

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 15, 2009

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-38433		² Pool Code 96757		³ Pool Name Cotton Draw DELAWARE; BRUSHY CANYON	
⁴ Property Code 300635		⁵ Property Name COTTON DRAW UNIT			
⁷ OGRID No. 6137		⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.			
				⁶ Well Number 161 H	
				⁹ Elevation 3457.5	

¹⁰ Surface Location									
UL or lot no. D	Section 2	Township 25 S	Range 31 E	Lot Idn 4	Feet from the 200	North/South line NORTH	Feet from the 440	East/West line WEST	County EDDY

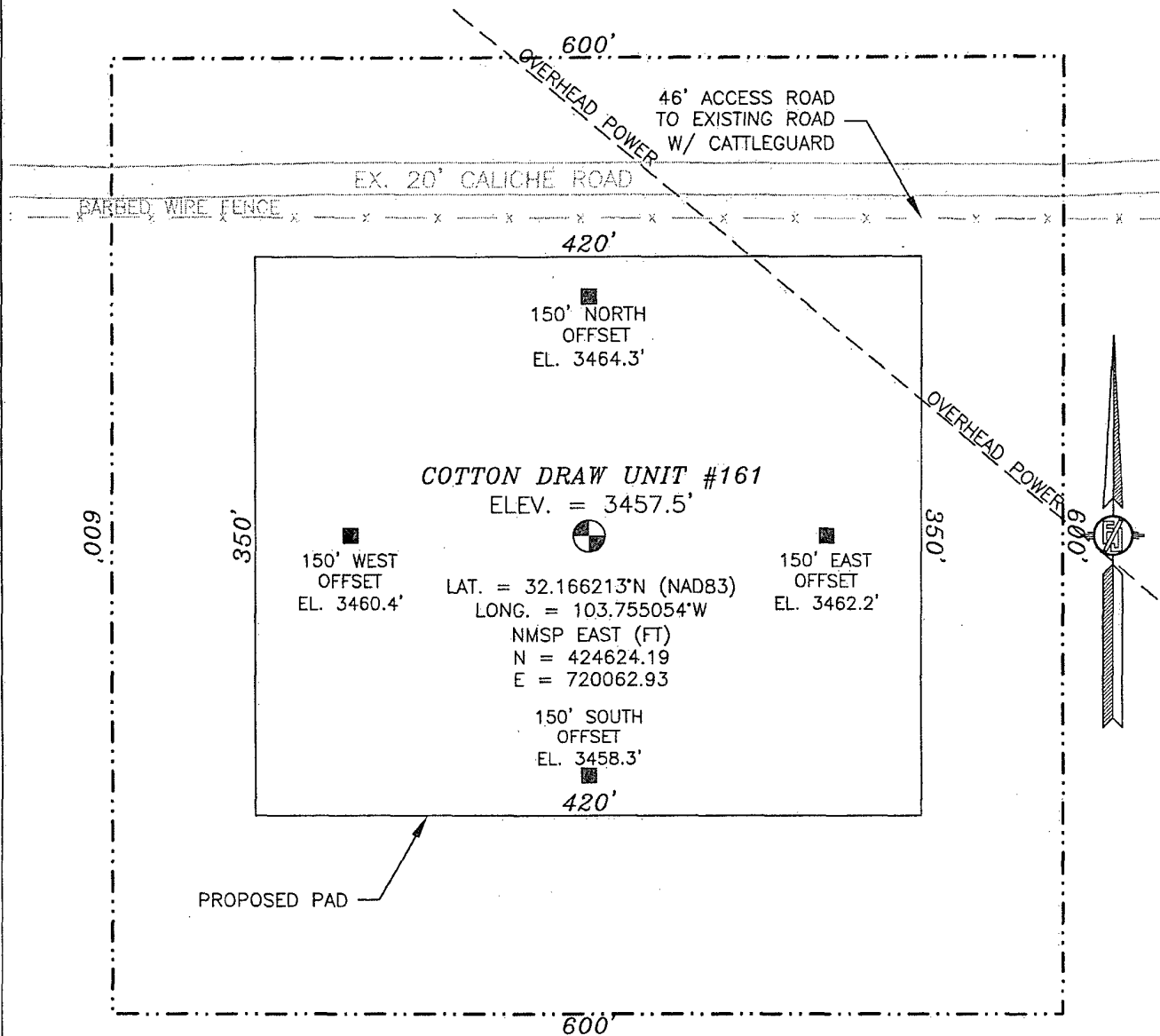
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 2	Township 25 S	Range 31 E	Lot Idn 	Feet from the 200	North/South line SOUTH	Feet from the 660	East/West line WEST	County EDDY

¹² Dedicated Acres 160.159.666	¹³ Joint or Infill 	¹⁴ Consolidation Code 	¹⁵ Order No.
---	--	---	------------------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Judy A. Barnett</i> Date: 1/21/11 Printed Name: Judy A. Barnett Regulatory Specialist
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. NOVEMBER 24, 2010 MEXICO Date of Survey: NOVEMBER 24, 2010 Signature and Seal of Professional Surveyor: <i>Filimon F. Jaramillo</i> Certificate Number: FILIMON F. JARAMILLO, PLS 12797 SURVEY NO. 333		

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO



010 50 100 200
SCALE 1" = 100'

DIRECTIONS TO LOCATION

FROM CR 786 AND CR 791, GO SOUTH ON 791 3.1 MILES, TURN LEFT AND GO EAST 1.9 MILES, TURN LEFT AND GO NORTH 0.7 MILES, TURN LEFT AND GO WEST 0.3 MILES, TURN RIGHT AND GO NORTH 0.4 MILES, TURN LEFT AND GO WEST 0.6 MILES AND LOCATION IS ON THE LEFT (SOUTH) 230'.

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT #161

LOCATED 200 FT. FROM THE NORTH LINE
AND 440 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

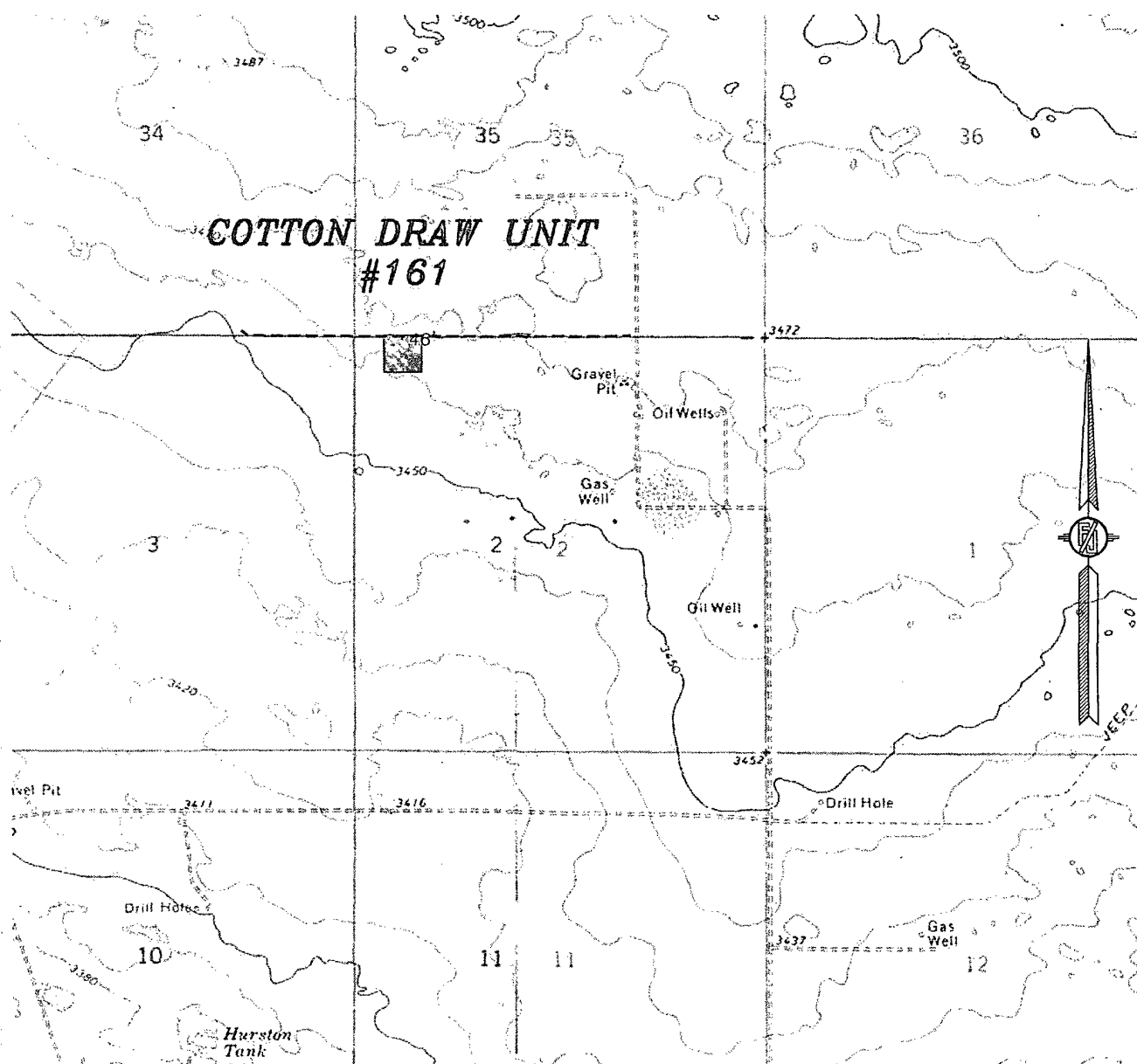
NOVEMBER 24, 2010

SURVEY NO. 333

MADRON SURVEYING, INC. 301 SOUTH CANAL (575) 887-5830 CARLSBAD, NEW MEXICO

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

LOCATION VERIFICATION MAP



CONTOUR INTERVAL
BIG SINKS

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT #161

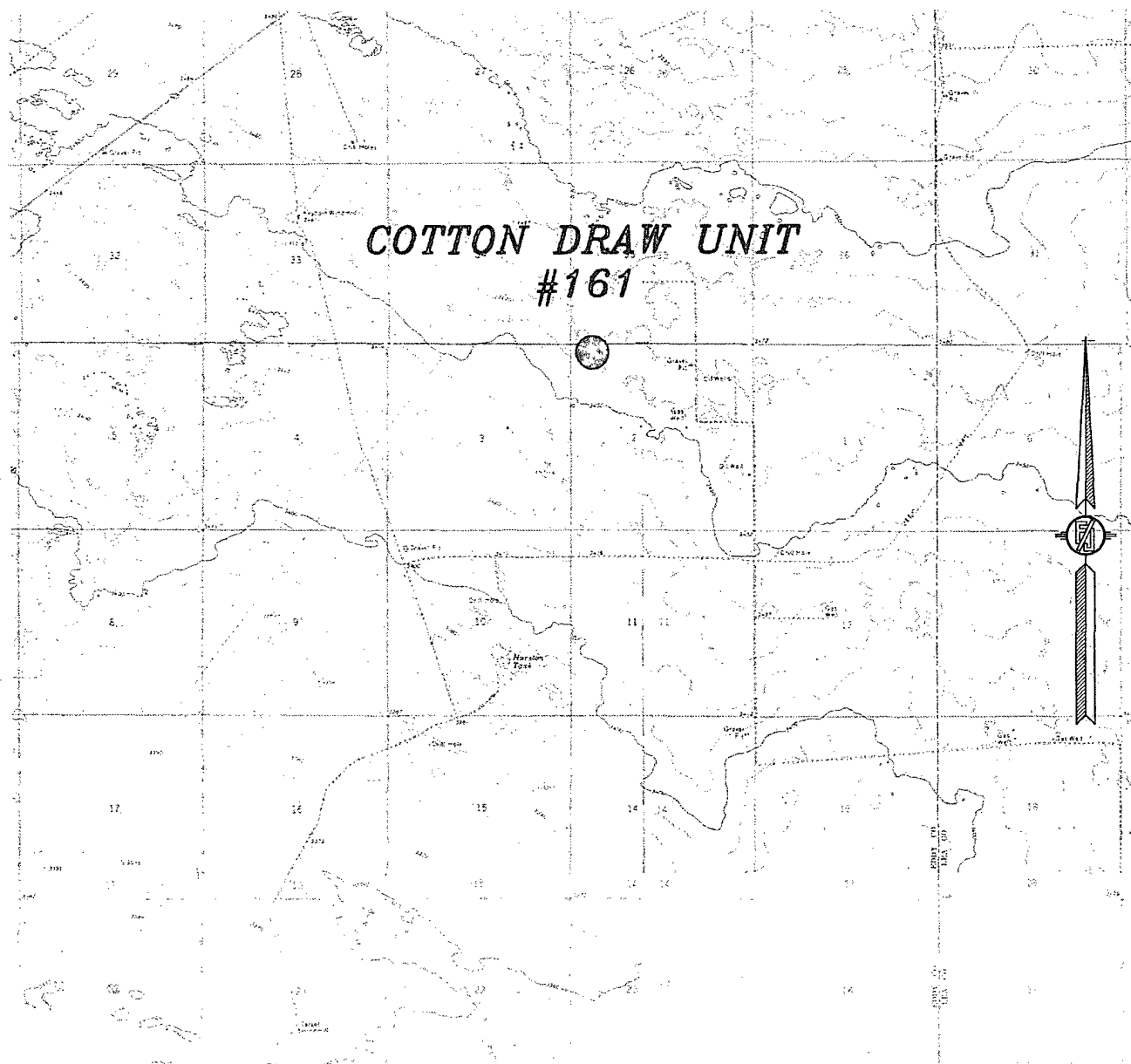
LOCATED 200 FT. FROM THE NORTH LINE
AND 440 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2010

SURVEY NO. 333

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
VICINITY MAP



DEVON ENERGY PRODUCTION COMPANY, L.P.

