OCD-ARTESIA

ATS-11-161

SECRETARY'S POTASH

Form 3160-3
(April 2004)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. **NMNM036379**

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☑ DRILL ☐ REENTER

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

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☑ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. **Cotton Draw Unit 151H** (300635)

2. Name of Operator **Devon Energy Production Company, LP** (6137)

9. API Well No. **30-015-38610**

3a. Address **20 North Broadway, Oklahoma City, Oklahoma City 73102-8260**

3b. Phone No. *(include area code)* **405-228-8699**

10. Field and Pool, or Exploratory **Poker Lake East; Delaware, South** (50386)

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **NW/4 NW/4 200 FNL & 660 FWL UNIT D**
At proposed prod. zone **SW/4SW/4 200 FSL & 660 FWL UNIT M PP:200 FNL & 660 FWL**

11. Sec., T. R. M. or Blk. and Survey or Area **SEC 35 T24S R31E**

14. Distance in miles and direction from nearest town or post office*
Approximately 20 miles east of Loving, NM.

12. County or Parish **Eddy County**

13. State **NM**

15. 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 **628.68 Acres**

17. Spacing Unit dedicated to this well **160 Acres**

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. **See attached map.**

19. Proposed Depth **12,821' MD 8259'TVD**

20. BLM/BIA Bond No. on file **CO-1104**

21. Elevations (Show whether DF, KDB, RT, GL, etc.) **3500 ' 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: Judy A. Barnett | Name *(Printed/Typed)* **Judy A. Barnett** | Date **12/07/2010**

Title **Regulatory Analyst**

Approved by *(Signature)* **/s/ Jesse J. Juen** | Name *(Printed/Typed)* **/s/ Jesse J. Juen** | Date MAR 17 2011

Title FOR 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.

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

CARLSBAD CONTROLLED WATER BASIN

RECEIVED
MAR 28 2011
NMOCD ARTESIA

KZ 03/31/11

APPROVAL SUBJECT TO GENERAL REQUIREMENTS AND SPECIAL STIPULATIONS ATTACHED

SEE ATTACHED FOR CONDITIONS OF APPROVAL

DRILLING PROGRAM

Devon Energy Production Company, LP

Cotton Draw Unit 151H

Surface Location: 200' FNL & 660' FWL, Unit D, Sec 35 T24S R31E, Eddy, NM

Bottom Hole Location: 200' FSL & 660' FWL, Unit M, Sec 35 T24S R31E, Eddy, NM

1. Geologic Name of Surface Formation

a. Quaternary Alluvium

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

a.	Quaternary	300'	Fresh Water
b.	Rustler	642'	Water
c.	Salt	1104'	
d.	Base of Salt	4169'	
e.	Delaware/Lamar	4390'	Oil
f.	Bell Canyon	4418'	Oil
g.	Cherry Canyon	5371'	Oil
h.	Brushy Canyon	6675'	Oil
i.	Total Depth	12,821'	

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 ½"casing at ~~700'~~ 770' and circulating cement back to surface. Fresh water sands will be protected by setting 9 5/8" casing at 4375' and circulating cement to surface. The Delaware intervals will be isolated by setting 5 ½" casing to total depth and circulating cement above the base of the 9 5/8" casing.

Casing Program: See COA

Hole Size	Hole Interval	OD Csg	Casing Interval	Weight	Collar	Grade
17 ½"	0 - ~~700~~ 770'	13 3/8""	0' ~~700~~ 770'	48#	STC	H-40
12 ¼"	770' ~~700~~-4375'	9 5/8"	0'-4375'	40#	LTC	J-55
8 ¾"	4375-7500'	5 ½"	0-7500'	17#	LTC	N-80
8 ¾"	7500-12821'	5 ½"	7500-12,821'	17#	BTC	N-80

Design Parameter Factors:

Casing Size	Collapse Design Factor	Burst Design Factor	Tension Design Factor
13 3/8"	2.35	5.28	9.58
9 5/8" 40#	1.23	1.70	2.91
5 ½" 17#	1.79	2.21	1.60
5 ½" 17#	1.56	1.92	4.95

NOTE REGARDING COLLAPSE DESIGN FACTOR FOR INTERMEDIATE CASING: The maximum possible collapse load that the intermediate casing will experience will result from evacuated casing with the pore pressure exerting a collapse load at TD. The pore pressure is estimated to be 9.0 ppg for this calculation. This results in a collapse design factor of 1.23 for the 9-5/8" 40# J-55 LTC casing at a depth of 4,375 ft. While running the intermediate casing, the casing string will never be completely evacuated. There is no potential for the intermediate casing to be used as a production string.

Cement Program:

13 3/8"

Lead: 600 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 4% bwoc Bentonite + 81.4% Fresh Water, 13.5 ppg **Yield:** 1.75 cf/sk **TOC @ surface**
Tail: 250 sacks Class C Cement + 2% bwoc Calcium Chloride + 0.125 lbs/sack Cello Flake + 56.3% Fresh Water, 14.8 ppg **Yield:** 1.35 cf/sk

9 5/8" Intermediate

See COA

Lead: 1,200 sacks (35:65) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 6% bwoc Bentonite + 107.8% Fresh Water, 12.5 ppg **Yield**: 2.04 cf/sk
TOC @ surface
Tail: 300 sacks (60:40) Poz (Fly Ash):Class C Cement + 5% bwow Sodium Chloride + 0.125 lbs/sack Cello Flake + 0.4% bwoc Sodium Metasilicate + 4% bwoc MPA-5 + 64.7% Water, 13.8 ppg **Yield**: 1.37 cf/sk

5 ½" Production

1st Stage
Lead: 500 sacks (35:65) Poz (Fly Ash):Class H Cement + 5% bwow Sodium Chloride + 0.3% bwoc CD-32 + 0.5% bwoc FL-25 + 2% bwoc Bentonite + 0.6% bwoc Sodium Metasilicate + 0.5% bwoc FL-52A + 102.5% Fresh Water, 12.5 ppg **Yield**: 2.01 cf/sk
Tail: 1,400 sacks (50:50) Poz (Fly Ash):Class H Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 58.3% Fresh Water, 14.2 ppg **Yield**: 1.28 cf/sk
DV TOOL at 6,000'

2nd Stage
Lead: 350 sacks Class C Cement + 1% bwow Calcium Chloride + 0.125 lbs/sack Cello Flake + 157.8% Fresh Water, 11.4 ppg **Yield**: 2.88 cf/sk
Tail: 100 sacks (60:40) Poz (Fly Ash):Class C Cement + 1% bwow Sodium Chloride + 0.2% bwoc R-3 + 0.125 lbs/sack Cello Flake + 0.5% bwoc BA-10A + 4% bwoc MPA-5 + 63.2% Fresh Water, 13.8 ppg **Yield**: 1.37cf/sk **TOC @ 3,975'**

See COA

The above cement volumes could be revised pending the caliper measurement from the open hole logs. The top of cement is designed to reach approximately 500' above the 9 5/8" casing shoe. All casing is new and API approved.

Pressure Control Equipment BOP DESIGN:

The BOP system used to drill the intermediate hole will consist of a 13-5/8" 3M 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.

