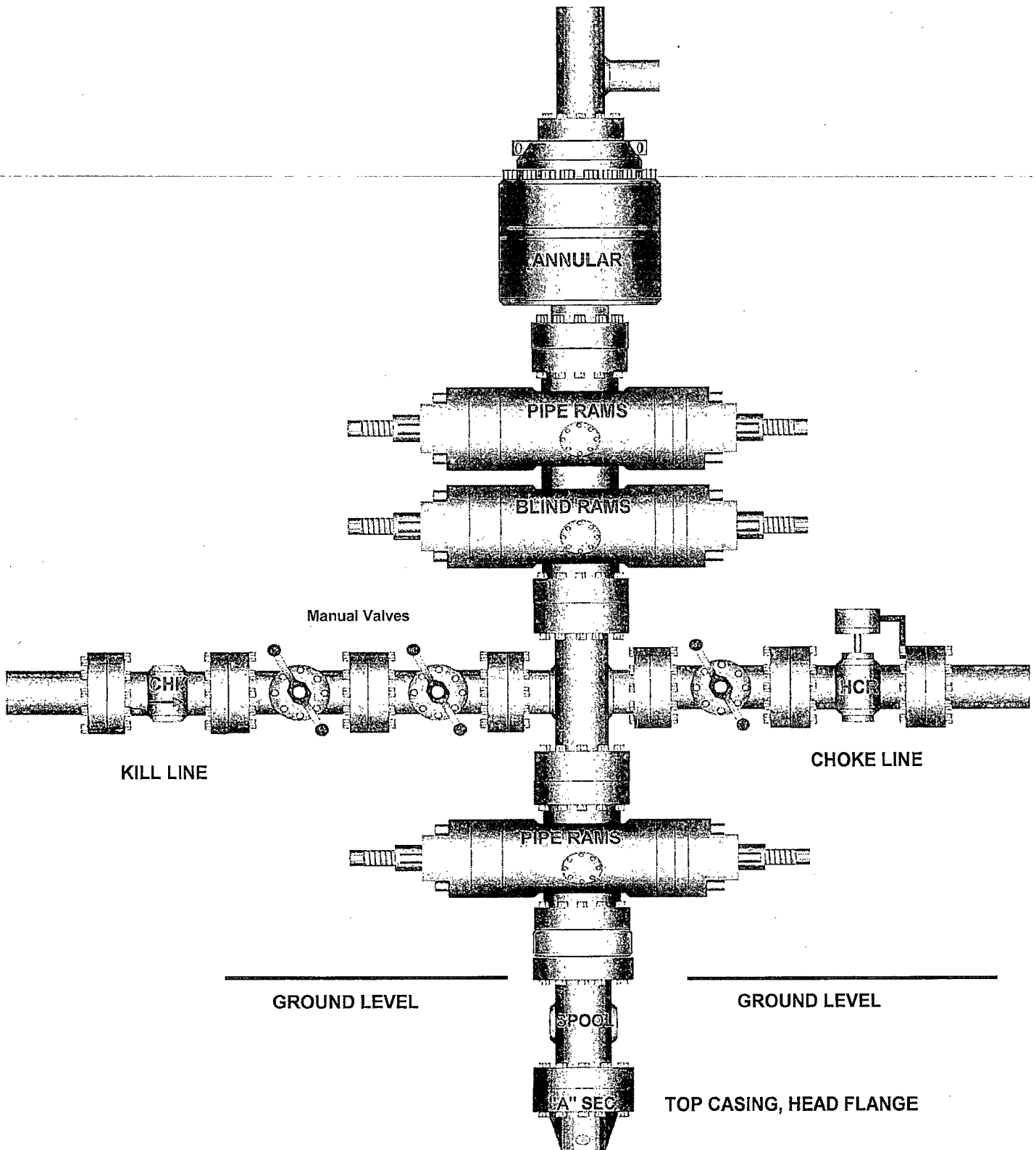
Cotton Draw Unit 136H

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

Bottom Hole Location: 2600' FSL & 1642' FWL, Unit K, 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.

13-5/8" x 3,000 psi BOP Stack



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