NOT TO SCALE

COTTON DRAW UNIT #161

LOCATED 200 FT. FROM THE NORTH LINE
AND 440 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

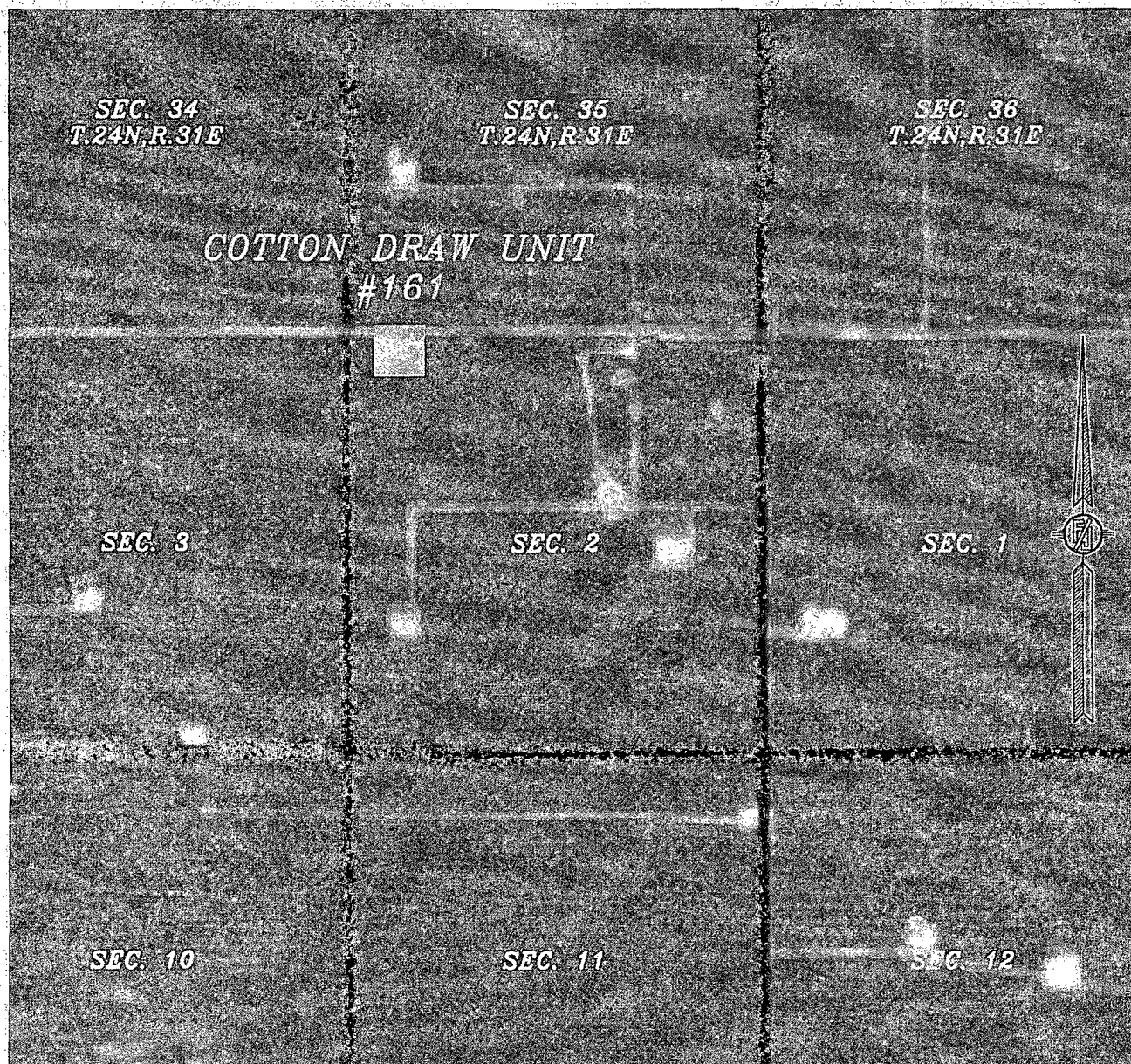
NOVEMBER 24, 2010

SURVEY NO. 333

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

AERIAL PHOTO



NOT TO SCALE
AERIAL PHOTO:
GOOGLE EARTH
USDA - AUG, 2009

DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT #161

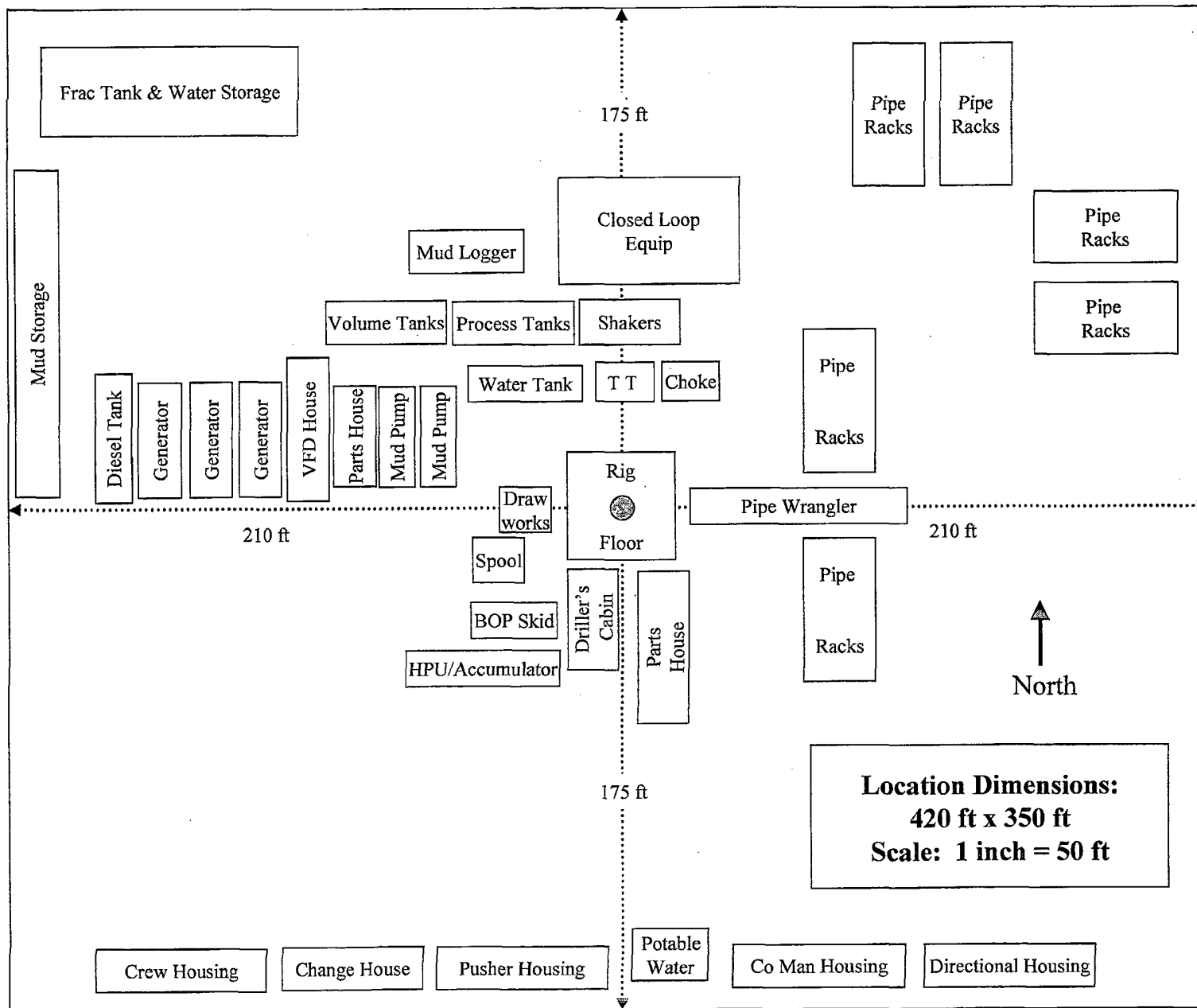
LOCATED 200 FT. FROM THE NORTH LINE
AND 440 FT. FROM THE WEST LINE OF
SECTION 2, TOWNSHIP 25 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