See COA

Proposed Mud Circulation System See COA

Depth	Mud Wt.	Visc	Fluid Loss	Type System
0' – ~~700'~~ 770	8.4-9.0	30-34	NC	FW
770 ~~700'~~ – 4375'	9.8-10.0	28-32	NC	Brine
4375'–12,821'	8.6-9.0	28-32	NC	FW

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

3. Auxiliary Well Control and Monitoring Equipment:
   a. 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:** See COA

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

5. **Potential Hazards:**

a. No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6 No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 4405 psi and Estimated BHT 145°. No H2S is anticipated to be encountered.

6. **Anticipated Starting Date and Duration of Operations:**

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

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

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

Weatherford®

Drilling Services

Proposal

devon

COTTON DRAW UNIT #151H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

NOVEMBER 3, 2010

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

devon

Cotton Draw Unit #151H
Eddy Co., NM

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	179.90	0.00	0.00	0.00	0.00	0.00	0.00	
2	7677.15	0.00	0.00	7677.15	0.00	0.00	0.00	0.00	0.00	
3	8575.77	89.88	179.90	8250.00	-571.63	0.97	10.00	0.00	571.64	
4	12821.03	89.88	179.90	8259.00	-4816.88	8.17	0.00	0.00	4816.89	Pbhl

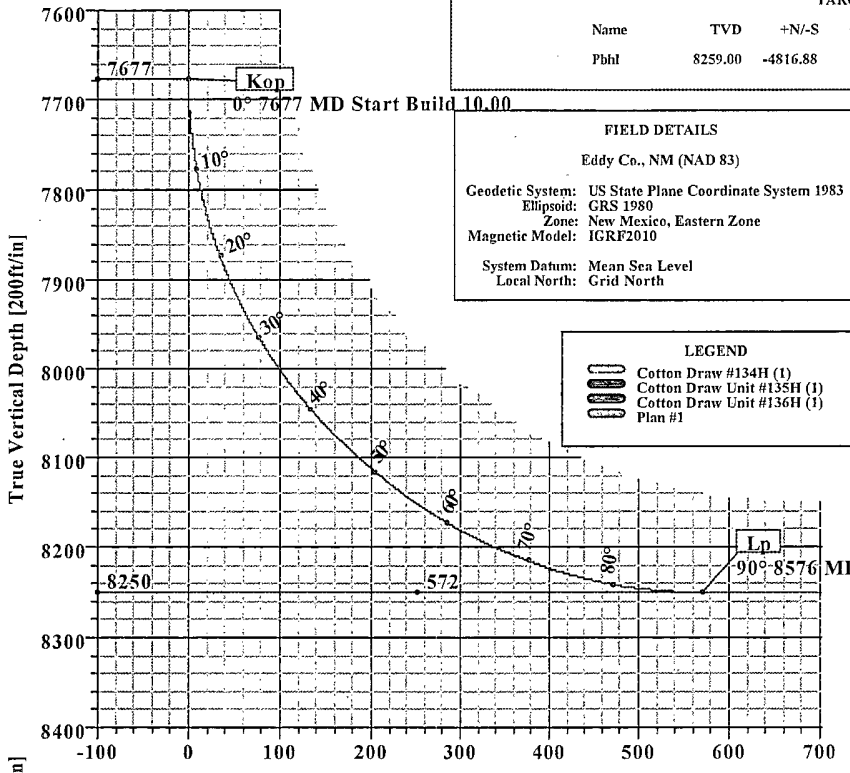
WELL DETAILS

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

TARGET DETAILS

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

KB ELEV: 3526
GL ELEV: 3501



FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

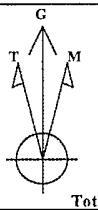
Cotton Draw Unit #151H

Site Centre Northing: 429840.99
Easting: 720272.72

Ground Level: 3501.00
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

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



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.39°

Magnetic Field
Strength: 48616nT
Dip Angle: 60.12°
Date: 4/1/2011
Model: IGRF2010

Total Correction to Grid North: 7.39°

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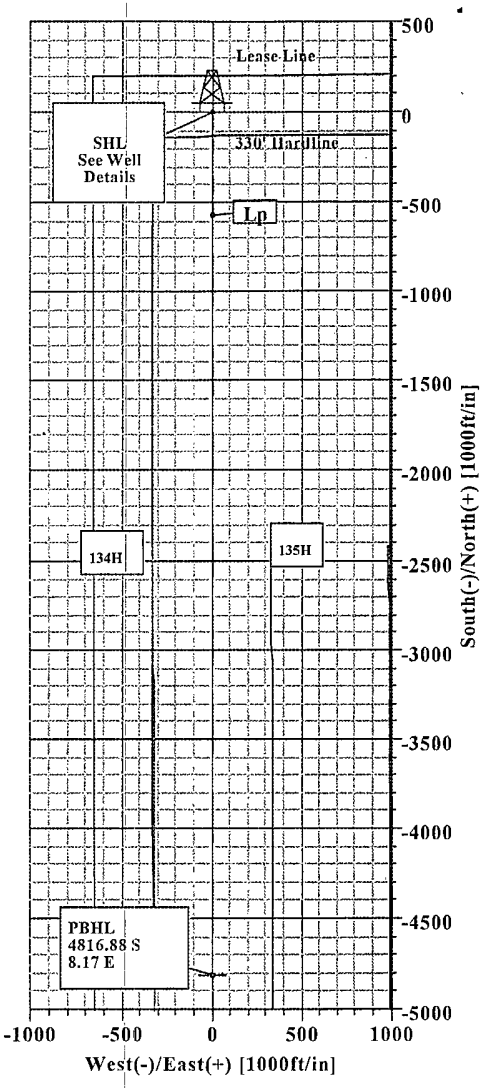

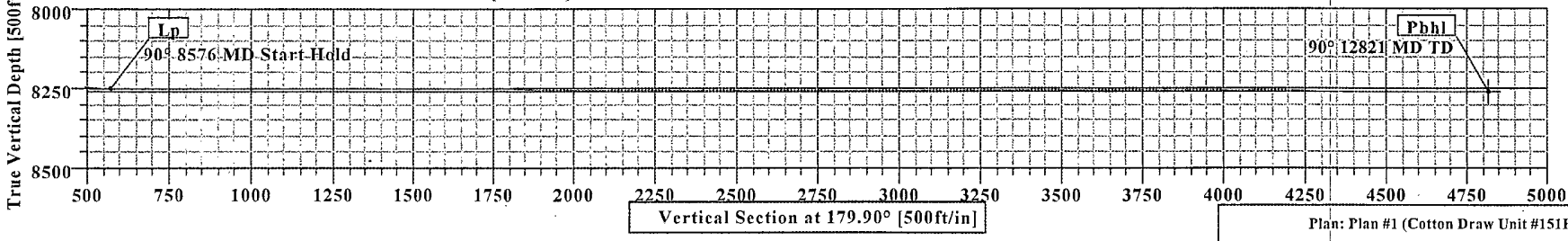

Plan: Plan #1 (Cotton Draw Unit #151H/1)