NOVEMBER 24, 2010

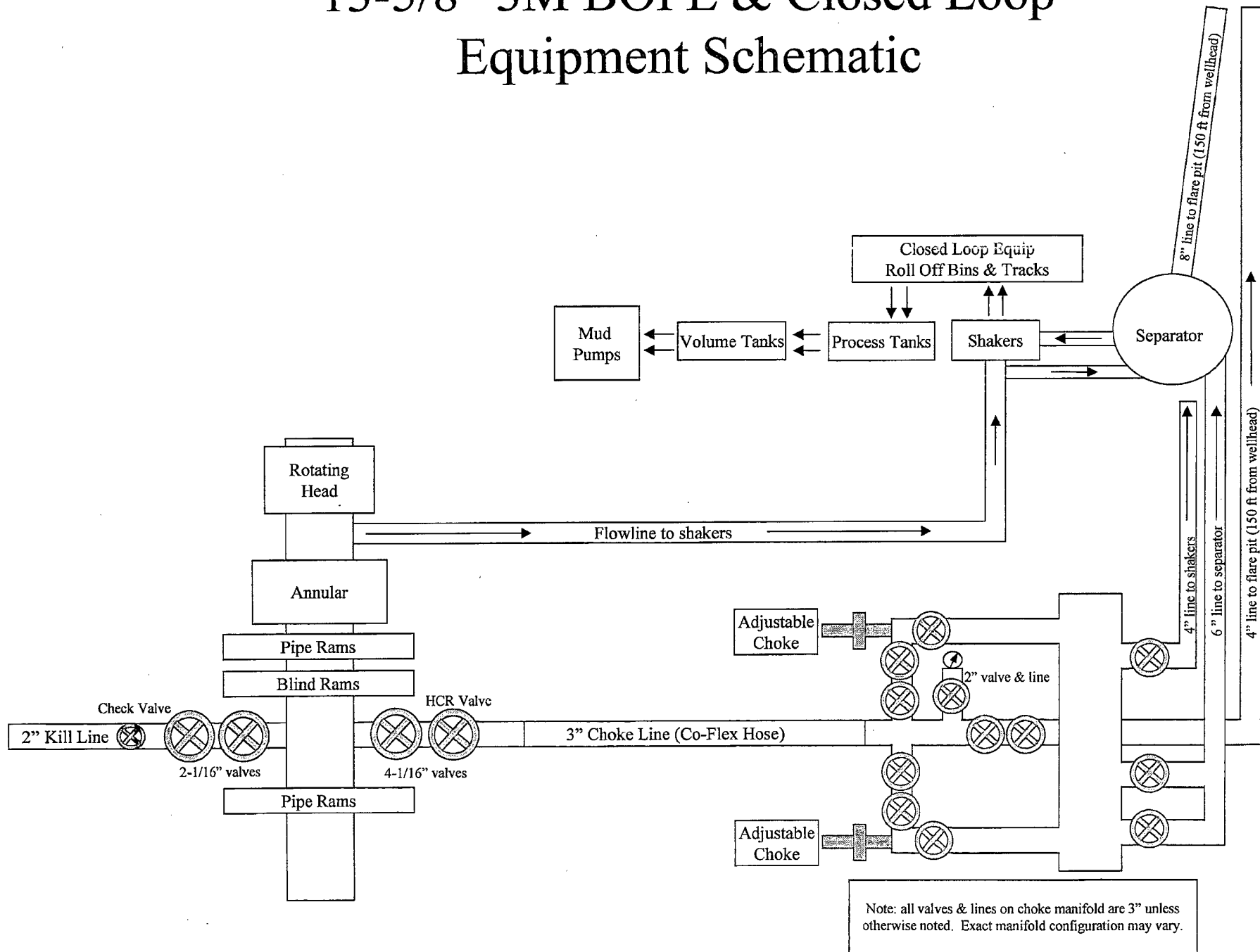
SURVEY NO. 333

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO
(575) 887-5830

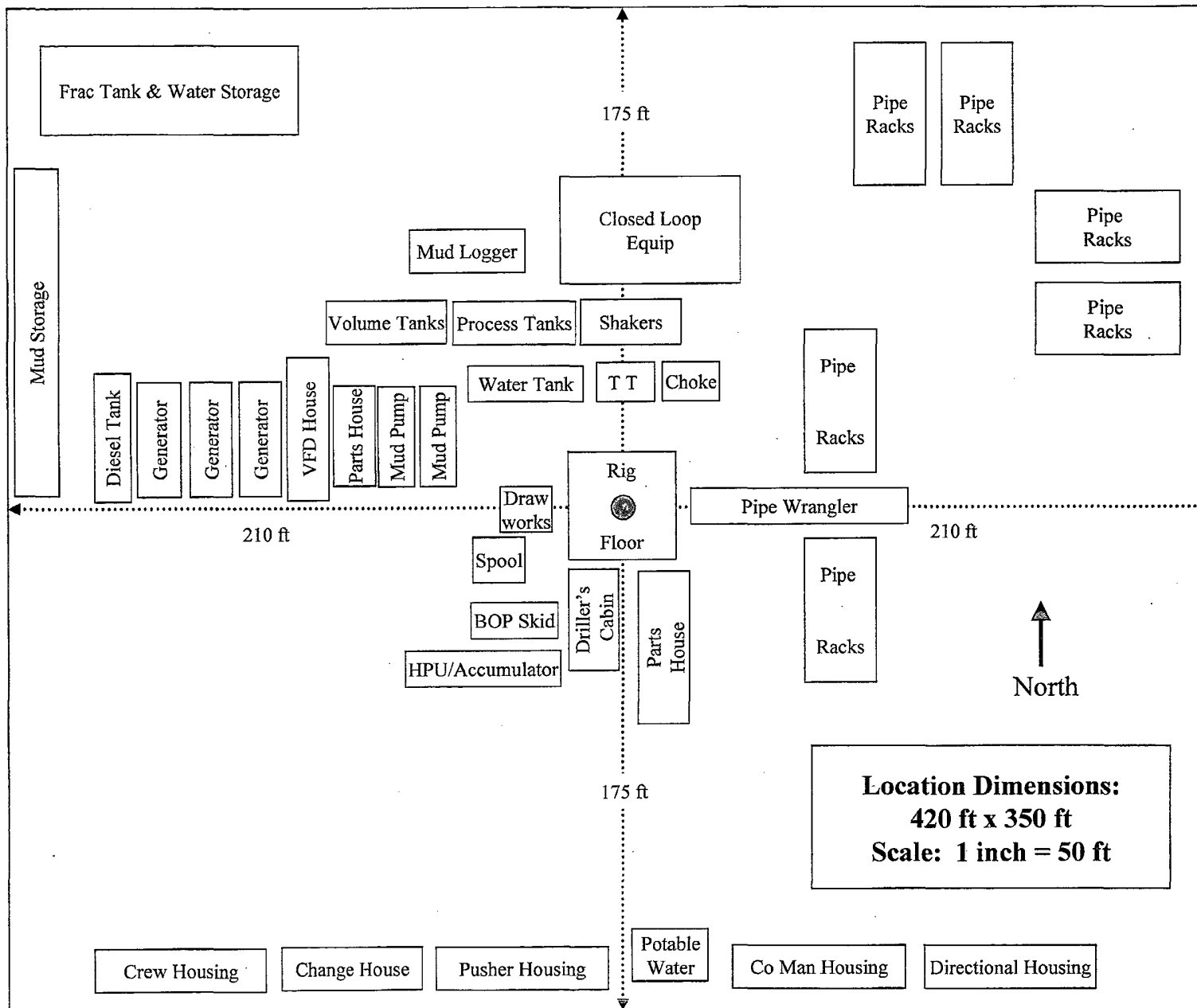
H&P Flex Rig Location Layout



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



H&P Flex Rig Location Layout





Weatherford®

RECEIVED

JAN 24 2011

NMOCD ARTESIA

Drilling Services

Proposal



devon

COTTON DRAW UNIT #161H

EDDY COUNTY, NM

WELL FILE: PLAN 1

JANUARY 20, 2011

Weatherford International, Ltd.

P.O. Box 61028

Midland, TX 79711 USA

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+1.432.561.8895 Fax

www.weatherford.com

devon

Cotton Draw #161H Eddy Co., New Mexico

KB ELEV: 3483
GL ELEV: 3458

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	177.26	0.00	0.00	0.00	0.00	0.00	0.00	
2	7655.06	0.00	177.26	7655.06	0.00	0.00	0.00	177.26	0.00	
3	8550.55	89.55	177.26	8228.00	-567.80	27.18	10.00	177.26	568.45	
4	12871.12	89.55	177.26	8262.00	-4883.29	233.77	0.00	0.00	4888.88	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
161H	0.00	0.00	424624.19	720062.93	32°09'57.777N	103°45'20.675W	N/A

TARGET DETAILS

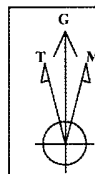
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8262.00	-4883.29	233.77	419740.90	720296.70	Point

FIELD DETAILS

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

SITE DETAILS

Cotton Draw Unit 161H
Site Centre Northing: 424624.19
Easting: 720062.93
Ground Level: 3458.00
Positional Uncertainty: 0.00
Convergence: 0.31



Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.31°

Magnetic Field
Strength: 48545nT
Dip Angle: 60.09°
Date: 11/15/2011
Model: IGRF2010

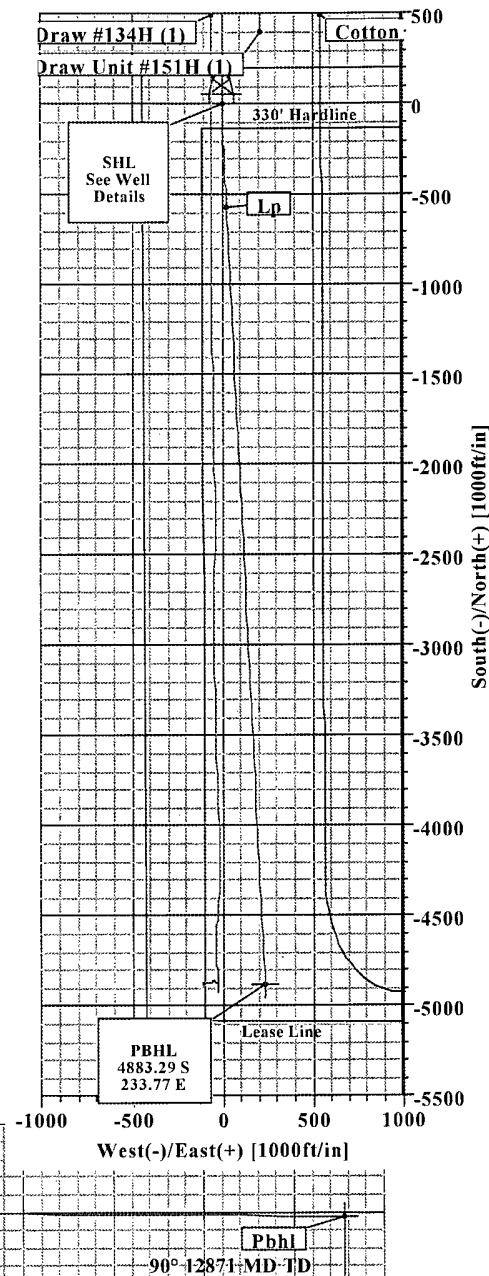
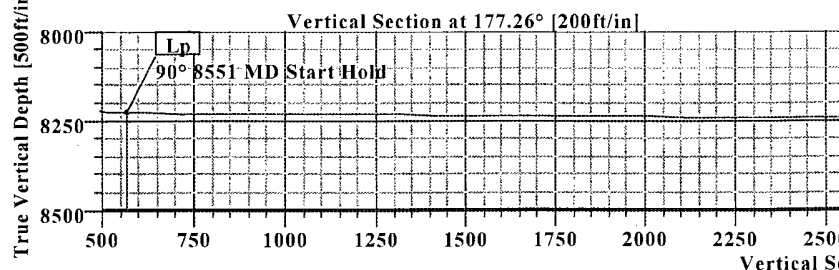
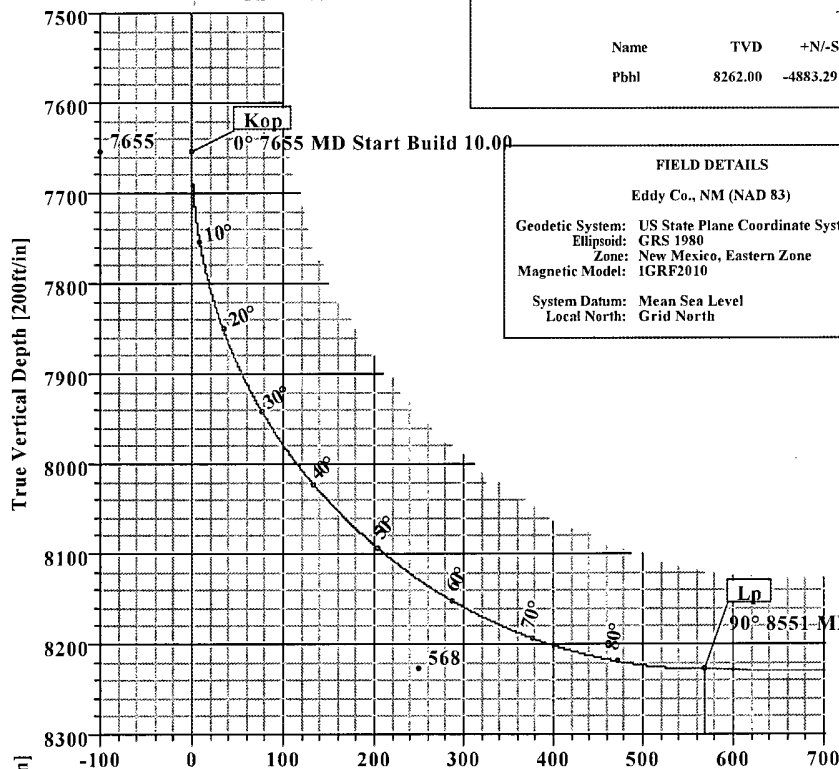
Total Correction to Grid North: 7.31°

LEGEND

- Cotton Draw #134H (1)
- Cotton Draw Unit #135H (1)
- Cotton Draw Unit #151H (1)
- Plan #1



Weatherford



Plan: Plan #1 (161H/1)

Created By: Russell W. Joyner

Date: 1/20/2011



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	1/20/2011	Time:	12:57:12	Page:	1
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 161H, Grid North				
Site:	Cotton Draw Unit 161H	Vertical (TVD) Reference:	SITE 3483.0				
Well:	161H	Section (VS) Reference:	Well (0.00N,0.00E;177.26Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Plan:	Plan #1	Date Composed:	1/20/2011
Principal:	Yes	Version:	1
		Tied-to:	From Surface

Field: Eddy Co., NM (NAD 83)

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

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

Site: Cotton Draw Unit 161H

Site Position:		Northing:	424624.19 ft	Latitude:	32 9 57.777 N
From: Map		Easting:	720062.93 ft	Longitude:	103 45 20.675 W
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	3458.00 ft			Grid Convergence:	0.31 deg

Well:	161H	Slot Name:	
Well Position:	+N/-S 0.00 ft	Northing:	424624.19 ft
	+E/-W 0.00 ft	Easting:	720062.93 ft
Position Uncertainty:	0.00 ft	Latitude:	32 9 57.777 N
		Longitude:	103 45 20.675 W

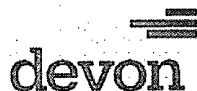
Wellpath:	1	Drilled From:	Surface
Current Datum:	SITE	Tie-on Depth:	0.00 ft
Magnetic Data:	11/15/2011	Above System Datum:	Mean Sea Level
Field Strength:	48545 nT	Declination:	7.62 deg
Vertical Section:	Depth From (TVD)	Mag Dip Angle:	60.09 deg
	ft	+E/-W	Direction
		ft	deg
	8262.00	0.00	0.00
			177.26