Created By: Russell W. Joyner Date: 11/3/2010

Weatherford International Ltd.
WFT Plan Report - X & Y's

devon — Weatherford

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

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

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

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

Well:	Cotton Draw Unit #151H				**Slot Name:**	
Well Position:	+N/-S	0.00 ft	**Northing:**	429840.99 ft	**Latitude:**	32 10 49.390 N
	+E/-W	0.00 ft	**Easting:**	720272.72 ft	**Longitude:**	103 45 17.908 W
Position Uncertainty:		0.00 ft				

Wellpath:	1		**Drilled From:**	Surface	
			Tie-on Depth:	0.00 ft	
Current Datum:	SITE	**Height** 3526.00 ft	**Above System Datum:**	Mean Sea Level	
Magnetic Data:	4/1/2011		**Declination:**	7.69 deg	
Field Strength:	48616 nT		**Mag Dip Angle:**	60.12 deg	

Vertical Section:	**Depth From (TVD)** ft	**+N/-S** ft	**+E/-W** ft	**Direction** deg
	8259.00	0.00	0.00	179.90

Plan Section Information

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

Survey

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

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WFT Plan Report - X & Y's

devon

Weatherford

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

Survey

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

Targets

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

Weatherford International Ltd.
WFT Plan Report - X & Y's

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

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

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

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

Weatherford International Ltd.
Anticollision Report

devon

Weatherford

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

NO GLOBAL SCAN: Using user defined selection & scan criteria		**Reference:**	Plan: Plan #1
Interpolation Method:	MD **Interval:** 100.00 ft	**Error Model:**	ISCWSA Ellipse
Depth Range:	0.00 to 12821.03 ft	**Scan Method:**	Closest Approach 3D
Maximum Radius:	10000.00 ft	**Error Surface:**	Ellipse

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

Summary

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

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 V0 Plan: Plan #1 V1 **Inter-Site Error:** 0.00 ft

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

Weatherford International Ltd.

Anticollision Report

devon

Weatherford

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

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 V0 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		
3600.00	3600.00	16353.54	8980.00	7.95	141.09	187.65	-2416.66	-324.69	5982.02	5917.14	92.20	
3700.00	3700.00	16353.54	8980.00	8.18	141.09	187.65	-2416.66	-324.69	5890.85	5825.72	90.45	
3800.00	3800.00	16353.54	8980.00	8.40	141.09	187.65	-2416.66	-324.69	5799.96	5734.59	88.72	
3900.00	3900.00	16353.54	8980.00	8.63	141.09	187.65	-2416.66	-324.69	5709.38	5643.76	87.01	
4000.00	4000.00	16353.54	8980.00	8.85	141.09	187.65	-2416.66	-324.69	5619.13	5553.26	85.31	
4100.00	4100.00	16353.54	8980.00	9.07	141.09	187.65	-2416.66	-324.69	5529.20	5463.08	83.62	
4200.00	4200.00	16353.54	8980.00	9.30	141.09	187.65	-2416.66	-324.69	5439.63	5373.26	81.96	
4300.00	4300.00	16353.54	8980.00	9.52	141.09	187.65	-2416.66	-324.69	5350.43	5283.80	80.31	
4400.00	4400.00	16353.54	8980.00	9.75	141.09	187.65	-2416.66	-324.69	5261.61	5194.73	78.67	
4500.00	4500.00	16353.54	8980.00	9.97	141.09	187.65	-2416.66	-324.69	5173.21	5106.07	77.05	
4600.00	4600.00	16353.54	8980.00	10.20	141.09	187.65	-2416.66	-324.69	5085.23	5017.83	75.45	
4700.00	4700.00	16353.54	8980.00	10.42	141.09	187.65	-2416.66	-324.69	4997.71	4930.05	73.87	
4800.00	4800.00	16353.54	8980.00	10.65	141.09	187.65	-2416.66	-324.69	4910.66	4842.74	72.30	
4900.00	4900.00	16353.54	8980.00	10.87	141.09	187.65	-2416.66	-324.69	4824.11	4755.92	70.74	
5000.00	5000.00	16353.54	8980.00	11.10	141.09	187.65	-2416.66	-324.69	4738.10	4669.64	69.21	
5100.00	5100.00	16353.54	8980.00	11.32	141.09	187.65	-2416.66	-324.69	4652.64	4583.91	67.69	
5200.00	5200.00	16353.54	8980.00	11.55	141.09	187.65	-2416.66	-324.69	4567.78	4498.76	66.19	
5300.00	5300.00	16353.54	8980.00	11.77	141.09	187.65	-2416.66	-324.69	4483.53	4414.24	64.70	
5400.00	5400.00	16353.54	8980.00	12.00	141.09	187.65	-2416.66	-324.69	4399.95	4330.37	63.24	
5500.00	5500.00	16353.54	8980.00	12.22	141.09	187.65	-2416.66	-324.69	4317.07	4247.20	61.79	
5600.00	5600.00	16353.54	8980.00	12.45	141.09	187.65	-2416.66	-324.69	4234.92	4164.75	60.35	
5700.00	5700.00	16353.54	8980.00	12.67	141.09	187.65	-2416.66	-324.69	4153.56	4083.09	58.94	
5800.00	5800.00	16353.54	8980.00	12.90	141.09	187.65	-2416.66	-324.69	4073.03	4002.25	57.54	
5900.00	5900.00	16353.54	8980.00	13.12	141.09	187.65	-2416.66	-324.69	3993.38	3922.28	56.16	
6000.00	6000.00	16353.54	8980.00	13.35	141.09	187.65	-2416.66	-324.69	3914.66	3843.23	54.81	
6100.00	6100.00	16353.54	8980.00	13.57	141.09	187.65	-2416.66	-324.69	3836.94	3765.17	53.46	
6200.00	6200.00	16353.54	8980.00	13.80	141.09	187.65	-2416.66	-324.69	3760.26	3688.15	52.14	
6300.00	6300.00	16353.54	8980.00	14.02	141.09	187.65	-2416.66	-324.69	3684.71	3612.23	50.84	
6400.00	6400.00	16353.54	8980.00	14.24	141.09	187.65	-2416.66	-324.69	3610.34	3537.49	49.56	
6500.00	6500.00	16353.54	8980.00	14.47	141.09	187.65	-2416.66	-324.69	3537.24	3463.99	48.29	
6600.00	6600.00	16353.54	8980.00	14.69	141.09	187.65	-2416.66	-324.69	3465.48	3391.82	47.04	
6700.00	6700.00	16353.54	8980.00	14.92	141.09	187.65	-2416.66	-324.69	3395.15	3321.05	45.82	
6800.00	6800.00	16353.54	8980.00	15.14	141.09	187.65	-2416.66	-324.69	3326.35	3251.78	44.61	
6900.00	6900.00	16353.54	8980.00	15.37	141.09	187.65	-2416.66	-324.69	3259.15	3184.09	43.42	
7000.00	7000.00	16353.54	8980.00	15.59	141.09	187.65	-2416.66	-324.69	3193.68	3118.08	42.24	
7100.00	7100.00	16353.54	8980.00	15.82	141.09	187.65	-2416.66	-324.69	3130.03	3053.85	41.09	
7200.00	7200.00	16353.54	8980.00	16.04	141.09	187.65	-2416.66	-324.69	3068.32	2991.51	39.95	
7300.00	7300.00	16353.54	8980.00	16.27	141.09	187.65	-2416.66	-324.69	3008.67	2931.16	38.82	
7400.00	7400.00	16353.54	8980.00	16.49	141.09	187.65	-2416.66	-324.69	2951.20	2872.91	37.70	
7500.00	7500.00	16353.54	8980.00	16.72	141.09	187.65	-2416.66	-324.69	2896.04	2816.88	36.58	
7600.00	7600.00	16353.54	8980.00	16.94	141.09	187.65	-2416.66	-324.69	2843.34	2763.18	35.47	
7700.00	7699.99	16353.54	8980.00	17.16	141.09	7.93	-2416.66	-324.69	2792.83	2711.54	34.36	
7800.00	7799.06	16353.54	8980.00	17.32	141.09	8.99	-2416.66	-324.69	2734.72	2652.45	33.24	
7900.00	7894.42	16353.54	8980.00	17.48	141.09	10.62	-2416.66	-324.69	2665.54	2582.44	32.08	
8000.00	7983.18	16353.54	8980.00	17.66	141.09	13.30	-2416.66	-324.69	2586.57	2502.77	30.87	
8100.00	8062.63	16353.54	8980.00	17.90	141.09	18.13	-2416.66	-324.69	2499.43	2414.91	29.57	
8200.00	8130.37	16353.54	8980.00	18.23	141.09	28.56	-2416.66	-324.69	2406.01	2320.28	28.06	
8300.00	8184.33	16353.54	8980.00	18.68	141.09	58.28	-2416.66	-324.69	2308.58	2218.94	25.75	
8400.00	8222.88	16353.54	8980.00	19.27	141.09	119.56	-2416.66	-324.69	2209.78	2118.47	24.20	
8500.00	8244.84	16353.54	8980.00	20.00	141.09	149.27	-2416.66	-324.69	2112.60	2024.63	24.01	
8600.00	8250.05	16353.54	8980.00	20.85	141.09	157.87	-2416.66	-324.69	2020.26	1933.28	23.23	