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	177.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7655.06	0.00	177.26	7655.06	0.00	0.00	0.00	0.00	0.00	177.26	
8550.55	89.55	177.26	8228.00	-567.80	27.18	10.00	10.00	0.00	177.26	
12871.12	89.55	177.26	8262.00	-4883.29	233.77	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	177.26	7600.00	0.00	0.00	0.00	0.00	424624.19	720062.93	Kop
7655.06	0.00	177.26	7655.06	0.00	0.00	0.00	0.00	424624.19	720062.93	
7700.00	4.49	177.26	7699.95	-1.76	0.08	1.76	10.00	424622.43	720063.01	
7800.00	14.49	177.26	7798.46	-18.21	0.87	18.24	10.00	424605.98	720063.80	
7900.00	24.49	177.26	7892.61	-51.50	2.47	51.56	10.00	424572.69	720065.40	
8000.00	34.49	177.26	7979.54	-100.62	4.82	100.73	10.00	424523.57	720067.75	Lp
8100.00	44.49	177.26	8056.61	-164.07	7.85	164.25	10.00	424460.12	720070.78	
8200.00	54.49	177.26	8121.48	-239.92	11.49	240.19	10.00	424384.27	720074.42	
8300.00	64.49	177.26	8172.18	-325.87	15.60	326.24	10.00	424298.32	720078.53	
8400.00	74.49	177.26	8207.16	-419.30	20.07	419.78	10.00	424204.89	720083.00	
8500.00	84.49	177.26	8225.37	-517.39	24.77	517.98	10.00	424106.80	720087.70	
8550.55	89.55	177.26	8228.00	-567.80	27.18	568.45	10.00	424056.39	720090.11	
8600.00	89.55	177.26	8228.39	-617.19	29.55	617.90	0.00	424007.00	720092.48	
8700.00	89.55	177.26	8229.18	-717.07	34.33	717.89	0.00	423907.12	720097.26	
8800.00	89.55	177.26	8229.96	-816.95	39.11	817.89	0.00	423807.24	720102.04	
8900.00	89.55	177.26	8230.75	-916.84	43.89	917.89	0.00	423707.35	720106.82	
9000.00	89.55	177.26	8231.54	-1016.72	48.67	1017.88	0.00	423607.47	720111.60	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	1/20/2011	Time:	12:57:12	Page:	2
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 161H, Grid North				
Site:	Cotton Draw Unit 161H	Vertical (TVD) Reference:	SITE 3483.0				
Well:	161H	Section (VS) Reference:	Well (0.00N,0.00E,177.26Azi)				
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	89.55	177.26	8232.32	-1116.60	53.45	1117.88	0.00	423507.59	720116.38	
9200.00	89.55	177.26	8233.11	-1216.48	58.23	1217.88	0.00	423407.71	720121.16	
9300.00	89.55	177.26	8233.90	-1316.37	63.02	1317.87	0.00	423307.82	720125.95	
9400.00	89.55	177.26	8234.68	-1416.25	67.80	1417.87	0.00	423207.94	720130.73	
9500.00	89.55	177.26	8235.47	-1516.13	72.58	1517.87	0.00	423108.06	720135.51	
9600.00	89.55	177.26	8236.26	-1616.01	77.36	1617.87	0.00	423008.18	720140.29	
9700.00	89.55	177.26	8237.05	-1715.90	82.14	1717.86	0.00	422908.29	720145.07	
9800.00	89.55	177.26	8237.83	-1815.78	86.92	1817.86	0.00	422808.41	720149.85	
9900.00	89.55	177.26	8238.62	-1915.66	91.71	1917.86	0.00	422708.53	720154.64	
10000.00	89.55	177.26	8239.41	-2015.54	96.49	2017.85	0.00	422608.65	720159.42	
10100.00	89.55	177.26	8240.19	-2115.43	101.27	2117.85	0.00	422508.76	720164.20	
10200.00	89.55	177.26	8240.98	-2215.31	106.05	2217.85	0.00	422408.88	720168.98	
10300.00	89.55	177.26	8241.77	-2315.19	110.83	2317.84	0.00	422309.00	720173.76	
10400.00	89.55	177.26	8242.55	-2415.07	115.61	2417.84	0.00	422209.12	720178.54	
10500.00	89.55	177.26	8243.34	-2514.96	120.39	2517.84	0.00	422109.23	720183.32	
10600.00	89.55	177.26	8244.13	-2614.84	125.18	2617.83	0.00	422009.35	720188.11	
10700.00	89.55	177.26	8244.91	-2714.72	129.96	2717.83	0.00	421909.47	720192.89	
10800.00	89.55	177.26	8245.70	-2814.60	134.74	2817.83	0.00	421809.59	720197.67	
10900.00	89.55	177.26	8246.49	-2914.49	139.52	2917.83	0.00	421709.70	720202.45	
11000.00	89.55	177.26	8247.28	-3014.37	144.30	3017.82	0.00	421609.82	720207.23	
11100.00	89.55	177.26	8248.06	-3114.25	149.08	3117.82	0.00	421509.94	720212.01	
11200.00	89.55	177.26	8248.85	-3214.14	153.87	3217.82	0.00	421410.05	720216.80	
11300.00	89.55	177.26	8249.64	-3314.02	158.65	3317.81	0.00	421310.17	720221.58	
11400.00	89.55	177.26	8250.42	-3413.90	163.43	3417.81	0.00	421210.29	720226.36	
11500.00	89.55	177.26	8251.21	-3513.78	168.21	3517.81	0.00	421110.41	720231.14	
11600.00	89.55	177.26	8252.00	-3613.67	172.99	3617.80	0.00	421010.52	720235.92	
11700.00	89.55	177.26	8252.78	-3713.55	177.77	3717.80	0.00	420910.64	720240.70	
11800.00	89.55	177.26	8253.57	-3813.43	182.55	3817.80	0.00	420810.76	720245.48	
11900.00	89.55	177.26	8254.36	-3913.31	187.34	3917.79	0.00	420710.88	720250.27	
12000.00	89.55	177.26	8255.14	-4013.20	192.12	4017.79	0.00	420610.99	720255.05	
12100.00	89.55	177.26	8255.93	-4113.08	196.90	4117.79	0.00	420511.11	720259.83	
12200.00	89.55	177.26	8256.72	-4212.96	201.68	4217.78	0.00	420411.23	720264.61	
12300.00	89.55	177.26	8257.51	-4312.84	206.46	4317.78	0.00	420311.35	720269.39	
12400.00	89.55	177.26	8258.29	-4412.73	211.24	4417.78	0.00	420211.46	720274.17	
12500.00	89.55	177.26	8259.08	-4512.61	216.02	4517.78	0.00	420111.58	720278.95	
12600.00	89.55	177.26	8259.87	-4612.49	220.81	4617.77	0.00	420011.70	720283.74	
12700.00	89.55	177.26	8260.65	-4712.37	225.59	4717.77	0.00	419911.82	720288.52	
12800.00	89.55	177.26	8261.44	-4812.26	230.37	4817.77	0.00	419811.93	720293.30	
12871.12	89.55	177.26	8262.00	-4883.29	233.77	4888.88	0.00	419740.90	720296.70	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			8262.00	-4883.29	233.77	419740.90	720296.70	32	9	9.442 N	103	45	18.261 W



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company:	Devon Energy	Date:	1/20/2011	Time:	12:57:12	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 161H, Grid North				
Site:	Cotton Draw Unit 161H	Vertical (TVD) Reference:	SITE 3483.0				
Well:	161H	Section (VS) Reference:	Well (0.00N,0.00E,177.26Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7655.06	7655.06	Kop
8550.55	8228.00	Lp
12871.11	8262.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 1/20/2011 Time: 13:13:50 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H Co-ordinate(NE) Reference: Well: 161H, Grid North
Reference Well: 161H Vertical (TVD) Reference: SITE 3483.0
Reference Wellpath: 1 Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method: MD Interval: 100.00 ft
Depth Range: 0.00 to 12871.12 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: 1/20/2011

Principal: Yes

Version: 1

Tied-to: From Surface

Summary

Site	Offset Wellpath	Well	Wellpath	Reference MD ft	Offset MD ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
Cotton Draw #134H	Cotton Draw #134H	1 V1		12871.12	8221.22	264.05	170.46	2.82	
Cotton Draw Unit #13	Cotton Draw Unit #131	V0 Plan: Plan #1 V1		12871.12	8820.77	741.97	650.41	8.10	
Cotton Draw Unit #15	Cotton Draw Unit #151	V0 Plan: Plan #1 V1		8100.00	12821.03	622.60	533.04	6.95	

Site: Cotton Draw #134H

Well: Cotton Draw #134H

Wellpath: 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	181.13	-4880.77	-96.12	4881.88			No Data
100.00	100.00	40.77	40.77	0.08	0.01	181.13	-4880.85	-96.21	4881.84	4881.75	55068.28	
200.00	200.00	111.97	111.97	0.31	0.03	181.14	-4881.37	-96.80	4882.57	4882.25	15208.07	
300.00	300.00	211.78	211.76	0.53	0.10	181.15	-4882.35	-97.92	4883.58	4882.97	8109.60	
400.00	400.00	317.45	317.42	0.76	0.16	181.16	-4883.31	-99.20	4884.51	4883.64	5589.98	
500.00	500.00	420.53	420.49	0.98	0.23	181.18	-4884.16	-100.55	4885.36	4884.22	4278.14	
600.00	600.00	523.65	523.59	1.21	0.30	181.20	-4884.95	-101.98	4886.15	4884.74	3470.35	
700.00	700.00	629.13	629.07	1.43	0.38	181.21	-4885.67	-103.50	4886.87	4885.19	2921.83	
800.00	800.00	744.72	744.64	1.66	0.45	181.23	-4886.22	-105.11	4887.37	4885.44	2527.83	
900.00	900.00	860.96	860.87	1.88	0.53	181.25	-4886.34	-106.66	4887.50	4885.32	2241.59	
1000.00	1000.00	972.98	972.88	2.11	0.60	181.27	-4886.17	-107.91	4887.38	4884.97	2032.38	
1100.00	1100.00	1078.31	1078.21	2.33	0.66	181.28	-4885.80	-108.95	4887.05	4884.44	1870.84	
1200.00	1200.00	1200.57	1200.46	2.56	0.71	181.29	-4885.10	-109.88	4886.50	4883.72	1754.09	
1300.00	1300.00	1308.74	1308.63	2.78	0.72	181.29	-4884.12	-110.22	4885.60	4882.69	1675.96	
1400.00	1400.00	1422.73	1422.61	3.01	0.70	181.29	-4882.87	-109.94	4884.50	4881.46	1605.55	
1500.00	1500.00	1545.16	1545.02	3.23	0.67	181.28	-4881.01	-109.07	4882.96	4879.66	1480.85	
1600.00	1600.00	1661.43	1661.27	3.46	0.65	181.27	-4878.84	-108.11	4881.08	4877.47	1353.12	
1700.00	1700.00	1761.24	1761.05	3.68	0.63	181.26	-4876.74	-106.90	4878.95	4875.05	1250.16	
1800.00	1800.00	1853.69	1853.47	3.91	0.60	181.24	-4874.96	-105.24	4876.98	4872.80	1168.30	
1900.00	1900.00	1950.66	1950.39	4.13	0.57	181.21	-4873.20	-103.05	4875.12	4870.69	1100.31	
2000.00	2000.00	2039.28	2038.98	4.35	0.53	181.19	-4871.66	-100.97	4873.33	4868.66	1042.37	
2100.00	2100.00	2122.60	2122.26	4.58	0.50	181.16	-4870.54	-98.85	4871.94	4867.03	992.29	
2200.00	2200.00	2219.77	2219.39	4.80	0.46	181.13	-4869.35	-96.36	4870.66	4865.52	949.18	
2300.00	2300.00	2300.00	2299.59	5.03	0.42	181.11	-4868.59	-94.19	4869.65	4864.31	910.62	
2400.00	2400.00	2392.81	2392.36	5.25	0.37	181.08	-4867.97	-91.45	4868.93	4863.38	877.72	
2500.00	2500.00	2479.78	2479.28	5.48	0.32	181.04	-4867.56	-88.71	4868.40	4862.66	848.11	
2600.00	2600.00	2572.50	2571.96	5.70	0.26	181.01	-4867.34	-85.84	4868.11	4862.19	822.56	
2700.00	2700.00	2658.06	2657.48	5.93	0.20	180.98	-4867.28	-83.35	4868.00	4861.91	800.40	
2800.00	2800.00	2753.29	2752.68	6.15	0.16	180.95	-4867.50	-80.64	4868.18	4861.93	779.87	
2900.00	2900.00	2859.03	2858.39	6.38	0.20	180.92	-4867.64	-78.04	4868.26	4861.73	744.76	
3000.00	3000.00	2965.52	2964.85	6.60	0.28	180.89	-4867.67	-75.55	4868.25	4861.41	711.73	
3100.00	3100.00	3068.97	3068.27	6.83	0.36	180.86	-4867.56	-73.26	4868.11	4860.99	683.93	
3200.00	3200.00	3182.02	3181.28	7.05	0.45	180.83	-4867.31	-70.32	4867.86	4860.47	658.81	
3300.00	3300.00	3291.64	3290.84	7.28	0.52	180.78	-4866.77	-66.62	4867.32	4859.66	635.92	
3400.00	3400.00	3398.26	3397.40	7.50	0.58	180.74	-4866.08	-63.18	4866.63	4858.71	614.66	
3500.00	3500.00	3509.14	3508.23	7.73	0.65	180.71	-4865.15	-60.14	4865.75	4857.57	594.59	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy Date: 1/20/2011 Time: 13:13:50 Page: 2
Field: Eddy Co. NM (NAD 83)
Reference Site: Cotton Draw Unit 161H Co-ordinate(NE) Reference: Well: 161H, Grid North
Reference Well: 161H Vertical (TVD) Reference: SITE 3483.0
Reference Wellpath: 1 Db: Sybase