Weatherford International Ltd.

Anticollision Report

devon

Weatherford

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

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 1 V0 Plan: Plan #1 V1 **Inter-Site Error:** 0.00 ft

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

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 Plan: Plan #1 V1 **Inter-Site Error:** 0.00 ft

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

Weatherford International Ltd.

Anticollision Report

devon

Weatherford

Company:	Devon Energy	**Date:** 11/3/2010	**Time:** 13:32:51	**Page:**	4
Field:	Eddy Co., NM (NAD 83)				
Reference Site:	Cotton Draw Unit #151H	**Co-ordinate(NE) Reference:**	Well: Cotton Draw Unit #151H, Grid North		
Reference Well:	Cotton Draw Unit #151H	**Vertical (TVD) Reference:**	SITE 3526.0		
Reference Wellpath:	1			**Db:**	Sybase

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 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	Offset Location 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		
200.00	200.00	16640.89	8980.06	0.31	142.08	172.17	-2408.09	331.25	9187.45	9127.81	154.03	
300.00	300.00	16640.89	8980.06	0.53	142.08	172.17	-2408.09	331.25	9091.06	9031.18	151.83	
400.00	400.00	16640.89	8980.06	0.76	142.08	172.17	-2408.09	331.25	8994.74	8934.63	149.64	
500.00	500.00	16640.89	8980.06	0.98	142.08	172.17	-2408.09	331.25	8898.50	8838.16	147.48	
600.00	600.00	16640.89	8980.06	1.21	142.08	172.17	-2408.09	331.25	8802.34	8741.78	145.33	
700.00	700.00	16640.89	8980.06	1.43	142.08	172.17	-2408.09	331.25	8706.28	8645.48	143.19	
800.00	800.00	16640.89	8980.06	1.66	142.08	172.17	-2408.09	331.25	8610.30	8549.27	141.08	
900.00	900.00	16640.89	8980.06	1.88	142.08	172.17	-2408.09	331.25	8514.41	8453.15	138.98	
1000.00	1000.00	16640.89	8980.06	2.11	142.08	172.17	-2408.09	331.25	8418.62	8357.13	136.90	
1100.00	1100.00	16640.89	8980.06	2.33	142.08	172.17	-2408.09	331.25	8322.93	8261.21	134.84	
1200.00	1200.00	16640.89	8980.06	2.56	142.08	172.17	-2408.09	331.25	8227.34	8165.39	132.79	
1300.00	1300.00	16640.89	8980.06	2.78	142.08	172.17	-2408.09	331.25	8131.86	8069.67	130.76	
1400.00	1400.00	16640.89	8980.06	3.01	142.08	172.17	-2408.09	331.25	8036.49	7974.07	128.74	
1500.00	1500.00	16640.89	8980.06	3.23	142.08	172.17	-2408.09	331.25	7941.23	7878.58	126.74	
1600.00	1600.00	16640.89	8980.06	3.46	142.08	172.17	-2408.09	331.25	7846.09	7783.20	124.76	
1700.00	1700.00	16640.89	8980.06	3.68	142.08	172.17	-2408.09	331.25	7751.07	7687.95	122.79	
1800.00	1800.00	16640.89	8980.06	3.91	142.08	172.17	-2408.09	331.25	7656.18	7592.83	120.84	
1900.00	1900.00	16640.89	8980.06	4.13	142.08	172.17	-2408.09	331.25	7561.42	7497.83	118.91	
2000.00	2000.00	16640.89	8980.06	4.35	142.08	172.17	-2408.09	331.25	7466.80	7402.97	116.99	
2100.00	2100.00	16640.89	8980.06	4.58	142.08	172.17	-2408.09	331.25	7372.32	7308.26	115.08	
2200.00	2200.00	16640.89	8980.06	4.80	142.08	172.17	-2408.09	331.25	7277.99	7213.69	113.19	
2300.00	2300.00	16640.89	8980.06	5.03	142.08	172.17	-2408.09	331.25	7183.81	7119.27	111.32	
2400.00	2400.00	16640.89	8980.06	5.25	142.08	172.17	-2408.09	331.25	7089.79	7025.02	109.46	
2500.00	2500.00	16640.89	8980.06	5.48	142.08	172.17	-2408.09	331.25	6995.93	6930.92	107.62	
2600.00	2600.00	16640.89	8980.06	5.70	142.08	172.17	-2408.09	331.25	6902.25	6837.00	105.79	
2700.00	2700.00	16640.89	8980.06	5.93	142.08	172.17	-2408.09	331.25	6808.75	6743.26	103.98	
2800.00	2800.00	16640.89	8980.06	6.15	142.08	172.17	-2408.09	331.25	6715.43	6649.71	102.18	
2900.00	2900.00	16640.89	8980.06	6.38	142.08	172.17	-2408.09	331.25	6622.31	6556.35	100.40	
3000.00	3000.00	16640.89	8980.06	6.60	142.08	172.17	-2408.09	331.25	6529.39	6463.19	98.63	
3100.00	3100.00	16640.89	8980.06	6.83	142.08	172.17	-2408.09	331.25	6436.69	6370.25	96.88	
3200.00	3200.00	16640.89	8980.06	7.05	142.08	172.17	-2408.09	331.25	6344.21	6277.53	95.14	
3300.00	3300.00	16640.89	8980.06	7.28	142.08	172.17	-2408.09	331.25	6251.96	6185.03	93.42	
3400.00	3400.00	16640.89	8980.06	7.50	142.08	172.17	-2408.09	331.25	6159.95	6092.78	91.71	
3500.00	3500.00	16640.89	8980.06	7.73	142.08	172.17	-2408.09	331.25	6068.19	6000.78	90.02	
3600.00	3600.00	16640.89	8980.06	7.95	142.08	172.17	-2408.09	331.25	5976.70	5909.04	88.34	
3700.00	3700.00	16640.89	8980.06	8.18	142.08	172.17	-2408.09	331.25	5885.48	5817.58	86.68	
3800.00	3800.00	16640.89	8980.06	8.40	142.08	172.17	-2408.09	331.25	5794.56	5726.41	85.03	
3900.00	3900.00	16640.89	8980.06	8.63	142.08	172.17	-2408.09	331.25	5703.93	5635.54	83.39	
4000.00	4000.00	16640.89	8980.06	8.85	142.08	172.17	-2408.09	331.25	5613.63	5544.98	81.78	
4100.00	4100.00	16640.89	8980.06	9.07	142.08	172.17	-2408.09	331.25	5523.66	5454.76	80.17	
4200.00	4200.00	16640.89	8980.06	9.30	142.08	172.17	-2408.09	331.25	5434.04	5364.89	78.58	
4300.00	4300.00	16640.89	8980.06	9.52	142.08	172.17	-2408.09	331.25	5344.79	5275.39	77.01	
4400.00	4400.00	16640.89	8980.06	9.75	142.08	172.17	-2408.09	331.25	5255.93	5186.27	75.45	
4500.00	4500.00	16640.89	8980.06	9.97	142.08	172.17	-2408.09	331.25	5167.47	5097.55	73.91	
4600.00	4600.00	16640.89	8980.06	10.20	142.08	172.17	-2408.09	331.25	5079.45	5009.27	72.38	
4700.00	4700.00	16640.89	8980.06	10.42	142.08	172.17	-2408.09	331.25	4991.87	4921.43	70.86	
4800.00	4800.00	16640.89	8980.06	10.65	142.08	172.17	-2408.09	331.25	4904.77	4834.06	69.37	
4900.00	4900.00	16640.89	8980.06	10.87	142.08	172.17	-2408.09	331.25	4818.17	4747.19	67.88	
5000.00	5000.00	16640.89	8980.06	11.10	142.08	172.17	-2408.09	331.25	4732.10	4660.85	66.42	
5100.00	5100.00	16640.89	8980.06	11.32	142.08	172.17	-2408.09	331.25	4646.58	4575.06	64.97	
5200.00	5200.00	16640.89	8980.06	11.55	142.08	172.17	-2408.09	331.25	4561.66	4489.86	63.53	

Weatherford International Ltd.
Anticollision Report

devon — Weatherford

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

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 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		
5300.00	5300.00	16640.89	8980.06	11.77	142.08	172.17	-2408.09	331.25	4477.35	4405.27	62.11	
5400.00	5400.00	16640.89	8980.06	12.00	142.08	172.17	-2408.09	331.25	4393.71	4321.34	60.71	
5500.00	5500.00	16640.89	8980.06	12.22	142.08	172.17	-2408.09	331.25	4310.76	4238.10	59.33	
5600.00	5600.00	16640.89	8980.06	12.45	142.08	172.17	-2408.09	331.25	4228.55	4155.59	57.96	
5700.00	5700.00	16640.89	8980.06	12.67	142.08	172.17	-2408.09	331.25	4147.12	4073.86	56.61	
5800.00	5800.00	16640.89	8980.06	12.90	142.08	172.17	-2408.09	331.25	4066.53	3992.95	55.27	
5900.00	5900.00	16640.89	8980.06	13.12	142.08	172.17	-2408.09	331.25	3986.81	3912.92	53.96	
6000.00	6000.00	16640.89	8980.06	13.35	142.08	172.17	-2408.09	331.25	3908.02	3833.80	52.66	
6100.00	6100.00	16640.89	8980.06	13.57	142.08	172.17	-2408.09	331.25	3830.22	3755.67	51.38	
6200.00	6200.00	16640.89	8980.06	13.80	142.08	172.17	-2408.09	331.25	3753.48	3678.57	50.11	
6300.00	6300.00	16640.89	8980.06	14.02	142.08	172.17	-2408.09	331.25	3677.85	3602.59	48.87	
6400.00	6400.00	16640.89	8980.06	14.24	142.08	172.17	-2408.09	331.25	3603.41	3527.77	47.64	
6500.00	6500.00	16640.89	8980.06	14.47	142.08	172.17	-2408.09	331.25	3530.23	3454.20	46.43	
6600.00	6600.00	16640.89	8980.06	14.69	142.08	172.17	-2408.09	331.25	3458.40	3381.96	45.24	
6700.00	6700.00	16640.89	8980.06	14.92	142.08	172.17	-2408.09	331.25	3388.00	3311.12	44.07	
6800.00	6800.00	16640.89	8980.06	15.14	142.08	172.17	-2408.09	331.25	3319.11	3241.78	42.92	
6900.00	6900.00	16640.89	8980.06	15.37	142.08	172.17	-2408.09	331.25	3251.84	3174.02	41.79	
7000.00	7000.00	16640.89	8980.06	15.59	142.08	172.17	-2408.09	331.25	3186.30	3107.95	40.67	
7100.00	7100.00	16640.89	8980.06	15.82	142.08	172.17	-2408.09	331.25	3122.57	3043.66	39.57	
7200.00	7200.00	16640.89	8980.06	16.04	142.08	172.17	-2408.09	331.25	3060.79	2981.26	38.48	
7300.00	7300.00	16640.89	8980.06	16.27	142.08	172.17	-2408.09	331.25	3001.07	2920.86	37.41	
7400.00	7400.00	16640.89	8980.06	16.49	142.08	172.17	-2408.09	331.25	2943.54	2862.57	36.35	
7500.00	7500.00	16640.89	8980.06	16.72	142.08	172.17	-2408.09	331.25	2888.32	2806.50	35.30	
7600.00	7600.00	16640.89	8980.06	16.94	142.08	172.17	-2408.09	331.25	2835.56	2752.77	34.25	
7700.00	7699.99	16640.89	8980.06	17.16	142.08	352.08	-2408.09	331.25	2785.00	2701.12	33.20	
7800.00	7799.06	16640.89	8980.06	17.32	142.08	351.03	-2408.09	331.25	2726.85	2642.02	32.15	
7900.00	7894.42	16640.89	8980.06	17.48	142.08	349.39	-2408.09	331.25	2657.63	2572.03	31.05	
8000.00	7983.18	16640.89	8980.06	17.66	142.08	346.72	-2408.09	331.25	2578.64	2492.39	29.90	
8100.00	8062.63	16640.89	8980.06	17.90	142.08	341.89	-2408.09	331.25	2491.47	2404.57	28.67	
8200.00	8130.37	16640.89	8980.06	18.23	142.08	331.46	-2408.09	331.25	2398.05	2309.97	27.23	
8300.00	8184.33	16640.89	8980.06	18.68	142.08	301.68	-2408.09	331.25	2300.61	2208.65	25.02	
8400.00	8222.88	16640.89	8980.06	19.27	142.08	240.33	-2408.09	331.25	2201.80	2108.22	23.53	
8500.00	8244.84	16640.89	8980.06	20.00	142.08	210.67	-2408.09	331.25	2104.63	2014.38	23.32	
8600.00	8250.05	16640.89	8980.06	20.85	142.08	202.09	-2408.09	331.25	2012.29	1923.03	22.54	
8700.00	8250.26	16640.89	8980.06	21.82	142.08	202.09	-2408.09	331.25	1922.61	1832.90	21.43	
8800.00	8250.47	16640.89	8980.06	22.89	142.08	202.09	-2408.09	331.25	1833.99	1743.78	20.33	
8900.00	8250.69	16640.89	8980.06	24.05	142.08	202.09	-2408.09	331.25	1746.61	1655.84	19.24	
9000.00	8250.90	16640.89	8980.06	25.30	142.08	202.09	-2408.09	331.25	1660.64	1569.29	18.18	
9100.00	8251.11	16640.89	8980.06	26.60	142.08	202.09	-2408.09	331.25	1576.34	1484.34	17.14	
9200.00	8251.32	16640.89	8980.06	27.97	142.08	202.09	-2408.09	331.25	1493.97	1401.30	16.12	
9300.00	8251.53	16640.89	8980.06	29.39	142.08	202.09	-2408.09	331.25	1413.87	1320.51	15.14	
9400.00	8251.75	16640.89	8980.06	30.85	142.08	202.09	-2408.09	331.25	1336.47	1242.37	14.20	
9500.00	8251.96	16640.89	8980.06	32.35	142.08	202.09	-2408.09	331.25	1262.24	1167.39	13.31	
9600.00	8252.17	16640.89	8980.06	33.88	142.08	202.09	-2408.09	331.25	1191.78	1096.15	12.46	
9700.00	8252.38	16640.89	8980.06	35.43	142.08	202.09	-2408.09	331.25	1125.81	1029.39	11.68	
9800.00	8252.59	16640.89	8980.06	37.02	142.08	202.09	-2408.09	331.25	1065.15	967.92	10.95	
9900.00	8252.81	16640.89	8980.06	38.62	142.08	202.09	-2408.09	331.25	1010.77	912.71	10.31	
10000.00	8253.02	16640.89	8980.06	40.24	142.08	202.09	-2408.09	331.25	963.72	864.82	9.74	
10100.00	8253.23	16640.89	8980.06	41.88	142.08	202.09	-2408.09	331.25	925.12	825.37	9.27	
10200.00	8253.44	16640.89	8980.06	43.54	142.08	202.09	-2408.09	331.25	896.07	795.47	8.91	
10300.00	8253.65	16640.89	8980.06	45.20	142.08	202.09	-2408.09	331.25	877.53	776.05	8.65	