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 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		
3600.00	3600.00	3611.62	3610.67	7.95	0.72	180.68	-4864.13	-57.51	4864.72	4856.28	576.16	
3700.00	3700.00	3697.33	3696.34	8.18	0.79	180.65	-4863.40	-54.95	4863.84	4855.15	559.52	
3800.00	3800.00	3787.84	3786.79	8.40	0.85	180.61	-4862.86	-51.81	4863.20	4854.27	544.14	
3900.00	3900.00	3869.68	3868.57	8.63	0.90	180.57	-4862.59	-48.75	4862.84	4853.66	530.19	
4000.00	4000.00	3935.37	3934.22	8.85	0.93	180.54	-4862.68	-46.24	4862.97	4853.58	517.95	
4100.00	4100.00	4000.00	3998.80	9.07	0.96	180.52	-4863.37	-43.84	4863.96	4854.37	506.89	
4200.00	4200.00	13728.19	8958.43	9.30	86.18	314.94	58.36	-58.49	4798.65	4748.49	95.67	
4300.00	4300.00	13727.31	8958.44	9.52	86.17	314.50	57.48	-58.50	4698.66	4648.28	93.27	
4400.00	4400.00	13726.41	8958.46	9.75	86.15	314.04	56.59	-58.52	4598.68	4548.08	90.89	
4500.00	4500.00	13725.51	8958.47	9.97	86.14	313.57	55.68	-58.53	4498.69	4447.87	88.53	
4600.00	4600.00	13724.59	8958.48	10.20	86.12	313.09	54.77	-58.54	4398.71	4347.67	86.19	
4700.00	4700.00	13723.67	8958.49	10.42	86.11	312.60	53.85	-58.56	4298.72	4247.47	83.87	
4800.00	4800.00	13722.73	8958.50	10.65	86.09	312.09	52.91	-58.57	4198.74	4147.27	81.57	
4900.00	4900.00	13721.79	8958.51	10.87	86.08	311.57	51.96	-58.58	4098.76	4047.07	79.29	
5000.00	5000.00	13720.83	8958.52	11.10	86.06	311.04	51.00	-58.60	3998.78	3946.86	77.03	
5100.00	5100.00	13719.86	8958.54	11.32	86.04	310.49	50.03	-58.61	3898.80	3846.66	74.78	
5200.00	5200.00	13718.88	8958.55	11.55	86.03	309.92	49.05	-58.63	3798.82	3746.46	72.56	
5300.00	5300.00	13717.88	8958.56	11.77	86.01	309.34	48.06	-58.64	3698.84	3646.27	70.36	
5400.00	5400.00	13716.88	8958.57	12.00	85.99	308.74	47.05	-58.65	3598.86	3546.07	68.17	
5500.00	5500.00	13715.86	8958.59	12.22	85.98	308.12	46.04	-58.67	3498.88	3445.87	66.00	
5600.00	5600.00	13714.83	8958.60	12.45	85.96	307.49	45.01	-58.68	3398.91	3345.67	63.85	
5700.00	5700.00	13713.78	8958.61	12.67	85.94	306.83	43.96	-58.69	3298.93	3245.48	61.72	
5800.00	5800.00	13712.73	8958.63	12.90	85.92	306.16	42.91	-58.71	3198.95	3145.29	59.60	
5900.00	5900.00	13711.66	8958.64	13.12	85.91	305.47	41.84	-58.72	3098.98	3045.09	57.51	
6000.00	6000.00	13710.57	8958.66	13.35	85.89	304.75	40.75	-58.73	2999.01	2944.90	55.43	
6100.00	6100.00	13709.48	8958.67	13.57	85.87	304.02	39.65	-58.75	2899.04	2844.71	53.36	
6200.00	6200.00	13708.36	8958.69	13.80	85.85	303.26	38.54	-58.76	2799.07	2744.52	51.31	
6300.00	6300.00	13707.24	8958.70	14.02	85.83	302.48	37.42	-58.78	2699.10	2644.33	49.28	
6400.00	6400.00	13706.10	8958.72	14.24	85.81	301.68	36.27	-58.79	2599.14	2544.15	47.27	
6500.00	6500.00	13704.94	8958.73	14.47	85.79	300.85	35.12	-58.80	2499.17	2443.96	45.27	
6600.00	6600.00	13703.77	8958.75	14.69	85.77	299.99	33.95	-58.82	2399.21	2343.78	43.28	
6700.00	6700.00	13702.58	8958.77	14.92	85.75	299.11	32.76	-58.83	2299.25	2243.60	41.32	
6800.00	6800.00	13701.38	8958.78	15.14	85.73	298.20	31.56	-58.84	2199.30	2143.43	39.36	
6900.00	6900.00	13700.16	8958.80	15.37	85.71	297.27	30.34	-58.85	2099.34	2043.25	37.43	
7000.00	7000.00	13698.92	8958.82	15.59	85.69	296.31	29.10	-58.87	1999.40	1943.08	35.50	
7100.00	7100.00	13697.67	8958.84	15.82	85.67	295.31	27.85	-58.88	1899.45	1842.91	33.60	
7200.00	7200.00	13696.40	8958.85	16.04	85.65	294.29	26.58	-58.89	1799.51	1742.75	31.70	
7300.00	7300.00	13695.11	8958.87	16.27	85.63	293.24	25.29	-58.91	1699.58	1642.59	29.82	
7400.00	7400.00	13693.80	8958.89	16.49	85.60	292.15	23.99	-58.92	1599.66	1542.44	27.96	
7500.00	7500.00	13692.48	8958.91	16.72	85.58	291.03	22.66	-58.93	1499.74	1442.29	26.11	
7600.00	7600.00	13691.14	8958.93	16.94	85.56	289.88	21.32	-58.94	1399.84	1342.16	24.27	
7700.00	7699.95	13688.16	8958.98	17.17	85.51	155.03	18.34	-58.97	1300.02	1242.15	22.46	
7800.00	7798.46	13671.61	8959.24	17.40	85.23	169.64	1.79	-59.09	1201.94	1144.28	20.84	
7900.00	7892.61	13639.09	8959.81	17.65	84.68	172.81	-30.72	-59.17	1108.61	1051.63	19.45	
8000.00	7979.54	13584.13	8960.72	17.94	83.72	173.90	-85.67	-59.35	1022.80	966.95	18.31	
8100.00	8056.61	13510.96	8961.50	18.30	82.45	174.22	-158.84	-60.04	946.84	892.46	17.41	
8200.00	8121.48	13419.00	8961.05	18.75	80.84	174.17	-250.79	-60.68	882.09	829.44	16.75	
8300.00	8172.18	13331.69	8959.60	19.33	79.33	174.08	-338.09	-60.87	830.54	779.56	16.29	
8400.00	8207.16	13258.62	8959.41	20.04	78.06	173.99	-411.16	-61.09	795.94	746.31	16.04	
8500.00	8225.37	13155.98	8960.23	20.88	76.28	173.64	-513.79	-61.51	779.16	730.61	16.05	
8600.00	8228.39	13058.06	8960.97	21.82	74.59	173.37	-611.70	-60.52	777.33	729.25	16.17	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 3

Co-ordinate(NE) Reference: Well: 161H, Grid North
Vertical (TVD) Reference: SITE 3483.0
Db: Sybase

Site: Cotton Draw #134H
Well: Cotton Draw #134H
Wellpath: 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		
8700.00	8229.18	12949.82	8961.33	22.87	72.72	173.13	-719.92	-58.64		777.24	729.48	16.27	
8800.00	8229.96	12847.06	8960.84	24.01	70.94	172.86	-822.67	-57.21		776.39	728.86	16.33	
8900.00	8230.75	12746.53	8960.31	25.24	69.19	172.57	-923.20	-56.17		775.57	728.19	16.37	
9000.00	8231.54	12643.11	8959.24	26.54	67.41	172.27	-1026.60	-55.15		774.26	727.02	16.39	
9100.00	8232.32	12552.56	8958.36	27.90	65.86	171.95	-1117.15	-54.98		773.18	725.92	16.36	
9200.00	8233.11	12456.51	8959.21	29.32	64.18	171.65	-1213.19	-54.38		773.85	726.60	16.38	
9300.00	8233.90	12343.48	8958.73	30.78	62.18	171.36	-1326.20	-52.82		773.12	725.96	16.39	
9400.00	8234.68	12238.01	8957.28	32.28	60.33	171.12	-1431.65	-50.71		771.41	724.28	16.37	
9500.00	8235.47	12151.40	8956.40	33.81	58.83	170.95	-1518.23	-48.58		770.02	722.77	16.30	
9600.00	8236.26	12068.70	8957.41	35.37	57.39	170.80	-1600.90	-46.70		770.85	723.46	16.26	
9700.00	8237.05	11972.70	8960.19	36.96	55.72	170.58	-1696.85	-45.45		773.48	725.97	16.28	
9800.00	8237.83	11869.41	8962.72	38.57	53.93	170.38	-1800.09	-43.56		775.61	728.01	16.30	
9900.00	8238.62	11780.20	8965.16	40.20	52.39	170.19	-1889.25	-42.21		778.11	730.33	16.29	
10000.00	8239.41	11677.93	8969.15	41.85	50.62	169.89	-1991.45	-42.07		781.99	734.03	16.31	
10100.00	8240.19	11551.07	8971.08	43.51	48.42	169.50	-2118.28	-41.59		783.53	735.47	16.30	
10200.00	8240.98	11461.54	8971.45	45.19	46.89	169.22	-2207.81	-41.08		783.94	735.59	16.21	
10300.00	8241.77	11366.92	8972.81	46.88	45.26	168.94	-2302.42	-40.56		785.38	736.75	16.15	
10400.00	8242.55	11235.42	8972.14	48.58	42.99	168.46	-2433.90	-40.63		785.02	736.22	16.09	
10500.00	8243.34	11135.78	8968.82	50.30	41.28	167.99	-2533.49	-41.64		782.17	732.99	15.90	
10600.00	8244.13	11052.74	8967.38	52.02	39.85	167.49	-2616.47	-44.15		781.32	731.60	15.71	
10700.00	8244.91	10961.78	8967.05	53.75	38.32	166.98	-2707.39	-46.69		781.88	731.65	15.57	
10800.00	8245.70	10871.18	8968.38	55.48	36.76	166.58	-2797.97	-48.14		783.99	733.28	15.46	
10900.00	8246.49	10763.35	8970.08	57.23	34.86	166.23	-2905.78	-48.19		785.89	734.80	15.38	
11000.00	8247.28	10654.85	8971.15	58.97	32.96	165.94	-3014.27	-47.05		786.99	735.53	15.29	
11100.00	8248.06	10559.15	8971.65	60.73	31.30	165.81	-3109.93	-44.33		787.23	735.39	15.19	
11200.00	8248.85	10463.73	8973.74	62.49	29.64	165.76	-3205.26	-40.76		788.83	736.65	15.12	
11300.00	8249.64	10372.77	8975.97	64.25	28.06	165.77	-3296.10	-36.70		790.56	738.01	15.05	
11400.00	8250.42	10250.84	8978.95	66.02	25.97	165.51	-3417.97	-35.03		793.26	740.32	14.98	
11500.00	8251.21	10140.64	8977.36	67.80	24.09	165.13	-3528.15	-34.58		792.18	738.69	14.81	
11600.00	8252.00	10044.08	8976.19	69.57	22.50	164.89	-3624.69	-32.88		791.03	737.00	14.64	
11700.00	8252.78	9958.86	8976.39	71.35	21.70	164.76	-3709.87	-30.61		791.06	736.44	14.48	
11800.00	8253.57	9864.54	8978.07	73.13	21.41	164.67	-3804.13	-27.60		792.43	737.27	14.37	
11900.00	8254.36	9752.55	8979.66	74.92	21.16	164.59	-3916.04	-23.65		793.38	737.72	14.25	
12000.00	8255.14	9649.14	8980.24	76.71	20.94	164.56	-4019.35	-19.00		793.23	737.04	14.12	
12100.00	8255.93	9555.97	8980.98	78.50	20.77	164.56	-4112.41	-14.59		793.26	736.49	13.97	
12200.00	8256.72	9462.80	8981.72	80.29	19.60	164.56	-4205.47	-10.08		793.28	735.94	13.82	
12300.00	8257.51	9369.63	8982.46	82.09	18.43	164.56	-4298.53	-6.57		793.28	735.39	13.67	
12400.00	8258.29	9276.46	8983.20	83.89	17.26	164.56	-4391.59	-3.06		793.26	734.84	13.52	
12500.00	8259.08	9183.29	8983.94	85.69	16.09	164.56	-4484.65	0.45		793.23	734.29	13.37	
12600.00	8259.87	9090.12	8984.68	87.49	14.92	164.56	-4577.71	3.94		793.18	733.74	13.22	
12700.00	8260.65	9000.00	8985.42	89.29	13.75	164.56	-4670.77	7.43		793.11	733.19	13.07	
12800.00	8261.44	8910.00	8986.16	91.10	12.58	164.56	-4763.83	10.92		793.03	732.64	12.92	
12871.12	8262.00	8820.00	8986.90	92.38	11.41	164.56	-4856.89	14.41		792.94	732.09	12.77	