Weatherford International Ltd.
Anticollision Report

devon — Weatherford

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

Site: Cotton Draw Unit #135H
Well: Cotton Draw Unit #135H
Wellpath: 1 V0 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		
10400.00	8253.87	16640.89	8980.06	46.88	142.08	202.09	-2408.09	331.25	870.15	767.79	8.50	
10500.00	8254.08	16554.25	8980.06	48.57	140.52	202.10	-2494.74	331.55	869.91	767.49	8.49	
10600.00	8254.29	16454.25	8980.06	50.27	138.71	202.12	-2594.74	331.90	869.78	767.41	8.50	
10700.00	8254.50	16354.25	8980.06	51.98	136.90	202.13	-2694.73	332.24	869.65	767.32	8.50	
10800.00	8254.71	16254.25	8980.06	53.70	135.10	202.15	-2794.73	332.59	869.52	767.23	8.50	
10900.00	8254.93	16154.25	8980.06	55.42	133.29	202.17	-2894.73	332.93	869.39	767.13	8.50	
11000.00	8255.14	16054.25	8980.06	57.15	131.49	202.18	-2994.73	333.28	869.26	767.02	8.50	
11100.00	8255.35	15954.25	8980.06	58.89	129.68	202.20	-3094.73	333.63	869.13	766.91	8.50	
11200.00	8255.56	15854.25	8980.06	60.63	127.88	202.21	-3194.73	333.97	869.00	766.80	8.50	
11300.00	8255.77	15754.25	8980.05	62.37	126.08	202.23	-3294.73	334.32	868.87	766.69	8.50	
11400.00	8255.99	15654.25	8980.05	64.12	124.28	202.25	-3394.73	334.66	868.74	766.57	8.50	
11500.00	8256.20	15554.25	8980.05	65.88	122.47	202.26	-3494.73	335.01	868.61	766.44	8.50	
11600.00	8256.41	15454.25	8980.05	67.63	120.67	202.28	-3594.73	335.35	868.47	766.31	8.50	
11700.00	8256.62	15354.25	8980.05	69.40	118.87	202.30	-3694.72	335.70	868.34	766.18	8.50	
11800.00	8256.84	15254.25	8980.05	71.16	117.08	202.31	-3794.72	336.05	868.21	766.05	8.50	
11900.00	8257.05	15154.25	8980.05	72.93	115.28	202.33	-3894.72	336.39	868.08	765.91	8.50	
12000.00	8257.26	15054.25	8980.05	74.70	113.48	202.34	-3994.72	336.74	867.95	765.78	8.49	
12100.00	8257.47	14954.25	8980.05	76.47	111.69	202.36	-4094.72	337.08	867.82	765.63	8.49	
12200.00	8257.68	14854.25	8980.05	78.25	109.89	202.38	-4194.72	337.43	867.69	765.49	8.49	
12300.00	8257.90	14754.25	8980.05	80.03	108.10	202.39	-4294.72	337.77	867.56	765.34	8.49	
12400.00	8258.11	14654.25	8980.04	81.81	106.30	202.41	-4394.72	338.12	867.44	765.19	8.48	
12500.00	8258.32	14554.25	8980.04	83.59	104.51	202.42	-4494.72	338.47	867.31	765.04	8.48	
12600.00	8258.53	14454.25	8980.04	85.37	102.72	202.44	-4594.72	338.81	867.18	764.89	8.48	
12700.00	8258.74	14354.25	8980.04	87.16	100.93	202.46	-4694.71	339.16	867.05	764.74	8.47	
12800.00	8258.96	14254.25	8980.04	88.95	99.14	202.47	-4794.71	339.50	866.92	764.58	8.47	
12821.03	8259.00	14233.23	8980.04	89.32	98.77	202.48	-4815.74	339.58	866.89	764.54	8.47	

Weatherford Drilling Services

GeoDec v5.03

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

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

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

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

Signed:_____ Date:_____

NOTES REGARDING BLOWOUT PREVENTERS
Devon Energy Production Company, LP
Cotton Draw Unit 151H
Surface Location: 200' FNL & 660' FWL, Unit D, Sec 35 T24S R31E, Eddy, NM
Bottom Hole Location: 200' FSL & 660' FWL, Unit M, 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.

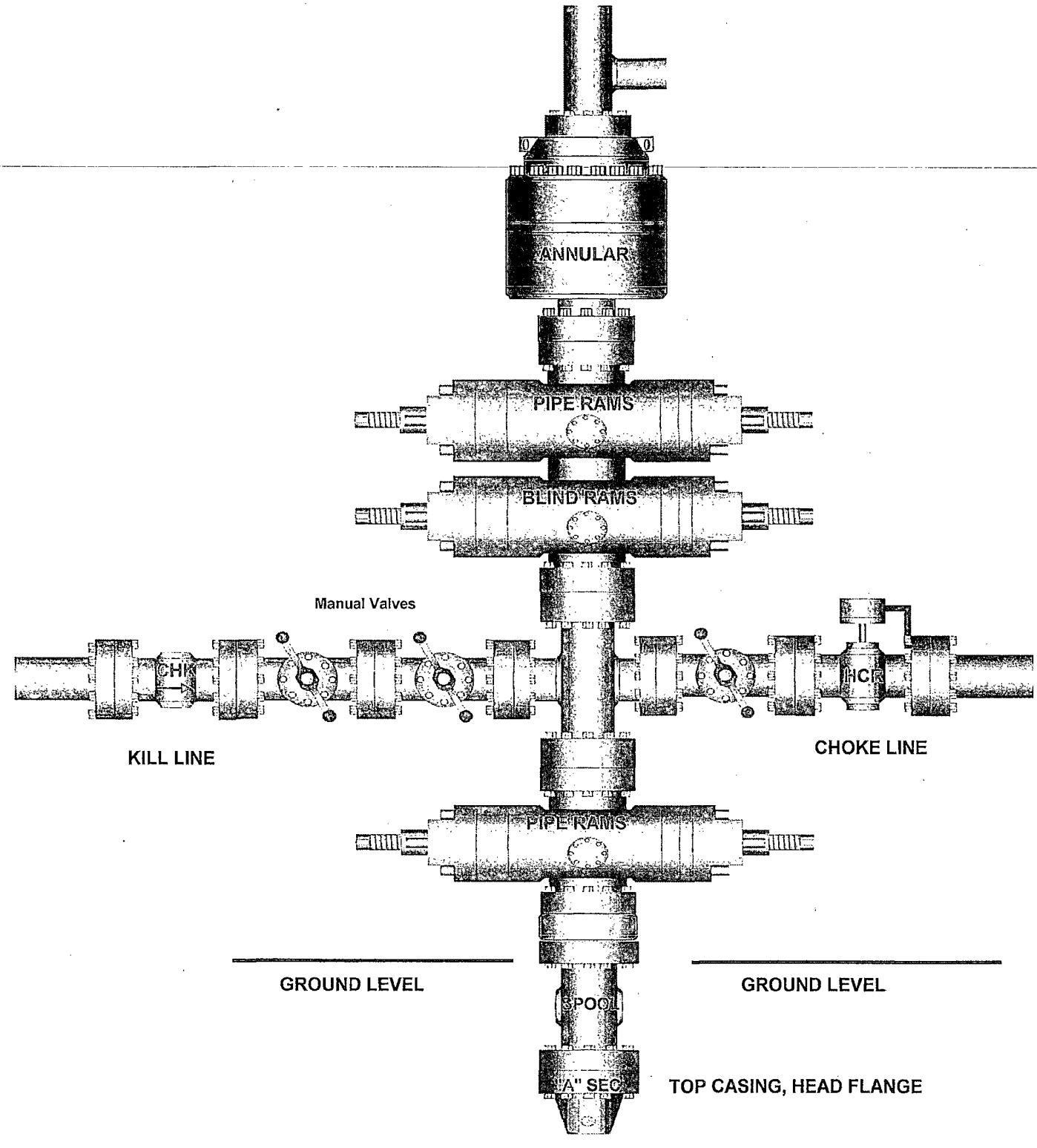
8. Will maintain a kelly cock attached to the kelly.

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.

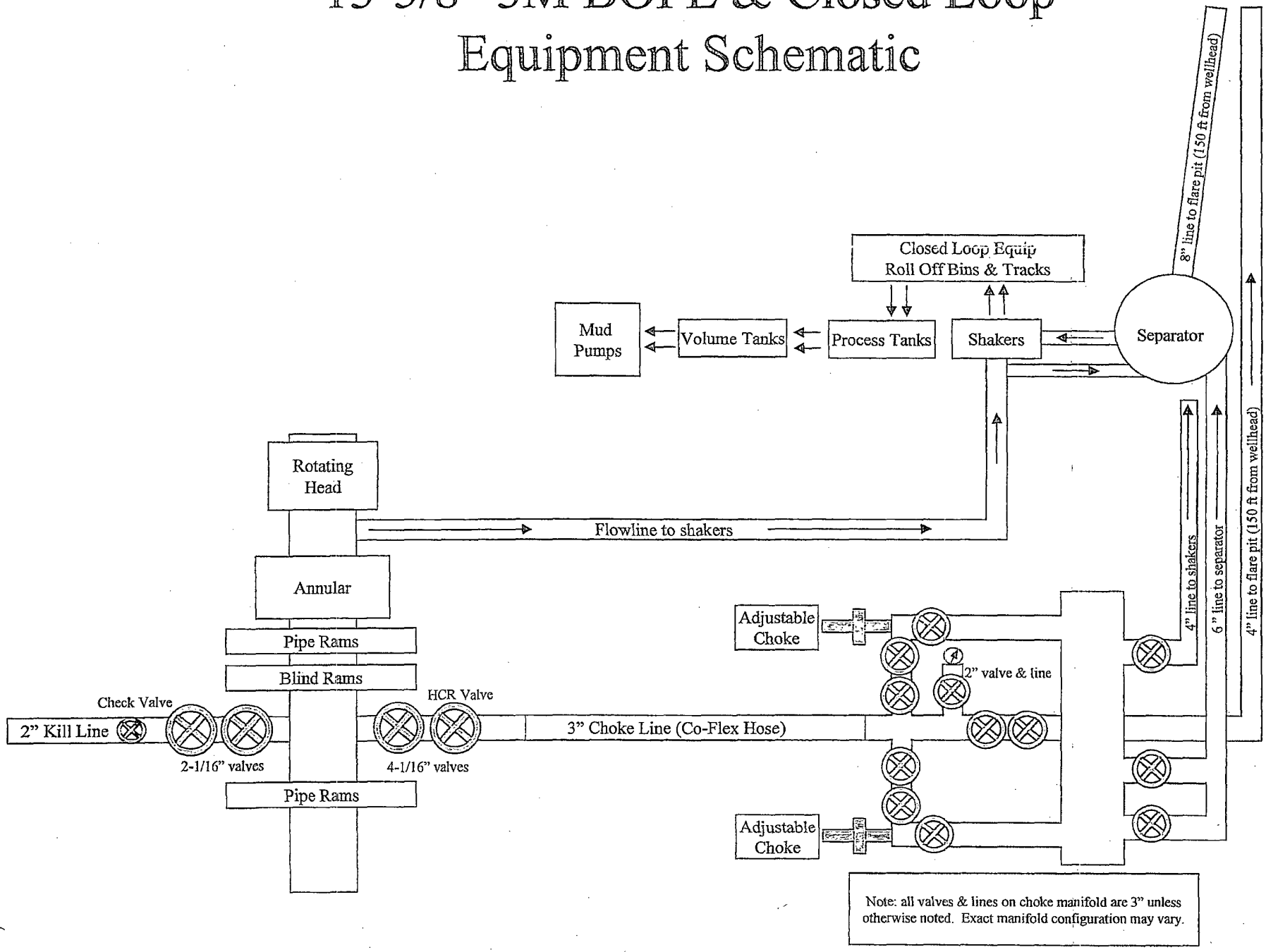
11. All BOP equipment will meet API standards and include a minimum 40 gallon accumulator having two independent means of power to initiate closing operation.