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		
0.00	0.00	0.00	0.00	0.00	0.00	166.50	-4890.03	1173.87		5029.09			No Data
100.00	100.00	63.00	63.00	0.08	0.05	166.50	-4890.03	1173.87		5028.95	5028.82	36603.96	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 4

Co-ordinate(NE) Reference: Well: 161H, Grid North
Vertical (TVD) Reference: SITE 3483.0
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	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft		
200.00	200.00	163.00	163.00	0.31	0.23	166.50	-4890.03	1173.87	5028.95	5028.42	9400.91
300.00	300.00	263.00	263.00	0.53	0.45	166.50	-4890.03	1173.87	5028.95	5027.97	5108.26
400.00	400.00	363.00	363.00	0.76	0.68	166.50	-4890.03	1173.87	5028.95	5027.52	3506.92
500.00	500.00	463.00	463.00	0.98	0.90	166.50	-4890.03	1173.87	5028.95	5027.07	2669.95
600.00	600.00	563.00	563.00	1.21	1.12	166.50	-4890.03	1173.87	5028.95	5026.62	2155.51
700.00	700.00	663.00	663.00	1.43	1.35	166.50	-4890.03	1173.87	5028.95	5026.17	1807.28
800.00	800.00	763.00	763.00	1.66	1.57	166.50	-4890.03	1173.87	5028.95	5025.72	1555.92
900.00	900.00	863.00	863.00	1.88	1.80	166.50	-4890.03	1173.87	5028.95	5025.27	1365.94
1000.00	1000.00	963.00	963.00	2.11	2.02	166.50	-4890.03	1173.87	5028.95	5024.82	1217.31
1100.00	1100.00	1063.00	1063.00	2.33	2.25	166.50	-4890.03	1173.87	5028.95	5024.37	1097.85
1200.00	1200.00	1163.00	1163.00	2.56	2.47	166.50	-4890.03	1173.87	5028.95	5023.92	999.74
1300.00	1300.00	1263.00	1263.00	2.78	2.70	166.50	-4890.03	1173.87	5028.95	5023.47	917.73
1400.00	1400.00	1363.00	1363.00	3.01	2.92	166.50	-4890.03	1173.87	5028.95	5023.02	848.15
1500.00	1500.00	1463.00	1463.00	3.23	3.15	166.50	-4890.03	1173.87	5028.95	5022.57	788.38
1600.00	1600.00	1563.00	1563.00	3.46	3.37	166.50	-4890.03	1173.87	5028.95	5022.12	736.48
1700.00	1700.00	1663.00	1663.00	3.68	3.60	166.50	-4890.03	1173.87	5028.95	5021.67	690.99
1800.00	1800.00	1763.00	1763.00	3.91	3.82	166.50	-4890.03	1173.87	5028.95	5021.23	650.79
1900.00	1900.00	1863.00	1863.00	4.13	4.05	166.50	-4890.03	1173.87	5028.95	5020.78	615.01
2000.00	2000.00	1963.00	1963.00	4.35	4.27	166.50	-4890.03	1173.87	5028.95	5020.33	582.96
2100.00	2100.00	2063.00	2063.00	4.58	4.50	166.50	-4890.03	1173.87	5028.95	5019.88	554.09
2200.00	2200.00	2163.00	2163.00	4.80	4.72	166.50	-4890.03	1173.87	5028.95	5019.43	527.94
2300.00	2300.00	2263.00	2263.00	5.03	4.95	166.50	-4890.03	1173.87	5028.95	5018.98	504.15
2400.00	2400.00	2363.00	2363.00	5.25	5.17	166.50	-4890.03	1173.87	5028.95	5018.53	482.41
2500.00	2500.00	2463.00	2463.00	5.48	5.40	166.50	-4890.03	1173.87	5028.95	5018.08	462.47
2600.00	2600.00	2563.00	2563.00	5.70	5.62	166.50	-4890.03	1173.87	5028.95	5017.63	444.11
2700.00	2700.00	2663.00	2663.00	5.93	5.85	166.50	-4890.03	1173.87	5028.95	5017.18	427.15
2800.00	2800.00	2763.00	2763.00	6.15	6.07	166.50	-4890.03	1173.87	5028.95	5016.73	411.44
2900.00	2900.00	2863.00	2863.00	6.38	6.29	166.50	-4890.03	1173.87	5028.95	5016.28	396.85
3000.00	3000.00	2963.00	2963.00	6.60	6.52	166.50	-4890.03	1173.87	5028.95	5015.83	383.25
3100.00	3100.00	3063.00	3063.00	6.83	6.74	166.50	-4890.03	1173.87	5028.95	5015.38	370.56
3200.00	3200.00	3163.00	3163.00	7.05	6.97	166.50	-4890.03	1173.87	5028.95	5014.93	358.68
3300.00	3300.00	3263.00	3263.00	7.28	7.19	166.50	-4890.03	1173.87	5028.95	5014.48	347.53
3400.00	3400.00	3363.00	3363.00	7.50	7.42	166.50	-4890.03	1173.87	5028.95	5014.03	337.06
3500.00	3500.00	3463.00	3463.00	7.73	7.64	166.50	-4890.03	1173.87	5028.95	5013.58	327.20
3600.00	3600.00	3563.00	3563.00	7.95	7.87	166.50	-4890.03	1173.87	5028.95	5013.13	317.91
3700.00	3700.00	3663.00	3663.00	8.18	8.09	166.50	-4890.03	1173.87	5028.95	5012.68	309.12
3800.00	3800.00	3763.00	3763.00	8.40	8.32	166.50	-4890.03	1173.87	5028.95	5012.23	300.81
3900.00	3900.00	3863.00	3863.00	8.63	8.54	166.50	-4890.03	1173.87	5028.95	5011.78	292.93
4000.00	4000.00	3963.00	3963.00	8.85	8.77	166.50	-4890.03	1173.87	5028.95	5011.34	285.46
4100.00	4100.00	13834.03	8980.04	9.07	91.65	89.81	1.86	550.75	4947.79	4898.28	99.94
4200.00	4200.00	13834.03	8980.04	9.30	91.65	89.81	1.86	550.75	4848.42	4798.64	97.39
4300.00	4300.00	13834.03	8980.04	9.52	91.65	89.81	1.86	550.75	4749.08	4699.02	94.87
4400.00	4400.00	13834.03	8980.04	9.75	91.65	89.81	1.86	550.75	4649.77	4599.43	92.37
4500.00	4500.00	13834.03	8980.04	9.97	91.65	89.81	1.86	550.75	4550.49	4499.87	89.89
4600.00	4600.00	13834.03	8980.04	10.20	91.65	89.81	1.87	550.75	4451.24	4400.33	87.43
4700.00	4700.00	13834.03	8980.04	10.42	91.65	89.81	1.87	550.75	4352.03	4300.82	84.99
4800.00	4800.00	13834.03	8980.04	10.65	91.65	89.81	1.87	550.75	4252.85	4201.35	82.58
4900.00	4900.00	13834.03	8980.04	10.87	91.65	89.81	1.87	550.75	4153.71	4101.91	80.19
5000.00	5000.00	13834.03	8980.04	11.10	91.65	89.81	1.87	550.75	4054.62	4002.51	77.81
5100.00	5100.00	13834.04	8980.04	11.32	91.65	89.81	1.87	550.75	3955.57	3903.15	75.46
5200.00	5200.00	13834.04	8980.04	11.55	91.65	89.81	1.87	550.75	3856.57	3803.83	73.13



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 5

Co-ordinate(NE) Reference: Well: 161H; Grid North
Vertical (TVD) Reference: SITE 3483.0
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		
5300.00	5300.00	13834.04	8980.04	11.77	91.65	89.81	1.87	550.75	3757.62	3704.56	70.81	
5400.00	5400.00	13834.04	8980.04	12.00	91.65	89.81	1.87	550.75	3658.73	3605.33	68.52	
5500.00	5500.00	13834.04	8980.04	12.22	91.65	89.81	1.87	550.75	3559.90	3506.16	66.25	
5600.00	5600.00	13834.04	8980.04	12.45	91.65	89.81	1.87	550.75	3461.14	3407.05	63.99	
5700.00	5700.00	13834.04	8980.04	12.67	91.65	89.80	1.88	550.75	3362.45	3308.00	61.75	
5800.00	5800.00	13834.04	8980.04	12.90	91.65	89.80	1.88	550.75	3263.84	3209.02	59.54	
5900.00	5900.00	13834.04	8980.04	13.12	91.65	89.80	1.88	550.75	3165.32	3110.11	57.34	
6000.00	6000.00	13834.04	8980.04	13.35	91.65	89.80	1.88	550.75	3066.89	3011.29	55.15	
6100.00	6100.00	13834.04	8980.04	13.57	91.65	89.80	1.88	550.75	2968.57	2912.55	52.99	
6200.00	6200.00	13834.05	8980.04	13.80	91.65	89.80	1.88	550.75	2870.37	2813.91	50.84	
6300.00	6300.00	13834.05	8980.04	14.02	91.65	89.80	1.88	550.75	2772.29	2715.39	48.71	
6400.00	6400.00	13834.05	8980.04	14.24	91.65	89.80	1.88	550.75	2674.36	2616.97	46.60	
6500.00	6500.00	13834.05	8980.04	14.47	91.65	89.80	1.88	550.75	2576.59	2518.70	44.51	
6600.00	6600.00	13834.05	8980.04	14.69	91.65	89.80	1.88	550.75	2478.99	2420.57	42.43	
6700.00	6700.00	13834.05	8980.04	14.92	91.65	89.80	1.88	550.75	2381.59	2322.60	40.37	
6800.00	6800.00	13834.05	8980.04	15.14	91.65	89.80	1.88	550.75	2284.42	2224.82	38.33	
6900.00	6900.00	13834.05	8980.04	15.37	91.65	89.80	1.89	550.75	2187.50	2127.25	36.30	
7000.00	7000.00	13834.05	8980.04	15.59	91.65	89.80	1.89	550.75	2090.88	2029.91	34.30	
7100.00	7100.00	13834.05	8980.04	15.82	91.65	89.80	1.89	550.75	1994.58	1932.85	32.31	
7200.00	7200.00	13834.05	8980.04	16.04	91.65	89.80	1.89	550.75	1898.67	1836.10	30.34	
7300.00	7300.00	13834.05	8980.04	16.27	91.65	89.80	1.89	550.75	1803.20	1739.71	28.40	
7400.00	7400.00	13834.06	8980.04	16.49	91.65	89.80	1.89	550.75	1708.26	1643.73	26.47	
7500.00	7500.00	13834.06	8980.04	16.72	91.65	89.80	1.89	550.75	1613.92	1548.24	24.58	
7600.00	7600.00	13834.06	8980.04	16.94	91.65	89.80	1.89	550.75	1520.30	1453.34	22.70	
7700.00	7699.95	13832.30	8980.04	17.17	91.62	261.84	0.13	550.75	1427.57	1359.17	20.87	
7800.00	7798.46	13815.84	8980.04	17.40	91.33	242.88	-16.32	550.81	1336.92	1267.15	19.16	
7900.00	7892.61	13782.55	8980.04	17.65	90.73	230.98	-49.62	550.92	1251.06	1180.23	17.66	
8000.00	7979.54	13733.43	8980.04	17.94	89.86	223.88	-98.74	551.09	1172.53	1101.05	16.40	
8100.00	8056.61	13669.97	8980.04	18.30	88.73	219.62	-162.19	551.31	1103.53	1031.79	15.38	
8200.00	8121.48	13594.11	8980.04	18.75	87.38	217.04	-238.06	551.58	1045.81	974.18	14.60	
8300.00	8172.18	13508.14	8980.03	19.33	85.86	215.46	-324.02	551.87	1000.69	929.47	14.05	
8400.00	8207.16	13414.69	8980.03	20.04	84.20	214.48	-417.47	552.20	969.05	898.49	13.73	
8500.00	8225.37	13316.59	8980.03	20.88	82.47	213.86	-515.57	552.54	951.45	881.72	13.64	
8600.00	8228.39	13216.78	8980.03	21.82	80.70	213.55	-615.39	552.88	946.49	877.60	13.74	
8700.00	8229.18	13116.88	8980.03	22.87	78.94	213.35	-715.28	553.23	943.38	875.21	13.84	
8800.00	8229.96	13016.98	8980.03	24.01	77.18	213.15	-815.18	553.57	940.29	872.78	13.93	
8900.00	8230.75	12917.08	8980.03	25.24	75.42	212.95	-915.08	553.92	937.21	870.29	14.00	
9000.00	8231.54	12817.18	8980.03	26.54	73.67	212.75	-1014.98	554.26	934.14	867.76	14.07	
9100.00	8232.32	12717.28	8980.03	27.90	71.92	212.55	-1114.88	554.61	931.08	865.20	14.13	
9200.00	8233.11	12617.38	8980.03	29.32	70.17	212.34	-1214.77	554.95	928.04	862.62	14.19	
9300.00	8233.90	12517.49	8980.03	30.78	68.43	212.14	-1314.67	555.30	925.00	860.01	14.23	
9400.00	8234.68	12417.59	8980.03	32.28	66.69	211.93	-1414.57	555.64	921.98	857.38	14.27	
9500.00	8235.47	12317.69	8980.02	33.81	64.96	211.72	-1514.47	555.99	918.97	854.73	14.30	
9600.00	8236.26	12217.79	8980.02	35.37	63.23	211.51	-1614.37	556.33	915.98	852.07	14.33	
9700.00	8237.05	12117.89	8980.02	36.96	61.50	211.30	-1714.26	556.68	912.99	849.41	14.36	
9800.00	8237.83	12017.99	8980.02	38.57	59.79	211.08	-1814.16	557.02	910.02	846.73	14.38	
9900.00	8238.62	11918.10	8980.02	40.20	58.08	210.87	-1914.06	557.37	907.06	844.05	14.40	
10000.00	8239.41	11818.20	8980.02	41.85	56.38	210.65	-2013.96	557.72	904.11	841.37	14.41	
10100.00	8240.19	11718.30	8980.02	43.51	54.68	210.44	-2113.85	558.06	901.18	838.68	14.42	
10200.00	8240.98	11618.40	8980.02	45.19	52.99	210.22	-2213.75	558.41	898.26	835.99	14.43	
10300.00	8241.77	11518.50	8980.02	46.88	51.32	210.00	-2313.65	558.75	895.35	833.30	14.43	



Weatherford International Ltd.

Anticollision Report

**Weatherford**

Company: Devon Energy
Field: Eddy Co.: NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 6

Co-ordinate(NE) Reference: Well: 161H, Grid North
Vertical (TVD) Reference: SITE 3483.0

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		
10400.00	8242.55	11418.60	8980.02	48.58	49.65	209.78	-2413.55	559.10	892.45	830.61	14.43	
10500.00	8243.34	11318.70	8980.02	50.30	48.00	209.56	-2513.45	559.44	889.57	827.92	14.43	
10600.00	8244.13	11218.81	8980.01	52.02	46.36	209.33	-2613.34	559.79	886.70	825.23	14.42	
10700.00	8244.91	11118.91	8980.01	53.75	44.73	209.11	-2713.24	560.13	883.85	822.54	14.42	
10800.00	8245.70	11019.01	8980.01	55.48	43.12	208.88	-2813.14	560.48	881.01	819.85	14.41	
10900.00	8246.49	10919.11	8980.01	57.23	41.52	208.65	-2913.04	560.82	878.18	817.16	14.39	
11000.00	8247.28	10819.21	8980.01	58.97	39.95	208.42	-3012.94	561.17	875.37	814.47	14.37	
11100.00	8248.06	10719.31	8980.01	60.73	38.39	208.19	-3112.83	561.52	872.57	811.78	14.35	
11200.00	8248.85	10619.42	8980.01	62.49	36.87	207.96	-3212.73	561.86	869.79	809.08	14.33	
11300.00	8249.64	10519.52	8980.01	64.25	35.37	207.72	-3312.63	562.21	867.02	806.39	14.30	
11400.00	8250.42	10419.62	8980.01	66.02	33.90	207.49	-3412.53	562.55	864.26	803.68	14.27	
11500.00	8251.21	10319.72	8980.01	67.80	32.47	207.25	-3512.42	562.90	861.52	800.98	14.23	
11600.00	8252.00	10219.82	8980.01	69.57	31.08	207.01	-3612.32	563.24	858.80	798.26	14.19	
11700.00	8252.78	10119.92	8980.01	71.35	29.74	206.77	-3712.22	563.59	856.09	795.54	14.14	
11800.00	8253.57	10020.02	8980.00	73.13	28.45	206.53	-3812.12	563.93	853.39	792.80	14.08	
11900.00	8254.36	9920.13	8980.00	74.92	27.22	206.28	-3912.02	564.28	850.71	790.05	14.02	
12000.00	8255.14	9820.23	8980.00	76.71	26.06	206.04	-4011.91	564.62	848.05	787.28	13.95	
12100.00	8255.93	9720.33	8980.00	78.50	24.98	205.79	-4111.81	564.97	845.40	784.49	13.88	
12200.00	8256.72	9620.43	8980.00	80.29	23.99	205.54	-4211.71	565.31	842.77	781.68	13.80	
12300.00	8257.51	9489.09	8978.02	82.09	23.11	205.38	-4342.97	567.43	839.67	778.53	13.73	
12400.00	8258.29	9281.60	8938.45	83.89	22.33	208.18	-4542.84	601.45	826.74	762.69	12.91	
12500.00	8259.08	9117.33	8873.48	85.69	21.67	213.61	-4682.72	656.64	804.62	734.24	11.43	
12600.00	8259.87	8998.92	8810.71	87.49	21.19	219.36	-4767.66	709.79	780.23	702.98	10.10	
12700.00	8260.65	8914.92	8759.39	89.29	20.85	224.31	-4817.96	753.19	759.29	675.99	9.11	
12800.00	8261.44	8854.18	8719.35	91.10	20.60	228.27	-4848.59	787.02	745.73	657.32	8.43	
12871.12	8262.00	8820.77	8696.42	92.38	20.47	230.56	-4863.27	806.38	741.97	650.41	8.10	

Site: Cotton Draw Unit #151H
Well: Cotton Draw Unit #151H
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		
0.00	0.00	43.00	43.00	0.00	0.04	2.30	5216.80	209.79	5221.02			No Data
100.00	100.00	143.00	143.00	0.08	0.18	2.30	5216.80	209.79	5221.02	5220.75	19685.32	
200.00	200.00	243.00	243.00	0.31	0.41	2.30	5216.80	209.79	5221.02	5220.30	7304.61	
300.00	300.00	343.00	343.00	0.53	0.63	2.30	5216.80	209.79	5221.02	5219.85	4484.30	
400.00	400.00	443.00	443.00	0.76	0.86	2.30	5216.80	209.79	5221.02	5219.40	3235.19	
500.00	500.00	543.00	543.00	0.98	1.08	2.30	5216.80	209.79	5221.02	5218.95	2530.36	
600.00	600.00	643.00	643.00	1.21	1.30	2.30	5216.80	209.79	5221.02	5218.50	2077.70	
700.00	700.00	743.00	743.00	1.43	1.53	2.30	5216.80	209.79	5221.02	5218.05	1762.42	
800.00	800.00	843.00	843.00	1.66	1.75	2.30	5216.80	209.79	5221.02	5217.60	1530.22	
900.00	900.00	943.00	943.00	1.88	1.98	2.30	5216.80	209.79	5221.02	5217.16	1352.08	
1000.00	1000.00	1043.00	1043.00	2.11	2.20	2.30	5216.80	209.79	5221.02	5216.71	1211.09	
1100.00	1100.00	1143.00	1143.00	2.33	2.43	2.30	5216.80	209.79	5221.02	5216.26	1096.73	
1200.00	1200.00	1243.00	1243.00	2.56	2.65	2.30	5216.80	209.79	5221.02	5215.81	1002.10	
1300.00	1300.00	1343.00	1343.00	2.78	2.88	2.30	5216.80	209.79	5221.02	5215.36	922.50	
1400.00	1400.00	1443.00	1443.00	3.01	3.10	2.30	5216.80	209.79	5221.02	5214.91	854.62	
1500.00	1500.00	1543.00	1543.00	3.23	3.33	2.30	5216.80	209.79	5221.02	5214.46	796.05	
1600.00	1600.00	1643.00	1643.00	3.46	3.55	2.30	5216.80	209.79	5221.02	5214.01	744.99	
1700.00	1700.00	1743.00	1743.00	3.68	3.78	2.30	5216.80	209.79	5221.02	5213.56	700.08	
1800.00	1800.00	1843.00	1843.00	3.91	4.00	2.30	5216.80	209.79	5221.02	5213.11	660.28	



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 7

Co-ordinate(NE) Reference: Well: 161H, Grid North
Vertical (TVD) Reference: SITE 3483.0
Db: Sybase

Site: Cotton Draw Unit #151H
Well: Cotton Draw Unit #151H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr	Edge	Separation	Warning	
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft		Factor
1900.00	1900.00	1943.00	1943.00	4.13	4.23	2.30	5216.80	209.79	5221.02	5212.66	624.76	
2000.00	2000.00	2043.00	2043.00	4.35	4.45	2.30	5216.80	209.79	5221.02	5212.21	592.87	
2100.00	2100.00	2143.00	2143.00	4.58	4.68	2.30	5216.80	209.79	5221.02	5211.76	564.08	
2200.00	2200.00	2243.00	2243.00	4.80	4.90	2.30	5216.80	209.79	5221.02	5211.31	537.95	
2300.00	2300.00	2343.00	2343.00	5.03	5.13	2.30	5216.80	209.79	5221.02	5210.86	514.14	
2400.00	2400.00	2443.00	2443.00	5.25	5.35	2.30	5216.80	209.79	5221.02	5210.41	492.34	
2500.00	2500.00	2543.00	2543.00	5.48	5.58	2.30	5216.80	209.79	5221.02	5209.96	472.32	
2600.00	2600.00	2643.00	2643.00	5.70	5.80	2.30	5216.80	209.79	5221.02	5209.51	453.86	
2700.00	2700.00	2743.00	2743.00	5.93	6.02	2.30	5216.80	209.79	5221.02	5209.06	436.79	
2800.00	2800.00	2843.00	2843.00	6.15	6.25	2.30	5216.80	209.79	5221.02	5208.61	420.96	
2900.00	2900.00	2943.00	2943.00	6.38	6.47	2.30	5216.80	209.79	5221.02	5208.16	406.24	
3000.00	3000.00	3043.00	3043.00	6.60	6.70	2.30	5216.80	209.79	5221.02	5207.71	392.51	
3100.00	3100.00	12821.03	8259.00	6.83	89.32	28.59	399.92	217.96	5136.23	5093.44	120.02	
3200.00	3200.00	12821.03	8259.00	7.05	89.32	28.59	399.92	217.96	5036.64	4993.61	117.06	
3300.00	3300.00	12821.03	8259.00	7.28	89.32	28.59	399.92	217.96	4937.05	4893.79	114.13	
3400.00	3400.00	12821.03	8259.00	7.50	89.32	28.59	399.92	217.96	4837.49	4794.00	111.23	
3500.00	3500.00	12821.03	8259.00	7.73	89.32	28.59	399.92	217.96	4737.94	4694.22	108.36	
3600.00	3600.00	12821.03	8259.00	7.95	89.32	28.59	399.92	217.96	4638.42	4594.46	105.52	
3700.00	3700.00	12821.03	8259.00	8.18	89.32	28.59	399.92	217.96	4538.91	4494.72	102.71	
3800.00	3800.00	12821.03	8259.00	8.40	89.32	28.59	399.92	217.96	4439.43	4395.00	99.93	
3900.00	3900.00	12821.03	8259.00	8.63	89.32	28.59	399.92	217.96	4339.97	4295.30	97.17	
4000.00	4000.00	12821.03	8259.00	8.85	89.32	28.59	399.92	217.96	4240.53	4195.63	94.45	
4100.00	4100.00	12821.03	8259.00	9.07	89.32	28.59	399.92	217.96	4141.12	4095.99	91.75	
4200.00	4200.00	12821.03	8259.00	9.30	89.32	28.59	399.92	217.96	4041.74	3996.37	89.08	
4300.00	4300.00	12821.03	8259.00	9.52	89.32	28.59	399.92	217.96	3942.40	3896.79	86.43	
4400.00	4400.00	12821.03	8259.00	9.75	89.32	28.59	399.92	217.96	3843.08	3797.23	83.82	
4500.00	4500.00	12821.03	8259.00	9.97	89.32	28.59	399.92	217.96	3743.81	3697.72	81.22	
4600.00	4600.00	12821.03	8259.00	10.20	89.32	28.59	399.92	217.96	3644.57	3598.24	78.66	
4700.00	4700.00	12821.03	8259.00	10.42	89.32	28.59	399.92	217.96	3545.38	3498.80	76.12	
4800.00	4800.00	12821.03	8259.00	10.65	89.32	28.59	399.92	217.96	3446.23	3399.41	73.60	
4900.00	4900.00	12821.03	8259.00	10.87	89.32	28.59	399.92	217.96	3347.13	3300.06	71.11	
5000.00	5000.00	12821.03	8259.00	11.10	89.32	28.59	399.92	217.96	3248.09	3200.77	68.64	
5100.00	5100.00	12821.03	8259.00	11.32	89.32	28.59	399.92	217.96	3149.11	3101.54	66.19	
5200.00	5200.00	12821.03	8259.00	11.55	89.32	28.59	399.92	217.96	3050.20	3002.37	63.77	
5300.00	5300.00	12821.03	8259.00	11.77	89.32	28.59	399.92	217.96	2951.36	2903.27	61.38	
5400.00	5400.00	12821.03	8259.00	12.00	89.32	28.59	399.92	217.96	2852.60	2804.25	59.00	
5500.00	5500.00	12821.03	8259.00	12.22	89.32	28.59	399.92	217.96	2753.92	2705.31	56.65	
5600.00	5600.00	12821.03	8259.00	12.45	89.32	28.59	399.92	217.96	2655.35	2606.47	54.32	
5700.00	5700.00	12821.03	8259.00	12.67	89.32	28.59	399.92	217.96	2556.89	2507.73	52.01	
5800.00	5800.00	12821.03	8259.00	12.90	89.32	28.59	399.92	217.96	2458.56	2409.11	49.73	
5900.00	5900.00	12821.03	8259.00	13.12	89.32	28.59	399.92	217.96	2360.36	2310.63	47.46	
6000.00	6000.00	12821.03	8259.00	13.35	89.32	28.59	399.92	217.96	2262.32	2212.29	45.22	
6100.00	6100.00	12821.03	8259.00	13.57	89.32	28.59	399.92	217.96	2164.46	2114.13	43.00	
6200.00	6200.00	12821.03	8259.00	13.80	89.32	28.59	399.92	217.96	2066.81	2016.15	40.80	
6300.00	6300.00	12821.03	8259.00	14.02	89.32	28.59	399.92	217.96	1969.39	1918.40	38.62	
6400.00	6400.00	12821.03	8259.00	14.24	89.32	28.59	399.92	217.96	1872.24	1820.90	36.46	
6500.00	6500.00	12821.03	8259.00	14.47	89.32	28.59	399.92	217.96	1775.42	1723.69	34.32	
6600.00	6600.00	12821.03	8259.00	14.69	89.32	28.59	399.92	217.96	1678.96	1626.83	32.21	
6700.00	6700.00	12821.03	8259.00	14.92	89.32	28.59	399.92	217.96	1582.94	1530.38	30.11	
6800.00	6800.00	12821.03	8259.00	15.14	89.32	28.59	399.92	217.96	1487.45	1434.40	28.04	
6900.00	6900.00	12821.03	8259.00	15.37	89.32	28.59	399.92	217.96	1392.59	1339.00	25.99	