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



L:\Western\Drilling\Wes Handley\Drawings\BOPS\BOPs.xls

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



Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Helmerich & Payne,

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

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

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

Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

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

Continental CONTITECH

Fluid Technology

Quality Document

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE

CERT. N°: 1713

PURCHASER:	ContiTech Beattie Co.	P.O. N°:	002808
CONTITECH ORDER N°:	426127	HOSE TYPE:	3" ID Choke and Kill Hose
HOSE SERIAL N°:	53622	NOMINAL / ACTUAL LENGTH:	10,67 m

W.P.	68,96	MPa	10000	psi	T.P.	103,4	MPa	15000	psi	Duration:	60	min.

Pressure test with water at ambient temperature

See attachment. (1 page)

↑ 10 mm = 10 Min.

→ 10 mm = 25 MPa

COUPLINGS Type	Serial N°	Quality	Heat N°
3" coupling with	5503 2029	AISI 4130	N1590P
4 1/16" Flange end		AISI 4130	27566

INFOCHIP INSTALLED

API Spec 16 C
Temperature rate:"B"

All metal parts are flawless

Hose conform to NACE MR 01-75

WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.

STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.

COUNTRY OF ORIGIN HUNGARY/EU

Date:	Inspector	Quality Control
25. August. 2008		ContiTech Rubber Industrial Kft. Quality Control Dept.

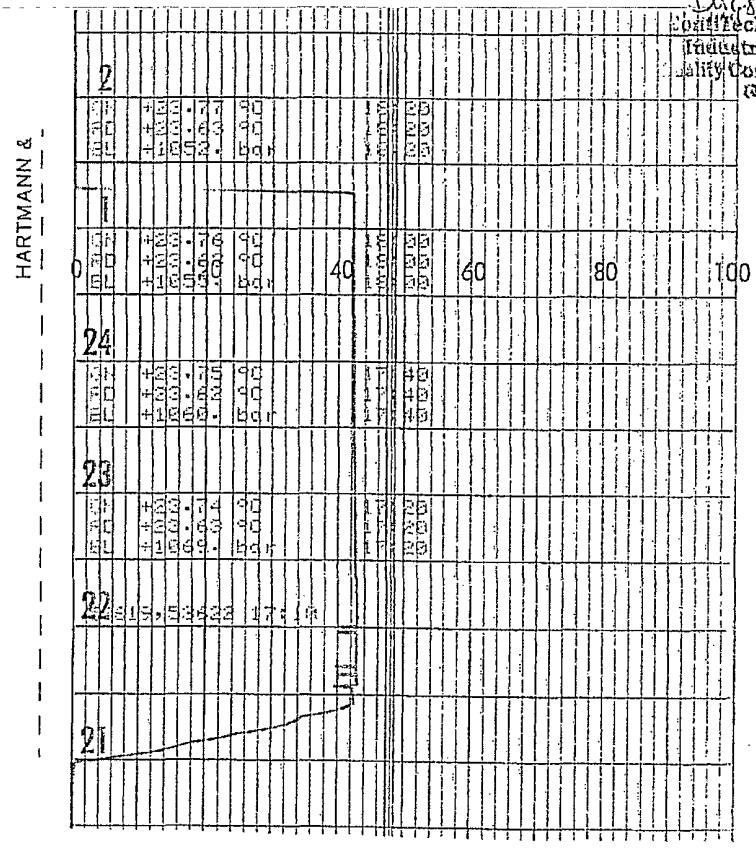
ContiTech Rubber Industrial Kft.
Budapesti út 10., Szeged H 6728
P.O.Box 152 Szeged H-6701
Hungary

Phone: +36 62 566 737
Fax: +36 62 566 738
e-mail: info@fluid.contitech.hu
Internet: www.contitech-rubber.hu

The Court of Csongrád County as Registry Court
Registry Court No: HU 06-09-002502
EU VAT No: HU11087209

Bank data
Commerzbank Zrt.
Szeged
14220108-25830003-00000000

ATTACHMENT OF QUALITY CONTROL INSPECTION AND TEST CERTIFICATE *No 1711,1713*



Cord Tech Rubber
Industrial Kft.
Quality Control Dept.

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator DEVON ENERGY PROD CO LP OGRID # 6137

300635 Well Name & # COTTON DRAW UNIT #151H Surface Type (F) (S) (P)

Location: UL D, Sect 35, Twnship 24 s, RNG 31 e, Sub-surface Type (F) (S) (P)

M

A. Date C101 rec'd ____/____/____ C101 reviewed ____/____/____

B. 1. Check mark, Information is OK on Forms:
OGRID X, BONDING FED PROP CODE X, WELL # X, SIGNATURE X

2. Inactive Well list as of : 3/30/11 # wells 1488 # Inactive wells 3

a. District Grant APD but see number of inactive wells:
No letter required X; Sent Letter to Operator ____, to Santa Fe ____

3. Additional Bonding as of: 3/30/11

a. District Denial because operator needs addition bonding:
No Letter required X; Sent Letter to Operator ____, To Santa Fe____

b. District Denial because of Inactive well list and Financial Assurance:
No Letter required X; Sent Letter to Operator ____, To Santa Fe ___

C. C102 YES X NO ___, Signature X

1. Pool POKER LAKE;DEL, SOUTH, Code 50386

a. Dedicated acreage 160, What Units DSCM

b. SUR. Location Standard _____: Non-Standard Location X

c. Well shares acres: Yes ___, No ___, # of wells ____ plus this well #____

2. 2nd. Operator in same acreage, Yes_____, No _____
Agreement Letter _____, Disagreement letter_____

3. Intent to Directional Drill Yes X, No ____

a. Dedicated acreage 160, What Units DSCM

b. Bottomhole Location Standard _____, Non-Standard Bottomhole X

4. Downhole Commingle: Yes_____, No X

a. Pool #2_____,Code_____, Acres_____
Pool #3_____, Code _____, Acres _____
Pool #4_____, Code_____, Acres_____

5. POTASH Area Yes _____, No FED

D. Blowout Preventer Yes X, No _____,

E. H2S Yes X No _____, part FED APD

F. C144 Pit Registration Yes _____, No X, need

G. Does APD require Santa Fe Approval:

1. Non-Standard Location: Yes X, No _____, NSL #_____

2. Non-Standard Proration: Yes_____, No X, NSP # _____

3. Simultaneous Dedication: Yes _____, No X, SD # _____
Number of wells _____ Plus #_____

4. Injection order Yes _____, No X; PMX #_____ or WFX #_____

5. SWD order Yes _____, NO X; SWD # _____

6. DHC from SF_____; DHC-HOB_____; Holding_____

7. OCD Approval Date ____/____/____ API #30-015-38610

8. Reviewers KL