Company: Devon Energy Date: 1/20/2011 Time: 13:13:50 Page: 8
 Field: Eddy Co., NM (NAD 83)
 Reference Site: Cotton Draw Unit 161H Co-ordinate(NE) Reference: Well: 161H, Grid North
 Reference Well: 161H Vertical (TVD) Reference: SITE 3483.0
 Reference Wellpath: 1 Db: Sybase

Site: Cotton Draw Unit #151H
 Well: Cotton Draw Unit #151H
 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		
7000.00	7000.00	12821.03	8259.00	15.59	89.32	28.59	399.92	217.96	1298.50	1244.30	23.96	
7100.00	7100.00	12821.03	8259.00	15.82	89.32	28.59	399.92	217.96	1205.36	1150.46	21.95	
7200.00	7200.00	12821.03	8259.00	16.04	89.32	28.59	399.92	217.96	1113.42	1057.67	19.97	
7300.00	7300.00	12821.03	8259.00	16.27	89.32	28.59	399.92	217.96	1022.99	966.21	18.02	
7400.00	7400.00	12821.03	8259.00	16.49	89.32	28.59	399.92	217.96	934.50	876.44	16.10	
7500.00	7500.00	12821.03	8259.00	16.72	89.32	28.59	399.92	217.96	848.59	788.86	14.21	
7600.00	7600.00	12821.03	8259.00	16.94	89.32	28.59	399.92	217.96	766.09	704.13	12.36	
7700.00	7699.95	12821.03	8259.00	17.17	89.32	208.84	399.92	217.96	689.29	624.25	10.60	
7800.00	7798.46	12821.03	8259.00	17.40	89.32	205.40	399.92	217.96	629.53	560.44	9.11	
7900.00	7892.61	12821.03	8259.00	17.65	89.32	203.88	399.92	217.96	595.65	521.20	8.00	
8000.00	7979.54	12821.03	8259.00	17.94	89.32	203.78	399.92	217.96	593.20	511.76	7.28	
8100.00	8056.61	12821.03	8259.00	18.30	89.32	205.07	399.92	217.96	622.60	533.04	6.95	
8200.00	8121.48	12821.03	8259.00	18.75	89.32	208.16	399.92	217.96	678.94	581.83	6.99	
8300.00	8172.18	12821.03	8259.00	19.33	89.32	214.27	399.92	217.96	754.74	652.50	7.38	
8400.00	8207.16	12821.03	8259.00	20.04	89.32	226.50	399.92	217.96	842.83	737.24	7.98	
8500.00	8225.37	12821.03	8259.00	20.88	89.32	251.84	399.92	217.96	937.48	828.11	8.57	
8600.00	8228.39	12821.03	8259.00	21.82	89.32	271.08	399.92	217.96	1034.49	923.46	9.32	
8700.00	8229.18	12821.03	8259.00	22.87	89.32	271.08	399.92	217.96	1132.06	1020.00	10.10	
8800.00	8229.96	12821.03	8259.00	24.01	89.32	271.08	399.92	217.96	1230.03	1116.84	10.87	
8900.00	8230.75	12821.03	8259.00	25.24	89.32	271.08	399.92	217.96	1328.29	1213.90	11.61	
9000.00	8231.54	12821.03	8259.00	26.54	89.32	271.08	399.92	217.96	1426.80	1311.14	12.34	
9100.00	8232.32	12821.03	8259.00	27.90	89.32	271.08	399.92	217.96	1525.51	1408.51	13.04	
9200.00	8233.11	12821.03	8259.00	29.32	89.32	271.08	399.92	217.96	1624.37	1505.99	13.72	
9300.00	8233.90	12821.03	8259.00	30.78	89.32	271.08	399.92	217.96	1723.36	1603.56	14.39	
9400.00	8234.68	12821.03	8259.00	32.28	89.32	271.08	399.92	217.96	1822.46	1701.21	15.03	
9500.00	8235.47	12821.03	8259.00	33.81	89.32	271.08	399.92	217.96	1921.66	1798.93	15.66	
9600.00	8236.26	12821.03	8259.00	35.37	89.32	271.08	399.92	217.96	2020.93	1896.70	16.27	
9700.00	8237.05	12821.03	8259.00	36.96	89.32	271.08	399.92	217.96	2120.28	1994.52	16.86	
9800.00	8237.83	12821.03	8259.00	38.57	89.32	271.08	399.92	217.96	2219.68	2092.38	17.44	
9900.00	8238.62	12821.03	8259.00	40.20	89.32	271.08	399.92	217.96	2319.13	2190.29	18.00	
10000.00	8239.41	12821.03	8259.00	41.85	89.32	271.08	399.92	217.96	2418.63	2288.24	18.55	
10100.00	8240.19	12821.03	8259.00	43.51	89.32	271.08	399.92	217.96	2518.17	2386.23	19.09	
10200.00	8240.98	12821.03	8259.00	45.19	89.32	271.08	399.92	217.96	2617.74	2484.25	19.61	
10300.00	8241.77	12821.03	8259.00	46.88	89.32	271.08	399.92	217.96	2717.35	2582.31	20.12	
10400.00	8242.55	12821.03	8259.00	48.58	89.32	271.08	399.92	217.96	2816.98	2680.42	20.63	
10500.00	8243.34	12821.03	8259.00	50.30	89.32	271.08	399.92	217.96	2916.64	2778.56	21.12	
10600.00	8244.13	12821.03	8259.00	52.02	89.32	271.08	399.92	217.96	3016.32	2876.76	21.61	
10700.00	8244.91	12821.03	8259.00	53.75	89.32	271.08	399.92	217.96	3116.02	2975.00	22.10	
10800.00	8245.70	12821.03	8259.00	55.48	89.32	271.08	399.92	217.96	3215.74	3073.30	22.58	
10900.00	8246.49	12821.03	8259.00	57.23	89.32	271.08	399.92	217.96	3315.48	3171.68	23.06	
11000.00	8247.28	12821.03	8259.00	58.97	89.32	271.08	399.92	217.96	3415.23	3270.13	23.54	
11100.00	8248.06	12821.03	8259.00	60.73	89.32	271.08	399.92	217.96	3514.99	3368.67	24.02	
11200.00	8248.85	12821.03	8259.00	62.49	89.32	271.08	399.92	217.96	3614.77	3467.34	24.52	
11300.00	8249.64	12821.03	8259.00	64.25	89.32	271.08	399.92	217.96	3714.56	3566.14	25.03	
11400.00	8250.42	12821.03	8259.00	66.02	89.32	271.08	399.92	217.96	3814.36	3665.11	25.56	
11500.00	8251.21	12821.03	8259.00	67.80	89.32	271.08	399.92	217.96	3914.18	3764.30	26.12	
11600.00	8252.00	12821.03	8259.00	69.57	89.32	271.08	399.92	217.96	4014.00	3863.76	26.72	
11700.00	8252.78	12821.03	8259.00	71.35	89.32	271.08	399.92	217.96	4113.83	3963.55	27.38	
11800.00	8253.57	12821.03	8259.00	73.13	89.32	271.08	399.92	217.96	4213.67	4063.77	28.11	
11900.00	8254.36	12821.03	8259.00	74.92	89.32	271.08	399.92	217.96	4313.51	4164.51	28.95	



Weatherford International Ltd.

Anticollision Report



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw Unit 161H
Reference Well: 161H
Reference Wellpath: 1

Date: 1/20/2011
Time: 13:13:50
Page: 9

Co-ordinate(NE) Reference: Well: 161H, Grid North
Vertical (TVD) Reference: SITE 3483.0
Db: Sybase

Site: Cotton Draw Unit #151H
Well: Cotton Draw Unit #151H
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		
12000.00	8255.14	12821.03	8259.00	76.71	89.32	271.08	399.92	217.96	4413.36	4265.90	29.93	
12100.00	8255.93	12821.03	8259.00	78.50	89.32	271.08	399.92	217.96	4513.22	4368.05	31.09	
12200.00	8256.72	12821.03	8259.00	80.29	89.32	271.08	399.92	217.96	4613.09	4471.04	32.48	
12300.00	8257.51	12821.03	8259.00	82.09	89.32	271.08	399.92	217.96	4712.96	4574.86	34.13	
12400.00	8258.29	12821.03	8259.00	83.89	89.32	271.08	399.92	217.96	4812.84	4679.26	36.03	
12500.00	8259.08	12821.03	8259.00	85.69	89.32	271.08	399.92	217.96	4912.72	4783.61	38.05	
12600.00	8259.87	12821.03	8259.00	87.49	89.32	271.08	399.92	217.96	5012.60	4886.77	39.83	
12700.00	8260.65	12821.03	8259.00	89.29	89.32	271.08	399.92	217.96	5112.49	4987.32	40.84	
12800.00	8261.44	12821.03	8259.00	91.10	89.32	271.08	399.92	217.96	5212.39	5084.53	40.77	
12871.12	8262.00	12821.03	8259.00	92.38	89.32	271.08	399.92	217.96	5283.43	5151.94	40.18	

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

GeoDec v5.03

Report Date: January 20, 2011
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw Unit #161H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 424624.190 USFT	Latitude 32.1660516 DEG
East/West 720062.930 USFT	Longitude -103.7557384 DEG
Grid Convergence: .31°	
Total Correction: +7.31°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.16605° N	32° 9 min 57.786 sec
Longitude =	103.75574° W	103° 45 min 20.658 sec

Magnetic Declination =	7.62°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6570
Local Field Strength =	48541 nT	Magnetic Vector X = 23990 nT
Magnetic Dip =	60.09°	Magnetic Vector Y = 3208 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42076 nT
Spud Date =	Nov 15, 2011	Magnetic Vector H = 24203 nT

Signed: _____

Date: _____